Planck 2014 Results: Cosmological Parameter Tables

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Abstract

These tables summarize the results of *Planck* 2014 parameter estimation exploration results. They include *Planck* HFI data in combination with LFI polarization, *Planck* lensing, as well as additional non-CMB data as detailed in the main parameter papers.

1 Introduction

The tables are arranged grouped firstly by cosmological model, and then by data combination. The name tags match those of the full chains also provided on the PLA. They all start with `base` to denote the baseline model, followed by the parameter tags of any additional parameters that are also varied (as defined in the parameter paper). Data combination tags are as follows (see the parameters paper for full description and references):

Data tag	Data used
`plikHM`	baseline high-l *Planck* power spectra (`plik` cross half-mission, $30 \leq l \leq 2508$)
`plikDS`	high-l *Planck* (`plik` cross detsets, $30 \leq l \leq 2508$)
`CamSpecHM`	alternative high-l *Planck* (`CamSpec` cross half-mission, $30 \leq l \leq 2500$)
`CamSpecDS`	high-l *Planck* (`CamSpec` cross detsets, $30 \leq l \leq 2500$)
`lowl`	low-l *Planck* temperature (Commander, $2 \leq l \leq 29$)
`lowTEB`	low-l temperature and LFI polarization (bflike, $2 \leq l \leq 29$)
`lowEB`	low-l LFI polarization only (bflike, $2 \leq l \leq 29$)
`WMAPTEB`	low-l temperature, and LFI+WMAP polarization (bflike, $2 \leq l \leq 29$)
`lensing`	*Planck* lensing power spectrum reconstruction
`lensonly`	*Planck* lensing power spectrum reconstruction only; T,E fixed to best-fit spectrum + priors
`zre6p5`	A hard prior $z_{\rm re} > 6.5$
`tau07`	A Gaussian prior $\tau = 0.07 \pm 0.02$
`reion`	A hard prior $z_{\rm re} > 6.5$, combined with Gaussian prior $z_{\rm re} = 7 \pm 1$
`BAO`	Baryon oscillation data from DR11LOWZ, DR11CMASS, MGS and 6DF
`JLA`	Supernova data from the SDSS-II/SNLS3 Joint Light-curve Analysis
`H070p6`	A conservative Hubble parameter constraint, $H_0 = 70.6 \pm 3.3$ (Efstathiou; arXiv:1311.3461)
`theta`	$100\theta_{\rm MC}$ fixed to 1.0408
`WMAP`	The full WMAP (temperature and polarization) 9 year data
`WLonlyHeymans`	Conservative cut of the CFHTLenS weak lensing data + priors

The high-l *Planck* likelihoods have `TT`, `TE`, `EE` variants from each spectrum alone, plus the `TTTEEE` joint constraint.

Data likelihoods are either included when running the chains, or by importance sampling. Data combinations that are added by importance sampling appear at the end of the list, following the `post_` tag. Note that the best fits are merely examples of parameter combinations that fit the data well, due to parameter degeneracies there may be other combinations of parameters that fit the data nearly equally well.

Beneath each table is the $\chi^2_{\rm eff} = -2\log(\text{likelihood})$ for each best fit model, and also the contributions coming from each separate part of the likelihood. Mean minus log likelihoods are also given, $\bar{\chi}^2_{\rm eff}$. The tables also give the $\chi^2_{\rm eff}$ of the various component parts of the likelihood, where quoted values are the best-fit and mean, standard deviation (in the case of 1-sigma tables), or effective degrees of freedom (ν, defined by $\sigma^2/2$).

The $R-1$ value is also given, which measures the convergence of the sampling chains, with small values being better converged. The sampling uncertainty on quoted mean values are typically of order $R-1$ in units of the standard deviation.

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17.23 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_BAO . . . 545
17.24 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_JLA . . . 546
17.25 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_lensing . . . 547
17.26 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_H070p6 . . . 548
17.27 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA . . . 549
17.28 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_zre6p5 . . . 550
17.29 base_nrun_plikHM_TE_lowTEB . . . 551
17.30 base_nrun_plikHM_EE_lowTEB . . . 552
17.31 base_nrun_CamSpecHM_TE_lowTEB . . . 553
17.32 base_nrun_CamSpecHM_EE_lowTEB . . . 554
17.33 base_nrun_plikHM_TE_lowEB . . . 555
17.34 base_nrun_plikHM_EE_lowEB . . . 556
17.35 base_nrun_plikHM_TT_tau07 . . . 557
17.36 base_nrun_plikHM_TTTEEE_tau07 . . . 558
17.37 base_nrun_CamSpecHM_TT_tau07 . . . 559

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18.2 base_nrun_r_plikHM_TT_lowTEB_post_BAO . . . 561
18.3 base_nrun_r_plikHM_TT_lowTEB_post_JLA . . . 562
18.4 base_nrun_r_plikHM_TT_lowTEB_post_H070p6 . . . 563
18.5 base_nrun_r_plikHM_TT_lowTEB_post_zre6p5 . . . 564
18.6 base_nrun_r_plikHM_TTTEEE_lowTEB . . . 565
18.7 base_nrun_r_plikHM_TTTEEE_lowTEB_post_BAO . . . 567
18.8 base_nrun_r_plikHM_TTTEEE_lowTEB_post_JLA . . . 569
18.9 base_nrun_r_plikHM_TTTEEE_lowTEB_post_H070p6 . . . 570
18.10 base_nrun_r_plikHM_TTTEEE_lowTEB_post_zre6p5 . . . 571
18.11 base_nrun_r_CamSpecHM_TT_lowTEB . . . 572
18.12 base_nrun_r_CamSpecHM_TT_lowTEB_post_BAO . . . 573
18.13 base_nrun_r_CamSpecHM_TT_lowTEB_post_JLA . . . 574
18.14 base_nrun_r_CamSpecHM_TT_lowTEB_post_H070p6 . . . 575
18.15 base_nrun_r_CamSpecHM_TT_lowTEB_post_zre6p5 . . . 576
18.16 base_nrun_r_CamSpecHM_TTTEEE_lowTEB . . . 577
18.17 base_nrun_r_CamSpecHM_TTTEEE_lowTEB_post_BAO . . . 578
18.18 base_nrun_r_CamSpecHM_TTTEEE_lowTEB_post_JLA . . . 579
18.19 base_nrun_r_CamSpecHM_TTTEEE_lowTEB_post_H070p6 . . . 580
18.20 base_nrun_r_CamSpecHM_TTTEEE_lowTEB_post_zre6p5 . . . 581
18.21 base_nrun_r_plikHM_TT_lowTEB_lensing . . . 582
18.22 base_nrun_r_plikHM_TT_lowTEB_lensing_post_BAO . . . 583
18.23 base_nrun_r_plikHM_TT_lowTEB_lensing_post_BAO_H070p6_JLA . . . 584
18.24 base_nrun_r_plikHM_TT_lowTEB_lensing_post_zre6p5 . . . 585
18.25 base_nrun_r_plikHM_TTTEEE_lowTEB_lensing . . . 586
18.26 base_nrun_r_plikHM_TTTEEE_lowTEB_lensing_post_BAO . . . 588
18.27 base_nrun_r_plikHM_TTTEEE_lowTEB_lensing_post_BAO_H070p6_JLA . . . 591
18.28 base_nrun_r_plikHM_TTTEEE_lowTEB_lensing_post_zre6p5 . . . 593
18.29 base_nrun_r_plikHM_TT_WMAPTEB . . . 594

18.30 base_nrun_r_plikHM_TT_WMAPTEB_post_lensing . . . 595
18.31 base_nrun_r_plikHM_TT_WMAPTEB_post_BAO . . . 596

19 omegak **597**
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19.2 base_omegak_plikHM_TTTEEE_lowTEB . . . 598
19.3 base_omegak_CamSpecHM_TT_lowTEB . . . 599
19.4 base_omegak_CamSpecHM_TT_lowTEB_post_zre6p5 . . . 600
19.5 base_omegak_CamSpecHM_TTTEEE_lowTEB . . . 601
19.6 base_omegak_CamSpecHM_TTTEEE_lowTEB_post_zre6p5 . . . 602
19.7 base_omegak_plikHM_TT_lowTEB_BAO . . . 603
19.8 base_omegak_plikHM_TT_lowTEB_BAO_post_lensing . . . 604
19.9 base_omegak_plikHM_TTTEEE_lowTEB_BAO . . . 605
19.10 base_omegak_plikHM_TTTEEE_lowTEB_BAO_post_lensing . . . 606
19.11 base_omegak_plikHM_TT_lowTEB_BAO_H070p6_JLA . . . 607
19.12 base_omegak_plikHM_TT_lowTEB_BAO_H070p6_JLA_post_lensing . . . 608
19.13 base_omegak_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA . . . 609
19.14 base_omegak_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA_post_lensing . . . 611
19.15 base_omegak_plikHM_TT_lowTEB_lensing . . . 612
19.16 base_omegak_plikHM_TTTEEE_lowTEB_lensing . . . 613
19.17 base_omegak_CamSpecHM_TT_lowTEB_lensing . . . 614
19.18 base_omegak_CamSpecHM_TTTEEE_lowTEB_lensing . . . 615

20 r **616**
20.1 base_r_plikHM_TT_lowTEB . . . 616
20.2 base_r_plikHM_TT_lowTEB_post_BAO . . . 617
20.3 base_r_plikHM_TT_lowTEB_post_JLA . . . 618
20.4 base_r_plikHM_TT_lowTEB_post_H070p6 . . . 619
20.5 base_r_plikHM_TT_lowTEB_post_zre6p5 . . . 620
20.6 base_r_plikHM_TTTEEE_lowTEB . . . 621
20.7 base_r_plikHM_TTTEEE_lowTEB_post_BAO . . . 622
20.8 base_r_plikHM_TTTEEE_lowTEB_post_JLA . . . 624
20.9 base_r_plikHM_TTTEEE_lowTEB_post_H070p6 . . . 625
20.10 base_r_plikHM_TTTEEE_lowTEB_post_zre6p5 . . . 626
20.11 base_r_CamSpecHM_TT_lowTEB . . . 627
20.12 base_r_CamSpecHM_TT_lowTEB_post_BAO . . . 628
20.13 base_r_CamSpecHM_TT_lowTEB_post_JLA . . . 629
20.14 base_r_CamSpecHM_TT_lowTEB_post_H070p6 . . . 630
20.15 base_r_CamSpecHM_TT_lowTEB_post_zre6p5 . . . 631
20.16 base_r_CamSpecHM_TTTEEE_lowTEB . . . 632
20.17 base_r_CamSpecHM_TTTEEE_lowTEB_post_BAO . . . 633
20.18 base_r_CamSpecHM_TTTEEE_lowTEB_post_JLA . . . 634
20.19 base_r_CamSpecHM_TTTEEE_lowTEB_post_H070p6 . . . 635
20.20 base_r_CamSpecHM_TTTEEE_lowTEB_post_zre6p5 . . . 636
20.21 base_r_plikHM_TE_lowTEB . . . 637
20.22 base_r_plikHM_EE_lowTEB . . . 638
20.23 base_r_CamSpecHM_TE_lowTEB . . . 639
20.24 base_r_CamSpecHM_EE_lowTEB . . . 640
20.25 base_r_plikHM_TE_lowEB . . . 641
20.26 base_r_plikHM_EE_lowEB . . . 642
20.27 base_r_CamSpecHM_TE_lowEB . . . 643

20.28 base_r_CamSpecHM_EE_lowEB . . . 644
20.29 base_r_plikHM_TT_lowTEB_lensing . . . 645
20.30 base_r_plikHM_TT_lowTEB_lensing_post_BAO . . . 646
20.31 base_r_plikHM_TT_lowTEB_lensing_post_BAO_H070p6_JLA . . . 647
20.32 base_r_plikHM_TT_lowTEB_lensing_post_zre6p5 . . . 648
20.33 base_r_plikHM_TTTEEE_lowTEB_lensing . . . 649
20.34 base_r_plikHM_TTTEEE_lowTEB_lensing_post_BAO . . . 651
20.35 base_r_plikHM_TTTEEE_lowTEB_lensing_post_BAO_H070p6_JLA . . . 654
20.36 base_r_plikHM_TTTEEE_lowTEB_lensing_post_zre6p5 . . . 656
20.37 base_r_plikHM_TT_WMAPTEB . . . 657
20.38 base_r_plikHM_TT_WMAPTEB_post_lensing . . . 658
20.39 base_r_plikHM_TT_WMAPTEB_post_BAO . . . 659

21 w **660**
21.1 base_w_plikHM_TT_lowTEB . . . 660
21.2 base_w_plikHM_TT_lowTEB_post_JLA . . . 661
21.3 base_w_plikHM_TT_lowTEB_post_lensing . . . 662
21.4 base_w_plikHM_TT_lowTEB_post_H070p6 . . . 663
21.5 base_w_plikHM_TT_lowTEB_post_zre6p5 . . . 664
21.6 base_w_plikHM_TTTEEE_lowTEB . . . 665
21.7 base_w_plikHM_TTTEEE_lowTEB_post_lensing . . . 666
21.8 base_w_plikHM_TTTEEE_lowTEB_post_H070p6 . . . 667
21.9 base_w_plikHM_TTTEEE_lowTEB_post_zre6p5 . . . 668
21.10 base_w_CamSpecHM_TT_lowTEB . . . 669
21.11 base_w_CamSpecHM_TT_lowTEB_post_JLA . . . 670
21.12 base_w_CamSpecHM_TT_lowTEB_post_lensing . . . 671
21.13 base_w_CamSpecHM_TT_lowTEB_post_H070p6 . . . 672
21.14 base_w_CamSpecHM_TT_lowTEB_post_zre6p5 . . . 673
21.15 base_w_CamSpecHM_TTTEEE_lowTEB . . . 674
21.16 base_w_CamSpecHM_TTTEEE_lowTEB_post_JLA . . . 675
21.17 base_w_CamSpecHM_TTTEEE_lowTEB_post_lensing . . . 676
21.18 base_w_CamSpecHM_TTTEEE_lowTEB_post_H070p6 . . . 677
21.19 base_w_CamSpecHM_TTTEEE_lowTEB_post_zre6p5 . . . 678
21.20 base_w_plikHM_TT_lowTEB_BAO . . . 679
21.21 base_w_plikHM_TT_lowTEB_BAO_post_lensing . . . 680
21.22 base_w_plikHM_TTTEEE_lowTEB_BAO . . . 681
21.23 base_w_plikHM_TTTEEE_lowTEB_BAO_post_lensing . . . 682
21.24 base_w_plikHM_TT_lowTEB_BAO_H070p6_JLA . . . 683
21.25 base_w_plikHM_TT_lowTEB_BAO_H070p6_JLA_post_lensing . . . 684
21.26 base_w_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA . . . 685
21.27 base_w_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA_post_lensing . . . 687

22 w+wa **689**
22.1 base_w_wa_plikHM_TT_lowTEB_BAO . . . 689
22.2 base_w_wa_plikHM_TT_lowTEB_BAO_post_lensing . . . 690
22.3 base_w_wa_plikHM_TTTEEE_lowTEB_BAO . . . 691
22.4 base_w_wa_plikHM_TTTEEE_lowTEB_BAO_post_lensing . . . 692
22.5 base_w_wa_plikHM_TT_lowTEB_BAO_H070p6_JLA . . . 693
22.6 base_w_wa_plikHM_TT_lowTEB_BAO_H070p6_JLA_post_lensing . . . 694
22.7 base_w_wa_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA . . . 695
22.8 base_w_wa_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA_post_lensing . . . 697

23 yhe **699**
23.1 base_yhe_plikHM_TT_lowTEB . . . 699
23.2 base_yhe_plikHM_TT_lowTEB_post_BAO . . . 700
23.3 base_yhe_plikHM_TT_lowTEB_post_JLA . . . 701
23.4 base_yhe_plikHM_TT_lowTEB_post_lensing . . . 702
23.5 base_yhe_plikHM_TT_lowTEB_post_H070p6 . . . 703
23.6 base_yhe_plikHM_TT_lowTEB_post_lensing_BAO_H070p6_JLA . . . 704
23.7 base_yhe_plikHM_TT_lowTEB_post_zre6p5 . . . 705
23.8 base_yhe_plikHM_TTTEEE_lowTEB . . . 706
23.9 base_yhe_plikHM_TTTEEE_lowTEB_post_BAO . . . 707
23.10 base_yhe_plikHM_TTTEEE_lowTEB_post_JLA . . . 708
23.11 base_yhe_plikHM_TTTEEE_lowTEB_post_lensing . . . 709
23.12 base_yhe_plikHM_TTTEEE_lowTEB_post_H070p6 . . . 710
23.13 base_yhe_plikHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA . . . 711
23.14 base_yhe_plikHM_TTTEEE_lowTEB_post_zre6p5 . . . 712
23.15 base_yhe_CamSpecHM_TT_lowTEB . . . 713
23.16 base_yhe_CamSpecHM_TT_lowTEB_post_BAO . . . 714
23.17 base_yhe_CamSpecHM_TT_lowTEB_post_JLA . . . 715
23.18 base_yhe_CamSpecHM_TT_lowTEB_post_lensing . . . 716
23.19 base_yhe_CamSpecHM_TT_lowTEB_post_H070p6 . . . 717
23.20 base_yhe_CamSpecHM_TT_lowTEB_post_lensing_BAO_H070p6_JLA . . . 718
23.21 base_yhe_CamSpecHM_TT_lowTEB_post_zre6p5 . . . 719
23.22 base_yhe_CamSpecHM_TTTEEE_lowTEB . . . 720
23.23 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_BAO . . . 721
23.24 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_JLA . . . 722
23.25 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_lensing . . . 723
23.26 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_H070p6 . . . 724
23.27 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA . . . 725
23.28 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_zre6p5 . . . 726
23.29 base_yhe_plikHM_TE_lowTEB . . . 727
23.30 base_yhe_plikHM_EE_lowTEB . . . 728
23.31 base_yhe_CamSpecHM_TE_lowTEB . . . 729
23.32 base_yhe_CamSpecHM_EE_lowTEB . . . 730
23.33 base_yhe_plikHM_TE_lowEB . . . 731
23.34 base_yhe_plikHM_EE_lowEB . . . 732
23.35 base_yhe_CamSpecDS_TT_lowTEB . . . 733
23.36 base_yhe_plikDS_TT_lowTEB . . . 734
23.37 base_yhe_plikHM_TT_WMAPTEB . . . 735
23.38 base_yhe_plikHM_TT_WMAPTEB_post_lensing . . . 736
23.39 base_yhe_plikHM_TT_WMAPTEB_post_BAO . . . 737

2 Baseline model

2.1 base_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022242	0.02222 ± 0.00023	Ω_m	0.3149	0.315 ± 0.013	$100\theta_*$	1.041058	1.04105 ± 0.00046
$\boldsymbol{\Omega_c h^2}$	0.11977	0.1197 ± 0.0022	$\Omega_m h^2$	0.14266	0.1426 ± 0.0020	D_A/Gpc	13.8886	13.891 ± 0.045
$\boldsymbol{100\theta_{MC}}$	1.040862	1.04085 ± 0.00047	$\Omega_m h^3$	0.096020	0.09597 ± 0.00045	z_{drag}	1059.628	1059.57 ± 0.46
$\boldsymbol{\tau}$	0.0781	0.078 ± 0.019	σ_8	0.8301	0.829 ± 0.014	r_{drag}	147.294	147.33 ± 0.49
$\boldsymbol{\ln(10^{10} A_s)}$	3.0904	3.089 ± 0.036	$\sigma_8 \Omega_m^{0.5}$	0.4658	0.466 ± 0.013	k_D	0.14055	0.14050 ± 0.00052
$\boldsymbol{n_s}$	0.9658	0.9655 ± 0.0062	$\sigma_8 \Omega_m^{0.25}$	0.6218	0.621 ± 0.013	$100\theta_D$	0.160935	0.16097 ± 0.00027
$\boldsymbol{y_{cal}}$	1.00030	1.0004 ± 0.0025	$\sigma_8/h^{0.5}$	1.0118	1.011 ± 0.019	z_{eq}	3393.7	3393 ± 49
$\boldsymbol{A_{217}^{CIB}}$	66.6	63.9 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.4991	2.499 ± 0.045	k_{eq}	0.010358	0.01035 ± 0.00015
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	z_{re}	9.999	$9.89^{+1.8}_{-1.6}$	$100\theta_{eq}$	0.8144	0.8147 ± 0.0092
$\boldsymbol{A_{143}^{tSZ}}$	7.14	5.17 ± 1.9	$10^9 A_s$	2.199	$2.198^{+0.076}_{-0.085}$	$100\theta_{s,eq}$	0.45006	0.4502 ± 0.0047
$\boldsymbol{A_{100}^{PS}}$	251.8	257 ± 28	$10^9 A_s e^{-2\tau}$	1.8804	1.880 ± 0.014	$r_{drag}/D_V(0.57)$	0.07139	0.07141 ± 0.00073
$\boldsymbol{A_{143}^{PS}}$	39.2	44 ± 8	D_{40}	1235.8	1237 ± 15	$H(0.57)$	92.880	$92.88^{+0.39}_{-0.45}$
$\boldsymbol{A_{143\times217}^{PS}}$	33.6	39 ± 10	D_{220}	5716.1	5717 ± 41	$D_A(0.57)$	1391.6	1392 ± 13
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	D_{810}	2534.5	2534 ± 14	$F_{AP}(0.57)$	0.67689	0.6769 ± 0.0034
$\boldsymbol{A^{kSZ}}$	0.00	< 4.46	D_{1420}	814.9	814.5 ± 5.1	$f\sigma_8(0.57)$	0.4835	0.4831 ± 0.0091
$\boldsymbol{A_{100}^{dustTT}}$	7.41	7.40 ± 1.9	D_{2000}	230.49	230.3 ± 1.9	$\sigma_8(0.57)$	0.6167	0.616 ± 0.011
$\boldsymbol{A_{143}^{dustTT}}$	8.98	8.95 ± 1.8	$n_{s,0.002}$	0.9658	0.9655 ± 0.0062	f_{2000}^{143}	29.46	29.9 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.53	17.1 ± 4.1	Y_P	0.245336	0.24532 ± 0.00010	$f_{2000}^{143\times217}$	32.15	32.4 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	Y_P^{BBN}	0.246663	0.24665 ± 0.00010	f_{2000}^{217}	105.77	106.0 ± 2.0
$\boldsymbol{c_{100}}$	0.99789	0.99788 ± 0.00078	10^5D/H	2.6156	2.620 ± 0.043	χ^2_{lowTEB}	10496.47	10497.4 ± 2.3
$\boldsymbol{c_{217}}$	0.99593	0.9959 ± 0.0015	Age/Gyr	13.8113	13.813 ± 0.038	χ^2_{plik}	763.4	777.1 ± 5.7
H_0	67.31	67.31 ± 0.96	z_*	1090.062	1090.09 ± 0.42	χ^2_{prior}	2.08	7.32 ± 3.6
Ω_Λ	0.6851	0.685 ± 0.013	r_*	144.588	144.61 ± 0.49	χ^2_{CMB}	11259.8	11274.5 ± 5.5

Best-fit $\chi^2_{eff} = 11261.93$; $\bar{\chi}^2_{eff} = 11281.82$; $R - 1 = 0.01034$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.47 plik_dx11dr2_HM_v18_TT: 763.37

2.2 base_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022290	0.02226 ± 0.00020	$\Omega_m h^3$	0.096034	0.09597 ± 0.00045	k_D	0.140435	0.14038 ± 0.00044
$\boldsymbol{\Omega_c h^2}$	0.11901	0.1190 ± 0.0013	σ_8	0.8295	0.829 ± 0.014	$100\theta_D$	0.160910	0.16094 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.040979	1.04095 ± 0.00041	$\sigma_8\Omega_m^{0.5}$	0.4619	0.4619 ± 0.0098	z_{eq}	3376.7	3376 ± 29
$\boldsymbol{\tau}$	0.0809	0.080 ± 0.017	$\sigma_8\Omega_m^{0.25}$	0.6190	0.619 ± 0.011	k_{eq}	0.010306	0.010304 ± 0.000090
$\boldsymbol{\ln(10^{10}A_s)}$	3.0942	3.093 ± 0.034	$\sigma_8/h^{0.5}$	1.0084	1.008 ± 0.018	$100\theta_{eq}$	0.8177	0.8178 ± 0.0055
$\boldsymbol{n_s}$	0.96747	0.9673 ± 0.0045	$\langle d^2\rangle^{1/2}$	2.4922	2.492 ± 0.042	$100\theta_{s,eq}$	0.45174	0.4518 ± 0.0028
$\boldsymbol{y_{cal}}$	1.00027	1.0004 ± 0.0025	z_{re}	10.22	10.1 ± 1.6	$r_{drag}/D_V(0.57)$	0.071659	0.07165 ± 0.00043
$\boldsymbol{A_{217}^{CIB}}$	66.7	63.7 ± 6.6	$10^9 A_s$	2.207	2.206 ± 0.076	$H(0.57)$	93.022	$93.00^{+0.25}_{-0.29}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	$10^9 A_s e^{-2\tau}$	1.8772	1.877 ± 0.011	$D_A(0.57)$	1387.0	1387.5 ± 7.7
$\boldsymbol{A_{143}^{tSZ}}$	7.16	$5.21^{+2.2}_{-1.9}$	D_{40}	1233.4	1234 ± 13	$F_{AP}(0.57)$	0.67568	0.6758 ± 0.0019
$\boldsymbol{A_{100}^{PS}}$	251.8	257 ± 28	D_{220}	5720.1	5719 ± 40	$f\sigma_8(0.57)$	0.4819	0.4817 ± 0.0085
$\boldsymbol{A_{143}^{PS}}$	39.0	43 ± 8	D_{810}	2533.7	2533 ± 14	$\sigma_8(0.57)$	0.6174	0.617 ± 0.011
$\boldsymbol{A_{143\times217}^{PS}}$	33.2	39^{+10}_{-10}	D_{1420}	815.11	814.8 ± 4.9	f_{2000}^{143}	29.39	29.7 ± 2.9
$\boldsymbol{A_{217}^{PS}}$	97.2	97 ± 10	D_{2000}	230.63	230.5 ± 1.8	$f_{2000}^{143\times217}$	31.99	32.2 ± 2.1
$\boldsymbol{A^{kSZ}}$	0.01	< 4.42	$n_{s,0.002}$	0.96747	0.9673 ± 0.0045	f_{2000}^{217}	105.58	105.8 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.29	7.41 ± 1.9	Y_P	0.245357	0.245344 ± 0.000090	χ^2_{lowTEB}	10496.42	10497.1 ± 2.3
$\boldsymbol{A_{143}^{dustTT}}$	8.99	8.98 ± 1.9	Y_P^{BBN}	0.246684	0.246670 ± 0.000091	χ^2_{plik}	763.6	776.8 ± 5.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.60	17.1 ± 4.1	10^5D/H	2.6065	2.612 ± 0.038	χ^2_{6DF}	0.0225	0.064 ± 0.081
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.4	Age/Gyr	13.7997	$13.803^{+0.030}_{-0.027}$	χ^2_{MGS}	1.28	1.33 ± 0.54
$\boldsymbol{c_{100}}$	0.99789	0.99789 ± 0.00079	z_*	1089.934	1089.97 ± 0.30	$\chi^2_{DR11CMASS}$	2.451	2.91 ± 0.69
$\boldsymbol{c_{217}}$	0.99588	0.9959 ± 0.0014	r_*	144.748	144.77 ± 0.32	$\chi^2_{DR11LOWZ}$	0.615	0.77 ± 0.61
H_0	67.65	67.63 ± 0.57	$100\theta_*$	1.041173	1.04114 ± 0.00040	χ^2_{prior}	2.05	7.34 ± 3.6
Ω_Λ	0.6899	0.6896 ± 0.0076	D_A/Gpc	13.9024	13.905 ± 0.031	χ^2_{CMB}	11260.0	11274.0 ± 5.4
Ω_m	0.3101	0.3104 ± 0.0076	z_{drag}	1059.666	1059.62 ± 0.44	χ^2_{BAO}	4.37	5.07 ± 1.0
$\Omega_m h^2$	0.14195	0.1419 ± 0.0012	r_{drag}	147.444	147.47 ± 0.35			

Best-fit $\chi^2_{eff} = 11266.44$; $\bar{\chi}^2_{eff} = 11286.37$; $R - 1 = 0.01395$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.45 DR11LOWZ: 0.61 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.42 plik_dx11dr2_HM_v18_TT: 763.60

2.3 base_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022270	0.02225 ± 0.00022	$\Omega_m h^2$	0.14222	0.1422 ± 0.0019	z_{drag}	1059.666	1059.61 ± 0.46
$\boldsymbol{\Omega_c h^2}$	0.11930	0.1193 ± 0.0020	$\Omega_m h^3$	0.096014	0.09598 ± 0.00045	r_{drag}	147.387	147.41 ± 0.46
$\boldsymbol{100\theta_{MC}}$	1.040907	1.04090 ± 0.00046	σ_8	0.8301	0.829 ± 0.014	k_D	0.14048	0.14044 ± 0.00050
$\boldsymbol{\tau}$	0.0804	0.079 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.4637	0.463 ± 0.012	$100\theta_D$	0.160916	0.16095 ± 0.00026
$\boldsymbol{\ln(10^{10}A_s)}$	3.0937	3.092 ± 0.036	$\sigma_8\Omega_m^{0.25}$	0.6204	0.620 ± 0.013	z_{eq}	3383.1	3383 ± 45
$\boldsymbol{n_s}$	0.9670	0.9666 ± 0.0059	$\sigma_8/h^{0.5}$	1.0103	1.009 ± 0.019	k_{eq}	0.010326	0.01033 ± 0.00014
$\boldsymbol{y_{cal}}$	1.00026	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4957	2.495 ± 0.044	$100\theta_{eq}$	0.8164	0.8165 ± 0.0086
$\boldsymbol{A_{217}^{CIB}}$	66.9	63.8 ± 6.6	z_{re}	10.19	$10.0^{+1.7}_{-1.6}$	$100\theta_{s,eq}$	0.45109	0.4511 ± 0.0044
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.04	—	$10^9 A_s$	2.206	$2.203^{+0.075}_{-0.084}$	$r_{drag}/D_V(0.57)$	0.07155	0.07155 ± 0.00068
$\boldsymbol{A_{143}^{tSZ}}$	7.23	5.19 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8781	1.879 ± 0.013	$H(0.57)$	92.960	$92.95^{+0.37}_{-0.42}$
$\boldsymbol{A_{100}^{PS}}$	251.6	257 ± 28	D_{40}	1233.9	1236 ± 14	$D_A(0.57)$	1388.9	1389 ± 12
$\boldsymbol{A_{143}^{PS}}$	38.3	43 ± 8	D_{220}	5716.6	5719 ± 40	$F_{AP}(0.57)$	0.67616	0.6762 ± 0.0031
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	39^{+10}_{-10}	D_{810}	2533.6	2534 ± 14	$f\sigma_8(0.57)$	0.4828	0.4823 ± 0.0090
$\boldsymbol{A_{217}^{PS}}$	97.3	97 ± 10	D_{1420}	814.9	814.7 ± 5.1	$\sigma_8(0.57)$	0.6174	0.617 ± 0.011
$\boldsymbol{A^{kSZ}}$	0.00	< 4.42	D_{2000}	230.57	230.4 ± 1.9	f_{2000}^{143}	29.30	29.8 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.40 ± 1.9	$n_{s,0.002}$	0.9670	0.9666 ± 0.0059	$f_{2000}^{143\times217}$	32.03	32.3 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.08	8.97 ± 1.9	Y_P	0.245349	0.24534 ± 0.00010	f_{2000}^{217}	105.70	105.9 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.65	17.0 ± 4.1	Y_P^{BBN}	0.246675	0.24666 ± 0.00010	χ^2_{lowTEB}	10496.45	10497.3 ± 2.3
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	10^5D/H	2.6102	2.614 ± 0.042	χ^2_{plik}	763.4	777.1 ± 5.7
$\boldsymbol{c_{100}}$	0.99790	0.99789 ± 0.00079	Age/Gyr	13.8050	13.807 ± 0.036	χ^2_{JLA}	706.764	706.90 ± 0.42
$\boldsymbol{c_{217}}$	0.99592	0.9959 ± 0.0014	z_*	1089.986	1090.01 ± 0.40	χ^2_{prior}	2.11	7.30 ± 3.5
H_0	67.51	67.50 ± 0.89	r_*	144.688	144.70 ± 0.46	χ^2_{CMB}	11259.9	11274.4 ± 5.5
Ω_Λ	0.6880	0.688 ± 0.012	$100\theta_*$	1.041102	1.04110 ± 0.00045			
Ω_m	0.3120	0.312 ± 0.012	D_A/Gpc	13.8976	13.899 ± 0.042			

Best-fit $\chi^2_{eff} = 11968.74$; $\bar{\chi}^2_{eff} = 11988.60$; $R - 1 = 0.01407$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.44 plik_dx11dr2_HM_v18_TT: 763.42 SN - JLA December_2013: 706.76

2.4 base_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022292	0.02226 ± 0.00022	$\Omega_m h^2$	0.14217	0.1421 ± 0.0020	z_{drag}	1059.704	1059.63 ± 0.46
$\boldsymbol{\Omega_c h^2}$	0.11923	0.1192 ± 0.0021	$\Omega_m h^3$	0.096066	0.09599 ± 0.00045	r_{drag}	147.381	147.42 ± 0.47
$\boldsymbol{100\theta_{MC}}$	1.040959	1.04093 ± 0.00046	σ_8	0.8294	0.829 ± 0.014	k_D	0.14050	0.14044 ± 0.00051
$\boldsymbol{\tau}$	0.0798	0.080 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.4628	0.463 ± 0.013	$100\theta_D$	0.160896	0.16094 ± 0.00026
$\boldsymbol{\ln(10^{10}A_s)}$	3.0925	3.092 ± 0.036	$\sigma_8\Omega_m^{0.25}$	0.6196	0.620 ± 0.013	z_{eq}	3382.0	3381 ± 47
$\boldsymbol{n_s}$	0.9673	0.9669 ± 0.0060	$\sigma_8/h^{0.5}$	1.0090	1.009 ± 0.019	k_{eq}	0.010322	0.01032 ± 0.00014
$\boldsymbol{y_{cal}}$	1.00030	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4927	2.494 ± 0.044	$100\theta_{eq}$	0.8167	0.8169 ± 0.0089
$\boldsymbol{A_{217}^{CIB}}$	66.3	63.7 ± 6.6	z_{re}	10.12	$10.1^{+1.7}_{-1.6}$	$100\theta_{s,eq}$	0.45123	0.4513 ± 0.0046
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.09	—	$10^9 A_s$	2.203	$2.205^{+0.075}_{-0.085}$	$r_{drag}/D_V(0.57)$	0.07159	0.07159 ± 0.00070
$\boldsymbol{A_{143}^{tSZ}}$	7.08	$5.20^{+2.1}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8783	1.878 ± 0.013	$H(0.57)$	92.996	92.98 ± 0.40
$\boldsymbol{A_{100}^{PS}}$	251.5	257 ± 28	D_{40}	1233.5	1235 ± 15	$D_A(0.57)$	1388.1	1389 ± 12
$\boldsymbol{A_{143}^{PS}}$	39.4	43 ± 8	D_{220}	5719.3	5719 ± 40	$F_{AP}(0.57)$	0.67600	0.6761 ± 0.0032
$\boldsymbol{A_{143\times217}^{PS}}$	34.6	39^{+10}_{-10}	D_{810}	2534.4	2534 ± 14	$f\sigma_8(0.57)$	0.4822	0.4821 ± 0.0091
$\boldsymbol{A_{217}^{PS}}$	98.2	97 ± 10	D_{1420}	815.4	814.8 ± 5.1	$\sigma_8(0.57)$	0.6170	0.617 ± 0.011
$\boldsymbol{A^{kSZ}}$	0.00	< 4.38	D_{2000}	230.73	230.5 ± 1.9	f_{2000}^{143}	29.18	29.7 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.40 ± 1.9	$n_{s,0.002}$	0.9673	0.9669 ± 0.0060	$f_{2000}^{143\times217}$	31.94	32.2 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.04	8.96 ± 1.9	Y_P	0.245359	0.24534 ± 0.00010	f_{2000}^{217}	105.58	105.8 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.57	17.0 ± 4.1	Y_P^{BBN}	0.246685	0.24667 ± 0.00010	χ^2_{lowTEB}	10496.32	10497.3 ± 2.3
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.7 ± 7.4	10^5D/H	2.6060	2.612 ± 0.043	χ^2_{plik}	763.7	777.2 ± 5.8
$\boldsymbol{c_{100}}$	0.99790	0.99789 ± 0.00079	Age/Gyr	13.8010	13.805 ± 0.037	χ^2_{H070p6}	0.828	0.91 ± 0.51
$\boldsymbol{c_{217}}$	0.99588	0.9959 ± 0.0014	z_*	1089.950	1089.99 ± 0.41	χ^2_{prior}	2.01	7.30 ± 3.6
H_0	67.57	67.55 ± 0.92	r_*	144.689	144.72 ± 0.47	χ^2_{CMB}	11260.0	11274.5 ± 5.5
Ω_Λ	0.6886	0.688 ± 0.013	$100\theta_*$	1.041149	1.04112 ± 0.00045			
Ω_m	0.3114	0.312 ± 0.013	D_A/Gpc	13.8970	13.900 ± 0.043			

Best-fit $\chi^2_{eff} = 11262.82$; $\bar{\chi}^2_{eff} = 11282.70$; $R - 1 = 0.01476$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.32 plik_dx11dr2_HM_v18_TT: 763.66 Hubble - H070p6: 0.83

2.5 base_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02223 ± 0.00022	Ω_m	0.315 ± 0.013	$100\theta_*$	1.04106 ± 0.00046
$\boldsymbol{\Omega_c h^2}$	0.1197 ± 0.0021	$\Omega_m h^2$	0.1426 ± 0.0020	D_A/Gpc	13.892 ± 0.044
$\boldsymbol{100\theta_{MC}}$	1.04086 ± 0.00046	$\Omega_m h^3$	0.09598 ± 0.00045	z_{drag}	1059.58 ± 0.46
$\boldsymbol{\tau}$	$0.079^{+0.017}_{-0.020}$	σ_8	$0.830^{+0.013}_{-0.015}$	r_{drag}	147.33 ± 0.48
$\boldsymbol{\ln(10^{10} A_s)}$	$3.091^{+0.031}_{-0.038}$	$\sigma_8 \Omega_m^{0.5}$	0.466 ± 0.013	k_D	0.14050 ± 0.00052
$\boldsymbol{n_s}$	0.9657 ± 0.0061	$\sigma_8 \Omega_m^{0.25}$	0.622 ± 0.013	$100\theta_D$	0.16096 ± 0.00026
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$\sigma_8/h^{0.5}$	1.012 ± 0.018	z_{eq}	3392 ± 48
$\boldsymbol{A_{217}^{CIB}}$	63.9 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.500 ± 0.043	k_{eq}	0.01035 ± 0.00015
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	z_{re}	10.0 ± 1.5	$100\theta_{eq}$	0.8149 ± 0.0091
$\boldsymbol{A_{143}^{tSZ}}$	5.19 ± 1.9	$10^9 A_s$	$2.202^{+0.067}_{-0.085}$	$100\theta_{s,eq}$	0.4503 ± 0.0047
$\boldsymbol{A_{100}^{PS}}$	257 ± 28	$10^9 A_s e^{-2\tau}$	1.880 ± 0.014	$r_{drag}/D_V(0.57)$	0.07142 ± 0.00072
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{40}	1237 ± 15	$H(0.57)$	$92.89^{+0.38}_{-0.44}$
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{220}	5717 ± 40	$D_A(0.57)$	1391 ± 13
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{810}	2534 ± 14	$F_{AP}(0.57)$	0.6768 ± 0.0033
$\boldsymbol{A^{kSZ}}$	< 4.43	D_{1420}	814.5 ± 5.1	$f\sigma_8(0.57)$	0.4834 ± 0.0089
$\boldsymbol{A_{100}^{dustTT}}$	7.42 ± 1.9	D_{2000}	230.3 ± 1.9	$\sigma_8(0.57)$	$0.6168^{+0.0096}_{-0.012}$
$\boldsymbol{A_{143}^{dustTT}}$	8.95 ± 1.9	$n_{s,0.002}$	0.9657 ± 0.0061	f_{2000}^{143}	29.9 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.0 ± 4.2	Y_P	0.24533 ± 0.00010	$f_{2000}^{143\times217}$	32.3 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.4	Y_P^{BBN}	0.24665 ± 0.00010	f_{2000}^{217}	105.9 ± 2.0
$\boldsymbol{c_{100}}$	0.99789 ± 0.00079	10^5D/H	2.619 ± 0.043	χ^2_{lowTEB}	10497.3 ± 2.3
$\boldsymbol{c_{217}}$	0.9959 ± 0.0014	Age/Gyr	13.812 ± 0.037	χ^2_{plik}	777.0 ± 5.6
H_0	67.33 ± 0.94	z_*	1090.08 ± 0.41	χ^2_{prior}	7.29 ± 3.5
Ω_Λ	0.685 ± 0.013	r_*	144.62 ± 0.48	χ^2_{CMB}	11274.4 ± 5.4

$\bar{\chi}^2_{eff} = 11281.64$; $R - 1 = 0.01217$

2.6 base_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022252	0.02225 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.307	0.304 ± 0.085	10^5D/H	2.6136	2.614 ± 0.030
$\boldsymbol{\Omega_c h^2}$	0.11987	0.1198 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	Age/Gyr	13.8133	13.813 ± 0.026
$\boldsymbol{100\theta_{MC}}$	1.040778	1.04077 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.338 ± 0.080	z_*	1090.057	1090.06 ± 0.30
$\boldsymbol{\tau}$	0.0789	0.079 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.667	1.67 ± 0.25	r_*	144.556	144.57 ± 0.32
$\boldsymbol{\ln(10^{10}A_s)}$	3.0929	3.094 ± 0.034	$\boldsymbol{c_{100}}$	0.99818	0.99815 ± 0.00077	$100\theta_*$	1.040967	1.04096 ± 0.00032
$\boldsymbol{n_s}$	0.96475	0.9645 ± 0.0049	$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0014	D_A/Gpc	13.8867	13.888 ± 0.030
$\boldsymbol{y_{cal}}$	1.00029	1.0004 ± 0.0025	H_0	67.25	67.27 ± 0.66	z_{drag}	1059.666	1059.65 ± 0.31
$\boldsymbol{A^{CIB}_{217}}$	66.4	63.8 ± 6.6	Ω_Λ	0.6844	0.6844 ± 0.0091	r_{drag}	147.257	147.27 ± 0.31
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	Ω_m	0.3156	0.3156 ± 0.0091	k_D	0.140600	0.14059 ± 0.00032
$\boldsymbol{A^{tSZ}_{143}}$	7.17	5.38 ± 1.9	$\Omega_m h^2$	0.14276	0.1427 ± 0.0014	$100\theta_D$	0.160904	0.16091 ± 0.00018
$\boldsymbol{A^{PS}_{100}}$	255.0	260 ± 28	$\Omega_m h^3$	0.096013	0.09601 ± 0.00029	z_{eq}	3396.2	3395 ± 33
$\boldsymbol{A^{PS}_{143}}$	40.1	43 ± 8	σ_8	0.8310	0.831 ± 0.013	k_{eq}	0.010365	0.01036 ± 0.00010
$\boldsymbol{A^{PS}_{143\times217}}$	36.4	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4668	0.4668 ± 0.0098	$100\theta_{eq}$	0.8139	0.8141 ± 0.0063
$\boldsymbol{A^{PS}_{217}}$	98.7	98 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6228	0.623 ± 0.011	$100\theta_{s,eq}$	0.44980	0.4499 ± 0.0032
$\boldsymbol{A^{kSZ}}$	0.00	< 4.14	$\sigma_8/h^{0.5}$	1.0133	1.013 ± 0.017	$r_{drag}/D_V(0.57)$	0.071343	0.07136 ± 0.00050
$\boldsymbol{A^{dustTT}_{100}}$	7.34	7.42 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5056	2.507 ± 0.040	$H(0.57)$	92.857	92.87 ± 0.28
$\boldsymbol{A^{dustTT}_{143}}$	8.97	8.93 ± 1.8	z_{re}	10.07	$10.0^{+1.7}_{-1.5}$	$D_A(0.57)$	1392.3	1392.2 ± 8.9
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.56	17.0 ± 4.1	10^9A_s	2.204	2.207 ± 0.074	$F_{AP}(0.57)$	0.67708	0.6770 ± 0.0023
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.6 ± 7.4	$10^9A_se^{-2\tau}$	1.8824	1.882 ± 0.012	$f\sigma_8(0.57)$	0.4842	0.4842 ± 0.0080
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0811 ± 0.0056	D_{40}	1240.0	1242 ± 13	$\sigma_8(0.57)$	0.6171	0.617 ± 0.010
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0488	0.0488 ± 0.0050	D_{220}	5726.4	5729 ± 39	f^{143}_{2000}	29.16	29.5 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0995	0.099 ± 0.033	D_{810}	2535.8	2536 ± 14	$f^{143\times217}_{2000}$	32.13	32.2 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.1001 ± 0.0069	D_{1420}	814.88	814.7 ± 4.8	f^{217}_{2000}	105.74	105.8 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2236	0.225 ± 0.047	D_{2000}	230.48	230.4 ± 1.6	χ^2_{lowTEB}	10496.93	10497.8 ± 2.2
$\boldsymbol{A^{dustEE}_{217}}$	0.645	0.65 ± 0.13	$n_{s,0.002}$	0.96475	0.9645 ± 0.0049	χ^2_{plik}	2431.6	2450.6 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1417	0.141 ± 0.038	Y_P	0.245341	0.245339 ± 0.000072	χ^2_{prior}	6.98	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1321	0.131 ± 0.029	Y_P^{BBN}	0.246667	0.246665 ± 0.000072	χ^2_{CMB}	12928.6	12948.4 ± 6.7

Best-fit $\chi^2_{eff} = 12935.56$; $\bar{\chi}^2_{eff} = 12967.69$; $R - 1 = 0.00875$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.93 plik_dx11dr2_HM_v18_TTTEEE: 2431.65

2.7 base_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022319	0.02229 ± 0.00014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335	0.336 ± 0.080	$100\theta_*$	1.041052	1.04103 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11910	0.1192 ± 0.0011	$\boldsymbol{A^{dustTE}_{217}}$	1.661	1.67 ± 0.26	D_A/Gpc	13.8998	13.898 ± 0.023
$\boldsymbol{100\theta_{MC}}$	1.040867	1.04084 ± 0.00030	$\boldsymbol{c_{100}}$	0.99822	0.99815 ± 0.00078	z_{drag}	1059.742	1059.70 ± 0.30
$\boldsymbol{\tau}$	0.0865	0.082 ± 0.017	$\boldsymbol{c_{217}}$	0.99585	0.9959 ± 0.0015	r_{drag}	147.389	147.38 ± 0.25
$\boldsymbol{\ln(10^{10}A_s)}$	3.1063	3.098 ± 0.033	H_0	67.610	67.54 ± 0.47	k_D	0.140515	0.14051 ± 0.00029
$\boldsymbol{n_s}$	0.96708	0.9660 ± 0.0041	Ω_Λ	0.6892	0.6882 ± 0.0064	$100\theta_D$	0.160849	0.16088 ± 0.00017
$\boldsymbol{y_{cal}}$	1.00020	1.0004 ± 0.0025	Ω_m	0.3108	0.3118 ± 0.0064	z_{eq}	3379.4	3382 ± 24
$\boldsymbol{A^{CIB}_{217}}$	64.5	63.7 ± 6.5	$\Omega_m h^2$	0.14206	0.1422 ± 0.0010	k_{eq}	0.010314	0.010323 ± 0.000073
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.33	—	$\Omega_m h^3$	0.096046	0.09601 ± 0.00030	$100\theta_{eq}$	0.81721	0.8167 ± 0.0045
$\boldsymbol{A^{tSZ}_{143}}$	6.99	$5.42^{+2.1}_{-1.9}$	σ_8	0.8344	0.831 ± 0.013	$100\theta_{s,eq}$	0.45146	0.4512 ± 0.0023
$\boldsymbol{A^{PS}_{100}}$	252.8	259 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4652	0.4642 ± 0.0086	$r_{drag}/D_V(0.57)$	0.071609	0.07156 ± 0.00035
$\boldsymbol{A^{PS}_{143}}$	42.8	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6230	0.621 ± 0.010	$H(0.57)$	93.007	92.97 ± 0.22
$\boldsymbol{A^{PS}_{143\times217}}$	42.1	40 ± 10	$\sigma_8/h^{0.5}$	1.0148	1.012 ± 0.016	$D_A(0.57)$	1387.6	1388.6 ± 6.4
$\boldsymbol{A^{PS}_{217}}$	101.4	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5091	2.503 ± 0.039	$F_{AP}(0.57)$	0.67585	0.6761 ± 0.0016
$\boldsymbol{A^{kSZ}}$	0.00	< 4.05	z_{re}	10.71	$10.3^{+1.6}_{-1.4}$	$f\sigma_8(0.57)$	0.4850	0.4834 ± 0.0079
$\boldsymbol{A^{dustTT}_{100}}$	7.35	7.44 ± 1.9	$10^9 A_s$	2.234	2.217 ± 0.073	$\sigma_8(0.57)$	0.6209	0.618 ± 0.010
$\boldsymbol{A^{dustTT}_{143}}$	8.94	8.93 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8789	1.880 ± 0.011	f^{143}_{2000}	28.51	29.3 ± 2.7
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.69	16.9 ± 4.2	D_{40}	1238.1	1240 ± 13	$f^{143\times217}_{2000}$	31.69	32.0 ± 1.9
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.5 ± 7.5	D_{220}	5728.3	5731 ± 39	f^{217}_{2000}	105.20	105.7 ± 1.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0816	0.0813 ± 0.0056	D_{810}	2535.0	2535 ± 14	χ^2_{lowTEB}	10497.42	10497.7 ± 2.4
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0493	0.0490 ± 0.0050	D_{1420}	815.40	815.0 ± 4.8	χ^2_{plik}	2431.5	2450.3 ± 6.8
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0991	0.0998 ± 0.033	D_{2000}	230.88	230.6 ± 1.6	χ^2_{6DF}	0.0293	0.066 ± 0.076
$\boldsymbol{A^{dustEE}_{143}}$	0.1007	0.1004 ± 0.0069	$n_{s,0.002}$	0.96708	0.9660 ± 0.0041	χ^2_{MGS}	1.217	1.21 ± 0.44
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2228	0.225 ± 0.047	Y_P	0.245370	0.245358 ± 0.000063	$\chi^2_{DR11CMASS}$	2.496	2.86 ± 0.61
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	Y_P^{BBN}	0.246697	0.246685 ± 0.000064	$\chi^2_{DR11LOWZ}$	0.68	0.85 ± 0.55
$\boldsymbol{A^{dustTE}_{100}}$	0.1404	0.141 ± 0.038	10^5D/H	2.6010	2.606 ± 0.026	χ^2_{prior}	6.78	19.5 ± 5.6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1315	0.131 ± 0.029	Age/Gyr	13.8006	13.804 ± 0.021	χ^2_{CMB}	12929.0	12948.0 ± 6.6
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.304 ± 0.085	z_*	1089.904	1089.95 ± 0.23	χ^2_{BAO}	4.42	4.99 ± 0.89
$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.153 ± 0.054	r_*	144.704	144.69 ± 0.24			

Best-fit $\chi^2_{eff} = 12940.16$; $\bar{\chi}^2_{eff} = 12972.47$; $R - 1 = 0.00954$

χ^2_{eff}: BAO - 6DF: 0.03 MGS: 1.22 DR11CMASS: 2.50 DR11LOWZ: 0.68 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.42 plik_dx11dr2_HM_v18_TTTEEE: 2431.54

2.8 base_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022287	0.02227 ± 0.00016	$\boldsymbol{A^{dustTE}_{143}}$	0.160	0.153 ± 0.054	z_*	1090.005	1090.01 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.11976	0.1196 ± 0.0014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.337 ± 0.080	r_*	144.556	144.61 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040768	1.04079 ± 0.00032	$\boldsymbol{A^{dustTE}_{217}}$	1.636	1.67 ± 0.25	$100\theta_*$	1.040959	1.04099 ± 0.00032
$\boldsymbol{\tau}$	0.0829	0.080 ± 0.017	$\boldsymbol{c_{100}}$	0.99829	0.99815 ± 0.00078	D_A/Gpc	13.8868	13.892 ± 0.029
$\boldsymbol{\ln(10^{10}A_s)}$	3.1012	3.095 ± 0.033	$\boldsymbol{c_{217}}$	0.99608	0.9959 ± 0.0015	z_{drag}	1059.742	1059.67 ± 0.31
$\boldsymbol{n_s}$	0.96524	0.9651 ± 0.0048	H_0	67.32	67.37 ± 0.64	r_{drag}	147.245	147.31 ± 0.30
$\boldsymbol{y_{cal}}$	1.00056	1.0004 ± 0.0025	Ω_Λ	0.6851	0.6859 ± 0.0088	k_D	0.140640	0.14056 ± 0.00032
$\boldsymbol{A^{CIB}_{217}}$	64.6	63.8 ± 6.6	Ω_m	0.3149	0.3141 ± 0.0088	$100\theta_D$	0.160857	0.16089 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.23	—	$\Omega_m h^2$	0.14270	0.1425 ± 0.0013	z_{eq}	3394.6	3390 ± 32
$\boldsymbol{A^{tSZ}_{143}}$	7.52	$5.40^{+2.1}_{-1.9}$	$\Omega_m h^3$	0.096058	0.09601 ± 0.00029	k_{eq}	0.010361	0.010348 ± 0.000097
$\boldsymbol{A^{PS}_{100}}$	251.8	259 ± 28	σ_8	0.8341	0.831 ± 0.013	$100\theta_{eq}$	0.8143	0.8151 ± 0.0060
$\boldsymbol{A^{PS}_{143}}$	40.6	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4680	0.4658 ± 0.0096	$100\theta_{s,eq}$	0.44997	0.4504 ± 0.0031
$\boldsymbol{A^{PS}_{143\times217}}$	39.5	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6248	0.622 ± 0.011	$r_{drag}/D_V(0.57)$	0.071378	0.07143 ± 0.00048
$\boldsymbol{A^{PS}_{217}}$	101.1	98 ± 10	$\sigma_8/h^{0.5}$	1.0166	1.013 ± 0.017	$H(0.57)$	92.892	92.91 ± 0.28
$\boldsymbol{A^{kSZ}}$	0.01	< 4.10	$\langle d^2\rangle^{1/2}$	2.5137	2.505 ± 0.040	$D_A(0.57)$	1391.4	1390.8 ± 8.5
$\boldsymbol{A^{dustTT}_{100}}$	7.54	7.43 ± 1.9	z_{re}	10.41	$10.1^{+1.7}_{-1.5}$	$F_{AP}(0.57)$	0.67689	0.6767 ± 0.0022
$\boldsymbol{A^{dustTT}_{143}}$	8.97	8.93 ± 1.8	$10^9 A_s$	2.222	2.211 ± 0.074	$f\sigma_8(0.57)$	0.4858	0.4839 ± 0.0079
$\boldsymbol{A^{dustTT}_{143\times217}}$	18.49	16.9 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8830	1.881 ± 0.012	$\sigma_8(0.57)$	0.6196	0.618 ± 0.010
$\boldsymbol{A^{dustTT}_{217}}$	83.8	81.5 ± 7.5	D_{40}	1241.6	1241 ± 13	f^{143}_{2000}	28.82	29.4 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0812 ± 0.0056	D_{220}	5731.6	5730 ± 39	$f^{143\times217}_{2000}$	32.03	32.1 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0490	0.0488 ± 0.0050	D_{810}	2537.1	2535 ± 14	f^{217}_{2000}	105.73	105.8 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0972	0.099 ± 0.033	D_{1420}	815.55	814.8 ± 4.8	χ^2_{lowTEB}	10497.36	10497.8 ± 2.3
$\boldsymbol{A^{dustEE}_{143}}$	0.1003	0.1002 ± 0.0069	D_{2000}	230.83	230.5 ± 1.6	χ^2_{plik}	2431.6	2450.5 ± 6.8
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2253	0.225 ± 0.047	$n_{s,0.002}$	0.96524	0.9651 ± 0.0048	χ^2_{JLA}	706.857	706.89 ± 0.31
$\boldsymbol{A^{dustEE}_{217}}$	0.681	0.65 ± 0.13	Y_P	0.245356	0.245347 ± 0.000071	χ^2_{prior}	6.57	19.4 ± 5.6
$\boldsymbol{A^{dustTE}_{100}}$	0.1407	0.141 ± 0.038	Y_P^{BBN}	0.246683	0.246673 ± 0.000071	χ^2_{CMB}	12929.0	12948.3 ± 6.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1299	0.131 ± 0.029	10^5D/H	2.6070	2.610 ± 0.029			
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.304 ± 0.085	Age/Gyr	13.8095	13.810 ± 0.026			

Best-fit $\chi^2_{eff} = 13642.40$; $\bar{\chi}^2_{eff} = 13674.63$; $R - 1 = 0.00946$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.36 plik_dx11dr2_HM_v18_TTTEEE: 2431.61 SN - JLA December_2013: 706.86

2.9 base_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022289	0.02228 ± 0.00016	$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.154	0.153 ± 0.054	z_*	1089.976	1090.00 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.11945	0.1196 ± 0.0014	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.337	0.336 ± 0.080	r_*	144.636	144.62 ± 0.31
$\boldsymbol{100\theta_{\mathrm{MC}}}$	1.040816	1.04080 ± 0.00032	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.666	1.67 ± 0.25	$100\theta_*$	1.041001	1.04100 ± 0.00032
$\boldsymbol{\tau}$	0.0821	0.081 ± 0.017	$\boldsymbol{c_{100}}$	0.99821	0.99815 ± 0.00077	$D_{\mathrm{A}}/\mathrm{Gpc}$	13.8939	13.892 ± 0.029
$\boldsymbol{\ln(10^{10}A_s)}$	3.0983	3.096 ± 0.034	$\boldsymbol{c_{217}}$	0.99586	0.9959 ± 0.0015	z_{drag}	1059.704	1059.68 ± 0.31
$\boldsymbol{n_s}$	0.96608	0.9652 ± 0.0049	H_0	67.44	67.39 ± 0.65	r_{drag}	147.328	147.31 ± 0.31
$\boldsymbol{y_{\mathrm{cal}}}$	1.00033	1.0004 ± 0.0025	Ω_Λ	0.6870	0.6861 ± 0.0089	k_{D}	0.140557	0.14056 ± 0.00032
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	65.1	63.8 ± 6.6	Ω_{m}	0.3130	0.3139 ± 0.0089	$100\theta_{\mathrm{D}}$	0.160870	0.16089 ± 0.00018
$\boldsymbol{\xi^{\mathrm{tSZ\times CIB}}}$	0.25	—	$\Omega_{\mathrm{m}}h^2$	0.14238	0.1425 ± 0.0014	z_{eq}	3387.1	3390 ± 32
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	7.12	$5.40^{+2.1}_{-1.9}$	$\Omega_{\mathrm{m}}h^3$	0.096028	0.09602 ± 0.00030	k_{eq}	0.010338	0.010345 ± 0.000099
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	253.2	259 ± 28	σ_8	0.8321	0.831 ± 0.013	$100\theta_{\mathrm{eq}}$	0.8157	0.8153 ± 0.0061
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	41.6	43 ± 8	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4655	0.4656 ± 0.0097	$100\theta_{\mathrm{s,eq}}$	0.45069	0.4505 ± 0.0031
$\boldsymbol{A^{PS}_{143\times217}}$	39.9	40 ± 10	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6224	0.622 ± 0.011	$r_{\mathrm{drag}}/D_{\mathrm{V}}(0.57)$	0.071485	0.07145 ± 0.00049
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	100.7	98 ± 10	$\sigma_8/h^{0.5}$	1.0132	1.013 ± 0.017	$H(0.57)$	92.936	92.92 ± 0.28
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.09	$\langle d^2\rangle^{1/2}$	2.5051	2.505 ± 0.040	$D_{\mathrm{A}}(0.57)$	1389.8	1390.5 ± 8.7
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.39	7.43 ± 1.9	z_{re}	10.33	$10.2^{+1.7}_{-1.5}$	$F_{\mathrm{AP}}(0.57)$	0.67642	0.6766 ± 0.0023
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	8.99	8.93 ± 1.8	10^9A_{s}	2.216	2.212 ± 0.074	$f\sigma_8(0.57)$	0.4842	0.4839 ± 0.0080
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.64	16.9 ± 4.2	$10^9A_{\mathrm{s}}e^{-2\tau}$	1.8806	1.881 ± 0.012	$\sigma_8(0.57)$	0.6186	0.618 ± 0.010
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	82.0	81.5 ± 7.5	D_{40}	1238.4	1241 ± 13	f^{143}_{2000}	28.78	29.4 ± 2.7
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0815	0.0812 ± 0.0056	D_{220}	5727.6	5730 ± 39	$f^{143\times217}_{2000}$	31.90	32.1 ± 1.9
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0490	0.0489 ± 0.0050	D_{810}	2535.7	2535 ± 14	f^{217}_{2000}	105.51	105.7 ± 1.9
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.1003	0.099 ± 0.033	D_{1420}	815.32	814.9 ± 4.8	χ^2_{lowTEB}	10497.00	10497.8 ± 2.3
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1002	0.1002 ± 0.0069	D_{2000}	230.73	230.5 ± 1.6	χ^2_{plik}	2431.8	2450.6 ± 6.8
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2234	0.225 ± 0.047	$n_{\mathrm{s},0.002}$	0.96608	0.9652 ± 0.0049	χ^2_{H070p6}	0.898	0.96 ± 0.37
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.655	0.65 ± 0.13	Y_{P}	0.245357	0.245349 ± 0.000071	χ^2_{prior}	6.81	19.4 ± 5.6
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1401	0.141 ± 0.038	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246684	0.246676 ± 0.000071	χ^2_{CMB}	12928.8	12948.4 ± 6.7
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1309	0.131 ± 0.029	$10^5\mathrm{D/H}$	2.6066	2.609 ± 0.030			
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.304	0.304 ± 0.085	Age/Gyr	13.8066	13.809 ± 0.026			

Best-fit $\chi^2_{\mathrm{eff}} = 12936.48$; $\bar{\chi}^2_{\mathrm{eff}} = 12968.75$; $R - 1 = 0.00925$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.00 plik_dx11dr2_HM_v18_TTTEEE: 2431.77 Hubble - H070p6: 0.90

2.10 base_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.02225 ± 0.00016	$\boldsymbol{A^{\rm dust}_{100\times217}}$	0.303 ± 0.085	10^5D/H	2.613 ± 0.030
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1198 ± 0.0015	$\boldsymbol{A^{\rm dust}_{143}}$	0.154 ± 0.054	Age/Gyr	13.813 ± 0.026
$\boldsymbol{100\theta_{\rm MC}}$	1.04077 ± 0.00032	$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.337 ± 0.080	z_*	1090.05 ± 0.30
$\boldsymbol{\tau}$	0.080 ± 0.017	$\boldsymbol{A^{\rm dust}_{217}}$	1.67 ± 0.25	r_*	144.57 ± 0.32
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.095 ± 0.032	$\boldsymbol{c_{100}}$	0.99815 ± 0.00077	$100\theta_*$	1.04097 ± 0.00032
$\boldsymbol{n_{\rm s}}$	0.9646 ± 0.0049	$\boldsymbol{c_{217}}$	0.9959 ± 0.0015	$D_{\rm A}$/Gpc	13.888 ± 0.029
$\boldsymbol{y_{\rm cal}}$	1.0004 ± 0.0025	H_0	67.28 ± 0.65	$z_{\rm drag}$	1059.65 ± 0.31
$\boldsymbol{A^{\rm CIB}_{217}}$	63.8 ± 6.6	Ω_Λ	0.6846 ± 0.0091	$r_{\rm drag}$	147.27 ± 0.31
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	$\Omega_{\rm m}$	0.3154 ± 0.0091	$k_{\rm D}$	0.14059 ± 0.00032
$\boldsymbol{A^{\rm tSZ}_{143}}$	$5.39^{+2.1}_{-1.9}$	$\Omega_{\rm m}h^2$	0.1427 ± 0.0014	$100\theta_{\rm D}$	0.16090 ± 0.00018
$\boldsymbol{A^{\rm PS}_{100}}$	259 ± 28	$\Omega_{\rm m}h^3$	0.09601 ± 0.00029	$z_{\rm eq}$	3395 ± 33
$\boldsymbol{A^{\rm PS}_{143}}$	43 ± 8	σ_8	$0.832^{+0.013}_{-0.014}$	$k_{\rm eq}$	0.01036 ± 0.00010
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4670 ± 0.0097	$100\theta_{\rm eq}$	0.8142 ± 0.0062
$\boldsymbol{A^{\rm PS}_{217}}$	98 ± 10	$\sigma_8\Omega_{\rm m}^{0.25}$	0.623 ± 0.010	$100\theta_{\rm s,eq}$	0.4500 ± 0.0032
$\boldsymbol{A^{\rm kSZ}}$	< 4.12	$\sigma_8/h^{0.5}$	1.014 ± 0.016	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07137 ± 0.00049
$\boldsymbol{A^{\rm dust}_{100}}^{TT}$	7.43 ± 1.9	$\langle d^2\rangle^{1/2}$	2.508 ± 0.039	$H(0.57)$	92.87 ± 0.28
$\boldsymbol{A^{\rm dust}_{143}}^{TT}$	8.93 ± 1.8	$z_{\rm re}$	10.1 ± 1.5	$D_{\rm A}(0.57)$	1392.0 ± 8.8
$\boldsymbol{A^{\rm dust}_{143\times217}}^{TT}$	17.0 ± 4.2	$10^9A_{\rm s}$	$2.210^{+0.069}_{-0.079}$	$F_{\rm AP}(0.57)$	0.6770 ± 0.0023
$\boldsymbol{A^{\rm dust}_{217}}^{TT}$	81.5 ± 7.5	$10^9A_{\rm s}e^{-2\tau}$	1.882 ± 0.012	$f\sigma_8(0.57)$	0.4844 ± 0.0077
$\boldsymbol{A^{\rm dust}_{100}}^{EE}$	0.0812 ± 0.0056	D_{40}	1242 ± 13	$\sigma_8(0.57)$	0.6177 ± 0.0098
$\boldsymbol{A^{\rm dust}_{100\times143}}^{EE}$	0.0488 ± 0.0050	D_{220}	5729 ± 39	f^{143}_{2000}	29.5 ± 2.7
$\boldsymbol{A^{\rm dust}_{100\times217}}^{EE}$	0.099 ± 0.033	D_{810}	2536 ± 14	$f^{143\times217}_{2000}$	32.2 ± 1.9
$\boldsymbol{A^{\rm dust}_{143}}^{EE}$	0.1001 ± 0.0069	D_{1420}	814.7 ± 4.8	f^{217}_{2000}	105.8 ± 1.9
$\boldsymbol{A^{\rm dust}_{143\times217}}^{EE}$	0.225 ± 0.047	D_{2000}	230.4 ± 1.6	$\chi^2_{\rm lowTEB}$	10497.8 ± 2.3
$\boldsymbol{A^{\rm dust}_{217}}^{EE}$	0.65 ± 0.13	$n_{\rm s,0.002}$	0.9646 ± 0.0049	$\chi^2_{\rm plik}$	2450.5 ± 6.8
$\boldsymbol{A^{\rm dust}_{100}}^{TE}$	0.141 ± 0.038	$Y_{\rm P}$	0.245340 ± 0.000072	$\chi^2_{\rm prior}$	19.4 ± 5.6
$\boldsymbol{A^{\rm dust}_{100\times143}}^{TE}$	0.131 ± 0.029	$Y_{\rm P}^{\rm BBN}$	0.246666 ± 0.000072	$\chi^2_{\rm CMB}$	12948.3 ± 6.7

$\bar{\chi}^2_{\rm eff} = 12967.68$; $R - 1 = 0.00977$

2.11 base_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022210	0.02225 ± 0.00023 $(+0.1\sigma)$	H_0	67.36	67.48 ± 0.98 $(+0.2\sigma)$	$100\theta_*$	1.041118	1.04115 ± 0.00047 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11959	0.1194 ± 0.0022 (-0.2σ)	Ω_Λ	0.6861	0.687 ± 0.013 $(+0.2\sigma)$	$z_{\rm drag}$	1059.513	1059.60 ± 0.47 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040899	1.04094 ± 0.00048 $(+0.2\sigma)$	$\Omega_{\rm m}$	0.3139	0.313 ± 0.013 (-0.2σ)	$r_{\rm drag}$	147.380	147.39 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0766	0.079 ± 0.019 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14245	0.1423 ± 0.0020 (-0.2σ)	$k_{\rm D}$	0.14046	0.14047 ± 0.00051 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0845	3.089 ± 0.037 (-0.0σ)	$\Omega_{\rm m}h^3$	0.095953	0.09600 ± 0.00046 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.160973	0.16094 ± 0.00027 (-0.1σ)
$\boldsymbol{n_s}$	0.9670	0.9682 ± 0.0062 $(+0.4\sigma)$	σ_8	0.8276	0.829 ± 0.015 (-0.0σ)	$z_{\rm eq}$	3388.6	3385 ± 49 (-0.2σ)
$\boldsymbol{y_{cal}}$	1.00027	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4637	0.464 ± 0.013 (-0.2σ)	$100\theta_{\rm eq}$	0.8153	0.8162 ± 0.0093 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248.1	245 ± 23 (-0.4σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6195	0.620 ± 0.013 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07146	0.07154 ± 0.00074 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.6	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0084	1.009 ± 0.020 (-0.1σ)	$H(0.57)$	92.886	92.95 ± 0.43 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	96.2	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.4873	2.489 ± 0.046 (-0.2σ)	$D_{\rm A}(0.57)$	1391.0	1389 ± 13 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	47.6	46 ± 7 (-2.7σ)	$z_{\rm re}$	9.86	$9.99^{+1.9}_{-1.6}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.67665	0.6763 ± 0.0034 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.42	$3.24^{+1.4}_{-2.6}$ (-1.0σ)	$10^9A_{\rm s}$	2.186	2.197 ± 0.081 (-0.0σ)	$f\sigma_8(0.57)$	0.4818	0.4822 ± 0.0094 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.424	$0.52^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8750	1.875 ± 0.014 (-0.4σ)	$\sigma_8(0.57)$	0.6151	0.617 ± 0.011 $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.002	< 0.604 (-0.2σ)	D_{40}	1228.8	1229 ± 15 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246232	0.24625 ± 0.00010 (-3.9σ)
$\boldsymbol{A^{kSZ}}$	4.89	$5.24^{+3.6}_{-2.5}$ $(+0.7\sigma)$	D_{220}	5695.0	5697 ± 41 (-0.5σ)	f_{2000}^{143}	29.37	28.6 ± 2.9 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.989	0.99 ± 0.19	D_{810}	2529.3	2530 ± 14 (-0.3σ)	f_{2000}^{217}	106.74	106.3 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.043	1.02 ± 0.18	D_{1420}	813.7	814.6 ± 5.1 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	31.94	31.5 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.213	1.22 ± 0.12	$n_{\rm s,0.002}$	0.9670	0.9682 ± 0.0062 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10495.77	10496.7 ± 2.3 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.962	0.98 ± 0.18	$Y_{\rm P}$	0.244904	0.244922 ± 0.000099 (-3.9σ)	$\chi^2_{\rm CamSpec}$	8045.1	8059.7 ± 5.9
$\boldsymbol{c_{100}}$	0.99665	0.99678 ± 0.00097 (-1.4σ)	Age/Gyr	13.8123	13.806 ± 0.039 (-0.2σ)	$\chi^2_{\rm prior}$	3.54	8.46 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99729	0.9972 ± 0.0018 $(+0.9\sigma)$	z_*	1090.069	1090.01 ± 0.43 (-0.2σ)	$\chi^2_{\rm CMB}$	18540.9	18556.4 ± 5.8 $(+1322.7\sigma)$
$\boldsymbol{\beta_1^1}$	-0.02	0.0 ± 1.0	r_*	144.661	144.68 ± 0.48 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18544.46$; $\Delta\chi^2_{\rm eff} = 7282.53$; $\bar{\chi}^2_{\rm eff} = 18564.84$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.02$; $R - 1 = 0.00503$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.77 (Δ -0.70) CamSpec like_v9.10CMH_unified: 8045.15

2.12 base_CamSpecHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022255	0.02228 ± 0.00020 $(+0.1\sigma)$	Ω_m	0.3093	0.3095 ± 0.0076 (-0.1σ)	$100\theta_D$	0.160951	0.16092 ± 0.00026 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.11883	0.1189 ± 0.0013 (-0.1σ)	$\Omega_m h^2$	0.14173	0.1418 ± 0.0012 (-0.1σ)	z_{eq}	3371.5	3374 ± 29 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.040996	1.04101 ± 0.00042 $(+0.1\sigma)$	$\Omega_m h^3$	0.095948	0.09601 ± 0.00046 $(+0.1\sigma)$	$100\theta_{eq}$	0.8186	0.8183 ± 0.0055 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0797	0.080 ± 0.018 $(+0.0\sigma)$	σ_8	0.8274	0.828 ± 0.015 (-0.0σ)	$r_{drag}/D_V(0.57)$	0.071717	0.07170 ± 0.00043 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0892	3.091 ± 0.036 (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.4601	0.461 ± 0.010 (-0.1σ)	$H(0.57)$	93.020	93.04 ± 0.27 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.96861	0.9693 ± 0.0045 $(+0.5\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6170	0.618 ± 0.012 (-0.1σ)	$D_A(0.57)$	1386.6	1386.5 ± 7.7 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00043	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	1.0056	1.007 ± 0.018 (-0.1σ)	$F_{AP}(0.57)$	0.67546	0.6755 ± 0.0019 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	249.1	245 ± 23 (-0.4σ)	$\langle d^2 \rangle^{1/2}$	2.4818	2.483 ± 0.044 (-0.2σ)	$f\sigma_8(0.57)$	0.4805	0.4812 ± 0.0089 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	35.0	38 ± 8 (-0.6σ)	z_{re}	10.12	$10.1^{+1.8}_{-1.5}$ (-0.0σ)	$\sigma_8(0.57)$	0.6161	0.617 ± 0.011 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	95.6	98 ± 10 $(+0.1\sigma)$	$10^9 A_s$	2.196	2.201 ± 0.079 (-0.1σ)	Y_P^{BBN}	0.246252	0.246263 ± 0.000087 (-4.5σ)
$\boldsymbol{A_{217}^{CIB}}$	47.4	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.8722	1.873 ± 0.012 (-0.4σ)	f_{2000}^{143}	29.27	28.5 ± 2.8 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.13	$3.26^{+1.4}_{-2.6}$ (-1.0σ)	D_{40}	1226.9	1227 ± 13 (-0.6σ)	f_{2000}^{217}	106.79	106.1 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.411	$0.52^{+0.11}_{-0.12}$	D_{220}	5700.4	5699 ± 40 (-0.5σ)	$f_{2000}^{143\times217}$	31.84	31.4 ± 2.1 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.006	< 0.601 (-0.2σ)	D_{810}	2529.0	2530 ± 14 (-0.2σ)	χ^2_{lowTEB}	10495.74	10496.5 ± 2.3 (-0.3σ)
$\boldsymbol{A^{kSZ}}$	5.43	$5.20^{+3.7}_{-2.5}$ $(+0.7\sigma)$	D_{1420}	814.04	814.8 ± 5.0 $(+0.0\sigma)$	$\chi^2_{CamSpec}$	8045.2	8059.3 ± 5.9
$\boldsymbol{A_{100}^{dust}}$	1.001	0.99 ± 0.19	$n_{s,0.002}$	0.96861	0.9693 ± 0.0045 $(+0.5\sigma)$	χ^2_{6DF}	0.0154	0.057 ± 0.076 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.032	1.02 ± 0.19	Y_P	0.244922	$0.244936^{+0.000078}_{-0.000091}$ (-4.5σ)	χ^2_{MGS}	1.34	1.40 ± 0.55 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.219	1.22 ± 0.12	Age/Gyr	13.8017	13.799 ± 0.029 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.416	2.87 ± 0.67 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.950	0.98 ± 0.18	z_*	1089.945	1089.92 ± 0.30 (-0.2σ)	$\chi^2_{DR11LOWZ}$	0.541	0.70 ± 0.58 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99668	0.99680 ± 0.00097 (-1.4σ)	r_*	144.824	144.79 ± 0.32 $(+0.1\sigma)$	χ^2_{prior}	3.64	8.48 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99743	0.9972 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.041210	1.04121 ± 0.00041 $(+0.2\sigma)$	χ^2_{CMB}	18540.9	18555.8 ± 5.7 $(+1340.5\sigma)$
$\boldsymbol{\beta_1^1}$	-0.02	-0.1 ± 1.0	z_{drag}	1059.551	1059.63 ± 0.44 $(+0.0\sigma)$	χ^2_{BAO}	4.315	5.02 ± 0.98 (-0.0σ)
H_0	67.70	67.70 ± 0.57 $(+0.1\sigma)$	r_{drag}	147.533	147.48 ± 0.34 $(+0.0\sigma)$			
Ω_Λ	0.6907	0.6905 ± 0.0076 $(+0.1\sigma)$	k_D	0.140332	0.14040 ± 0.00044 $(+0.0\sigma)$			

Best-fit $\chi^2_{eff} = 18548.90$; $\Delta\chi^2_{eff} = 7282.46$; $\bar{\chi}^2_{eff} = 18569.34$; $\Delta\bar{\chi}^2_{eff} = 7282.97$; $R - 1 = 0.01241$

χ^2_{eff}: BAO - 6DF: 0.01 (Δ -0.01) MGS: 1.34 (Δ 0.06) DR11CMASS: 2.42 (Δ -0.04) DR11LOWZ: 0.54 (Δ -0.07) CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.74 (Δ -0.68) CamSpec like_v9.10CMH_unified: 8045.20

2.13 base_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228 ± 0.00023 $(+0.1\sigma)$	H_0	67.66 ± 0.92 $(+0.2\sigma)$	$100\theta_*$	1.04120 ± 0.00046 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1190 ± 0.0020 (-0.2σ)	Ω_Λ	0.690 ± 0.012 $(+0.2\sigma)$	$z_{\rm drag}$	1059.63 ± 0.46 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04099 ± 0.00047 $(+0.2\sigma)$	$\Omega_{\rm m}$	0.310 ± 0.012 (-0.2σ)	$r_{\rm drag}$	147.46 ± 0.45 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.080 ± 0.019 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.1419 ± 0.0019 (-0.2σ)	$k_{\rm D}$	0.14042 ± 0.00050 (-0.0σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.091 ± 0.037 (-0.0σ)	$\Omega_{\rm m}h^3$	0.09601 ± 0.00046 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.16092 ± 0.00026 (-0.1σ)
$\boldsymbol{n_s}$	0.9691 ± 0.0060 $(+0.4\sigma)$	σ_8	0.829 ± 0.015 (-0.0σ)	$z_{\rm eq}$	3376 ± 46 (-0.2σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.462 ± 0.013 (-0.1σ)	$100\theta_{\rm eq}$	0.8179 ± 0.0087 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	245 ± 23 (-0.4σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.618 ± 0.013 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07167 ± 0.00069 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.008 ± 0.019 (-0.1σ)	$H(0.57)$	93.03 ± 0.40 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.485 ± 0.046 (-0.2σ)	$D_{\rm A}(0.57)$	1387 ± 12 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$z_{\rm re}$	$10.1^{+1.9}_{-1.6}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6757 ± 0.0032 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.25^{+1.4}_{-2.6}$ (-1.0σ)	$10^9A_{\rm s}$	2.202 ± 0.081 (-0.0σ)	$f\sigma_8(0.57)$	0.4814 ± 0.0094 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.873 ± 0.014 (-0.4σ)	$\sigma_8(0.57)$	0.617 ± 0.011 $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.604 (-0.2σ)	D_{40}	1227 ± 15 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246261 ± 0.000098 (-4.0σ)
$\boldsymbol{A^{kSZ}}$	$5.23^{+3.8}_{-2.4}$ $(+0.7\sigma)$	D_{220}	5699 ± 41 (-0.5σ)	f_{2000}^{143}	28.5 ± 2.9 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	2530 ± 14 (-0.3σ)	f_{2000}^{217}	106.2 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.19	D_{1420}	814.8 ± 5.1 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	31.4 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$n_{\rm s,0.002}$	0.9691 ± 0.0060 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10496.6 ± 2.3 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244934^{+0.000091}_{-0.00010}$ (-4.0σ)	$\chi^2_{\rm CamSpec}$	8059.7 ± 6.0
$\boldsymbol{c_{100}}$	0.99679 ± 0.00097 (-1.4σ)	Age/Gyr	13.800 ± 0.038 (-0.2σ)	$\chi^2_{\rm JLA}$	706.84 ± 0.39 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	z_*	1089.94 ± 0.41 (-0.2σ)	$\chi^2_{\rm prior}$	8.49 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	144.76 ± 0.46 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18556.4 ± 5.8 $(+1323.6\sigma)$

$\bar{\chi}^2_{\rm eff} = 19271.70$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.10$; $R - 1 = 0.00909$

2.14 base_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02229 \pm 0.00023 \quad (+0.1\sigma)$	H_0	$67.73 \pm 0.95 \quad (+0.2\sigma)$	$100\theta_*$	$1.04122 \pm 0.00047 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0021 \quad (-0.2\sigma)$	Ω_Λ	$0.691 \pm 0.013 \quad (+0.2\sigma)$	$z_{\rm drag}$	$1059.66 \pm 0.47 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04102 \pm 0.00047 \quad (+0.2\sigma)$	$\Omega_{\rm m}$	$0.309 \pm 0.013 \quad (-0.2\sigma)$	$r_{\rm drag}$	$147.48 \pm 0.47 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.081 \pm 0.019 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1418 \pm 0.0020 \quad (-0.2\sigma)$	$k_{\rm D}$	$0.14041 \pm 0.00050 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.092 \pm 0.037 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.09602 \pm 0.00046 \quad (+0.1\sigma)$	$100\theta_{\rm D}$	$0.16091 \pm 0.00026 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9695 \pm 0.0061 \quad (+0.4\sigma)$	σ_8	$0.829 \pm 0.015 \quad (-0.0\sigma)$	$z_{\rm eq}$	$3373 \pm 47 \quad (-0.2\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.461 \pm 0.013 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8185 \pm 0.0090 \quad (+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 23 \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.618 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07172 \pm 0.00072 \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.007 \pm 0.020 \quad (-0.1\sigma)$	$H(0.57)$	$93.06 \pm 0.42 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.484 \pm 0.046 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1386 \pm 13 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$z_{\rm re}$	$10.2^{+1.9}_{-1.6} \quad (+0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6755 \pm 0.0033 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.27^{+1.4}_{-2.6} \quad (-1.0\sigma)$	$10^9 A_{\rm s}$	$2.204 \pm 0.082 \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.4812 \pm 0.0094 \quad (-0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	$1.873 \pm 0.014 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.617 \pm 0.011 \quad (+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.605 \quad (-0.2\sigma)$	D_{40}	$1227 \pm 15 \quad (-0.6\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246267 \pm 0.000099 \quad (-3.9\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.22^{+3.7}_{-2.4} \quad (+0.7\sigma)$	D_{220}	$5700 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{143}	$28.4 \pm 2.9 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	$2530 \pm 14 \quad (-0.3\sigma)$	f_{2000}^{217}	$106.1 \pm 2.1 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.19	D_{1420}	$814.9 \pm 5.1 \quad (+0.0\sigma)$	$f_{2000}^{143\times217}$	$31.4 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$n_{\rm s,0.002}$	$0.9695 \pm 0.0061 \quad (+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.7 \pm 2.4 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244940^{+0.000092}_{-0.00011} \quad (-4.0\sigma)$	$\chi^2_{\rm CamSpec}$	8059.8 ± 6.0
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00097 \quad (-1.4\sigma)$	Age/Gyr	$13.798 \pm 0.038 \quad (-0.2\sigma)$	$\chi^2_{\rm H070p6}$	$0.82 \pm 0.49 \quad (-0.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.9\sigma)$	z_*	$1089.91 \pm 0.42 \quad (-0.2\sigma)$	$\chi^2_{\rm prior}$	$8.49 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	$144.79 \pm 0.47 \quad (+0.2\sigma)$	$\chi^2_{\rm CMB}$	$18556.5 \pm 5.8 \quad (+1317.9\sigma)$

$\bar{\chi}^2_{\rm eff} = 18565.79$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.10$; $R - 1 = 0.00963$

2.15 base_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225 ± 0.00023 $(+0.1\sigma)$	H_0	67.50 ± 0.97 $(+0.2\sigma)$	$100\theta_*$	1.04115 ± 0.00047 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1194 ± 0.0022 (-0.2σ)	Ω_Λ	0.688 ± 0.013 $(+0.2\sigma)$	$z_{\rm drag}$	1059.60 ± 0.47 $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04095 ± 0.00048 $(+0.2\sigma)$	$\Omega_{\rm m}$	0.312 ± 0.013 (-0.2σ)	$r_{\rm drag}$	147.40 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.080^{+0.017}_{-0.020}$ $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.1422 ± 0.0020 (-0.2σ)	$k_{\rm D}$	0.14047 ± 0.00051 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.091^{+0.034}_{-0.039}$ (-0.0σ)	$\Omega_{\rm m} h^3$	0.09601 ± 0.00046 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.16093 ± 0.00027 (-0.1σ)
$\boldsymbol{n_s}$	0.9683 ± 0.0062 $(+0.4\sigma)$	σ_8	0.830 ± 0.014 (-0.0σ)	$z_{\rm eq}$	3384 ± 49 (-0.2σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.464 ± 0.013 (-0.1σ)	$100\theta_{\rm eq}$	0.8164 ± 0.0093 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	245 ± 23 (-0.4σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.620 ± 0.013 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07155 ± 0.00074 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.010 ± 0.019 (-0.1σ)	$H(0.57)$	92.96 ± 0.42 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.490 ± 0.045 (-0.2σ)	$D_{\rm A}(0.57)$	1389 ± 13 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$z_{\rm re}$	10.1 ± 1.6 $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6762 ± 0.0034 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.24^{+1.4}_{-2.6}$ (-1.0σ)	$10^9 A_{\rm s}$	$2.202^{+0.071}_{-0.087}$ (-0.0σ)	$f\sigma_8(0.57)$	0.4826 ± 0.0092 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	1.875 ± 0.014 (-0.4σ)	$\sigma_8(0.57)$	$0.617^{+0.010}_{-0.012}$ $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.604 (-0.2σ)	D_{40}	1229 ± 15 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.24625 ± 0.00010 (-3.9σ)
$\boldsymbol{A^{kSZ}}$	$5.25^{+3.8}_{-2.3}$ $(+0.7\sigma)$	D_{220}	5697 ± 41 (-0.5σ)	f_{2000}^{143}	28.6 ± 2.9 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	2530 ± 14 (-0.3σ)	f_{2000}^{217}	106.2 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.19	D_{1420}	814.6 ± 5.1 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	31.5 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$n_{\rm s,0.002}$	0.9683 ± 0.0062 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10496.7 ± 2.3 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244924^{+0.000092}_{-0.00011}$ (-4.0σ)	$\chi^2_{\rm CamSpec}$	8059.6 ± 5.9
$\boldsymbol{c_{100}}$	0.99679 ± 0.00097 (-1.4σ)	Age/Gyr	13.805 ± 0.039 (-0.2σ)	$\chi^2_{\rm prior}$	8.49 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	z_*	1090.00 ± 0.43 (-0.2σ)	$\chi^2_{\rm CMB}$	18556.3 ± 5.7 $(+1336.8\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	144.69 ± 0.48 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18564.78$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.14$; $R - 1 = 0.00792$

2.16 base_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022346	0.02236 ± 0.00016 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	0.06	-0.08 ± 0.99	$100\theta_*$	1.041022	1.04104 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11915	0.1191 ± 0.0014 (-0.5σ)	H_0	67.60	67.65 ± 0.63 $(+0.6\sigma)$	$z_{\rm drag}$	1059.818	1059.84 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040828	1.04084 ± 0.00031 $(+0.2\sigma)$	Ω_Λ	0.6890	0.6893 ± 0.0086 $(+0.5\sigma)$	$r_{\rm drag}$	147.343	147.34 ± 0.31 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0779	0.078 ± 0.017 (-0.1σ)	$\Omega_{\rm m}$	0.3110	0.3107 ± 0.0086 (-0.5σ)	$k_{\rm D}$	0.140599	0.14061 ± 0.00034 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0854	3.086 ± 0.034 (-0.2σ)	$\Omega_{\rm m}h^2$	0.14214	0.1421 ± 0.0013 (-0.5σ)	$100\theta_{\rm D}$	0.160785	0.16077 ± 0.00019 (-0.7σ)
$\boldsymbol{n_s}$	0.96743	0.9681 ± 0.0047 $(+0.7\sigma)$	$\Omega_{\rm m}h^3$	0.096088	0.09611 ± 0.00030 $(+0.4\sigma)$	$z_{\rm eq}$	3381.3	3380 ± 32 (-0.5σ)
$\boldsymbol{y_{cal}}$	0.99982	1.0003 ± 0.0025 (-0.0σ)	σ_8	0.8260	0.826 ± 0.013 (-0.4σ)	$100\theta_{\rm eq}$	0.8169	0.8172 ± 0.0060 $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	246.6	244 ± 23 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4607	0.4604 ± 0.0097 (-0.7σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071586	0.07162 ± 0.00048 $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	34.9	38 ± 8 (-0.7σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6169	0.617 ± 0.011 (-0.6σ)	$H(0.57)$	93.012	93.04 ± 0.28 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97.3	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.0046	1.004 ± 0.017 (-0.5σ)	$D_{\rm A}(0.57)$	1387.6	1387.0 ± 8.4 (-0.6σ)
$\boldsymbol{A_{217}^{CIB}}$	46.7	45 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.4825	2.481 ± 0.040 (-0.6σ)	$F_{\rm AP}(0.57)$	0.67592	0.6758 ± 0.0022 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.51	$3.37^{+1.5}_{-2.5}$ (-1.1σ)	$z_{\rm re}$	9.93	$9.83^{+1.7}_{-1.4}$ (-0.1σ)	$f\sigma_8(0.57)$	0.4801	0.4800 ± 0.0081 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.420	$0.52^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	2.188	2.190 ± 0.074 (-0.2σ)	$\sigma_8(0.57)$	0.6146	0.615 ± 0.010 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.613 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8722	1.874 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246292	0.246299 ± 0.000070 (-5.1σ)
$\boldsymbol{A^{kSZ}}$	4.58	$5.13^{+3.4}_{-2.7}$ $(+0.8\sigma)$	D_{40}	1228.8	1229 ± 13 (-0.9σ)	f_{2000}^{143}	28.75	28.3 ± 2.7 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.978	0.98 ± 0.19	D_{220}	5706.7	5712 ± 39 (-0.4σ)	f_{2000}^{217}	106.16	106.0 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.022	1.02 ± 0.18	D_{810}	2527.4	2530 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.27	31.2 ± 2.0 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.226	1.22 ± 0.12	D_{1420}	813.64	814.9 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10495.88	10496.5 ± 2.0 (-0.6σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.975	0.98 ± 0.18	$n_{\rm s,0.002}$	0.96743	0.9681 ± 0.0047 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12935.9	12952.5 ± 6.0
$\boldsymbol{c_{100}}$	0.99667	0.99680 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.244961	$0.244970^{+0.000065}_{-0.000078}$ (-5.1σ)	$\chi^2_{\rm prior}$	3.73	8.95 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99722	0.9970 ± 0.0018 $(+0.8\sigma)$	Age/Gyr	13.7992	13.797 ± 0.025 (-0.6σ)	$\chi^2_{\rm CMB}$	23431.8	23448.9 ± 6.0 $(+1575.6\sigma)$
$\boldsymbol{c_{TE}}$	1.00418	1.0043 ± 0.0044	z_*	1089.858	1089.83 ± 0.29 (-0.7σ)			
$\boldsymbol{c_{EE}}$	1.00107	1.0010 ± 0.0043	r_*	144.670	144.68 ± 0.31 $(+0.3\sigma)$			

Best-fit $\chi^2_{\rm eff} = 23435.49$; $\Delta\chi^2_{\rm eff} = 10499.93$; $\bar{\chi}^2_{\rm eff} = 23457.88$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.19$; $R - 1 = 0.00819$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.88 (Δ -1.05) CamSpec like_v9.10CMH_unified: 12935.88

2.17 base_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022375	$0.02238^{+0.00014}_{-0.00016}$ $(+0.6\sigma)$	H_0	67.761	67.74 ± 0.47 $(+0.4\sigma)$	$r_{\rm drag}$	147.402	147.38 ± 0.26 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11881	0.1189 ± 0.0010 (-0.3σ)	Ω_Λ	0.6911	0.6907 ± 0.0063 $(+0.4\sigma)$	$k_{\rm D}$	0.140559	0.14058 ± 0.00031 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040873	1.04087 ± 0.00029 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3089	0.3093 ± 0.0063 (-0.4σ)	$100\theta_{\rm D}$	0.160765	0.16076 ± 0.00019 (-0.7σ)
$\boldsymbol{\tau}$	0.0794	0.079 ± 0.017 (-0.2σ)	$\Omega_{\rm m}h^2$	0.14183	0.1419 ± 0.0010 (-0.3σ)	$z_{\rm eq}$	3373.9	3376 ± 24 (-0.3σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0883	3.087 ± 0.033 (-0.3σ)	$\Omega_{\rm m}h^3$	0.096105	0.09611 ± 0.00030 $(+0.3\sigma)$	$100\theta_{\rm eq}$	0.81837	0.8181 ± 0.0045 $(+0.3\sigma)$
$\boldsymbol{n_s}$	0.96855	0.9686 ± 0.0041 $(+0.6\sigma)$	σ_8	0.8263	0.826 ± 0.014 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071707	0.07169 ± 0.00035 $(+0.4\sigma)$
$\boldsymbol{y_{cal}}$	1.00006	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4592	0.4595 ± 0.0088 (-0.5σ)	$H(0.57)$	93.081	93.08 ± 0.22 $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244.4	244 ± 22 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6160	0.616 ± 0.010 (-0.5σ)	$D_{\rm A}(0.57)$	1385.5	1385.8 ± 6.4 (-0.4σ)
$\boldsymbol{A_{143}^{PS}}$	34.2	38 ± 7 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0038	1.004 ± 0.017 (-0.5σ)	$F_{\rm AP}(0.57)$	0.67537	0.6755 ± 0.0016 (-0.4σ)
$\boldsymbol{A_{217}^{PS}}$	97.8	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.4800	2.480 ± 0.040 (-0.6σ)	$f\sigma_8(0.57)$	0.4797	0.4798 ± 0.0080 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	46.6	45 ± 7 (-2.8σ)	$z_{\rm re}$	10.05	$9.92^{+1.7}_{-1.4}$ (-0.3σ)	$\sigma_8(0.57)$	0.6153	0.615 ± 0.010 (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.87	$3.36^{+1.6}_{-2.5}$ (-1.1σ)	$10^9A_{\rm s}$	2.194	2.193 ± 0.072 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.246305	0.246305 ± 0.000064 (-6.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.430	0.52 ± 0.11	$10^9A_{\rm s}e^{-2\tau}$	1.8717	1.873 ± 0.011 (-0.6σ)	f_{2000}^{143}	28.33	28.3 ± 2.7 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1227.6	1229 ± 13 (-0.9σ)	f_{2000}^{217}	105.96	105.9 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	4.12	$5.13^{+3.3}_{-2.8}$ $(+0.8\sigma)$	D_{220}	5710.1	5713 ± 39 (-0.5σ)	$f_{2000}^{143\times217}$	31.04	31.1 ± 2.0 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	1.001	0.98 ± 0.19	D_{810}	2528.7	2530 ± 14 (-0.3σ)	$\chi^2_{\rm lowTEB}$	10495.81	10496.4 ± 2.0 (-0.6σ)
$\boldsymbol{A_{143}^{dust}}$	1.025	1.02 ± 0.18	D_{1420}	814.45	815.0 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12936.1	12952.1 ± 5.9
$\boldsymbol{A_{217}^{dust}}$	1.227	1.22 ± 0.12	$n_{\rm s,0.002}$	0.96855	0.9686 ± 0.0041 $(+0.6\sigma)$	$\chi^2_{\rm 6DF}$	0.0154	0.046 ± 0.058 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.984	0.98 ± 0.18	$Y_{\rm P}$	0.244974	$0.244975^{+0.000060}_{-0.000073}$ (-6.0σ)	$\chi^2_{\rm MGS}$	1.343	1.38 ± 0.46 $(+0.4\sigma)$
$\boldsymbol{c_{100}}$	0.99678	0.99680 ± 0.00097 (-1.7σ)	Age/Gyr	13.7933	13.794 ± 0.021 (-0.5σ)	$\chi^2_{\rm DR11CMASS}$	2.434	2.76 ± 0.47 (-0.2σ)
$\boldsymbol{c_{217}}$	0.99718	0.9971 ± 0.0018 $(+0.8\sigma)$	z_*	1089.792	1089.80 ± 0.24 (-0.6σ)	$\chi^2_{\rm DR11LOWZ}$	0.546	0.67 ± 0.48 (-0.3σ)
$\boldsymbol{c_{TE}}$	1.00435	1.0043 ± 0.0045	r_*	144.737	144.72 ± 0.25 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	3.60	8.95 ± 3.5 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.00103	1.0010 ± 0.0043	$100\theta_*$	1.041071	1.04106 ± 0.00028 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	23431.9	23448.5 ± 5.8 $(+1580.3\sigma)$
$\boldsymbol{\beta_1^1}$	−0.16	-0.08 ± 0.98	$z_{\rm drag}$	1059.856	1059.85 ± 0.32 $(+0.5\sigma)$	$\chi^2_{\rm BAO}$	4.337	4.84 ± 0.69 (-0.2σ)

Best-fit $\chi^2_{\rm eff} = 23439.85$; $\Delta\chi^2_{\rm eff} = 10499.69$; $\bar{\chi}^2_{\rm eff} = 23462.28$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.81$; $R - 1 = 0.00944$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 (Δ -0.01) MGS: 1.34 (Δ 0.13) DR11CMASS: 2.43 (Δ -0.06) DR11LOWZ: 0.55 (Δ -0.13) CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.81 (Δ -1.61) CamSpec like_v9.10CMH_unified: 12936.11

2.18 base_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237^{+0.00016}_{-0.00017}$ $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	$100\theta_*$	1.04105 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1189 ± 0.0014 (-0.5σ)	H_0	67.71 ± 0.61 $(+0.5\sigma)$	$z_{\rm drag}$	1059.85 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04086 ± 0.00030 $(+0.2\sigma)$	Ω_Λ	0.6902 ± 0.0083 $(+0.5\sigma)$	$r_{\rm drag}$	147.37 ± 0.30 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.078 ± 0.017 (-0.1σ)	$\Omega_{\rm m}$	0.3098 ± 0.0083 (-0.5σ)	$k_{\rm D}$	0.14059 ± 0.00034 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.087 ± 0.034 (-0.3σ)	$\Omega_{\rm m}h^2$	0.1420 ± 0.0013 (-0.4σ)	$100\theta_{\rm D}$	0.16076 ± 0.00019 (-0.7σ)
$\boldsymbol{n_s}$	0.9684 ± 0.0047 $(+0.7\sigma)$	$\Omega_{\rm m}h^3$	0.09612 ± 0.00030 $(+0.4\sigma)$	$z_{\rm eq}$	3377 ± 31 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	σ_8	0.826 ± 0.014 (-0.4σ)	$100\theta_{\rm eq}$	0.8178 ± 0.0058 $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244 ± 22 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4597 ± 0.0096 (-0.6σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07167 ± 0.00046 $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.616 ± 0.011 (-0.6σ)	$H(0.57)$	93.07 ± 0.27 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.004 ± 0.017 (-0.5σ)	$D_{\rm A}(0.57)$	1386.1 ± 8.2 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.480 ± 0.040 (-0.6σ)	$F_{\rm AP}(0.57)$	0.6756 ± 0.0021 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.38^{+1.6}_{-2.5}$ (-1.1σ)	$z_{\rm re}$	$9.89^{+1.7}_{-1.4}$ (-0.2σ)	$f\sigma_8(0.57)$	0.4798 ± 0.0081 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9 A_{\rm s}$	2.192 ± 0.074 (-0.3σ)	$\sigma_8(0.57)$	0.615 ± 0.010 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.613 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.873 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246304 ± 0.000069 (-5.2σ)
$\boldsymbol{A^{kSZ}}$	$5.11^{+3.3}_{-2.9}$ $(+0.8\sigma)$	D_{40}	1229 ± 13 (-0.9σ)	f_{2000}^{143}	28.3 ± 2.7 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	5713 ± 39 (-0.4σ)	f_{2000}^{217}	105.9 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2530 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.2 ± 2.0 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	815.0 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10496.5 ± 2.0 (-0.6σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9684 ± 0.0047 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12952.4 ± 6.0
$\boldsymbol{c_{100}}$	0.99680 ± 0.00097 (-1.7σ)	$Y_{\rm P}$	$0.244975^{+0.000065}_{-0.000079}$ (-5.3σ)	$\chi^2_{\rm JLA}$	706.76 ± 0.23 (-0.4σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.8\sigma)$	Age/Gyr	13.794 ± 0.025 (-0.6σ)	$\chi^2_{\rm prior}$	8.95 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0043 ± 0.0045	z_*	1089.81 ± 0.28 (-0.7σ)	$\chi^2_{\rm CMB}$	23448.9 ± 5.9 $(+1567.3\sigma)$
$\boldsymbol{c_{EE}}$	1.0010 ± 0.0043	r_*	144.71 ± 0.30 $(+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 24164.57$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.94$; $R - 1 = 0.00842$

2.19 base_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00016 \quad (+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	$100\theta_*$	$1.04106 \pm 0.00030 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0014 \quad (-0.5\sigma)$	H_0	$67.74 \pm 0.62 \quad (+0.5\sigma)$	$z_{\rm drag}$	$1059.86 \pm 0.33 \quad (+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04087 \pm 0.00031 \quad (+0.2\sigma)$	Ω_Λ	$0.6906 \pm 0.0084 \quad (+0.5\sigma)$	$r_{\rm drag}$	$147.38 \pm 0.31 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.079 \pm 0.017 \quad (-0.1\sigma)$	$\Omega_{\rm m}$	$0.3094 \pm 0.0084 \quad (-0.5\sigma)$	$k_{\rm D}$	$0.14059 \pm 0.00034 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.087 \pm 0.034 \quad (-0.3\sigma)$	$\Omega_{\rm m} h^2$	$0.1419 \pm 0.0013 \quad (-0.4\sigma)$	$100\theta_{\rm D}$	$0.16076 \pm 0.00019 \quad (-0.7\sigma)$
$\boldsymbol{n_s}$	$0.9686 \pm 0.0047 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^3$	$0.09612 \pm 0.00030 \quad (+0.4\sigma)$	$z_{\rm eq}$	$3376 \pm 31 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	σ_8	$0.826 \pm 0.014 \quad (-0.4\sigma)$	$100\theta_{\rm eq}$	$0.8181 \pm 0.0059 \quad (+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$244 \pm 22 \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4595 \pm 0.0096 \quad (-0.6\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07169 \pm 0.00047 \quad (+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.616 \pm 0.011 \quad (-0.6\sigma)$	$H(0.57)$	$93.08 \pm 0.27 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.004 \pm 0.017 \quad (-0.5\sigma)$	$D_{\rm A}(0.57)$	$1385.7 \pm 8.3 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.480 \pm 0.040 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6755 \pm 0.0021 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.39^{+1.6}_{-2.5} \quad (-1.1\sigma)$	$z_{\rm re}$	$9.92^{+1.7}_{-1.4} \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4798 \pm 0.0081 \quad (-0.5\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9 A_{\rm s}$	$2.193 \pm 0.074 \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.615 \pm 0.010 \quad (-0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.614 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.873 \pm 0.012 \quad (-0.7\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246307 \pm 0.000069 \quad (-5.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.10 \pm 2.7 \quad (+0.8\sigma)$	D_{40}	$1229 \pm 13 \quad (-0.9\sigma)$	f_{2000}^{143}	$28.3 \pm 2.7 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	$5713 \pm 39 \quad (-0.4\sigma)$	f_{2000}^{217}	$105.9 \pm 1.9 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2530 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.1 \pm 2.0 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$815.1 \pm 4.8 \quad (+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.5 \pm 2.0 \quad (-0.6\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9686 \pm 0.0047 \quad (+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12952.4 ± 6.0
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00097 \quad (-1.7\sigma)$	$Y_{\rm P}$	$0.244977^{+0.000065}_{-0.000079} \quad (-5.2\sigma)$	$\chi^2_{\rm H070p6}$	$0.77 \pm 0.32 \quad (-0.5\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.8\sigma)$	Age/Gyr	$13.793 \pm 0.025 \quad (-0.6\sigma)$	$\chi^2_{\rm prior}$	$8.95 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0043 ± 0.0045	z_*	$1089.79 \pm 0.29 \quad (-0.7\sigma)$	$\chi^2_{\rm CMB}$	$23448.9 \pm 5.9 \quad (+1565.6\sigma)$
$\boldsymbol{c_{EE}}$	1.0010 ± 0.0043	r_*	$144.72 \pm 0.31 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23458.63$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.88$; $R - 1 = 0.00847$

2.20 base_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237^{+0.00016}_{-0.00017}$ $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	$100\theta_*$	1.04104 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0014 (-0.5σ)	H_0	67.66 ± 0.63 $(+0.6\sigma)$	$z_{\rm drag}$	1059.84 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04084 ± 0.00031 $(+0.2\sigma)$	Ω_Λ	0.6895 ± 0.0085 $(+0.5\sigma)$	$r_{\rm drag}$	147.35 ± 0.31 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.079 ± 0.016 (-0.1σ)	$\Omega_{\rm m}$	0.3105 ± 0.0085 (-0.5σ)	$k_{\rm D}$	0.14061 ± 0.00034 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.088 ± 0.031 (-0.2σ)	$\Omega_{\rm m} h^2$	0.1421 ± 0.0013 (-0.5σ)	$100\theta_{\rm D}$	0.16077 ± 0.00019 (-0.8σ)
$\boldsymbol{n_s}$	0.9681 ± 0.0047 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.09612 ± 0.00030 $(+0.4\sigma)$	$z_{\rm eq}$	3380 ± 31 (-0.5σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	σ_8	0.827 ± 0.013 (-0.4σ)	$100\theta_{\rm eq}$	0.8173 ± 0.0060 $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244 ± 22 (-0.5σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4607 ± 0.0095 (-0.6σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07162 ± 0.00047 $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.617 ± 0.010 (-0.6σ)	$H(0.57)$	93.04 ± 0.27 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.005 ± 0.016 (-0.5σ)	$D_{\rm A}(0.57)$	1386.9 ± 8.4 (-0.6σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.483 ± 0.038 (-0.6σ)	$F_{\rm AP}(0.57)$	0.6758 ± 0.0022 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.37^{+1.6}_{-2.5}$ (-1.1σ)	$z_{\rm re}$	9.94 ± 1.4 (-0.1σ)	$f\sigma_8(0.57)$	0.4805 ± 0.0077 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9 A_{\rm s}$	$2.194^{+0.066}_{-0.078}$ (-0.2σ)	$\sigma_8(0.57)$	$0.6154^{+0.0094}_{-0.011}$ (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.614 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.874 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246300 ± 0.000069 (-5.1σ)
$\boldsymbol{A^{kSZ}}$	$5.11^{+3.3}_{-2.9}$ $(+0.8\sigma)$	D_{40}	1230 ± 13 (-0.9σ)	f_{2000}^{143}	28.3 ± 2.7 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	5712 ± 39 (-0.4σ)	f_{2000}^{217}	105.9 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2530 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.2 ± 2.0 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	814.9 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10496.5 ± 2.0 (-0.6σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9681 ± 0.0047 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12952.3 ± 5.9
$\boldsymbol{c_{100}}$	0.99680 ± 0.00097 (-1.7σ)	$Y_{\rm P}$	$0.244971^{+0.000064}_{-0.000078}$ (-5.2σ)	$\chi^2_{\rm prior}$	8.96 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.8\sigma)$	Age/Gyr	13.796 ± 0.025 (-0.6σ)	$\chi^2_{\rm CMB}$	23448.8 ± 5.9 $(+1574.6\sigma)$
$\boldsymbol{c_{TE}}$	1.0042 ± 0.0044	z_*	1089.83 ± 0.29 (-0.7σ)		
$\boldsymbol{c_{EE}}$	1.0009 ± 0.0043	r_*	144.68 ± 0.31 $(+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23457.74$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.05$; $R - 1 = 0.00797$

2.21 base_plikHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022396	0.02239 ± 0.00025	$\sigma_8\Omega_m^{0.5}$	0.4456	0.445 ± 0.015	D_A/Gpc	13.9194	13.926 ± 0.044
$\boldsymbol{\Omega_c h^2}$	0.11803	0.1177 ± 0.0020	$\sigma_8\Omega_m^{0.25}$	0.5999	0.599 ± 0.017	z_{drag}	1059.86	1059.82 ± 0.54
$\boldsymbol{100\theta_{MC}}$	1.04099	1.04103 ± 0.00052	$\sigma_8/h^{0.5}$	0.9789	0.978 ± 0.026	r_{drag}	147.587	147.67 ± 0.49
$\boldsymbol{\tau}$	0.0611	0.061 ± 0.021	$\langle d^2\rangle^{1/2}$	2.413	2.408 ± 0.055	k_D	0.14037	0.14027 ± 0.00057
$\boldsymbol{\ln(10^{10}A_s)}$	3.0466	3.048 ± 0.045	z_{re}	8.32	$8.22^{+2.3}_{-1.9}$	$100\theta_D$	0.160794	0.16082 ± 0.00032
$\boldsymbol{n_s}$	0.9727	0.975 ± 0.010	$10^9 A_s$	2.104	2.109 ± 0.095	z_{eq}	3355.6	3349 ± 45
$\boldsymbol{y_{cal}}$	0.99997	1.0001 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8623	1.863 ± 0.019	k_{eq}	0.010242	0.01022 ± 0.00014
$\boldsymbol{A^{dustTE}_{100}}$	0.1363	0.137 ± 0.038	D_{40}	1206.0	1204 ± 22	$100\theta_{eq}$	0.8218	0.8232 ± 0.0086
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1308	0.133 ± 0.029	D_{220}	5679	5679 ± 55	$100\theta_{s,eq}$	0.45382	0.4545 ± 0.0044
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.305 ± 0.084	D_{810}	2523.1	2526 ± 25	$r_{drag}/D_V(0.57)$	0.07198	0.07208 ± 0.00068
$\boldsymbol{A^{dustTE}_{143}}$	0.147	0.152 ± 0.054	D_{1420}	814.4	816 ± 12	$H(0.57)$	93.206	93.25 ± 0.40
$\boldsymbol{A^{dustTE}_{143\times217}}$	0.325	0.334 ± 0.081	D_{2000}	230.34	230.9 ± 4.3	$D_A(0.57)$	1381.2	1380 ± 12
$\boldsymbol{A^{dustTE}_{217}}$	1.620	1.65 ± 0.26	$n_{s,0.002}$	0.9727	0.975 ± 0.010	$F_{AP}(0.57)$	0.67418	0.6738 ± 0.0030
$\boldsymbol{c_{100}}$	0.99931	0.9992 ± 0.0010	Y_P	0.245404	0.24540 ± 0.00011	$f\sigma_8(0.57)$	0.4678	0.467 ± 0.012
H_0	68.09	68.21 ± 0.88	Y_P^{BBN}	0.246731	0.24673 ± 0.00011	$\sigma_8(0.57)$	0.6027	0.603 ± 0.015
Ω_Λ	0.6958	$0.697^{+0.013}_{-0.011}$	10^5D/H	2.5865	2.588 ± 0.047	χ^2_{lowTEB}	10493.50	10494.5 ± 1.9
Ω_m	0.3042	0.303 ± 0.012	Age/Gyr	13.7846	13.782 ± 0.038	χ^2_{plikTE}	931.73	938.8 ± 4.0
$\Omega_m h^2$	0.14107	0.1408 ± 0.0019	z_*	1089.717	1089.70 ± 0.41	χ^2_{prior}	1.94	7.88 ± 3.7
$\Omega_m h^3$	0.09606	0.09602 ± 0.00053	r_*	144.923	145.00 ± 0.47	χ^2_{CMB}	11425.22	11433.3 ± 4.1
σ_8	0.8078	0.808 ± 0.020	$100\theta_*$	1.04116	1.04121 ± 0.00052			

Best-fit $\chi^2_{eff} = 11427.16$; $\bar{\chi}^2_{eff} = 11441.18$; $R - 1 = 0.00601$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.50 plik_dx11dr2_HM_v18_TE: 931.73

2.22 base_plikHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02417	0.0242 ± 0.0014	$\sigma_8\Omega_m^{0.25}$	0.5707	$0.572^{+0.030}_{-0.034}$	z_{drag}	1063.44	1063.4 ± 2.7
$\boldsymbol{\Omega_c h^2}$	0.11229	$0.1125^{+0.0046}_{-0.0051}$	$\sigma_8/h^{0.5}$	0.9378	0.940 ± 0.046	r_{drag}	147.16	147.14 ± 0.77
$\boldsymbol{100\theta_{MC}}$	1.04007	1.04014 ± 0.00092	$\langle d^2\rangle^{1/2}$	2.349	2.351 ± 0.085	k_D	0.14201	0.1420 ± 0.0014
$\boldsymbol{\tau}$	0.0651	0.066 ± 0.021	z_{re}	8.19	$8.18^{+2.2}_{-1.8}$	$100\theta_D$	0.15862	$0.1587^{+0.0012}_{-0.0016}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0719	3.074 ± 0.045	$10^9 A_s$	2.158	2.164 ± 0.097	z_{eq}	3261	3266^{+83}_{-95}
$\boldsymbol{n_s}$	0.9867	0.988 ± 0.014	$10^9 A_s e^{-2\tau}$	1.8949	1.895 ± 0.026	k_{eq}	0.009953	$0.00997^{+0.00025}_{-0.00029}$
$\boldsymbol{y_{cal}}$	0.99998	1.0000 ± 0.0025	D_{40}	1223.3	1221 ± 30	$100\theta_{eq}$	0.8440	0.844 ± 0.020
$\boldsymbol{A_{100}^{dustEE}}$	0.0824	0.0826 ± 0.0059	D_{220}	6000	5990 ± 220	$100\theta_{s,eq}$	0.4639	0.4637 ± 0.0097
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0499	0.0500 ± 0.0054	D_{810}	2593.4	2592^{+45}_{-41}	$r_{drag}/D_V(0.57)$	0.07385	0.0739 ± 0.0019
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0990	0.099 ± 0.032	D_{1420}	846.8	846^{+22}_{-19}	$H(0.57)$	95.03	$95.1^{+1.7}_{-1.9}$
$\boldsymbol{A_{143}^{dustEE}}$	0.1015	0.1012 ± 0.0073	D_{2000}	242.4	$242.3^{+8.4}_{-7.4}$	$D_A(0.57)$	1336.0	1337 ± 40
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2233	0.223 ± 0.046	$n_{s,0.002}$	0.9867	0.988 ± 0.014	$F_{AP}(0.57)$	0.6649	$0.6654^{+0.0072}_{-0.0089}$
$\boldsymbol{A_{217}^{dustEE}}$	0.650	0.64 ± 0.13	Y_P	0.24615	$0.24613^{+0.00061}_{-0.00052}$	$f\sigma_8(0.57)$	0.4487	0.449 ± 0.022
H_0	71.37	71.4 ± 3.0	Y_P^{BBN}	0.24748	$0.24746^{+0.00061}_{-0.00052}$	$\sigma_8(0.57)$	0.6000	0.600 ± 0.015
Ω_Λ	0.7309	$0.729^{+0.034}_{-0.025}$	10^5D/H	2.287	$2.30^{+0.18}_{-0.24}$	χ^2_{lowTEB}	10493.61	10494.8 ± 2.2
Ω_m	0.2691	$0.271^{+0.025}_{-0.034}$	Age/Gyr	13.606	13.60 ± 0.17	χ^2_{plikEE}	751.20	758.7 ± 4.5
$\Omega_m h^2$	0.13711	$0.1373^{+0.0035}_{-0.0040}$	z_*	1087.18	$1087.3^{+1.7}_{-2.0}$	χ^2_{prior}	3.97	8.31 ± 3.6
$\Omega_m h^3$	0.09786	0.0979 ± 0.0020	r_*	145.06	145.02 ± 0.66	χ^2_{CMB}	11244.81	11253.5 ± 4.7
σ_8	0.7923	0.793 ± 0.025	$100\theta_*$	1.04007	1.04014 ± 0.00089			
$\sigma_8\Omega_m^{0.5}$	0.4110	$0.413^{+0.031}_{-0.037}$	D_A/Gpc	13.947	13.942 ± 0.062			

Best-fit $\chi^2_{eff} = 11248.79$; $\bar{\chi}^2_{eff} = 11261.82$; $R - 1 = 0.00601$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.61 plik_dx11dr2_HM_v18_EE: 751.20

2.23 base_CamSpecHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022401	0.02241 ± 0.00024 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9630	0.970 ± 0.026 (-0.3σ)	$r_{\rm drag}$	148.09	148.04 ± 0.51 $(+0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11613	0.1163 ± 0.0020 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.362	2.374 ± 0.054 (-0.6σ)	$k_{\rm D}$	0.13986	0.13992 ± 0.00059 (-0.6σ)
$\boldsymbol{100\theta_{MC}}$	1.041307	1.04134 ± 0.00048 $(+0.6\sigma)$	$z_{\rm re}$	8.26	$8.49^{+2.4}_{-1.8}$ $(+0.1\sigma)$	$100\theta_{\rm D}$	0.160883	0.16087 ± 0.00031 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0608	0.065 ± 0.022 $(+0.1\sigma)$	$10^9 A_{\rm s}$	2.080	2.103 ± 0.097 (-0.1σ)	$z_{\rm eq}$	3310.4	3315 ± 46 (-0.8σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0349	3.045 ± 0.046 (-0.1σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8416	1.847 ± 0.026 (-0.9σ)	$100\theta_{\rm eq}$	0.8305	0.8298 ± 0.0089 $(+0.8\sigma)$
$\boldsymbol{n_s}$	0.9812	0.982 ± 0.010 $(+0.7\sigma)$	D_{40}	1177.1	1180 ± 23 (-1.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07266	0.07262 ± 0.00069 $(+0.8\sigma)$
$\boldsymbol{y_{cal}}$	0.99994	0.99997 ± 0.0025 (-0.0σ)	D_{220}	5618	5625 ± 77 (-1.0σ)	$H(0.57)$	93.502	93.51 ± 0.40 $(+0.6\sigma)$
$\boldsymbol{c_{TE}}$	0.9981	0.9987 ± 0.0098	D_{810}	2508.3	2515 ± 36 (-0.4σ)	$D_{\rm A}(0.57)$	1371.0	1371 ± 12 (-0.7σ)
H_0	68.89	68.86 ± 0.88 $(+0.7\sigma)$	D_{1420}	812.5	815 ± 15 (-0.1σ)	$F_{\rm AP}(0.57)$	0.67133	$0.6715^{+0.0028}_{-0.0032}$ (-0.7σ)
Ω_Λ	0.7068	$0.706^{+0.012}_{-0.011}$ $(+0.7\sigma)$	$n_{\rm s,0.002}$	0.9812	0.982 ± 0.010 $(+0.7\sigma)$	$f\sigma_8(0.57)$	0.4600	0.463 ± 0.012 (-0.4σ)
$\Omega_{\rm m}$	0.2932	$0.294^{+0.011}_{-0.012}$ (-0.7σ)	$Y_{\rm P}$	0.244985	0.24499 ± 0.00010 (-3.6σ)	$\sigma_8(0.57)$	0.5991	0.603 ± 0.015 (-0.0σ)
$\Omega_{\rm m} h^2$	0.13917	0.1394 ± 0.0019 (-0.8σ)	Age/Gyr	13.7655	13.764 ± 0.036 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.246316	0.24632 ± 0.00010 (-3.6σ)
$\Omega_{\rm m} h^3$	0.09588	0.09594 ± 0.00051 (-0.1σ)	z_*	1089.527	1089.53 ± 0.40 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10492.11	10493.3 ± 1.5 (-0.6σ)
σ_8	0.7993	0.804 ± 0.020 (-0.2σ)	r_*	145.419	145.37 ± 0.49 $(+0.8\sigma)$	$\chi^2_{\rm CamSpec}$	2694.75	2699.5 ± 3.1
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4328	$0.436^{+0.014}_{-0.016}$ (-0.5σ)	$100\theta_*$	1.041507	1.04153 ± 0.00048 $(+0.6\sigma)$	$\chi^2_{\rm prior}$	10.00	12.0 ± 2.0 $(+1.1\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5882	0.592 ± 0.017 (-0.4σ)	$z_{\rm drag}$	1059.70	1059.75 ± 0.53 (-0.1σ)	$\chi^2_{\rm CMB}$	13186.86	13192.8 ± 3.4 $(+430.1\sigma)$

Best-fit $\chi^2_{\rm eff} = 13196.86$; $\Delta\chi^2_{\rm eff} = 1769.70$; $\bar{\chi}^2_{\rm eff} = 13204.81$; $\Delta\bar{\chi}^2_{\rm eff} = 1763.63$; $R - 1 = 0.00710$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.11 (Δ -1.39) CamSpec like_v9.10CMH_unified: 2694.75

2.24 base_CamSpecHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02413	0.0241 ± 0.0011 (-0.0σ)	$\sigma_8/h^{0.5}$	0.9464	0.947 ± 0.038 $(+0.2\sigma)$	$r_{\rm drag}$	146.56	146.53 ± 0.61 (-0.8σ)
$\boldsymbol{\Omega_c h^2}$	0.11469	0.1148 ± 0.0040 $(+0.5\sigma)$	$\langle d^2\rangle^{1/2}$	2.381	2.382 ± 0.074 $(+0.4\sigma)$	$k_{\rm D}$	0.14266	0.1427 ± 0.0011 $(+0.5\sigma)$
$\boldsymbol{100\theta_{\rm MC}}$	1.03990	1.03990 ± 0.00073 (-0.3σ)	$z_{\rm re}$	7.83	$7.70^{+2.2}_{-1.7}$ (-0.2σ)	$100\theta_{\rm D}$	0.15853	$0.1586^{+0.0010}_{-0.0012}$ (-0.1σ)
$\boldsymbol{\tau}$	0.0607	0.061 ± 0.021 (-0.3σ)	$10^9 A_{\rm s}$	2.135	$2.136^{+0.090}_{-0.10}$ (-0.3σ)	$z_{\rm eq}$	3318	3321 ± 75 $(+0.6\sigma)$
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0609	3.060 ± 0.043 (-0.3σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8905	1.891 ± 0.028 (-0.2σ)	$100\theta_{\rm eq}$	0.8329	0.833 ± 0.017 (-0.5σ)
$\boldsymbol{n_{\rm s}}$	0.9759	0.976 ± 0.011 (-0.8σ)	D_{40}	1239.1	1239 ± 27 $(+0.6\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07302	0.0730 ± 0.0015 (-0.5σ)
$\boldsymbol{y_{\rm cal}}$	1.00008	1.0001 ± 0.0025 $(+0.0\sigma)$	D_{220}	5982	5980 ± 180 (-0.0σ)	$H(0.57)$	94.65	$94.7^{+1.3}_{-1.5}$ (-0.2σ)
$\boldsymbol{c_{EE}}$	0.9969	0.9967 ± 0.0099	D_{810}	2573.0	2572 ± 42 (-0.5σ)	$D_{\rm A}(0.57)$	1348.1	1349 ± 32 $(+0.3\sigma)$
H_0	70.39	70.4 ± 2.4 (-0.3σ)	D_{1420}	836.8	836 ± 18 (-0.5σ)	$F_{\rm AP}(0.57)$	0.6682	$0.6686^{+0.0064}_{-0.0072}$ $(+0.4\sigma)$
Ω_Λ	0.7185	$0.717^{+0.028}_{-0.023}$ (-0.4σ)	$n_{\rm s,0.002}$	0.9759	0.976 ± 0.011 (-0.8σ)	$f\sigma_8(0.57)$	0.4535	0.454 ± 0.018 $(+0.2\sigma)$
$\Omega_{\rm m}$	0.2815	$0.283^{+0.023}_{-0.028}$ $(+0.4\sigma)$	$Y_{\rm P}$	0.245704	0.24569 ± 0.00042 (-0.8σ)	$\sigma_8(0.57)$	0.5981	0.598 ± 0.014 (-0.2σ)
$\Omega_{\rm m} h^2$	0.13947	0.1396 ± 0.0031 $(+0.6\sigma)$	Age/Gyr	13.627	13.63 ± 0.13 $(+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.247024	0.24702 ± 0.00043 (-0.8σ)
$\Omega_{\rm m} h^3$	0.09817	0.0982 ± 0.0016 $(+0.1\sigma)$	z_*	1087.40	$1087.5^{+1.4}_{-1.6}$ $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10494.94	10496.1 ± 2.3 $(+0.6\sigma)$
σ_8	0.7940	0.794 ± 0.022 $(+0.0\sigma)$	r_*	144.46	144.42 ± 0.55 (-0.9σ)	$\chi^2_{\rm CamSpec}$	2186.45	2191.3 ± 3.5
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4213	0.422 ± 0.028 $(+0.3\sigma)$	$100\theta_*$	1.03991	1.03991 ± 0.00071 (-0.3σ)	$\chi^2_{\rm prior}$	10.13	12.1 ± 2.1 $(+1.1\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5784	0.579 ± 0.026 $(+0.2\sigma)$	$z_{\rm drag}$	1063.52	1063.5 ± 2.1 $(+0.0\sigma)$	$\chi^2_{\rm CMB}$	12681.38	12687.4 ± 3.5 $(+308.1\sigma)$

Best-fit $\chi^2_{\rm eff} = 12691.51$; $\Delta\chi^2_{\rm eff} = 1442.72$; $\bar{\chi}^2_{\rm eff} = 12699.49$; $\Delta\bar{\chi}^2_{\rm eff} = 1437.68$; $R - 1 = 0.00431$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.94 (Δ 1.32) CamSpec like_v9.10CMH_unified: 2186.45

2.25 base_plikHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022319	0.02228 ± 0.00025	$\sigma_8\Omega_m^{0.5}$	0.4457	0.446 ± 0.015	D_A/Gpc	13.9074	13.911 ± 0.046
$\boldsymbol{\Omega_c h^2}$	0.11874	0.1187 ± 0.0021	$\sigma_8\Omega_m^{0.25}$	0.5980	0.598 ± 0.016	z_{drag}	1059.74	1059.63 ± 0.54
$\boldsymbol{100\theta_{MC}}$	1.04096	1.04094 ± 0.00051	$\sigma_8/h^{0.5}$	0.9747	0.975 ± 0.024	r_{drag}	147.48	147.53 ± 0.50
$\boldsymbol{\tau}$	0.0527	0.053 ± 0.019	$\langle d^2\rangle^{1/2}$	2.418	2.419 ± 0.056	k_D	0.14041	0.14033 ± 0.00058
$\boldsymbol{\ln(10^{10}A_s)}$	3.0322	3.031 ± 0.041	z_{re}	7.51	$7.38^{+2.4}_{-1.7}$	$100\theta_D$	0.160876	0.16093 ± 0.00032
$\boldsymbol{n_s}$	0.9652	0.965 ± 0.012	$10^9 A_s$	2.074	2.074 ± 0.086	z_{eq}	3370.8	3370 ± 47
$\boldsymbol{y_{cal}}$	1.00013	1.0001 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8666	1.865 ± 0.019	k_{eq}	0.010288	0.01029 ± 0.00014
$\boldsymbol{A_{100}^{dustTE}}$	0.1330	0.137 ± 0.038	D_{40}	1222.9	1225 ± 27	$100\theta_{eq}$	0.8188	0.8189 ± 0.0090
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1336	0.133 ± 0.029	D_{220}	5709	5704 ± 59	$100\theta_{s,eq}$	0.45232	0.4524 ± 0.0046
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.316	0.302 ± 0.084	D_{810}	2521.3	2519 ± 26	$r_{drag}/D_V(0.57)$	0.07174	0.07174 ± 0.00070
$\boldsymbol{A_{143}^{dustTE}}$	0.155	0.154 ± 0.054	D_{1420}	810.7	809 ± 12	$H(0.57)$	93.069	93.04 ± 0.41
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.351	0.334 ± 0.080	D_{2000}	228.63	228.2 ± 4.5	$D_A(0.57)$	1385.5	1386 ± 12
$\boldsymbol{A_{217}^{dustTE}}$	1.662	1.65 ± 0.26	$n_{s,0.002}$	0.9652	0.965 ± 0.012	$F_{AP}(0.57)$	0.67527	0.6754 ± 0.0032
$\boldsymbol{c_{100}}$	0.99919	0.9993 ± 0.0010	Y_P	0.245370	0.24535 ± 0.00012	$f\sigma_8(0.57)$	0.4658	0.466 ± 0.012
H_0	67.77	67.73 ± 0.92	Y_P^{BBN}	0.246697	0.24668 ± 0.00012	$\sigma_8(0.57)$	0.5976	0.597 ± 0.013
Ω_Λ	0.6915	0.691 ± 0.012	10^5D/H	2.6009	2.609 ± 0.048	χ^2_{lowEB}	5430.77	5431.7 ± 1.2
Ω_m	0.3085	0.309 ± 0.012	Age/Gyr	13.7960	13.801 ± 0.039	χ^2_{plikTE}	931.24	938.4 ± 4.1
$\Omega_m h^2$	0.14170	0.1417 ± 0.0020	z_*	1089.872	1089.93 ± 0.43	χ^2_{prior}	1.89	7.77 ± 3.6
$\Omega_m h^3$	0.09603	0.09594 ± 0.00053	r_*	144.798	144.83 ± 0.49	χ^2_{CMB}	6362.01	6370.1 ± 4.2
σ_8	0.8024	0.802 ± 0.018	$100\theta_*$	1.04115	1.04113 ± 0.00051			

Best-fit $\chi^2_{eff} = 6363.89$; $\bar{\chi}^2_{eff} = 6377.85$; $R - 1 = 0.00716$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.77 plik_dx11dr2_HM_v18_TE: 931.24

2.26 base_plikHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02388	0.0240 ± 0.0013	$\sigma_8\Omega_m^{0.25}$	0.5790	0.582 ± 0.031	z_{drag}	1062.98	1063.1 ± 2.6
$\boldsymbol{\Omega_c h^2}$	0.1148	$0.1150^{+0.0048}_{-0.0055}$	$\sigma_8/h^{0.5}$	0.9477	0.951 ± 0.045	r_{drag}	146.82	146.68 ± 0.78
$\boldsymbol{100\theta_{MC}}$	1.03993	1.03988 ± 0.00094	$\langle d^2\rangle^{1/2}$	2.387	2.400 ± 0.093	k_D	0.14220	0.1423 ± 0.0014
$\boldsymbol{\tau}$	0.0566	$0.059^{+0.022}_{-0.019}$	z_{re}	7.50	$7.62^{+2.2}_{-1.6}$	$100\theta_D$	0.15885	$0.1588^{+0.0012}_{-0.0016}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0591	$3.066^{+0.046}_{-0.041}$	$10^9 A_s$	2.131	2.148 ± 0.091	z_{eq}	3313	3321^{+89}_{-100}
$\boldsymbol{n_s}$	0.9732	0.973 ± 0.016	$10^9 A_s e^{-2\tau}$	1.9027	1.907 ± 0.027	k_{eq}	0.010113	$0.01014^{+0.00027}_{-0.00032}$
$\boldsymbol{y_{cal}}$	0.99986	1.0002 ± 0.0025	D_{40}	1250.6	1257 ± 36	$100\theta_{eq}$	0.8330	0.832 ± 0.021
$\boldsymbol{A_{100}^{dustEE}}$	0.0802	0.0804 ± 0.0060	D_{220}	6011	6031 ± 210	$100\theta_{s,eq}$	0.4585	0.458 ± 0.010
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0475	0.0475 ± 0.0056	D_{810}	2587.2	2590 ± 42	$r_{drag}/D_V(0.57)$	0.07296	0.0730 ± 0.0019
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0954	0.099 ± 0.032	D_{1420}	839.2	840 ± 20	$H(0.57)$	94.45	$94.6^{+1.6}_{-1.8}$
$\boldsymbol{A_{143}^{dustEE}}$	0.0988	0.0985 ± 0.0074	D_{2000}	239.2	239.4 ± 7.8	$D_A(0.57)$	1351.8	1352 ± 41
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2241	0.224 ± 0.046	$n_{s,0.002}$	0.9732	0.973 ± 0.016	$F_{AP}(0.57)$	0.6687	$0.6691^{+0.0076}_{-0.0096}$
$\boldsymbol{A_{217}^{dustEE}}$	0.636	0.65 ± 0.13	Y_P	0.24603	0.24605 ± 0.00054	$f\sigma_8(0.57)$	0.4539	0.455 ± 0.021
H_0	70.15	70.2 ± 3.0	Y_P^{BBN}	0.24736	0.24738 ± 0.00054	$\sigma_8(0.57)$	0.5975	0.599 ± 0.014
Ω_Λ	0.7170	$0.714^{+0.038}_{-0.027}$	10^5D/H	2.333	$2.33^{+0.19}_{-0.24}$	χ^2_{lowEB}	5430.73	5431.8 ± 1.3
Ω_m	0.2830	$0.286^{+0.027}_{-0.038}$	Age/Gyr	13.652	13.64 ± 0.16	χ^2_{plikEE}	750.75	758.5 ± 4.4
$\Omega_m h^2$	0.13930	$0.1396^{+0.0037}_{-0.0044}$	z_*	1087.70	$1087.7^{+1.7}_{-2.0}$	χ^2_{prior}	3.42	7.71 ± 3.4
$\Omega_m h^3$	0.09772	$0.0979^{+0.0019}_{-0.0021}$	r_*	144.63	144.51 ± 0.72	χ^2_{CMB}	6181.48	6190.3 ± 4.5
σ_8	0.7938	0.796 ± 0.024	$100\theta_*$	1.03996	1.03990 ± 0.00091			
$\sigma_8\Omega_m^{0.5}$	0.4223	$0.425^{+0.033}_{-0.037}$	D_A/Gpc	13.907	13.897 ± 0.067			

Best-fit $\chi^2_{eff} = 6184.90$; $\bar{\chi}^2_{eff} = 6197.97$; $R - 1 = 0.00671$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.73 plik_dx11dr2_HM_v18_EE: 750.75

2.27 base_CamSpecHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022329	0.02233 ± 0.00025 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9651	0.963 ± 0.025 (-0.5σ)	$r_{\rm drag}$	147.99	147.98 ± 0.52 $(+0.9\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11682	0.1169 ± 0.0021 (-0.9σ)	$\langle d^2\rangle^{1/2}$	2.378	2.372 ± 0.057 (-0.8σ)	$k_{\rm D}$	0.13991	0.13992 ± 0.00059 (-0.7σ)
$\boldsymbol{100\theta_{MC}}$	1.041300	1.04126 ± 0.00050 $(+0.6\sigma)$	$z_{\rm re}$	7.80	$7.53^{+2.5}_{-1.8}$ $(+0.1\sigma)$	$100\theta_{\rm D}$	0.160958	0.16096 ± 0.00032 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0559	0.055 ± 0.020 $(+0.1\sigma)$	$10^9 A_{\rm s}$	2.074	2.064 ± 0.091 (-0.1σ)	$z_{\rm eq}$	3325.3	3327 ± 48 (-0.9σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0320	3.026 ± 0.044 (-0.1σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8546	1.849 ± 0.027 (-0.8σ)	$100\theta_{\rm eq}$	0.8275	0.8274 ± 0.0093 $(+0.9\sigma)$
$\boldsymbol{n_s}$	0.9753	0.975 ± 0.011 $(+0.9\sigma)$	D_{40}	1196.1	1194 ± 28 (-1.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07242	0.07241 ± 0.00073 $(+1.0\sigma)$
$\boldsymbol{y_{cal}}$	0.99997	1.0000 ± 0.0025 (-0.0σ)	D_{220}	5666	5649 ± 82 (-0.9σ)	$H(0.57)$	93.365	93.36 ± 0.42 $(+0.8\sigma)$
$\boldsymbol{c_{TE}}$	1.0015	1.000 ± 0.010	D_{810}	2519.3	2512 ± 37 (-0.3σ)	$D_{\rm A}(0.57)$	1375.2	1376 ± 12 (-0.9σ)
H_0	68.58	68.55 ± 0.93 $(+0.9\sigma)$	D_{1420}	813.6	811 ± 15 $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.67238	0.6725 ± 0.0031 (-0.9σ)
Ω_Λ	0.7027	0.702 ± 0.012 $(+0.9\sigma)$	$n_{\rm s,0.002}$	0.9753	0.975 ± 0.011 $(+0.9\sigma)$	$f\sigma_8(0.57)$	0.4610	0.460 ± 0.012 (-0.5σ)
$\Omega_{\rm m}$	0.2973	0.298 ± 0.012 (-0.9σ)	$Y_{\rm P}$	0.244954	0.24496 ± 0.00011 (-3.4σ)	$\sigma_8(0.57)$	0.5980	0.596 ± 0.014 (-0.1σ)
$\Omega_{\rm m} h^2$	0.13980	0.1398 ± 0.0020 (-0.9σ)	Age/Gyr	13.7765	13.778 ± 0.038 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246285	$0.24628^{+0.00012}_{-0.00011}$ (-3.4σ)
$\Omega_{\rm m} h^3$	0.09587	0.09585 ± 0.00052 (-0.2σ)	z_*	1089.674	1089.68 ± 0.42 (-0.6σ)	$\chi^2_{\rm lowEB}$	5430.77	5431.7 ± 1.2 $(+0.0\sigma)$
σ_8	0.7992	0.797 ± 0.019 (-0.3σ)	r_*	145.292	145.28 ± 0.50 $(+0.9\sigma)$	$\chi^2_{\rm CamSpec}$	2694.48	2699.5 ± 3.2
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4357	0.435 ± 0.015 (-0.7σ)	$100\theta_*$	1.041499	1.04146 ± 0.00049 $(+0.6\sigma)$	$\chi^2_{\rm prior}$	9.96	12.0 ± 2.0 $(+1.2\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5901	0.589 ± 0.017 (-0.6σ)	$z_{\rm drag}$	1059.59	1059.60 ± 0.54 (-0.1σ)	$\chi^2_{\rm CMB}$	8125.25	8131.3 ± 3.4 $(+416.9\sigma)$

Best-fit $\chi^2_{\rm eff} = 8135.21$; $\Delta\chi^2_{\rm eff} = 1771.32$; $\bar{\chi}^2_{\rm eff} = 8143.29$; $\Delta\bar{\chi}^2_{\rm eff} = 1765.44$; $R - 1 = 0.00482$
$\chi^2_{\rm eff}$: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.77 (Δ -0.00) CamSpec like_v9.10CMH_unified: 2694.48

2.28 base_CamSpecHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02404	$0.02402^{+0.00099}_{-0.0011}$ $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	0.9576	0.956 ± 0.037 $(+0.1\sigma)$	$r_{\rm drag}$	146.20	146.19 ± 0.61 (-0.6σ)
$\boldsymbol{\Omega_c h^2}$	0.11645	0.1166 ± 0.0041 $(+0.3\sigma)$	$\langle d^2\rangle^{1/2}$	2.427	2.422 ± 0.077 $(+0.2\sigma)$	$k_{\rm D}$	0.14299	0.1429 ± 0.0011 $(+0.4\sigma)$
$\boldsymbol{100\theta_{\rm MC}}$	1.03969	1.03971 ± 0.00072 (-0.2σ)	$z_{\rm re}$	7.61	$7.30^{+2.1}_{-1.6}$ (-0.2σ)	$100\theta_{\rm D}$	0.15855	0.1586 ± 0.0011 (-0.1σ)
$\boldsymbol{\tau}$	0.0578	0.056 ± 0.019 (-0.2σ)	$10^9 A_{\rm s}$	2.142	2.132 ± 0.087 (-0.2σ)	$z_{\rm eq}$	3357	3361 ± 78 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0645	3.059 ± 0.041 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.9083	1.906 ± 0.028 (-0.0σ)	$100\theta_{\rm eq}$	0.8252	0.825 ± 0.017 (-0.4σ)
$\boldsymbol{n_{\rm s}}$	0.9648	$0.965^{+0.012}_{-0.013}$ (-0.5σ)	D_{40}	1272.8	1271 ± 31 $(+0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07239	0.0724 ± 0.0015 (-0.3σ)
$\boldsymbol{y_{\rm cal}}$	1.00004	1.0001 ± 0.0025 (-0.0σ)	D_{220}	6047	6035 ± 180 $(+0.0\sigma)$	$H(0.57)$	94.32	$94.3^{+1.2}_{-1.4}$ (-0.1σ)
$\boldsymbol{c_{EE}}$	1.0014	1.0003 ± 0.0099	D_{810}	2582.9	2578 ± 41 (-0.3σ)	$D_{\rm A}(0.57)$	1358.2	1359 ± 32 $(+0.2\sigma)$
H_0	69.59	69.6 ± 2.4 (-0.2σ)	D_{1420}	835.7	834 ± 18 (-0.3σ)	$F_{\rm AP}(0.57)$	0.6709	$0.6713^{+0.0066}_{-0.0074}$ $(+0.3\sigma)$
Ω_Λ	0.7086	$0.707^{+0.029}_{-0.024}$ (-0.2σ)	$n_{\rm s,0.002}$	0.9648	$0.965^{+0.012}_{-0.013}$ (-0.5σ)	$f\sigma_8(0.57)$	0.4591	0.458 ± 0.018 $(+0.1\sigma)$
$\Omega_{\rm m}$	0.2914	$0.293^{+0.024}_{-0.029}$ $(+0.2\sigma)$	$Y_{\rm P}$	0.245664	0.24564 ± 0.00041 (-0.8σ)	$\sigma_8(0.57)$	0.5992	0.597 ± 0.013 (-0.1σ)
$\Omega_{\rm m} h^2$	0.14113	0.1413 ± 0.0033 $(+0.4\sigma)$	Age/Gyr	13.651	13.65 ± 0.13 $(+0.0\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246984	0.24697 ± 0.00041 (-0.8σ)
$\Omega_{\rm m} h^3$	0.09821	0.0982 ± 0.0015 $(+0.2\sigma)$	z_*	1087.65	1087.7 ± 1.4 $(+0.0\sigma)$	$\chi^2_{\rm lowEB}$	5430.75	5431.7 ± 1.2 (-0.1σ)
σ_8	0.7988	0.797 ± 0.021 $(+0.0\sigma)$	r_*	144.08	144.05 ± 0.57 (-0.6σ)	$\chi^2_{\rm CamSpec}$	2185.24	2190.2 ± 3.2
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4312	0.431 ± 0.028 $(+0.2\sigma)$	$100\theta_*$	1.03971	1.03974 ± 0.00070 (-0.2σ)	$\chi^2_{\rm prior}$	10.05	12.0 ± 2.0 $(+1.3\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5869	0.586 ± 0.026 $(+0.1\sigma)$	$z_{\rm drag}$	1063.44	1063.4 ± 2.0 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	7615.99	7621.9 ± 3.4 $(+314.8\sigma)$

Best-fit $\chi^2_{\rm eff} = 7626.04$; $\Delta\chi^2_{\rm eff} = 1441.14$; $\bar{\chi}^2_{\rm eff} = 7633.94$; $\Delta\bar{\chi}^2_{\rm eff} = 1435.97$; $R - 1 = 0.00531$
$\chi^2_{\rm eff}$: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.75 (Δ 0.02) CamSpec like_v9.10CMH_unified: 2185.24

2.29 base_plikHM_TT_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022143	0.02213 ± 0.00023	Ω_m	0.3241	$0.324^{+0.014}_{-0.015}$	$100\theta_*$	1.040903	1.04090 ± 0.00048
$\boldsymbol{\Omega_c h^2}$	0.12124	0.1212 ± 0.0023	$\Omega_m h^2$	0.14402	0.1440 ± 0.0021	D_A/Gpc	13.8616	13.863 ± 0.046
$\boldsymbol{100\theta_{MC}}$	1.040695	1.04069 ± 0.00049	$\Omega_m h^3$	0.096011	0.09598 ± 0.00045	z_{drag}	1059.513	1059.46 ± 0.46
$\boldsymbol{\tau}$	0.0693	0.069 ± 0.018	σ_8	0.8280	0.828 ± 0.014	r_{drag}	147.017	147.04 ± 0.49
$\boldsymbol{\ln(10^{10} A_s)}$	3.0767	3.076 ± 0.035	$\sigma_8 \Omega_m^{0.5}$	0.4714	0.471 ± 0.014	k_D	0.14077	0.14073 ± 0.00051
$\boldsymbol{n_s}$	0.9608	0.9603 ± 0.0064	$\sigma_8 \Omega_m^{0.25}$	0.6247	0.624 ± 0.013	$100\theta_D$	0.161002	0.16103 ± 0.00027
$\boldsymbol{y_{cal}}$	1.00030	1.0003 ± 0.0025	$\sigma_8/h^{0.5}$	1.0141	1.014 ± 0.019	z_{eq}	3426	3426 ± 51
$\boldsymbol{A_{217}^{CIB}}$	67.7	64.8 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.5081	2.509 ± 0.046	k_{eq}	0.010458	0.01046 ± 0.00016
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	z_{re}	9.24	$9.14^{+1.9}_{-1.6}$	$100\theta_{eq}$	0.8082	0.8085 ± 0.0095
$\boldsymbol{A_{143}^{tSZ}}$	7.15	4.91 ± 2.0	$10^9 A_s$	2.169	2.169 ± 0.076	$100\theta_{s,eq}$	0.44690	0.4470 ± 0.0049
$\boldsymbol{A_{100}^{PS}}$	255.9	263 ± 28	$10^9 A_s e^{-2\tau}$	1.8880	1.888 ± 0.014	$r_{drag}/D_V(0.57)$	0.07090	0.07092 ± 0.00075
$\boldsymbol{A_{143}^{PS}}$	40.6	45 ± 8	D_{40}	1245.0	1247 ± 16	$H(0.57)$	92.625	92.63 ± 0.42
$\boldsymbol{A_{143\times217}^{PS}}$	33.6	39^{+10}_{-10}	D_{220}	5721.6	5723 ± 41	$D_A(0.57)$	1400.2	1400 ± 13
$\boldsymbol{A_{217}^{PS}}$	97.7	97 ± 10	D_{810}	2536.2	2535 ± 14	$F_{AP}(0.57)$	0.67920	0.6792 ± 0.0036
$\boldsymbol{A^{kSZ}}$	0.00	< 5.13	D_{1420}	813.7	813.1 ± 5.2	$f\sigma_8(0.57)$	0.4845	0.4842 ± 0.0091
$\boldsymbol{A_{100}^{dustTT}}$	7.37	7.38 ± 1.9	D_{2000}	229.79	229.6 ± 1.9	$\sigma_8(0.57)$	0.6129	0.613 ± 0.011
$\boldsymbol{A_{143}^{dustTT}}$	9.05	9.01 ± 1.8	$n_{s,0.002}$	0.9608	0.9603 ± 0.0064	f_{2000}^{143}	30.59	31.1 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.78	17.1 ± 4.2	Y_P	0.245289	0.24528 ± 0.00011	$f_{2000}^{143\times217}$	33.06	33.3 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.6 ± 7.4	Y_P^{BBN}	0.246616	0.24661 ± 0.00011	f_{2000}^{217}	106.60	106.7 ± 2.0
$\boldsymbol{c_{100}}$	0.99794	0.99792 ± 0.00077	10^5D/H	2.6343	2.637 ± 0.044	χ^2_{lowEB}	5431.55	5432.4 ± 2.0
$\boldsymbol{c_{217}}$	0.99601	0.9960 ± 0.0014	Age/Gyr	13.8321	13.833 ± 0.039	χ^2_{plik}	763.7	777.5 ± 5.6
H_0	66.66	66.67 ± 0.99	z_*	1090.317	1090.34 ± 0.44	χ^2_{prior}	2.00	7.26 ± 3.5
Ω_Λ	0.6759	$0.676^{+0.015}_{-0.014}$	r_*	144.29	144.30 ± 0.50	χ^2_{CMB}	6195.2	6209.9 ± 5.5

Best-fit $\chi^2_{eff} = 6197.23$; $\bar{\chi}^2_{eff} = 6217.15$; $R - 1 = 0.00628$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5431.55 plik_dx11dr2_HM_v18_TT: 763.67

2.30 base_plikHM_TTTEEE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022214	0.02221 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.303 ± 0.084	10^5D/H	2.6208	2.622 ± 0.030
$\boldsymbol{\Omega_c h^2}$	0.12059	0.1205 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.156 ± 0.053	Age/Gyr	13.8222	13.823 ± 0.026
$\boldsymbol{100\theta_{MC}}$	1.040702	1.04069 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.340 ± 0.081	z_*	1090.169	1090.17 ± 0.30
$\boldsymbol{\tau}$	0.0728	0.073 ± 0.016	$\boldsymbol{A^{dustTE}_{217}}$	1.678	1.67 ± 0.25	r_*	144.398	144.43 ± 0.32
$\boldsymbol{\ln(10^{10}A_s)}$	3.0827	3.084 ± 0.032	$\boldsymbol{c_{100}}$	0.99823	0.99818 ± 0.00078	$100\theta_*$	1.040902	1.04089 ± 0.00031
$\boldsymbol{n_s}$	0.96160	0.9614 ± 0.0049	$\boldsymbol{c_{217}}$	0.99606	0.9961 ± 0.0015	D_A/Gpc	13.8724	13.876 ± 0.030
$\boldsymbol{y_{cal}}$	1.00025	1.0005 ± 0.0025	H_0	66.95	66.97 ± 0.66	z_{drag}	1059.628	1059.59 ± 0.32
$\boldsymbol{A^{CIB}_{217}}$	67.3	64.6 ± 6.6	Ω_Λ	0.6799	0.6803 ± 0.0093	r_{drag}	147.108	147.14 ± 0.32
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	Ω_m	0.3201	0.3197 ± 0.0093	k_D	0.140728	0.14068 ± 0.00033
$\boldsymbol{A^{tSZ}_{143}}$	7.13	5.20 ± 1.9	$\Omega_m h^2$	0.14345	0.1433 ± 0.0014	$100\theta_D$	0.160924	0.16094 ± 0.00019
$\boldsymbol{A^{PS}_{100}}$	259.0	264 ± 28	$\Omega_m h^3$	0.096035	0.09600 ± 0.00030	z_{eq}	3412.6	3410 ± 33
$\boldsymbol{A^{PS}_{143}}$	40.4	44 ± 8	σ_8	0.8283	0.828 ± 0.013	k_{eq}	0.010416	0.01041 ± 0.00010
$\boldsymbol{A^{PS}_{143\times217}}$	34.6	40^{+10}_{-10}	$\sigma_8\Omega_m^{0.5}$	0.4686	0.4683 ± 0.0099	$100\theta_{eq}$	0.8108	0.8113 ± 0.0063
$\boldsymbol{A^{PS}_{217}}$	97.9	97 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6230	0.623 ± 0.011	$100\theta_{s,eq}$	0.44821	0.4485 ± 0.0032
$\boldsymbol{A^{kSZ}}$	0.00	< 4.52	$\sigma_8/h^{0.5}$	1.0123	1.012 ± 0.016	$r_{drag}/D_V(0.57)$	0.071104	0.07113 ± 0.00050
$\boldsymbol{A^{dustTT}_{100}}$	7.39	7.34 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5071	2.508 ± 0.039	$H(0.57)$	92.741	92.75 ± 0.28
$\boldsymbol{A^{dustTT}_{143}}$	8.94	8.95 ± 1.8	z_{re}	9.53	$9.50^{+1.6}_{-1.4}$	$D_A(0.57)$	1396.4	1396.1 ± 8.9
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.58	17.1 ± 4.1	$10^9 A_s$	2.182	2.185 ± 0.070	$F_{AP}(0.57)$	0.67819	0.6781 ± 0.0023
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.7 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8862	1.886 ± 0.012	$f\sigma_8(0.57)$	0.4837	0.4836 ± 0.0078
$\boldsymbol{A^{dustEE}_{100}}$	0.0807	0.0808 ± 0.0057	D_{40}	1245.7	1248 ± 14	$\sigma_8(0.57)$	0.6141	0.6142 ± 0.0097
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04828	0.0484 ± 0.0050	D_{220}	5733.9	5738 ± 39	f^{143}_{2000}	30.03	30.4 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0994	0.0996 ± 0.033	D_{810}	2536.6	2537 ± 14	$f^{143\times217}_{2000}$	32.71	32.8 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.0995	0.0996 ± 0.0069	D_{1420}	814.07	814.0 ± 4.8	f^{217}_{2000}	106.26	106.4 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2240	0.224 ± 0.047	D_{2000}	230.01	229.9 ± 1.6	χ^2_{lowEB}	5431.90	5432.6 ± 2.0
$\boldsymbol{A^{dustEE}_{217}}$	0.649	0.65 ± 0.13	$n_{s,0.002}$	0.96160	0.9614 ± 0.0049	χ^2_{plik}	2432.3	2451.1 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1423	0.141 ± 0.038	Y_P	0.245324	0.245318 ± 0.000074	χ^2_{prior}	6.65	19.2 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1322	0.132 ± 0.029	Y_P^{BBN}	0.246650	0.246644 ± 0.000074	χ^2_{CMB}	7864.2	7883.7 ± 6.7

Best-fit $\chi^2_{eff} = 7870.83$; $\bar{\chi}^2_{eff} = 7902.90$; $R-1 = 0.00941$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5431.90 plik_dx11dr2_HM_v18_TTTEEE: 2432.28

2.31 base_plikHM_TT_tau07

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022215	0.02220 ± 0.00023	Ω_m	0.3202	0.321 ± 0.014	$100\theta_*$	1.040984	1.04098 ± 0.00047
$\boldsymbol{\Omega_c h^2}$	0.12066	0.1208 ± 0.0022	$\Omega_m h^2$	0.14352	0.1436 ± 0.0021	D_A/Gpc	13.8696	13.869 ± 0.046
$\boldsymbol{100\theta_{MC}}$	1.040786	1.04078 ± 0.00048	$\Omega_m h^3$	0.096086	0.09606 ± 0.00045	z_{drag}	1059.628	1059.59 ± 0.47
$\boldsymbol{\tau}$	0.0851	0.083 ± 0.018	σ_8	0.8389	0.838 ± 0.014	r_{drag}	147.091	147.09 ± 0.50
$\boldsymbol{\ln(10^{10} A_s)}$	3.1066	3.104 ± 0.035	$\sigma_8 \Omega_m^{0.5}$	0.4747	0.475 ± 0.014	k_D	0.14075	0.14074 ± 0.00053
$\boldsymbol{n_s}$	0.9626	0.9620 ± 0.0063	$\sigma_8 \Omega_m^{0.25}$	0.6310	0.630 ± 0.014	$100\theta_D$	0.160934	0.16096 ± 0.00027
$\boldsymbol{A_{217}^{CIB}}$	67.0	64.0 ± 6.6	$\sigma_8/h^{0.5}$	1.0252	1.024 ± 0.020	z_{eq}	3414	3416 ± 51
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\langle d^2 \rangle^{1/2}$	2.5356	2.534 ± 0.048	k_{eq}	0.010421	0.01043 ± 0.00015
$\boldsymbol{A_{143}^{tSZ}}$	7.16	5.02 ± 1.9	z_{re}	10.65	$10.4^{+1.8}_{-1.5}$	$100\theta_{eq}$	0.8106	0.8104 ± 0.0094
$\boldsymbol{A_{100}^{PS}}$	255.0	260 ± 28	$10^9 A_s$	2.235	2.229 ± 0.078	$100\theta_{s,eq}$	0.44810	0.4480 ± 0.0049
$\boldsymbol{A_{143}^{PS}}$	39.1	44 ± 8	$10^9 A_s e^{-2\tau}$	1.8850	1.885 ± 0.014	$r_{drag}/D_V(0.57)$	0.07110	0.07108 ± 0.00074
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39 ± 10	D_{40}	1247.6	1249 ± 16	$H(0.57)$	92.755	92.74 ± 0.41
$\boldsymbol{A_{217}^{PS}}$	97.7	97 ± 10	D_{220}	5723.6	5725 ± 41	$D_A(0.57)$	1396.2	1397 ± 13
$\boldsymbol{A^{kSZ}}$	0.00	< 4.89	D_{810}	2534.4	2534 ± 14	$F_{AP}(0.57)$	0.67822	0.6784 ± 0.0035
$\boldsymbol{A_{100}^{dustTT}}$	7.25	7.36 ± 1.9	D_{1420}	813.6	813.2 ± 5.2	$f\sigma_8(0.57)$	0.4899	0.4894 ± 0.0096
$\boldsymbol{A_{143}^{dustTT}}$	8.91	8.95 ± 1.8	D_{2000}	230.20	230.0 ± 1.9	$\sigma_8(0.57)$	0.6219	0.621 ± 0.011
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.56	17.1 ± 4.1	$n_{s,0.002}$	0.9626	0.9620 ± 0.0063	f_{2000}^{143}	29.82	30.4 ± 2.9
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.4	Y_P	0.245324	0.24531 ± 0.00010	$f_{2000}^{143\times217}$	32.38	32.7 ± 2.1
$\boldsymbol{c_{100}}$	0.99794	0.99792 ± 0.00077	Y_P^{BBN}	0.246650	0.24664 ± 0.00011	f_{2000}^{217}	106.06	106.3 ± 2.0
$\boldsymbol{c_{217}}$	0.99596	0.9959 ± 0.0014	10^5D/H	2.6207	2.625 ± 0.044	χ^2_{plik}	762.4	776.4 ± 5.5
$\boldsymbol{y_{cal}}$	1.00021	1.0002 ± 0.0025	Age/Gyr	13.8199	13.822 ± 0.038	χ^2_{prior}	2.54	8.55 ± 3.9
H_0	66.95	66.91 ± 0.98	z_*	1090.173	1090.21 ± 0.43			
Ω_Λ	0.6798	$0.679^{+0.015}_{-0.014}$	r_*	144.380	144.37 ± 0.50			

Best-fit $\chi^2_{eff} = 764.91$; $\bar{\chi}^2_{eff} = 784.98$; $R - 1 = 0.00877$
χ^2_{eff}: CMB - plik_dx11dr2_HM_v18_TT: 762.36

2.32 base_plikHM_TTTEEE_tau07

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022256	0.02224 ± 0.00016	$\boldsymbol{A_{143}^{dust\,TE}}$	0.154	0.154 ± 0.053	10^5D/H	2.6129	2.616 ± 0.030
$\boldsymbol{\Omega_c h^2}$	0.12009	0.1202 ± 0.0015	$\boldsymbol{A_{143\times217}^{dust\,TE}}$	0.337	0.338 ± 0.081	Age/Gyr	13.8150	13.817 ± 0.026
$\boldsymbol{100\theta_{MC}}$	1.040726	1.04073 ± 0.00032	$\boldsymbol{A_{217}^{dust\,TE}}$	1.672	1.67 ± 0.26	z_*	1090.071	1090.11 ± 0.30
$\boldsymbol{\tau}$	0.0883	0.086 ± 0.016	$\boldsymbol{c_{100}}$	0.99822	0.99821 ± 0.00077	r_*	144.496	144.48 ± 0.33
$\boldsymbol{\ln(10^{10} A_s)}$	3.1123	3.108 ± 0.031	$\boldsymbol{c_{217}}$	0.99593	0.9960 ± 0.0014	$100\theta_*$	1.040927	1.04093 ± 0.00031
$\boldsymbol{n_s}$	0.96328	0.9625 ± 0.0049	$\boldsymbol{y_{cal}}$	1.00013	1.0003 ± 0.0025	D_A/Gpc	13.8815	13.880 ± 0.030
$\boldsymbol{A_{217}^{CIB}}$	65.7	64.0 ± 6.6	H_0	67.17	67.12 ± 0.66	z_{drag}	1059.666	1059.65 ± 0.31
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.18	—	Ω_Λ	0.6830	0.6822 ± 0.0092	r_{drag}	147.197	147.18 ± 0.32
$\boldsymbol{A_{143}^{tSZ}}$	7.06	5.30 ± 1.9	Ω_m	0.3170	0.3178 ± 0.0092	k_D	0.140668	0.14067 ± 0.00034
$\boldsymbol{A_{100}^{PS}}$	255.8	262 ± 28	$\Omega_m h^2$	0.14299	0.1431 ± 0.0014	$100\theta_D$	0.160886	0.16091 ± 0.00018
$\boldsymbol{A_{143}^{PS}}$	41.4	44 ± 8	$\Omega_m h^3$	0.096039	0.09603 ± 0.00030	z_{eq}	3401.6	3404 ± 33
$\boldsymbol{A_{143\times217}^{PS}}$	38.0	40^{+10}_{-10}	σ_8	0.8393	0.838 ± 0.013	k_{eq}	0.010382	0.01039 ± 0.00010
$\boldsymbol{A_{217}^{PS}}$	99.8	98 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4725	0.4722 ± 0.0099	$100\theta_{eq}$	0.8129	0.8125 ± 0.0063
$\boldsymbol{A^{kSZ}}$	0.00	< 4.30	$\sigma_8\Omega_m^{0.25}$	0.6298	0.629 ± 0.011	$100\theta_{s,eq}$	0.44928	0.4491 ± 0.0032
$\boldsymbol{A_{100}^{dust\,TT}}$	7.31	7.35 ± 1.9	$\sigma_8/h^{0.5}$	1.0241	1.023 ± 0.016	$r_{drag}/D_V(0.57)$	0.071268	0.07124 ± 0.00049
$\boldsymbol{A_{143}^{dust\,TT}}$	8.95	8.89 ± 1.8	$\langle d^2\rangle^{1/2}$	2.5355	2.533 ± 0.039	$H(0.57)$	92.828	92.81 ± 0.28
$\boldsymbol{A_{143\times217}^{dust\,TT}}$	17.70	17.0 ± 4.1	z_{re}	10.91	$10.6^{+1.6}_{-1.3}$	$D_A(0.57)$	1393.5	1394.2 ± 8.8
$\boldsymbol{A_{217}^{dust\,TT}}$	82.2	81.6 ± 7.4	$10^9 A_s$	2.247	2.238 ± 0.070	$F_{AP}(0.57)$	0.67741	0.6776 ± 0.0023
$\boldsymbol{A_{100}^{dust\,EE}}$	0.0812	0.0808 ± 0.0057	$10^9 A_s e^{-2\tau}$	1.8836	1.884 ± 0.012	$f\sigma_8(0.57)$	0.4894	0.4886 ± 0.0078
$\boldsymbol{A_{100\times143}^{dust\,EE}}$	0.04843	0.0483 ± 0.0049	D_{40}	1248.5	1250 ± 14	$\sigma_8(0.57)$	0.6230	0.6216 ± 0.0097
$\boldsymbol{A_{100\times217}^{dust\,EE}}$	0.0987	0.0998 ± 0.032	D_{220}	5733.5	5736 ± 40	f_{2000}^{143}	29.25	29.9 ± 2.7
$\boldsymbol{A_{143}^{dust\,EE}}$	0.0997	0.0995 ± 0.0069	D_{810}	2534.7	2535 ± 14	$f_{2000}^{143\times217}$	32.16	32.4 ± 1.9
$\boldsymbol{A_{143\times217}^{dust\,EE}}$	0.2228	0.223 ± 0.047	D_{1420}	813.84	813.6 ± 4.9	f_{2000}^{217}	105.70	106.0 ± 1.9
$\boldsymbol{A_{217}^{dust\,EE}}$	0.651	0.65 ± 0.13	D_{2000}	230.33	230.2 ± 1.7	χ^2_{plik}	2430.6	2449.8 ± 6.7
$\boldsymbol{A_{100}^{dust\,TE}}$	0.1403	0.141 ± 0.038	$n_{s,0.002}$	0.96328	0.9625 ± 0.0049	χ^2_{prior}	7.57	20 ± 6
$\boldsymbol{A_{100\times143}^{dust\,TE}}$	0.1313	0.131 ± 0.029	Y_P	0.245342	0.245333 ± 0.000072			
$\boldsymbol{A_{100\times217}^{dust\,TE}}$	0.305	0.304 ± 0.085	Y_P^{BBN}	0.246669	0.246659 ± 0.000072			

Best-fit $\chi^2_{eff} = 2438.15$; $\bar{\chi}^2_{eff} = 2470.25$; $R - 1 = 0.01136$
χ^2_{eff}: CMB - plik_dx11dr2_HM_v18_TTTEEE: 2430.59

2.33 base_CamSpecHM_TT_tau07

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02221 \pm 0.00023 \quad (+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	z_*	$1090.15 \pm 0.43 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1204 \pm 0.0022 \quad (-0.2\sigma)$	H_0	$67.05 \pm 0.98 \quad (+0.1\sigma)$	r_*	$144.45 \pm 0.49 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04083 \pm 0.00047 \quad (+0.1\sigma)$	Ω_Λ	$0.681^{+0.015}_{-0.013} \quad (+0.2\sigma)$	$100\theta_*$	$1.04104 \pm 0.00046 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.084 \pm 0.018 \quad (+0.0\sigma)$	Ω_m	$0.319 \pm 0.014 \quad (-0.2\sigma)$	z_{drag}	$1059.57 \pm 0.45 \quad (-0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.102 \pm 0.035 \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1433 \pm 0.0021 \quad (-0.2\sigma)$	r_{drag}	$147.17 \pm 0.49 \quad (+0.2\sigma)$
$\boldsymbol{n_s}$	$0.9645 \pm 0.0064 \quad (+0.4\sigma)$	$\Omega_m h^3$	$0.09604 \pm 0.00045 \quad (-0.0\sigma)$	k_D	$0.14067 \pm 0.00052 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 22 \quad (-0.5\sigma)$	σ_8	$0.837 \pm 0.014 \quad (-0.1\sigma)$	$100\theta_D$	$0.16095 \pm 0.00026 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.472 \pm 0.014 \quad (-0.2\sigma)$	z_{eq}	$3408 \pm 50 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.629 \pm 0.014 \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.8118 \pm 0.0094 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$\sigma_8/h^{0.5}$	$1.022 \pm 0.020 \quad (-0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07120 \pm 0.00074 \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.18^{+1.3}_{-2.5} \quad (-0.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.523 \pm 0.047 \quad (-0.2\sigma)$	$H(0.57)$	$92.79^{+0.39}_{-0.44} \quad (+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	z_{re}	$10.5^{+1.7}_{-1.5} \quad (+0.0\sigma)$	$D_A(0.57)$	$1395 \pm 13 \quad (-0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.593 \quad (-0.2\sigma)$	$10^9 A_s$	$2.225 \pm 0.077 \quad (-0.1\sigma)$	$F_{AP}(0.57)$	$0.6779 \pm 0.0035 \quad (-0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.42^{+3.9}_{-2.0} \quad (+0.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.879 \pm 0.014 \quad (-0.4\sigma)$	$f\sigma_8(0.57)$	$0.4882 \pm 0.0095 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{40}	$1240 \pm 16 \quad (-0.6\sigma)$	$\sigma_8(0.57)$	$0.621 \pm 0.011 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{220}	$5702 \pm 41 \quad (-0.6\sigma)$	Y_P^{BBN}	$0.246230 \pm 0.000098 \quad (-3.9\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{810}	$2529 \pm 14 \quad (-0.3\sigma)$	f_{2000}^{143}	$29.1 \pm 2.9 \quad (-0.4\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	D_{1420}	$812.8 \pm 5.1 \quad (-0.1\sigma)$	f_{2000}^{217}	$106.5 \pm 2.0 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0000 \pm 0.0025 \quad (-0.1\sigma)$	$n_{s,0.002}$	$0.9645 \pm 0.0064 \quad (+0.4\sigma)$	$f_{2000}^{143\times217}$	$31.9 \pm 2.1 \quad (-0.4\sigma)$
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00096 \quad (-1.4\sigma)$	Y_P	$0.244904 \pm 0.000095 \quad (-3.9\sigma)$	$\chi^2_{CamSpec}$	8058.7 ± 5.6
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.9\sigma)$	Age/Gyr	$13.818 \pm 0.038 \quad (-0.1\sigma)$	χ^2_{prior}	$9.61 \pm 3.9 \quad (+0.3\sigma)$

$\bar{\chi}^2_{eff} = 8068.30$; $\Delta\bar{\chi}^2_{eff} = 7283.32$; $R - 1 = 0.00531$

2.34 base_plikHM_TT_lowl

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022491	0.02240 ± 0.00027	Ω_m	0.3002	$0.305^{+0.015}_{-0.017}$	$100\theta_*$	1.04136	1.04127 ± 0.00051
$\boldsymbol{\Omega_c h^2}$	0.11747	0.1181 ± 0.0026	$\Omega_m h^2$	0.14060	0.1411 ± 0.0024	D_A/Gpc	13.924	13.917 ± 0.050
$\boldsymbol{100\theta_{MC}}$	1.04119	1.04109 ± 0.00053	$\Omega_m h^3$	0.096230	0.09612 ± 0.00046	z_{drag}	1060.05	1059.87 ± 0.52
$\boldsymbol{\tau}$	0.1250	$0.112^{+0.036}_{-0.032}$	σ_8	0.8610	0.852 ± 0.023	r_{drag}	147.63	147.57 ± 0.53
$\boldsymbol{\ln(10^{10} A_s)}$	3.179	$3.154^{+0.068}_{-0.060}$	$\sigma_8 \Omega_m^{0.5}$	0.4718	0.470 ± 0.014	k_D	0.14039	0.14038 ± 0.00053
$\boldsymbol{n_s}$	0.9742	0.9711 ± 0.0079	$\sigma_8 \Omega_m^{0.25}$	0.6373	0.633 ± 0.016	$100\theta_D$	0.160715	0.16081 ± 0.00029
$\boldsymbol{y_{cal}}$	1.00027	1.0002 ± 0.0025	$\sigma_8/h^{0.5}$	1.0408	1.032 ± 0.025	z_{eq}	3345	3357 ± 58
$\boldsymbol{A_{217}^{CIB}}$	61.1	62.3 ± 6.7	$\langle d^2 \rangle^{1/2}$	2.567	$2.550^{+0.064}_{-0.057}$	k_{eq}	0.010208	0.01025 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.56	—	z_{re}	13.76	$12.6^{+3.1}_{-2.2}$	$100\theta_{eq}$	0.8243	0.822 ± 0.011
$\boldsymbol{A_{143}^{tSZ}}$	6.84	$5.43^{+2.1}_{-1.9}$	$10^9 A_s$	2.402	2.35 ± 0.15	$100\theta_{s,eq}$	0.4550	0.4538 ± 0.0058
$\boldsymbol{A_{100}^{PS}}$	242.9	252 ± 30	$10^9 A_s e^{-2\tau}$	1.8705	1.872 ± 0.015	$r_{drag}/D_V(0.57)$	0.07221	0.07201 ± 0.00091
$\boldsymbol{A_{143}^{PS}}$	43.0	41 ± 8	D_{40}	1242.3	1244 ± 16	$H(0.57)$	93.39	93.25 ± 0.54
$\boldsymbol{A_{143\times217}^{PS}}$	46.1	39 ± 10	D_{220}	5722.1	5721 ± 41	$D_A(0.57)$	1376.4	1381 ± 16
$\boldsymbol{A_{217}^{PS}}$	104.1	98 ± 10	D_{810}	2531.6	2530 ± 14	$F_{AP}(0.57)$	0.67314	0.6742 ± 0.0041
$\boldsymbol{A^{kSZ}}$	0.00	< 3.84	D_{1420}	816.5	814.9 ± 5.0	$f\sigma_8(0.57)$	0.4975	0.493 ± 0.012
$\boldsymbol{A_{100}^{dustTT}}$	7.31	7.40 ± 1.9	D_{2000}	232.38	231.4 ± 2.1	$\sigma_8(0.57)$	0.6435	0.636 ± 0.019
$\boldsymbol{A_{143}^{dustTT}}$	9.07	8.95 ± 1.9	$n_{s,0.002}$	0.9742	0.9711 ± 0.0079	f_{2000}^{143}	26.65	28 ± 3
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.99	16.9 ± 4.2	Y_P	0.245446	0.24540 ± 0.00012	$f_{2000}^{143\times217}$	30.07	30.9 ± 2.4
$\boldsymbol{A_{217}^{dustTT}}$	82.9	81.9 ± 7.4	Y_P^{BBN}	0.246773	0.24673 ± 0.00012	f_{2000}^{217}	103.68	104.7 ± 2.3
$\boldsymbol{c_{100}}$	0.99796	0.99788 ± 0.00078	10^5D/H	2.569	2.586 ± 0.051	χ^2_{lowl}	15.39	15.6 ± 1.8
$\boldsymbol{c_{217}}$	0.99555	0.9958 ± 0.0015	Age/Gyr	13.7664	13.781 ± 0.048	χ^2_{plik}	761.1	775.6 ± 5.7
H_0	68.44	68.1 ± 1.2	z_*	1089.55	1089.72 ± 0.52	χ^2_{prior}	1.58	7.24 ± 3.5
Ω_Λ	0.6998	$0.695^{+0.017}_{-0.015}$	r_*	145.00	144.91 ± 0.55	χ^2_{CMB}	776.5	791.1 ± 5.5

Best-fit $\chi^2_{eff} = 778.06$; $\bar{\chi}^2_{eff} = 798.39$; $R - 1 = 0.00655$

χ^2_{eff}: CMB - commander_rc2_v1.1_l2_29_B: 15.39 plik_dx11dr2_HM_v18_TT: 761.09

2.35 base_plikHM_TT_lowl_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022416	0.02237 ± 0.00021	$\Omega_m h^3$	0.096169	0.09611 ± 0.00046	k_D	0.140484	0.14044 ± 0.00044
$\boldsymbol{\Omega_c h^2}$	0.11831	0.1185 ± 0.0013	σ_8	0.8571	0.851 ± 0.022	$100\theta_D$	0.160765	0.16083 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.041028	1.04103 ± 0.00043	$\sigma_8\Omega_m^{0.5}$	0.4738	0.471 ± 0.012	z_{eq}	3362.9	3367 ± 30
$\boldsymbol{\tau}$	0.1164	$0.108^{+0.030}_{-0.026}$	$\sigma_8\Omega_m^{0.25}$	0.6372	0.633 ± 0.016	k_{eq}	0.010264	0.010275 ± 0.000093
$\boldsymbol{\ln(10^{10}A_s)}$	3.164	$3.147^{+0.058}_{-0.051}$	$\sigma_8/h^{0.5}$	1.0392	1.032 ± 0.026	$100\theta_{eq}$	0.8206	0.8198 ± 0.0058
$\boldsymbol{n_s}$	0.9720	0.9698 ± 0.0050	$\langle d^2\rangle^{1/2}$	2.562	$2.549^{+0.065}_{-0.058}$	$100\theta_{s,eq}$	0.45316	0.4528 ± 0.0030
$\boldsymbol{y_{cal}}$	1.00039	1.0003 ± 0.0025	z_{re}	13.14	$12.4^{+2.6}_{-1.9}$	$r_{drag}/D_V(0.57)$	0.071903	0.07184 ± 0.00045
$\boldsymbol{A_{217}^{CIB}}$	61.7	62.5 ± 6.7	$10^9 A_s$	2.366	2.33 ± 0.12	$H(0.57)$	93.203	93.15 ± 0.29
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.55	—	$10^9 A_s e^{-2\tau}$	1.8744	1.874 ± 0.012	$D_A(0.57)$	1381.9	1383.5 ± 8.3
$\boldsymbol{A_{143}^{tSZ}}$	6.78	$5.37^{+2.1}_{-1.9}$	D_{40}	1241.9	1244 ± 16	$F_{AP}(0.57)$	0.67451	0.6749 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	244.9	253 ± 28	D_{220}	5717.9	5720 ± 41	$f\sigma_8(0.57)$	0.4967	0.493 ± 0.012
$\boldsymbol{A_{143}^{PS}}$	44.0	41 ± 8	D_{810}	2532.9	2531 ± 14	$\sigma_8(0.57)$	0.6392	0.634 ± 0.017
$\boldsymbol{A_{143\times217}^{PS}}$	46.5	39 ± 10	D_{1420}	816.28	814.7 ± 4.9	f_{2000}^{143}	27.19	28.3 ± 3.1
$\boldsymbol{A_{217}^{PS}}$	104.1	98 ± 10	D_{2000}	232.06	231.3 ± 1.9	$f_{2000}^{143\times217}$	30.51	31.0 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.00	< 3.91	$n_{s,0.002}$	0.9720	0.9698 ± 0.0050	f_{2000}^{217}	104.11	104.9 ± 2.1
$\boldsymbol{A_{100}^{dustTT}}$	7.32	7.43 ± 1.9	Y_P	0.245413	0.245390 ± 0.000094	χ^2_{lowl}	15.25	15.5 ± 1.7
$\boldsymbol{A_{143}^{dustTT}}$	9.03	8.93 ± 1.8	Y_P^{BBN}	0.246739	0.246716 ± 0.000094	χ^2_{plik}	761.4	774.9 ± 5.6
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.94	16.9 ± 4.1	10^5D/H	2.5828	2.592 ± 0.039	χ^2_{6DF}	0.0010	0.050 ± 0.070
$\boldsymbol{A_{217}^{dustTT}}$	82.7	81.8 ± 7.3	Age/Gyr	13.7823	13.788 ± 0.030	χ^2_{MGS}	1.61	1.58 ± 0.61
$\boldsymbol{c_{100}}$	0.99798	0.99789 ± 0.00078	z_*	1089.718	1089.80 ± 0.32	$\chi^2_{DR11CMASS}$	2.441	2.91 ± 0.73
$\boldsymbol{c_{217}}$	0.99560	0.9958 ± 0.0015	r_*	144.834	144.82 ± 0.32	$\chi^2_{DR11LOWZ}$	0.325	0.55 ± 0.54
H_0	68.02	67.91 ± 0.61	$100\theta_*$	1.041213	1.04122 ± 0.00042	χ^2_{prior}	1.52	7.19 ± 3.5
Ω_Λ	0.6945	0.6930 ± 0.0080	D_A/Gpc	13.9101	13.909 ± 0.032	χ^2_{BAO}	4.38	5.10 ± 1.1
Ω_m	0.3055	0.3070 ± 0.0080	z_{drag}	1059.933	1059.82 ± 0.46	χ^2_{CMB}	776.7	790.4 ± 5.4
$\Omega_m h^2$	0.14137	0.1415 ± 0.0013	r_{drag}	147.487	147.49 ± 0.35			

Best-fit $\chi^2_{eff} = 782.58$; $\bar{\chi}^2_{eff} = 802.73$; $R - 1 = 0.00934$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.33 CMB - commander_rc2_v1.1_l2_29_B: 15.25 plik_dx11dr2_HM_v18_TT: 761.44

2.36 base_plikHM_TT_lowl_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022444	0.02239 ± 0.00021	σ_8	0.8573	0.852 ± 0.022	$z_{\rm eq}$	3361.6	3361 ± 29
$\boldsymbol{\Omega_c h^2}$	0.11823	0.1182 ± 0.0013	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4732	0.471 ± 0.012	$k_{\rm eq}$	0.010260	0.010258 ± 0.000090
$\boldsymbol{100\theta_{\rm MC}}$	1.041128	1.04107 ± 0.00042	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6369	0.633 ± 0.016	$100\theta_{\rm eq}$	0.8210	0.8210 ± 0.0056
$\boldsymbol{\tau}$	0.1172	$0.111^{+0.029}_{-0.026}$	$\sigma_8/h^{0.5}$	1.0388	1.033 ± 0.026	$100\theta_{\rm s,eq}$	0.45334	0.4534 ± 0.0029
$\boldsymbol{\ln(10^{10}A_s)}$	3.165	$3.152^{+0.057}_{-0.050}$	$\langle d^2\rangle^{1/2}$	2.564	$2.550^{+0.065}_{-0.058}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071956	$0.07193^{+0.00042}_{-0.00047}$
$\boldsymbol{n_s}$	0.97161	0.9706 ± 0.0049	$z_{\rm re}$	13.19	$12.6^{+2.5}_{-1.8}$	$H(0.57)$	93.255	93.20 ± 0.29
$\boldsymbol{y_{\rm cal}}$	1.00026	1.0003 ± 0.0024	$10^9 A_{\rm s}$	2.369	2.34 ± 0.12	$D_{\rm A}(0.57)$	1380.7	1381.7 ± 8.0
$\boldsymbol{A_{217}^{\rm CIB}}$	62.9	62.3 ± 6.7	$10^9 A_{\rm s} e^{-2\tau}$	1.8740	1.873 ± 0.012	$F_{\rm AP}(0.57)$	0.67428	0.6744 ± 0.0020
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.37	—	D_{40}	1243.7	1243 ± 16	$f\sigma_8(0.57)$	0.4966	0.493 ± 0.012
$\boldsymbol{A_{143}^{\rm tSZ}}$	6.89	5.40 ± 1.9	D_{220}	5723.1	5721 ± 41	$\sigma_8(0.57)$	0.6395	0.635 ± 0.017
$\boldsymbol{A_{100}^{\rm PS}}$	245.7	252 ± 28	D_{810}	2532.4	2531 ± 14	f_{2000}^{143}	27.17	28.1 ± 3.1
$\boldsymbol{A_{143}^{\rm PS}}$	40.7	41 ± 8	D_{1420}	816.01	814.9 ± 4.8	$f_{2000}^{143\times217}$	30.39	30.9 ± 2.2
$\boldsymbol{A_{143\times217}^{PS}}$	41.0	38 ± 10	D_{2000}	232.00	231.4 ± 1.9	f_{2000}^{217}	104.08	104.7 ± 2.1
$\boldsymbol{A_{217}^{\rm PS}}$	101.7	98 ± 10	$n_{\rm s,0.002}$	0.97161	0.9706 ± 0.0049	$\chi^2_{\rm lowl}$	15.46	15.5 ± 1.7
$\boldsymbol{A^{\rm kSZ}}$	0.02	< 3.83	$Y_{\rm P}$	0.245425	0.245402 ± 0.000092	$\chi^2_{\rm plik}$	761.0	774.8 ± 5.6
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.32	7.43 ± 1.9	$Y_{\rm P}^{\rm BBN}$	0.246752	0.246728 ± 0.000093	$\chi^2_{\rm H070p6}$	0.565	0.62 ± 0.27
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	8.96	8.92 ± 1.8	10^5D/H	2.5775	2.587 ± 0.039	$\chi^2_{\rm JLA}$	706.587	706.65 ± 0.16
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.40	16.9 ± 4.1	Age/Gyr	13.7765	13.783 ± 0.030	$\chi^2_{\rm 6DF}$	0.0001	0.043 ± 0.061
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.8	81.9 ± 7.3	z_*	1089.673	1089.74 ± 0.31	$\chi^2_{\rm MGS}$	1.68	1.71 ± 0.61
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00079	r_*	144.834	144.87 ± 0.32	$\chi^2_{\rm DR11CMASS}$	2.475	2.92 ± 0.73
$\boldsymbol{c_{217}}$	0.99560	0.9958 ± 0.0015	$100\theta_*$	1.041299	1.04125 ± 0.00042	$\chi^2_{\rm DR11LOWZ}$	0.277	0.44 ± 0.45
H_0	68.11	68.04 ± 0.59	$D_{\rm A}$/Gpc	13.9090	13.913 ± 0.031	$\chi^2_{\rm prior}$	1.75	7.18 ± 3.5
Ω_Λ	0.6954	0.6947 ± 0.0077	$z_{\rm drag}$	1059.971	1059.86 ± 0.45	$\chi^2_{\rm BAO}$	4.43	5.12 ± 1.1
$\Omega_{\rm m}$	0.3046	0.3053 ± 0.0077	$r_{\rm drag}$	147.480	147.53 ± 0.34	$\chi^2_{\rm CMB}$	776.5	790.4 ± 5.4
$\Omega_{\rm m}h^2$	0.14132	0.1413 ± 0.0012	$k_{\rm D}$	0.140513	0.14042 ± 0.00044			
$\Omega_{\rm m}h^3$	0.096247	0.09613 ± 0.00046	$100\theta_{\rm D}$	0.160744	0.16081 ± 0.00026			

Best-fit $\chi^2_{\rm eff} = 1489.81$; $\bar{\chi}^2_{\rm eff} = 1509.93$; $R - 1 = 0.00850$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.68 DR11CMASS: 2.48 DR11LOWZ: 0.28 CMB - commander_rc2_v1.1_l2_29_B: 15.46 plik_dx11dr2_HM_v18_TT: 761.02 Hubble - H070p6: 0.56 SN - JLA December_2013: 706.59

2.37 base_plikHM_TT_lowl_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.02241 ± 0.00027	$\Omega_{\rm m}$	$0.304^{+0.015}_{-0.017}$	$100\theta_*$	1.04129 ± 0.00050
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1180 ± 0.0025	$\Omega_{\rm m}h^2$	0.1410 ± 0.0024	$D_{\rm A}$/Gpc	13.918 ± 0.049
$\boldsymbol{100\theta_{\rm MC}}$	1.04111 ± 0.00052	$\Omega_{\rm m}h^3$	0.09613 ± 0.00046	$z_{\rm drag}$	1059.88 ± 0.51
$\boldsymbol{\tau}$	0.114 ± 0.031	σ_8	0.853 ± 0.021	$r_{\rm drag}$	147.58 ± 0.52
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.158 ± 0.058	$\sigma_8\Omega_{\rm m}^{0.5}$	0.470 ± 0.013	$k_{\rm D}$	0.14038 ± 0.00052
$\boldsymbol{n_{\rm s}}$	0.9714 ± 0.0078	$\sigma_8\Omega_{\rm m}^{0.25}$	0.633 ± 0.015	$100\theta_{\rm D}$	0.16080 ± 0.00028
$\boldsymbol{y_{\rm cal}}$	1.0002 ± 0.0025	$\sigma_8/h^{0.5}$	1.034 ± 0.024	$z_{\rm eq}$	3355 ± 56
$\boldsymbol{A_{217}^{\rm CIB}}$	62.3 ± 6.7	$\langle d^2\rangle^{1/2}$	2.553 ± 0.057	$k_{\rm eq}$	0.01024 ± 0.00017
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	$z_{\rm re}$	$12.8^{+2.8}_{-2.2}$	$100\theta_{\rm eq}$	0.822 ± 0.011
$\boldsymbol{A_{143}^{\rm tSZ}}$	$5.46^{+2.1}_{-1.8}$	$10^9A_{\rm s}$	2.36 ± 0.14	$100\theta_{\rm s,eq}$	0.4540 ± 0.0056
$\boldsymbol{A_{100}^{\rm PS}}$	251 ± 30	$10^9A_{\rm s}e^{-2\tau}$	1.872 ± 0.015	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07204 ± 0.00089
$\boldsymbol{A_{143}^{\rm PS}}$	41 ± 8	D_{40}	1244 ± 16	$H(0.57)$	93.27 ± 0.52
$\boldsymbol{A_{143\times217}^{PS}}$	38 ± 10	D_{220}	5721 ± 41	$D_{\rm A}(0.57)$	1380 ± 16
$\boldsymbol{A_{217}^{\rm PS}}$	98 ± 10	D_{810}	2530 ± 14	$F_{\rm AP}(0.57)$	0.6741 ± 0.0040
$\boldsymbol{A^{\rm kSZ}}$	< 3.76	D_{1420}	815.0 ± 5.0	$f\sigma_8(0.57)$	0.494 ± 0.012
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.40 ± 1.9	D_{2000}	231.5 ± 2.0	$\sigma_8(0.57)$	0.637 ± 0.018
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	8.93 ± 1.8	$n_{\rm s,0.002}$	0.9714 ± 0.0078	f_{2000}^{143}	28 ± 3
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	16.9 ± 4.1	$Y_{\rm P}$	0.24541 ± 0.00012	$f_{2000}^{143\times217}$	30.8 ± 2.4
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.9 ± 7.4	$Y_{\rm P}^{\rm BBN}$	0.24674 ± 0.00012	f_{2000}^{217}	104.6 ± 2.2
$\boldsymbol{c_{100}}$	0.99788 ± 0.00078	10^5D/H	2.584 ± 0.050	$\chi^2_{\rm lowl}$	15.6 ± 1.7
$\boldsymbol{c_{217}}$	0.9958 ± 0.0015	Age/Gyr	13.779 ± 0.046	$\chi^2_{\rm plik}$	775.3 ± 5.5
H_0	68.2 ± 1.2	z_*	1089.70 ± 0.51	$\chi^2_{\rm prior}$	7.20 ± 3.5
Ω_Λ	$0.696^{+0.017}_{-0.015}$	r_*	144.92 ± 0.54	$\chi^2_{\rm CMB}$	790.9 ± 5.4

$\bar{\chi}^2_{\rm eff} = 798.12$; $R - 1 = 0.00960$

2.38 base_plikHM_TT_lowl_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02237 ± 0.00021	$\Omega_m h^3$	0.09612 ± 0.00046	k_D	0.14044 ± 0.00044
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0013	σ_8	0.851 ± 0.021	$100\theta_D$	0.16083 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.04103 ± 0.00042	$\sigma_8\Omega_m^{0.5}$	0.471 ± 0.012	z_{eq}	3366 ± 30
$\boldsymbol{\tau}$	0.109 ± 0.026	$\sigma_8\Omega_m^{0.25}$	0.634 ± 0.015	k_{eq}	0.010275 ± 0.000093
$\boldsymbol{\ln(10^{10}A_s)}$	3.149 ± 0.051	$\sigma_8/h^{0.5}$	1.033 ± 0.025	$100\theta_{eq}$	0.8199 ± 0.0057
$\boldsymbol{n_s}$	0.9699 ± 0.0050	$\langle d^2\rangle^{1/2}$	2.551 ± 0.059	$100\theta_{s,eq}$	0.4528 ± 0.0029
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0024	z_{re}	$12.5^{+2.4}_{-1.9}$	$r_{drag}/D_V(0.57)$	0.07184 ± 0.00045
$\boldsymbol{A_{217}^{CIB}}$	62.4 ± 6.7	$10^9 A_s$	2.33 ± 0.12	$H(0.57)$	93.15 ± 0.29
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s e^{-2\tau}$	1.874 ± 0.012	$D_A(0.57)$	1383.4 ± 8.2
$\boldsymbol{A_{143}^{tSZ}}$	5.38 ± 1.9	D_{40}	1244 ± 16	$F_{AP}(0.57)$	0.6748 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	253 ± 28	D_{220}	5720 ± 41	$f\sigma_8(0.57)$	0.494 ± 0.012
$\boldsymbol{A_{143}^{PS}}$	41 ± 8	D_{810}	2531 ± 14	$\sigma_8(0.57)$	0.634 ± 0.016
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{1420}	814.7 ± 4.8	f_{2000}^{143}	28.3 ± 3.0
$\boldsymbol{A_{217}^{PS}}$	98 ± 10	D_{2000}	231.3 ± 1.8	$f_{2000}^{143\times217}$	31.0 ± 2.2
$\boldsymbol{A^{kSZ}}$	< 3.88	$n_{s,0.002}$	0.9699 ± 0.0050	f_{2000}^{217}	104.8 ± 2.1
$\boldsymbol{A_{100}^{dustTT}}$	7.42 ± 1.9	Y_P	0.245391 ± 0.000093	χ^2_{lowl}	15.6 ± 1.7
$\boldsymbol{A_{143}^{dustTT}}$	8.93 ± 1.8	Y_P^{BBN}	0.246718 ± 0.000093	χ^2_{plik}	774.8 ± 5.5
$\boldsymbol{A_{143\times217}^{dustTT}}$	16.9 ± 4.1	10^5D/H	2.592 ± 0.039	χ^2_{6DF}	0.049 ± 0.069
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.3	Age/Gyr	13.788 ± 0.030	χ^2_{MGS}	1.59 ± 0.61
$\boldsymbol{c_{100}}$	0.99789 ± 0.00078	z_*	1089.79 ± 0.32	$\chi^2_{DR11CMASS}$	2.91 ± 0.72
$\boldsymbol{c_{217}}$	0.9958 ± 0.0015	r_*	144.82 ± 0.32	$\chi^2_{DR11LOWZ}$	0.54 ± 0.53
H_0	67.92 ± 0.61	$100\theta_*$	1.04122 ± 0.00042	χ^2_{prior}	7.19 ± 3.5
Ω_Λ	0.6931 ± 0.0080	D_A/Gpc	13.909 ± 0.032	χ^2_{BAO}	5.09 ± 1.1
Ω_m	0.3069 ± 0.0080	z_{drag}	1059.83 ± 0.45	χ^2_{CMB}	790.4 ± 5.4
$\Omega_m h^2$	0.1415 ± 0.0013	r_{drag}	147.49 ± 0.35		

$\bar{\chi}^2_{eff} = 802.64$; $R - 1 = 0.00939$

2.39 base_plikHM_TTTEEE_lowl

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022371	0.02232 ± 0.00017	$\boldsymbol{A^{dust\,TE}_{100\times217}}$	0.301	0.303 ± 0.084	10^5D/H	2.5911	2.602 ± 0.032
$\boldsymbol{\Omega_c h^2}$	0.11884	0.1192 ± 0.0016	$\boldsymbol{A^{dust\,TE}_{143}}$	0.154	0.153 ± 0.054	Age/Gyr	13.7939	13.801 ± 0.029
$\boldsymbol{100\theta_{MC}}$	1.040868	1.04085 ± 0.00033	$\boldsymbol{A^{dust\,TE}_{143\times217}}$	0.337	0.336 ± 0.080	z_*	1089.815	1089.91 ± 0.32
$\boldsymbol{\tau}$	0.1078	0.099 ± 0.024	$\boldsymbol{A^{dust\,TE}_{217}}$	1.657	1.66 ± 0.26	r_*	144.731	144.69 ± 0.35
$\boldsymbol{\ln(10^{10} A_s)}$	3.1484	3.132 ± 0.047	$\boldsymbol{c_{100}}$	0.99826	0.99816 ± 0.00077	$100\theta_*$	1.041056	1.04104 ± 0.00033
$\boldsymbol{n_s}$	0.9690	0.9669 ± 0.0053	$\boldsymbol{c_{217}}$	0.99572	0.9959 ± 0.0015	D_A/Gpc	13.9023	13.899 ± 0.032
$\boldsymbol{y_{cal}}$	1.00018	1.0003 ± 0.0025	H_0	67.75	67.59 ± 0.73	z_{drag}	1059.856	1059.75 ± 0.33
$\boldsymbol{A^{CIB}_{217}}$	61.5	62.9 ± 6.6	Ω_Λ	0.6909	0.6887 ± 0.0099	r_{drag}	147.397	147.38 ± 0.34
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.63	—	Ω_m	0.3091	0.3113 ± 0.0099	k_D	0.140544	0.14053 ± 0.00034
$\boldsymbol{A^{tSZ}_{143}}$	6.83	5.49 ± 1.9	$\Omega_m h^2$	0.14186	0.1421 ± 0.0015	$100\theta_D$	0.160786	0.16085 ± 0.00019
$\boldsymbol{A^{PS}_{100}}$	247.6	257 ± 27	$\Omega_m h^3$	0.096102	0.09604 ± 0.00030	z_{eq}	3374.5	3381 ± 36
$\boldsymbol{A^{PS}_{143}}$	45.9	42 ± 8	σ_8	0.8516	0.846 ± 0.018	k_{eq}	0.010299	0.01032 ± 0.00011
$\boldsymbol{A^{PS}_{143\times217}}$	49.8	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4735	0.472 ± 0.011	$100\theta_{eq}$	0.8182	0.8170 ± 0.0069
$\boldsymbol{A^{PS}_{217}}$	105.4	98.5 ± 11	$\sigma_8\Omega_m^{0.25}$	0.6350	0.632 ± 0.013	$100\theta_{s,eq}$	0.45196	0.4513 ± 0.0035
$\boldsymbol{A^{kSZ}}$	0.00	< 3.67	$\sigma_8/h^{0.5}$	1.0347	1.029 ± 0.021	$r_{drag}/D_V(0.57)$	0.07170	0.07159 ± 0.00055
$\boldsymbol{A^{dust\,TT}_{100}}$	7.34	7.36 ± 1.9	$\langle d^2\rangle^{1/2}$	2.555	2.543 ± 0.050	$H(0.57)$	93.075	93.00 ± 0.32
$\boldsymbol{A^{dust\,TT}_{143}}$	8.85	8.86 ± 1.8	z_{re}	12.48	$11.7^{+2.3}_{-1.8}$	$D_A(0.57)$	1385.7	1387.9 ± 9.8
$\boldsymbol{A^{dust\,TT}_{143\times217}}$	17.90	16.8 ± 4.1	$10^9 A_s$	2.330	2.30 ± 0.11	$F_{AP}(0.57)$	0.67542	0.6760 ± 0.0025
$\boldsymbol{A^{dust\,TT}_{217}}$	82.6	81.7 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8781	1.879 ± 0.013	$f\sigma_8(0.57)$	0.4945	0.491 ± 0.010
$\boldsymbol{A^{dust\,EE}_{100}}$	0.0814	0.0813 ± 0.0057	D_{40}	1245.0	1246 ± 14	$\sigma_8(0.57)$	0.6342	0.629 ± 0.014
$\boldsymbol{A^{dust\,EE}_{100\times143}}$	0.04916	0.0489 ± 0.0050	D_{220}	5727.6	5729 ± 39	f^{143}_{2000}	27.36	28.6 ± 2.8
$\boldsymbol{A^{dust\,EE}_{100\times217}}$	0.0985	0.0995 ± 0.033	D_{810}	2534.4	2534 ± 14	$f^{143\times217}_{2000}$	30.90	31.4 ± 2.0
$\boldsymbol{A^{dust\,EE}_{143}}$	0.1008	0.1003 ± 0.0069	D_{1420}	815.72	814.6 ± 4.8	f^{217}_{2000}	104.37	105.1 ± 2.0
$\boldsymbol{A^{dust\,EE}_{143\times217}}$	0.2241	0.224 ± 0.046	D_{2000}	231.58	230.9 ± 1.7	χ^2_{lowl}	15.48	15.7 ± 1.5
$\boldsymbol{A^{dust\,EE}_{217}}$	0.648	0.65 ± 0.13	$n_{s,0.002}$	0.9690	0.9669 ± 0.0053	χ^2_{plik}	2429.9	2449.4 ± 6.8
$\boldsymbol{A^{dust\,TE}_{100}}$	0.1392	0.140 ± 0.038	Y_P	0.245393	0.245368 ± 0.000076	χ^2_{prior}	6.53	19.2 ± 5.5
$\boldsymbol{A^{dust\,TE}_{100\times143}}$	0.1307	0.131 ± 0.029	Y_P^{BBN}	0.246720	0.246695 ± 0.000077	χ^2_{CMB}	2445.4	2465.1 ± 6.7

Best-fit $\chi^2_{eff} = 2451.89$; $\bar{\chi}^2_{eff} = 2484.29$; $R - 1 = 0.00632$

χ^2_{eff}: CMB - commander_rc2_v1.1_l2_29_B: 15.48 plik_dx11dr2_HM_v18_TTTEEE: 2429.87

2.40 base_plikHM_TTTEEE_lowl_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022343	0.02234 ± 0.00015	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.335 ± 0.079	$100\theta_*$	1.041064	1.04107 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11879	0.1189 ± 0.0011	$\boldsymbol{A^{dustTE}_{217}}$	1.674	1.66 ± 0.26	D_A/Gpc	13.9054	13.904 ± 0.024
$\boldsymbol{100\theta_{MC}}$	1.040878	1.04089 ± 0.00030	$\boldsymbol{c_{100}}$	0.99823	0.99817 ± 0.00077	z_{drag}	1059.780	1059.78 ± 0.31
$\boldsymbol{\tau}$	0.1040	$0.102^{+0.024}_{-0.021}$	$\boldsymbol{c_{217}}$	0.99582	0.9958 ± 0.0014	r_{drag}	147.442	147.43 ± 0.26
$\boldsymbol{\ln(10^{10}A_s)}$	3.1401	$3.137^{+0.046}_{-0.042}$	H_0	67.74	67.72 ± 0.51	k_D	0.140477	0.14048 ± 0.00030
$\boldsymbol{n_s}$	0.96834	0.9677 ± 0.0043	Ω_Λ	0.6910	0.6906 ± 0.0068	$100\theta_D$	0.160828	0.16083 ± 0.00018
$\boldsymbol{y_{cal}}$	1.00005	1.0003 ± 0.0025	Ω_m	0.3090	0.3094 ± 0.0068	z_{eq}	3372.7	3374 ± 25
$\boldsymbol{A^{CIB}_{217}}$	64.2	62.8 ± 6.5	$\Omega_m h^2$	0.14178	0.1418 ± 0.0011	k_{eq}	0.010294	0.010298 ± 0.000077
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.26	—	$\Omega_m h^3$	0.096045	0.09605 ± 0.00030	$100\theta_{eq}$	0.81849	0.8183 ± 0.0048
$\boldsymbol{A^{tSZ}_{143}}$	7.17	5.50 ± 1.9	σ_8	0.8478	0.847 ± 0.018	$100\theta_{s,eq}$	0.45211	0.4520 ± 0.0025
$\boldsymbol{A^{PS}_{100}}$	250.3	257 ± 27	$\sigma_8\Omega_m^{0.5}$	0.4713	0.471 ± 0.010	$r_{drag}/D_V(0.57)$	0.071708	0.07169 ± 0.00038
$\boldsymbol{A^{PS}_{143}}$	39.8	42 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6321	0.631 ± 0.013	$H(0.57)$	93.060	93.05 ± 0.23
$\boldsymbol{A^{PS}_{143\times217}}$	38.7	40 ± 10	$\sigma_8/h^{0.5}$	1.0301	1.029 ± 0.021	$D_A(0.57)$	1385.8	1386.1 ± 6.8
$\boldsymbol{A^{PS}_{217}}$	100.5	98.4 ± 11	$\langle d^2\rangle^{1/2}$	2.5459	2.544 ± 0.050	$F_{AP}(0.57)$	0.67539	0.6755 ± 0.0017
$\boldsymbol{A^{kSZ}}$	0.01	< 3.66	z_{re}	12.18	$12.0^{+2.1}_{-1.6}$	$f\sigma_8(0.57)$	0.4923	0.492 ± 0.010
$\boldsymbol{A^{dustTT}_{100}}$	7.36	7.36 ± 1.9	$10^9 A_s$	2.311	2.31 ± 0.10	$\sigma_8(0.57)$	0.6314	0.630 ± 0.014
$\boldsymbol{A^{dustTT}_{143}}$	8.97	8.83 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8765	1.877 ± 0.012	f^{143}_{2000}	27.95	28.4 ± 2.7
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.64	16.8 ± 4.2	D_{40}	1243.5	1246 ± 14	$f^{143\times217}_{2000}$	31.10	31.3 ± 1.9
$\boldsymbol{A^{dustTT}_{217}}$	82.3	81.6 ± 7.4	D_{220}	5725.1	5729 ± 39	f^{217}_{2000}	104.82	105.0 ± 1.9
$\boldsymbol{A^{dustEE}_{100}}$	0.0816	0.0813 ± 0.0057	D_{810}	2532.3	2533 ± 14	χ^2_{lowl}	15.35	15.6 ± 1.5
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04920	0.0490 ± 0.0050	D_{1420}	814.68	814.6 ± 4.8	χ^2_{plik}	2429.9	2449.0 ± 6.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1004	0.0995 ± 0.033	D_{2000}	231.09	231.0 ± 1.6	χ^2_{6DF}	0.0154	0.050 ± 0.065
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1004 ± 0.0069	$n_{s,0.002}$	0.96834	0.9677 ± 0.0043	χ^2_{MGS}	1.34	1.39 ± 0.49
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2219	0.224 ± 0.046	Y_P	0.245381	0.245378 ± 0.000066	$\chi^2_{DR11CMASS}$	2.431	2.80 ± 0.54
$\boldsymbol{A^{dustEE}_{217}}$	0.655	0.65 ± 0.13	Y_P^{BBN}	0.246707	0.246704 ± 0.000066	$\chi^2_{DR11LOWZ}$	0.545	0.68 ± 0.52
$\boldsymbol{A^{dustTE}_{100}}$	0.1406	0.141 ± 0.038	10^5D/H	2.5964	2.597 ± 0.028	χ^2_{prior}	6.87	19.2 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1311	0.131 ± 0.029	Age/Gyr	13.7964	13.797 ± 0.022	χ^2_{BAO}	4.334	4.91 ± 0.80
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.302 ± 0.084	z_*	1089.847	1089.86 ± 0.25	χ^2_{CMB}	2445.2	2464.6 ± 6.6
$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.154 ± 0.054	r_*	144.764	144.75 ± 0.26			

Best-fit $\chi^2_{eff} = 2456.44$; $\bar{\chi}^2_{eff} = 2488.74$; $R - 1 = 0.01004$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.43 DR11LOWZ: 0.55 CMB - commander_rc2_v1.1_l2_29_B: 15.35 plik_dx11dr2_HM_v18_TTTEEE: 2429.89

2.41 base_plikHM_TTTEEE_lowl_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022384	0.02236 ± 0.00014	$\boldsymbol{A_{217}^{dustTE}}$	1.670	1.66 ± 0.26	z_{drag}	1059.856	1059.81 ± 0.31
$\boldsymbol{\Omega_c h^2}$	0.11854	0.1186 ± 0.0011	$\boldsymbol{c_{100}}$	0.99825	0.99817 ± 0.00077	r_{drag}	147.463	147.47 ± 0.26
$\boldsymbol{100\theta_{MC}}$	1.040934	1.04091 ± 0.00030	$\boldsymbol{c_{217}}$	0.99574	0.9958 ± 0.0015	k_D	0.140486	0.14046 ± 0.00030
$\boldsymbol{\tau}$	0.1080	$0.104^{+0.024}_{-0.021}$	H_0	67.883	67.82 ± 0.50	$100\theta_D$	0.160787	0.16082 ± 0.00018
$\boldsymbol{\ln(10^{10} A_s)}$	3.1477	$3.140^{+0.046}_{-0.041}$	Ω_Λ	0.6928	0.6920 ± 0.0066	z_{eq}	3367.7	3369 ± 25
$\boldsymbol{n_s}$	0.96919	0.9683 ± 0.0043	Ω_m	0.3072	0.3080 ± 0.0066	k_{eq}	0.010279	0.010283 ± 0.000075
$\boldsymbol{y_{cal}}$	1.00007	1.0003 ± 0.0025	$\Omega_m h^2$	0.14157	0.1416 ± 0.0010	$100\theta_{eq}$	0.81956	0.8192 ± 0.0047
$\boldsymbol{A_{217}^{CIB}}$	63.3	62.7 ± 6.5	$\Omega_m h^3$	0.096104	0.09606 ± 0.00030	$100\theta_{s,eq}$	0.45264	0.4525 ± 0.0024
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.40	—	σ_8	0.8503	0.847 ± 0.018	$r_{drag}/D_V(0.57)$	0.071804	0.07177 ± 0.00037
$\boldsymbol{A_{143}^{tSZ}}$	6.97	5.52 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4713	0.470 ± 0.010	$H(0.57)$	93.131	93.10 ± 0.23
$\boldsymbol{A_{100}^{PS}}$	250.1	256 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6331	0.631 ± 0.013	$D_A(0.57)$	1383.9	1384.7 ± 6.7
$\boldsymbol{A_{143}^{PS}}$	42.1	42 ± 8	$\sigma_8/h^{0.5}$	1.0321	1.029 ± 0.021	$F_{AP}(0.57)$	0.67494	0.6751 ± 0.0017
$\boldsymbol{A_{143\times217}^{PS}}$	42.9	40 ± 10	$\langle d^2\rangle^{1/2}$	2.5508	2.545 ± 0.050	$f\sigma_8(0.57)$	0.4933	0.492 ± 0.010
$\boldsymbol{A_{217}^{PS}}$	102.0	98.4 ± 11	z_{re}	12.48	$12.1^{+2.0}_{-1.6}$	$\sigma_8(0.57)$	0.6337	0.631 ± 0.014
$\boldsymbol{A^{kSZ}}$	0.00	< 3.60	$10^9 A_s$	2.328	2.31 ± 0.10	f_{2000}^{143}	27.57	28.3 ± 2.7
$\boldsymbol{A_{100}^{dustTT}}$	7.34	7.36 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8761	1.876 ± 0.011	$f_{2000}^{143\times217}$	30.92	31.2 ± 1.9
$\boldsymbol{A_{143}^{dustTT}}$	8.85	8.82 ± 1.8	D_{40}	1244.3	1245 ± 14	f_{2000}^{217}	104.52	104.9 ± 1.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.51	16.8 ± 4.2	D_{220}	5728.8	5730 ± 39	χ^2_{lowl}	15.45	15.6 ± 1.5
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.6 ± 7.4	D_{810}	2532.9	2533 ± 14	χ^2_{plik}	2430.0	2449.0 ± 6.7
$\boldsymbol{A_{100}^{dustEE}}$	0.0815	0.0814 ± 0.0057	D_{1420}	815.20	814.8 ± 4.8	χ^2_{H070p6}	0.669	0.72 ± 0.25
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04920	0.0491 ± 0.0050	D_{2000}	231.39	231.1 ± 1.6	χ^2_{JLA}	706.639	706.69 ± 0.16
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1004	0.099 ± 0.033	$n_{s,0.002}$	0.96919	0.9683 ± 0.0043	χ^2_{6DF}	0.0062	0.040 ± 0.054
$\boldsymbol{A_{143}^{dustEE}}$	0.1005	0.1005 ± 0.0069	Y_P	0.245399	0.245387 ± 0.000065	χ^2_{MGS}	1.47	1.49 ± 0.49
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2246	0.224 ± 0.046	Y_P^{BBN}	0.246725	0.246713 ± 0.000065	$\chi^2_{DR11CMASS}$	2.413	2.75 ± 0.48
$\boldsymbol{A_{217}^{dustEE}}$	0.648	0.65 ± 0.13	10^5D/H	2.5887	2.594 ± 0.027	$\chi^2_{DR11LOWZ}$	0.429	0.57 ± 0.46
$\boldsymbol{A_{100}^{dustTE}}$	0.1397	0.141 ± 0.038	Age/Gyr	13.7895	13.793 ± 0.022	χ^2_{prior}	6.65	19.2 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1305	0.131 ± 0.029	z_*	1089.774	1089.82 ± 0.24	χ^2_{BAO}	4.321	4.85 ± 0.71
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.299	0.302 ± 0.084	r_*	144.798	144.79 ± 0.25	χ^2_{CMB}	2445.4	2464.6 ± 6.6
$\boldsymbol{A_{143}^{dustTE}}$	0.153	0.154 ± 0.054	$100\theta_*$	1.041117	1.04110 ± 0.00030			
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.337	0.335 ± 0.079	D_A/Gpc	13.9079	13.908 ± 0.024			

Best-fit $\chi^2_{eff} = 3163.67$; $\bar{\chi}^2_{eff} = 3196.11$; $R - 1 = 0.01055$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.41 DR11LOWZ: 0.43 CMB - commander_rc2_v1.1_l2_29_B: 15.45 plik_dx11dr2_HM_v18_TTTEEE: 2429.95 Hubble -

2.42 base_plikHM_TTTEEE_lowl_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303 ± 0.084	10^5D/H	2.601 ± 0.032
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0016	$\boldsymbol{A^{dustTE}_{143}}$	0.154 ± 0.054	Age/Gyr	13.801 ± 0.029
$\boldsymbol{100\theta_{MC}}$	1.04085 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335 ± 0.080	z_*	1089.91 ± 0.32
$\boldsymbol{\tau}$	0.100 ± 0.024	$\boldsymbol{A^{dustTE}_{217}}$	1.66 ± 0.26	r_*	144.70 ± 0.34
$\boldsymbol{\ln(10^{10}A_s)}$	3.134 ± 0.045	$\boldsymbol{c_{100}}$	0.99817 ± 0.00077	$100\theta_*$	1.04104 ± 0.00033
$\boldsymbol{n_s}$	0.9670 ± 0.0053	$\boldsymbol{c_{217}}$	0.9959 ± 0.0014	D_A/Gpc	13.899 ± 0.032
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025	H_0	67.60 ± 0.73	z_{drag}	1059.76 ± 0.33
$\boldsymbol{A^{CIB}_{217}}$	62.9 ± 6.6	Ω_Λ	0.6889 ± 0.0099	r_{drag}	147.38 ± 0.33
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	Ω_m	0.3111 ± 0.0099	k_D	0.14052 ± 0.00034
$\boldsymbol{A^{tSZ}_{143}}$	5.47 ± 1.9	$\Omega_m h^2$	0.1421 ± 0.0015	$100\theta_D$	0.16085 ± 0.00019
$\boldsymbol{A^{PS}_{100}}$	257 ± 27	$\Omega_m h^3$	0.09604 ± 0.00030	z_{eq}	3380 ± 36
$\boldsymbol{A^{PS}_{143}}$	42 ± 8	σ_8	0.846 ± 0.018	k_{eq}	0.01032 ± 0.00011
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.472 ± 0.011	$100\theta_{eq}$	0.8171 ± 0.0069
$\boldsymbol{A^{PS}_{217}}$	98.4 ± 11	$\sigma_8\Omega_m^{0.25}$	0.632 ± 0.013	$100\theta_{s,eq}$	0.4514 ± 0.0035
$\boldsymbol{A^{kSZ}}$	< 3.69	$\sigma_8/h^{0.5}$	1.029 ± 0.020	$r_{drag}/D_V(0.57)$	0.07160 ± 0.00055
$\boldsymbol{A^{dustTT}_{100}}$	7.37 ± 1.9	$\langle d^2\rangle^{1/2}$	2.545 ± 0.048	$H(0.57)$	93.01 ± 0.32
$\boldsymbol{A^{dustTT}_{143}}$	8.84 ± 1.9	z_{re}	$11.8^{+2.2}_{-1.8}$	$D_A(0.57)$	1387.7 ± 9.7
$\boldsymbol{A^{dustTT}_{143\times217}}$	16.8 ± 4.2	10^9A_s	2.30 ± 0.10	$F_{AP}(0.57)$	0.6759 ± 0.0025
$\boldsymbol{A^{dustTT}_{217}}$	81.6 ± 7.4	$10^9A_se^{-2\tau}$	1.879 ± 0.013	$f\sigma_8(0.57)$	0.4918 ± 0.0098
$\boldsymbol{A^{dustEE}_{100}}$	0.0813 ± 0.0057	D_{40}	1246 ± 14	$\sigma_8(0.57)$	0.630 ± 0.014
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0489 ± 0.0050	D_{220}	5729 ± 39	f^{143}_{2000}	28.5 ± 2.8
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0995 ± 0.033	D_{810}	2533 ± 14	$f^{143\times217}_{2000}$	31.4 ± 2.0
$\boldsymbol{A^{dustEE}_{143}}$	0.1003 ± 0.0069	D_{1420}	814.6 ± 4.8	f^{217}_{2000}	105.1 ± 2.0
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.224 ± 0.046	D_{2000}	230.9 ± 1.7	χ^2_{lowl}	15.7 ± 1.5
$\boldsymbol{A^{dustEE}_{217}}$	0.65 ± 0.13	$n_{s,0.002}$	0.9670 ± 0.0053	χ^2_{plik}	2449.4 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.141 ± 0.038	Y_P	0.245369 ± 0.000077	χ^2_{prior}	19.2 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.131 ± 0.029	Y_P^{BBN}	0.246696 ± 0.000077	χ^2_{CMB}	2465.1 ± 6.7

$\bar{\chi}^2_{eff} = 2484.26$; $R - 1 = 0.00864$

2.43 base_plikHM_TTTEEE_lowl_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.02234 ± 0.00015	$\boldsymbol{A^{{\rm dust}TE}_{143\times217}}$	0.335 ± 0.079	$100\theta_*$	1.04107 ± 0.00030
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1188 ± 0.0011	$\boldsymbol{A^{{\rm dust}TE}_{217}}$	1.66 ± 0.26	$D_{\rm A}$/Gpc	13.904 ± 0.024
$\boldsymbol{100\theta_{\rm MC}}$	1.04089 ± 0.00030	$\boldsymbol{c_{100}}$	0.99817 ± 0.00077	$z_{\rm drag}$	1059.78 ± 0.31
$\boldsymbol{\tau}$	0.103 ± 0.022	$\boldsymbol{c_{217}}$	0.9958 ± 0.0014	$r_{\rm drag}$	147.43 ± 0.26
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.138 ± 0.043	H_0	67.72 ± 0.51	$k_{\rm D}$	0.14048 ± 0.00030
$\boldsymbol{n_{\rm s}}$	0.9678 ± 0.0043	Ω_Λ	0.6907 ± 0.0068	$100\theta_{\rm D}$	0.16083 ± 0.00018
$\boldsymbol{y_{\rm cal}}$	1.0003 ± 0.0025	$\Omega_{\rm m}$	0.3093 ± 0.0068	$z_{\rm eq}$	3374 ± 25
$\boldsymbol{A^{\rm CIB}_{217}}$	62.8 ± 6.5	$\Omega_{\rm m}h^2$	0.1418 ± 0.0011	$k_{\rm eq}$	0.010298 ± 0.000077
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	$\Omega_{\rm m}h^3$	0.09605 ± 0.00030	$100\theta_{\rm eq}$	0.8183 ± 0.0048
$\boldsymbol{A^{\rm tSZ}_{143}}$	5.50 ± 1.9	σ_8	0.847 ± 0.017	$100\theta_{\rm s,eq}$	0.4520 ± 0.0025
$\boldsymbol{A^{\rm PS}_{100}}$	257 ± 27	$\sigma_8\Omega_{\rm m}^{0.5}$	0.471 ± 0.010	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07170 ± 0.00038
$\boldsymbol{A^{\rm PS}_{143}}$	42 ± 8	$\sigma_8\Omega_{\rm m}^{0.25}$	0.632 ± 0.013	$H(0.57)$	93.06 ± 0.23
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8/h^{0.5}$	1.029 ± 0.021	$D_{\rm A}(0.57)$	1386.1 ± 6.8
$\boldsymbol{A^{\rm PS}_{217}}$	98.4 ± 11	$\langle d^2\rangle^{1/2}$	2.545 ± 0.049	$F_{\rm AP}(0.57)$	0.6755 ± 0.0017
$\boldsymbol{A^{\rm kSZ}}$	< 3.65	$z_{\rm re}$	$12.0^{+2.0}_{-1.6}$	$f\sigma_8(0.57)$	0.4918 ± 0.0099
$\boldsymbol{A^{{\rm dust}TT}_{100}}$	7.36 ± 1.9	$10^9A_{\rm s}$	2.307 ± 0.098	$\sigma_8(0.57)$	0.631 ± 0.013
$\boldsymbol{A^{{\rm dust}TT}_{143}}$	8.82 ± 1.8	$10^9A_{\rm s}e^{-2\tau}$	1.877 ± 0.012	f^{143}_{2000}	28.4 ± 2.7
$\boldsymbol{A^{{\rm dust}TT}_{143\times217}}$	16.8 ± 4.2	D_{40}	1246 ± 14	$f^{143\times217}_{2000}$	31.3 ± 1.9
$\boldsymbol{A^{{\rm dust}TT}_{217}}$	81.6 ± 7.4	D_{220}	5729 ± 39	f^{217}_{2000}	105.0 ± 1.9
$\boldsymbol{A^{{\rm dust}EE}_{100}}$	0.0813 ± 0.0057	D_{810}	2533 ± 14	$\chi^2_{\rm lowl}$	15.6 ± 1.5
$\boldsymbol{A^{{\rm dust}EE}_{100\times143}}$	0.0490 ± 0.0050	D_{1420}	814.6 ± 4.8	$\chi^2_{\rm plik}$	2448.9 ± 6.6
$\boldsymbol{A^{{\rm dust}EE}_{100\times217}}$	0.0996 ± 0.033	D_{2000}	231.0 ± 1.6	$\chi^2_{\rm 6DF}$	0.049 ± 0.065
$\boldsymbol{A^{{\rm dust}EE}_{143}}$	0.1004 ± 0.0069	$n_{\rm s,0.002}$	0.9678 ± 0.0043	$\chi^2_{\rm MGS}$	1.39 ± 0.49
$\boldsymbol{A^{{\rm dust}EE}_{143\times217}}$	0.224 ± 0.046	$Y_{\rm P}$	0.245378 ± 0.000066	$\chi^2_{\rm DR11CMASS}$	2.79 ± 0.54
$\boldsymbol{A^{{\rm dust}EE}_{217}}$	0.65 ± 0.13	$Y_{\rm P}^{\rm BBN}$	0.246705 ± 0.000066	$\chi^2_{\rm DR11LOWZ}$	0.67 ± 0.52
$\boldsymbol{A^{{\rm dust}TE}_{100}}$	0.141 ± 0.038	10^5D/H	2.597 ± 0.028	$\chi^2_{\rm prior}$	19.2 ± 5.5
$\boldsymbol{A^{{\rm dust}TE}_{100\times143}}$	0.131 ± 0.029	Age/Gyr	13.797 ± 0.022	$\chi^2_{\rm BAO}$	4.91 ± 0.79
$\boldsymbol{A^{{\rm dust}TE}_{100\times217}}$	0.302 ± 0.084	z_*	1089.86 ± 0.25	$\chi^2_{\rm CMB}$	2464.6 ± 6.6
$\boldsymbol{A^{{\rm dust}TE}_{143}}$	0.154 ± 0.054	r_*	144.75 ± 0.26		

$\bar{\chi}^2_{\rm eff} = 2488.68$; $R - 1 = 0.00998$

2.44 base_CamSpecHM_TT_lowl

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022436	0.02243 ± 0.00027 $(+0.1\sigma)$	H_0	68.35	68.3 ± 1.2 $(+0.1\sigma)$	$100\theta_*$	1.04138	1.04136 ± 0.00051 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11759	0.1177 ± 0.0026 (-0.1σ)	Ω_Λ	0.6989	$0.698^{+0.017}_{-0.015}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.89	1059.88 ± 0.53 $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04118	1.04117 ± 0.00053 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3011	$0.302^{+0.015}_{-0.017}$ (-0.1σ)	$r_{\rm drag}$	147.66	147.64 ± 0.53 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.1197	0.115 ± 0.033 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14067	0.1408 ± 0.0024 (-0.1σ)	$k_{\rm D}$	0.14033	0.14034 ± 0.00053 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.165	3.157 ± 0.062 $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	0.096151	0.09614 ± 0.00048 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.160769	0.16078 ± 0.00029 (-0.1σ)
$\boldsymbol{n_s}$	0.9743	0.9740 ± 0.0081 $(+0.4\sigma)$	σ_8	0.8559	0.853 ± 0.023 $(+0.0\sigma)$	$z_{\rm eq}$	3346	3349 ± 57 (-0.1σ)
$\boldsymbol{y_{cal}}$	0.99972	1.0002 ± 0.0025 $(+0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4697	0.469 ± 0.014 (-0.1σ)	$100\theta_{\rm eq}$	0.8238	0.824 ± 0.011 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	238.1	238 ± 24 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6340	0.632 ± 0.016 (-0.0σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07217	0.07214 ± 0.00091 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	32.8	36 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0353	1.032 ± 0.026 (-0.0σ)	$H(0.57)$	93.33	93.33 ± 0.54 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	100.5	100 ± 10 $(+0.2\sigma)$	$\langle d^2\rangle^{1/2}$	2.551	$2.543^{+0.064}_{-0.057}$ (-0.1σ)	$D_{\rm A}(0.57)$	1377.6	1378 ± 16 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	45.8	44 ± 7 (-2.8σ)	$z_{\rm re}$	13.37	$12.9^{+3.0}_{-2.2}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.67337	0.6736 ± 0.0040 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	4.58	$3.60^{+1.8}_{-2.4}$ (-1.0σ)	$10^9A_{\rm s}$	2.368	2.35 ± 0.15 $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.4948	0.493 ± 0.012 (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.462	0.53 ± 0.12	$10^9A_{\rm s}e^{-2\tau}$	1.8643	1.867 ± 0.015 (-0.3σ)	$\sigma_8(0.57)$	0.6394	0.637 ± 0.019 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	D_{40}	1233.7	1235 ± 16 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.246332	0.24633 ± 0.00012 (-3.3σ)
$\boldsymbol{A^{kSZ}}$	2.49	$4.60^{+1.9}_{-4.2}$ $(+0.7\sigma)$	D_{220}	5694.6	5700 ± 41 (-0.5σ)	f_{2000}^{143}	26.64	27 ± 3 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.979	0.98 ± 0.19	D_{810}	2523.9	2527 ± 14 (-0.2σ)	f_{2000}^{217}	104.73	104.9 ± 2.3 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.028	1.02 ± 0.18	D_{1420}	814.2	815.1 ± 5.2 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	29.81	29.9 ± 2.5 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.219	1.23 ± 0.12	$n_{\rm s,0.002}$	0.9743	0.9740 ± 0.0081 $(+0.4\sigma)$	$\chi^2_{\rm lowl}$	14.70	14.9 ± 1.7 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.969	0.97 ± 0.18	$Y_{\rm P}$	0.245001	0.24500 ± 0.00012 (-3.3σ)	$\chi^2_{\rm CamSpec}$	8043.2	8058.1 ± 5.8
$\boldsymbol{c_{100}}$	0.99672	0.99678 ± 0.00097 (-1.4σ)	Age/Gyr	13.7724	13.774 ± 0.048 (-0.1σ)	$\chi^2_{\rm CMB}$	8057.9	8073.0 ± 5.7 $(+1314.7\sigma)$
$\boldsymbol{c_{217}}$	0.99685	0.9969 ± 0.0018 $(+0.8\sigma)$	z_*	1089.61	1089.64 ± 0.52 (-0.2σ)			
$\boldsymbol{\beta_1^1}$	0.02	-0.06 ± 0.99	r_*	145.01	144.99 ± 0.55 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 8061.20$; $\Delta\chi^2_{\rm eff} = 7283.14$; $\bar{\chi}^2_{\rm eff} = 8081.52$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.13$; $R - 1 = 0.00567$
$\chi^2_{\rm eff}$: CMB - commander_rc2_v1.1_l2_29_B: 14.70 (Δ -0.69) CamSpec like_v9.10CMH_unified: 8043.21

2.45 base_CamSpecHM_TT_lowl_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00021 \quad (+0.0\sigma)$	Ω_m	$0.3064 \pm 0.0080 \quad (-0.1\sigma)$	$100\theta_D$	$0.16082 \pm 0.00027 \quad (-0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1184 \pm 0.0013 \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1414 \pm 0.0013 \quad (-0.1\sigma)$	z_{eq}	$3365 \pm 30 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04106 \pm 0.00043 \quad (+0.1\sigma)$	$\Omega_m h^3$	$0.09611 \pm 0.00047 \quad (+0.0\sigma)$	$100\theta_{eq}$	$0.8202 \pm 0.0058 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.109^{+0.030}_{-0.026} \quad (+0.0\sigma)$	σ_8	$0.850^{+0.024}_{-0.021} \quad (-0.0\sigma)$	$r_{drag}/D_V(0.57)$	$0.07187 \pm 0.00046 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.146^{+0.059}_{-0.050} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.471 \pm 0.012 \quad (-0.0\sigma)$	$H(0.57)$	$93.17 \pm 0.30 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9719 \pm 0.0051 \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.633^{+0.017}_{-0.015} \quad (-0.0\sigma)$	$D_A(0.57)$	$1382.9 \pm 8.4 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.032^{+0.028}_{-0.025} \quad (-0.0\sigma)$	$F_{AP}(0.57)$	$0.6747 \pm 0.0021 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$240 \pm 23 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.542^{+0.066}_{-0.057} \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.493^{+0.013}_{-0.012} \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$36 \pm 8 \quad (-0.6\sigma)$	z_{re}	$12.4^{+2.6}_{-1.9} \quad (+0.0\sigma)$	$\sigma_8(0.57)$	$0.634^{+0.018}_{-0.016} \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.2\sigma)$	$10^9 A_s$	$2.33 \pm 0.12 \quad (-0.0\sigma)$	Y_P^{BBN}	$0.24630^{+0.00010}_{-0.000087} \quad (-4.4\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.870 \pm 0.012 \quad (-0.3\sigma)$	f_{2000}^{143}	$27 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.56^{+1.7}_{-2.4} \quad (-1.0\sigma)$	D_{40}	$1236 \pm 15 \quad (-0.5\sigma)$	f_{2000}^{217}	$105.2 \pm 2.2 \quad (+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	D_{220}	$5699^{+39}_{-44} \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$30.3 \pm 2.4 \quad (-0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{810}	$2528 \pm 14 \quad (-0.2\sigma)$	χ^2_{lowl}	$14.8 \pm 1.6 \quad (-0.4\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.68^{+2.3}_{-3.8} \quad (+0.7\sigma)$	D_{1420}	$814.7 \pm 5.1 \quad (+0.0\sigma)$	$\chi^2_{CamSpec}$	8057.7 ± 5.8
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	$n_{s,0.002}$	$0.9719 \pm 0.0051 \quad (+0.4\sigma)$	χ^2_{6DF}	$0.048 \pm 0.068 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Y_P	$0.244973 \pm 0.000092 \quad (-4.5\sigma)$	χ^2_{MGS}	$1.63 \pm 0.62 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	Age/Gyr	$13.787 \pm 0.031 \quad (-0.1\sigma)$	$\chi^2_{DR11CMASS}$	$2.93 \pm 0.74 \quad (+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	$1089.77 \pm 0.33 \quad (-0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.52 \pm 0.52 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00098 \quad (-1.4\sigma)$	r_*	$144.84 \pm 0.33 \quad (+0.1\sigma)$	χ^2_{prior}	$8.52 \pm 3.6 \quad (+0.4\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.8\sigma)$	$100\theta_*$	$1.04126 \pm 0.00043 \quad (+0.1\sigma)$	χ^2_{BAO}	$5.13 \pm 1.1 \quad (+0.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	z_{drag}	$1059.80 \pm 0.47 \quad (-0.0\sigma)$	χ^2_{CMB}	$8072.5 \pm 5.6 \quad (+1346.2\sigma)$
H_0	$67.96 \pm 0.62 \quad (+0.1\sigma)$	r_{drag}	$147.51 \pm 0.35 \quad (+0.1\sigma)$		
Ω_Λ	$0.6936 \pm 0.0080 \quad (+0.1\sigma)$	k_D	$0.14044 \pm 0.00045 \quad (-0.0\sigma)$		

$\bar{\chi}^2_{eff} = 8086.17$; $\Delta\bar{\chi}^2_{eff} = 7283.45$; $R - 1 = 0.01003$

2.46 base_CamSpecHM_TT_lowl_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02239^{+0.00023}_{-0.00020}$ $(+0.0\sigma)$	Ω_m	0.3047 ± 0.0077 (-0.1σ)	$100\theta_D$	0.16080 ± 0.00027 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1182 ± 0.0013 (-0.1σ)	$\Omega_m h^2$	0.1412 ± 0.0012 (-0.1σ)	z_{eq}	3359 ± 29 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04111 ± 0.00043 $(+0.1\sigma)$	$\Omega_m h^3$	0.09614 ± 0.00047 $(+0.0\sigma)$	$100\theta_{eq}$	0.8213 ± 0.0056 $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.111^{+0.029}_{-0.025}$ $(+0.0\sigma)$	σ_8	$0.852^{+0.023}_{-0.021}$ (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07197 ± 0.00044 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.150^{+0.058}_{-0.049}$ (-0.0σ)	$\sigma_8\Omega_m^{0.5}$	0.470 ± 0.012 (-0.0σ)	$H(0.57)$	93.22 ± 0.29 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9726 ± 0.0050 $(+0.4\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.633 ± 0.016 (-0.0σ)	$D_A(0.57)$	1381.2 ± 8.0 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	$1.032^{+0.028}_{-0.025}$ (-0.0σ)	$F_{AP}(0.57)$	0.6743 ± 0.0020 (-0.1σ)
$\boldsymbol{A^{PS}_{100}}$	239 ± 23 (-0.5σ)	$\langle d^2\rangle^{1/2}$	$2.543^{+0.065}_{-0.057}$ (-0.1σ)	$f\sigma_8(0.57)$	$0.493^{+0.013}_{-0.012}$ (-0.0σ)
$\boldsymbol{A^{PS}_{143}}$	36 ± 8 (-0.6σ)	z_{re}	$12.6^{+2.5}_{-1.8}$ $(+0.0\sigma)$	$\sigma_8(0.57)$	$0.635^{+0.018}_{-0.016}$ $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{217}}$	100 ± 10 $(+0.2\sigma)$	$10^9 A_s$	2.34 ± 0.12 (-0.0σ)	Y_P^{BBN}	$0.24631^{+0.00010}_{-0.000084}$ (-4.5σ)
$\boldsymbol{A^{CIB}_{217}}$	44 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.869 ± 0.012 (-0.3σ)	f^{143}_{2000}	27 ± 3 (-0.4σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.59^{+1.7}_{-2.4}$ (-1.0σ)	D_{40}	1236 ± 16 (-0.5σ)	f^{217}_{2000}	105.1 ± 2.2 $(+0.2\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.53 ± 0.12	D_{220}	5700^{+39}_{-44} (-0.5σ)	$f^{143\times217}_{2000}$	30.1 ± 2.4 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{810}	2528 ± 14 (-0.2σ)	χ^2_{lowl}	14.8 ± 1.6 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	$4.63^{+2.2}_{-3.9}$ $(+0.7\sigma)$	D_{1420}	814.9 ± 5.1 $(+0.0\sigma)$	$\chi^2_{CamSpec}$	8057.6 ± 5.7
$\boldsymbol{A^{dust}_{100}}$	0.98 ± 0.19	$n_{s,0.002}$	0.9726 ± 0.0050 $(+0.4\sigma)$	χ^2_{H070p6}	0.61 ± 0.27 (-0.1σ)
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	Y_P	0.244984 ± 0.000091 (-4.5σ)	χ^2_{JLA}	706.64 ± 0.16 (-0.1σ)
$\boldsymbol{A^{dust}_{217}}$	1.23 ± 0.12	Age/Gyr	13.782 ± 0.030 (-0.1σ)	χ^2_{6DF}	0.043 ± 0.061 (-0.0σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	z_*	1089.72 ± 0.32 (-0.1σ)	χ^2_{MGS}	1.76 ± 0.61 $(+0.1\sigma)$
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.4σ)	r_*	144.89 ± 0.32 $(+0.1\sigma)$	$\chi^2_{DR11CMASS}$	2.95 ± 0.76 $(+0.0\sigma)$
$\boldsymbol{c_{217}}$	0.9969 ± 0.0018 $(+0.8\sigma)$	$100\theta_*$	1.04130 ± 0.00042 $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.41 ± 0.44 (-0.1σ)
$\boldsymbol{\beta^1_1}$	-0.06 ± 0.99	z_{drag}	$1059.84^{+0.48}_{-0.44}$ (-0.0σ)	χ^2_{prior}	8.52 ± 3.6 $(+0.4\sigma)$
H_0	68.09 ± 0.59 $(+0.1\sigma)$	r_{drag}	147.55 ± 0.34 $(+0.1\sigma)$	χ^2_{BAO}	5.16 ± 1.1 $(+0.0\sigma)$
Ω_Λ	0.6953 ± 0.0077 $(+0.1\sigma)$	k_D	0.14041 ± 0.00045 (-0.0σ)	χ^2_{CMB}	8072.4 ± 5.6 $(+1346.4\sigma)$

$\bar{\chi}^2_{eff} = 8793.35$; $\Delta\bar{\chi}^2_{eff} = 7283.42$; $R - 1 = 0.00951$

2.47 base_CamSpecHM_TT_lowl_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02243 ± 0.00027 $(+0.1\sigma)$	H_0	68.3 ± 1.2 $(+0.1\sigma)$	$100\theta_*$	1.04137 ± 0.00051 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1177 ± 0.0025 (-0.1σ)	Ω_Λ	$0.698^{+0.017}_{-0.015}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.89 ± 0.52 $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04117 ± 0.00053 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.302 ± 0.015 (-0.1σ)	$r_{\rm drag}$	147.65 ± 0.52 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.116 ± 0.032 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.1407 ± 0.0024 (-0.1σ)	$k_{\rm D}$	0.14034 ± 0.00052 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.159 ± 0.059 $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	0.09614 ± 0.00047 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.16078 ± 0.00029 (-0.1σ)
$\boldsymbol{n_s}$	0.9742 ± 0.0079 $(+0.4\sigma)$	σ_8	0.854 ± 0.022 $(+0.0\sigma)$	$z_{\rm eq}$	3348 ± 56 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.469 ± 0.014 (-0.1σ)	$100\theta_{\rm eq}$	0.824 ± 0.011 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	238 ± 24 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.633 ± 0.015 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07216 ± 0.00090 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	36 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.033 ± 0.025 (-0.0σ)	$H(0.57)$	$93.34^{+0.52}_{-0.58}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	101 ± 10 $(+0.2\sigma)$	$\langle d^2\rangle^{1/2}$	2.545 ± 0.058 (-0.1σ)	$D_{\rm A}(0.57)$	1378 ± 16 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	44 ± 7 (-2.8σ)	$z_{\rm re}$	$13.0^{+2.8}_{-2.2}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6735 ± 0.0040 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.61^{+1.8}_{-2.5}$ (-1.0σ)	$10^9A_{\rm s}$	2.36 ± 0.14 $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.494 ± 0.012 (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9A_{\rm s}e^{-2\tau}$	1.867 ± 0.015 (-0.3σ)	$\sigma_8(0.57)$	0.638 ± 0.018 $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1236 ± 16 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.24633 ± 0.00012 (-3.4σ)
$\boldsymbol{A^{kSZ}}$	$4.59^{+2.0}_{-4.1}$ $(+0.7\sigma)$	D_{220}	5701 ± 41 (-0.5σ)	f_{2000}^{143}	27 ± 3 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{810}	2527 ± 14 (-0.3σ)	f_{2000}^{217}	104.9 ± 2.3 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	815.1 ± 5.2 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	29.9 ± 2.5 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	$n_{\rm s,0.002}$	0.9742 ± 0.0079 $(+0.4\sigma)$	$\chi^2_{\rm lowl}$	14.9 ± 1.7 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	0.24500 ± 0.00012 (-3.4σ)	$\chi^2_{\rm CamSpec}$	8058.1 ± 5.7
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.4σ)	Age/Gyr	13.773 ± 0.047 (-0.1σ)	$\chi^2_{\rm prior}$	8.53 ± 3.6 $(+0.4\sigma)$
$\boldsymbol{c_{217}}$	0.9969 ± 0.0018 $(+0.8\sigma)$	z_*	1089.62 ± 0.51 (-0.1σ)	$\chi^2_{\rm CMB}$	8072.9 ± 5.6 $(+1343.1\sigma)$
$\boldsymbol{\beta_1^1}$	-0.05 ± 0.99	r_*	145.00 ± 0.54 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 8081.47$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.36$; $R-1 = 0.00654$

2.48 base_CamSpecHM_TT_lowl_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00021 \quad (+0.0\sigma)$	Ω_m	$0.3063 \pm 0.0080 \quad (-0.1\sigma)$	$100\theta_D$	$0.16082 \pm 0.00027 \quad (-0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1184 \pm 0.0013 \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1414 \pm 0.0013 \quad (-0.1\sigma)$	z_{eq}	$3364 \pm 30 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04107 \pm 0.00043 \quad (+0.1\sigma)$	$\Omega_m h^3$	$0.09612 \pm 0.00047 \quad (+0.0\sigma)$	$100\theta_{eq}$	$0.8203 \pm 0.0057 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.109^{+0.029}_{-0.026} \quad (+0.0\sigma)$	σ_8	$0.851 \pm 0.021 \quad (-0.0\sigma)$	$r_{drag}/D_V(0.57)$	$0.07188 \pm 0.00045 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.147^{+0.056}_{-0.050} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.471 \pm 0.012 \quad (-0.0\sigma)$	$H(0.57)$	$93.17 \pm 0.30 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9719 \pm 0.0051 \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.633 \pm 0.016 \quad (-0.0\sigma)$	$D_A(0.57)$	$1382.8 \pm 8.3 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.032 \pm 0.025 \quad (-0.0\sigma)$	$F_{AP}(0.57)$	$0.6747 \pm 0.0020 \quad (-0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$240 \pm 23 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.543 \pm 0.058 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.493 \pm 0.012 \quad (-0.0\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$36 \pm 8 \quad (-0.6\sigma)$	z_{re}	$12.5^{+2.4}_{-1.9} \quad (+0.0\sigma)$	$\sigma_8(0.57)$	$0.635 \pm 0.016 \quad (+0.0\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$100 \pm 10 \quad (+0.2\sigma)$	$10^9 A_s$	$2.33 \pm 0.12 \quad (-0.0\sigma)$	Y_P^{BBN}	$0.24630^{+0.00010}_{-0.000086} \quad (-4.5\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$44 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.870 \pm 0.012 \quad (-0.3\sigma)$	f^{143}_{2000}	$27 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.57^{+1.7}_{-2.4} \quad (-1.0\sigma)$	D_{40}	$1236 \pm 15 \quad (-0.5\sigma)$	f^{217}_{2000}	$105.2 \pm 2.1 \quad (+0.2\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.53 ± 0.12	D_{220}	$5699^{+39}_{-44} \quad (-0.5\sigma)$	$f^{143\times217}_{2000}$	$30.2 \pm 2.3 \quad (-0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{810}	$2528 \pm 14 \quad (-0.2\sigma)$	χ^2_{lowl}	$14.9 \pm 1.6 \quad (-0.4\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.67^{+2.3}_{-3.8} \quad (+0.7\sigma)$	D_{1420}	$814.8 \pm 5.1 \quad (+0.0\sigma)$	$\chi^2_{CamSpec}$	8057.6 ± 5.7
$\boldsymbol{A^{dust}_{100}}$	0.98 ± 0.19	$n_{s,0.002}$	$0.9719 \pm 0.0051 \quad (+0.4\sigma)$	χ^2_{6DF}	$0.048 \pm 0.067 \quad (-0.0\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	Y_P	$0.244974 \pm 0.000091 \quad (-4.5\sigma)$	χ^2_{MGS}	$1.64 \pm 0.62 \quad (+0.1\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.23 ± 0.12	Age/Gyr	$13.786 \pm 0.031 \quad (-0.0\sigma)$	$\chi^2_{DR11CMASS}$	$2.93 \pm 0.73 \quad (+0.0\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	z_*	$1089.77 \pm 0.33 \quad (-0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.51 \pm 0.51 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00098 \quad (-1.4\sigma)$	r_*	$144.84 \pm 0.33 \quad (+0.1\sigma)$	χ^2_{prior}	$8.52 \pm 3.6 \quad (+0.4\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.8\sigma)$	$100\theta_*$	$1.04126 \pm 0.00043 \quad (+0.1\sigma)$	χ^2_{BAO}	$5.12 \pm 1.1 \quad (+0.0\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	z_{drag}	$1059.81^{+0.48}_{-0.43} \quad (-0.0\sigma)$	χ^2_{CMB}	$8072.5 \pm 5.6 \quad (+1357.9\sigma)$
H_0	$67.96 \pm 0.61 \quad (+0.1\sigma)$	r_{drag}	$147.51 \pm 0.35 \quad (+0.1\sigma)$		
Ω_Λ	$0.6937 \pm 0.0080 \quad (+0.1\sigma)$	k_D	$0.14044 \pm 0.00045 \quad (-0.0\sigma)$		

$\bar{\chi}^2_{eff} = 8086.11$; $\Delta\bar{\chi}^2_{eff} = 7283.47$; $R - 1 = 0.01005$

2.49 base_CamSpecHM_TTTEEE_lowl

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022429	0.02244 ± 0.00018 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.00030	1.0003 ± 0.0042	z_*	1089.697	1089.69 ± 0.33 (-0.7σ)
$\boldsymbol{\Omega_c h^2}$	0.11847	0.1184 ± 0.0016 (-0.5σ)	$\boldsymbol{\beta_1^1}$	-0.19	-0.1 ± 1.0	r_*	144.785	144.79 ± 0.34 $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040908	1.04091 ± 0.00032 $(+0.2\sigma)$	H_0	67.94	67.96 ± 0.73 $(+0.5\sigma)$	$100\theta_*$	1.041093	1.04110 ± 0.00031 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0989	0.099 ± 0.026 (-0.0σ)	Ω_Λ	0.6933	0.6935 ± 0.0096 $(+0.5\sigma)$	$z_{\rm drag}$	1059.933	1059.96 ± 0.34 $(+0.6\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.1256	3.126 ± 0.050 (-0.1σ)	$\Omega_{\rm m}$	0.3067	0.3065 ± 0.0096 (-0.5σ)	$r_{\rm drag}$	147.435	147.44 ± 0.33 $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.9702	0.9708 ± 0.0055 $(+0.7\sigma)$	$\Omega_{\rm m} h^2$	0.14154	0.1415 ± 0.0015 (-0.4σ)	$k_{\rm D}$	0.140568	0.14057 ± 0.00034 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	0.99974	1.0001 ± 0.0024 (-0.1σ)	$\Omega_{\rm m} h^3$	0.096159	0.09616 ± 0.00030 $(+0.4\sigma)$	$100\theta_{\rm D}$	0.160705	0.16070 ± 0.00020 (-0.8σ)
$\boldsymbol{A_{100}^{PS}}$	242.1	240 ± 22 (-0.6σ)	σ_8	0.8410	0.841 ± 0.020 (-0.2σ)	$z_{\rm eq}$	3367.0	3366 ± 35 (-0.4σ)
$\boldsymbol{A_{143}^{PS}}$	33.8	37 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4657	0.466 ± 0.011 (-0.6σ)	$100\theta_{\rm eq}$	0.8198	0.8200 ± 0.0068 $(+0.4\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99.5	100 ± 10 $(+0.2\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6258	0.626 ± 0.014 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07183	0.07185 ± 0.00055 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46.3	44 ± 7 (-2.9σ)	$\sigma_8/h^{0.5}$	1.0203	1.021 ± 0.022 (-0.4σ)	$H(0.57)$	93.165	93.18 ± 0.32 $(+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	4.31	$3.56^{+1.7}_{-2.4}$ (-1.0σ)	$\langle d^2 \rangle^{1/2}$	2.519	2.519 ± 0.053 (-0.5σ)	$D_{\rm A}(0.57)$	1383.1	1382.8 ± 9.7 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.446	0.52 ± 0.12	$z_{\rm re}$	11.71	$11.6^{+2.4}_{-2.0}$ (-0.1σ)	$F_{\rm AP}(0.57)$	0.67480	0.6747 ± 0.0025 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.277	2.28 ± 0.12 (-0.1σ)	$f\sigma_8(0.57)$	0.4877	0.488 ± 0.011 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	3.08	$4.75^{+2.5}_{-3.7}$ $(+0.8\sigma)$	$10^9 A_s e^{-2\tau}$	1.8688	1.870 ± 0.012 (-0.7σ)	$\sigma_8(0.57)$	0.6268	0.627 ± 0.016 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.996	0.98 ± 0.19	D_{40}	1232.3	1233 ± 14 (-0.9σ)	$Y_{\rm P}^{\rm BBN}$	0.246329	0.246330 ± 0.000076 (-4.8σ)
$\boldsymbol{A_{143}^{dust}}$	1.031	1.02 ± 0.18	D_{220}	5706.3	5709 ± 38 (-0.5σ)	f_{2000}^{143}	27.52	27.2 ± 2.9 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.219	1.22 ± 0.12	D_{810}	2525.6	2528 ± 13 (-0.4σ)	f_{2000}^{217}	105.31	105.2 ± 2.0 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.978	0.98 ± 0.18	D_{1420}	813.88	814.7 ± 4.6 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	30.38	30.3 ± 2.1 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99678	0.99679 ± 0.00099 (-1.8σ)	$n_{\rm s,0.002}$	0.9702	0.9708 ± 0.0055 $(+0.7\sigma)$	$\chi^2_{\rm lowl}$	14.32	14.5 ± 1.4 (-0.8σ)
$\boldsymbol{c_{217}}$	0.99696	0.9969 ± 0.0018 $(+0.7\sigma)$	$Y_{\rm P}$	0.244998	0.245002 ± 0.000077 (-4.8σ)	$\chi^2_{\rm CamSpec}$	12935.1	12951.8 ± 6.1
$\boldsymbol{c_{TE}}$	1.00296	1.0029 ± 0.0046	Age/Gyr	13.7856	13.784 ± 0.029 (-0.6σ)	$\chi^2_{\rm CMB}$	12949.4	12966.2 ± 6.0 $(+1567.8\sigma)$

Best-fit $\chi^2_{\rm eff} = 12952.73$; $\Delta\chi^2_{\rm eff} = 10500.85$; $\bar{\chi}^2_{\rm eff} = 12975.07$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.78$; $R - 1 = 0.00621$
$\chi^2_{\rm eff}$: CMB - commander_rc2_v1.1_l2_29_B: 14.32 (Δ -1.17) CamSpec like_v9.10CMH_unified: 12935.10

2.50 base_CamSpecHM_TTTEEE_lowl_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02243 \pm 0.00015 \quad (+0.6\sigma)$	H_0	$67.91 \pm 0.50 \quad (+0.4\sigma)$	$r_{\rm drag}$	$147.42 \pm 0.26 \quad (-0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1185 \pm 0.0011 \quad (-0.3\sigma)$	Ω_Λ	$0.6929 \pm 0.0067 \quad (+0.3\sigma)$	$k_{\rm D}$	$0.14058 \pm 0.00030 \quad (+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04090 \pm 0.00029 \quad (+0.0\sigma)$	$\Omega_{\rm m}$	$0.3071 \pm 0.0067 \quad (-0.3\sigma)$	$100\theta_{\rm D}$	$0.16071 \pm 0.00019 \quad (-0.7\sigma)$
$\boldsymbol{\tau}$	$0.098 \pm 0.024 \quad (-0.2\sigma)$	$\Omega_{\rm m} h^2$	$0.1416 \pm 0.0010 \quad (-0.2\sigma)$	$z_{\rm eq}$	$3368 \pm 25 \quad (-0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.124 \pm 0.047 \quad (-0.3\sigma)$	$\Omega_{\rm m} h^3$	$0.09616 \pm 0.00030 \quad (+0.4\sigma)$	$100\theta_{\rm eq}$	$0.8195 \pm 0.0048 \quad (+0.3\sigma)$
$\boldsymbol{n_s}$	$0.9705 \pm 0.0044 \quad (+0.6\sigma)$	σ_8	$0.841 \pm 0.019 \quad (-0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07181 \pm 0.00038 \quad (+0.3\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001 \pm 0.0024 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.466 \pm 0.011 \quad (-0.5\sigma)$	$H(0.57)$	$93.16 \pm 0.23 \quad (+0.4\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$240 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.626 \pm 0.014 \quad (-0.4\sigma)$	$D_{\rm A}(0.57)$	$1383.4 \pm 6.8 \quad (-0.4\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$37 \pm 8 \quad (-0.7\sigma)$	$\sigma_8/h^{0.5}$	$1.020 \pm 0.022 \quad (-0.4\sigma)$	$F_{\rm AP}(0.57)$	$0.6749 \pm 0.0017 \quad (-0.3\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$100 \pm 10 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.518 \pm 0.053 \quad (-0.5\sigma)$	$f\sigma_8(0.57)$	$0.488 \pm 0.011 \quad (-0.4\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$44 \pm 7 \quad (-2.8\sigma)$	$z_{\rm re}$	$11.5^{+2.2}_{-1.9} \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.627 \pm 0.015 \quad (-0.3\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.56^{+1.7}_{-2.4} \quad (-1.0\sigma)$	$10^9 A_{\rm s}$	$2.28 \pm 0.11 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246326 \pm 0.000065 \quad (-5.7\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.52 ± 0.12	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	f^{143}_{2000}	$27.3 \pm 2.8 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	$1233 \pm 14 \quad (-0.9\sigma)$	f^{217}_{2000}	$105.2 \pm 2.0 \quad (+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.79^{+2.7}_{-3.5} \quad (+0.8\sigma)$	D_{220}	$5708 \pm 38 \quad (-0.5\sigma)$	$f^{143\times217}_{2000}$	$30.3 \pm 2.1 \quad (-0.5\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.98 ± 0.19	D_{810}	$2528 \pm 13 \quad (-0.4\sigma)$	$\chi^2_{\rm lowl}$	$14.4 \pm 1.3 \quad (-0.8\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	D_{1420}	$814.7 \pm 4.6 \quad (+0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12951.3 ± 5.9
$\boldsymbol{A^{dust}_{217}}$	1.23 ± 0.12	$n_{\rm s,0.002}$	$0.9705 \pm 0.0044 \quad (+0.6\sigma)$	$\chi^2_{\rm 6DF}$	$0.037 \pm 0.051 \quad (-0.2\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244997 \pm 0.000066 \quad (-5.8\sigma)$	$\chi^2_{\rm MGS}$	$1.54 \pm 0.51 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00098 \quad (-1.8\sigma)$	Age/Gyr	$13.786 \pm 0.022 \quad (-0.5\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.76 \pm 0.49 \quad (-0.1\sigma)$
$\boldsymbol{c_{217}}$	$0.9969 \pm 0.0018 \quad (+0.8\sigma)$	z_*	$1089.71 \pm 0.25 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.53 \pm 0.45 \quad (-0.3\sigma)$
$\boldsymbol{c_{TE}}$	1.0029 ± 0.0046	r_*	$144.77 \pm 0.25 \quad (+0.1\sigma)$	$\chi^2_{\rm prior}$	$8.88 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0003 ± 0.0042	$100\theta_*$	$1.04109 \pm 0.00028 \quad (+0.0\sigma)$	$\chi^2_{\rm BAO}$	$4.87 \pm 0.74 \quad (-0.0\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$z_{\rm drag}$	$1059.94 \pm 0.32 \quad (+0.5\sigma)$	$\chi^2_{\rm CMB}$	$12965.7 \pm 5.8 \quad (+1588.4\sigma)$

$\bar{\chi}^2_{\rm eff} = 12979.46$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.72$; $R - 1 = 0.00953$

2.51 base_CamSpecHM_TTTEEE_lowl_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02244 \pm 0.00015 \quad (+0.6\sigma)$	Ω_Λ	$0.6941 \pm 0.0065 \quad (+0.3\sigma)$	$100\theta_{\rm D}$	$0.16069 \pm 0.00019 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1183 \pm 0.0011 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3059 \pm 0.0065 \quad (-0.3\sigma)$	$z_{\rm eq}$	$3364 \pm 24 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04092 \pm 0.00029 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1414 \pm 0.0010 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8204 \pm 0.0046 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.0997 \pm 0.024 \quad (-0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09617 \pm 0.00030 \quad (+0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07188 \pm 0.00037 \quad (+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.128 \pm 0.047 \quad (-0.3\sigma)$	σ_8	$0.842 \pm 0.019 \quad (-0.3\sigma)$	$H(0.57)$	$93.20 \pm 0.23 \quad (+0.4\sigma)$
$\boldsymbol{n_s}$	$0.9710 \pm 0.0044 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.466 \pm 0.011 \quad (-0.5\sigma)$	$D_{\rm A}(0.57)$	$1382.2 \pm 6.6 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0000 \pm 0.0024 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.626 \pm 0.014 \quad (-0.4\sigma)$	$F_{\rm AP}(0.57)$	$0.6746 \pm 0.0017 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$240 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.021 \pm 0.022 \quad (-0.4\sigma)$	$f\sigma_8(0.57)$	$0.488 \pm 0.011 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$36 \pm 8 \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.519 \pm 0.053 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.628 \pm 0.015 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.2\sigma)$	$z_{\rm re}$	$11.7^{+2.1}_{-1.8} \quad (-0.2\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246334 \pm 0.000064 \quad (-5.8\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.8\sigma)$	$10^9 A_{\rm s}$	$2.28 \pm 0.11 \quad (-0.3\sigma)$	f_{2000}^{143}	$27.1 \pm 2.8 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.59^{+1.7}_{-2.4} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	f_{2000}^{217}	$105.1 \pm 1.9 \quad (+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	D_{40}	$1233 \pm 14 \quad (-0.9\sigma)$	$f_{2000}^{143\times217}$	$30.2 \pm 2.1 \quad (-0.5\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	$5709 \pm 38 \quad (-0.5\sigma)$	$\chi^2_{\rm lowl}$	$14.4 \pm 1.4 \quad (-0.8\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.75^{+2.5}_{-3.7} \quad (+0.9\sigma)$	D_{810}	$2527 \pm 13 \quad (-0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12951.2 ± 5.9
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{1420}	$814.8 \pm 4.6 \quad (-0.0\sigma)$	$\chi^2_{\rm H070p6}$	$0.63 \pm 0.23 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.9710 \pm 0.0044 \quad (+0.6\sigma)$	$\chi^2_{\rm JLA}$	$706.65 \pm 0.14 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	$Y_{\rm P}$	$0.245005 \pm 0.000066 \quad (-5.9\sigma)$	$\chi^2_{\rm 6DF}$	$0.032 \pm 0.044 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.783 \pm 0.022 \quad (-0.5\sigma)$	$\chi^2_{\rm MGS}$	$1.63 \pm 0.51 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00098 \quad (-1.8\sigma)$	z_*	$1089.67 \pm 0.25 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.76 \pm 0.49 \quad (+0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9969 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.81 \pm 0.25 \quad (+0.0\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.45 \pm 0.40 \quad (-0.3\sigma)$
$\boldsymbol{c_{TE}}$	1.0028 ± 0.0046	$100\theta_*$	$1.04111 \pm 0.00028 \quad (+0.0\sigma)$	$\chi^2_{\rm prior}$	$8.88 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0003 ± 0.0042	$z_{\rm drag}$	$1059.97 \pm 0.32 \quad (+0.5\sigma)$	$\chi^2_{\rm BAO}$	$4.88 \pm 0.74 \quad (+0.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	$147.45 \pm 0.25 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$12965.7 \pm 5.8 \quad (+1584.8\sigma)$
H_0	$68.00 \pm 0.49 \quad (+0.4\sigma)$	$k_{\rm D}$	$0.14056 \pm 0.00030 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 13686.72$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.61$; $R - 1 = 0.01030$

2.52 base_CamSpecHM_TTTEEE_lowl_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02244 \pm 0.00017 \quad (+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04110 \pm 0.00031 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1184 \pm 0.0016 \quad (-0.5\sigma)$	H_0	$67.98 \pm 0.72 \quad (+0.5\sigma)$	$z_{\rm drag}$	$1059.96 \pm 0.34 \quad (+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04091 \pm 0.00032 \quad (+0.2\sigma)$	Ω_Λ	$0.6937 \pm 0.0095 \quad (+0.5\sigma)$	$r_{\rm drag}$	$147.44 \pm 0.33 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.100^{+0.024}_{-0.027} \quad (-0.0\sigma)$	$\Omega_{\rm m}$	$0.3063 \pm 0.0095 \quad (-0.5\sigma)$	$k_{\rm D}$	$0.14056 \pm 0.00034 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.129 \pm 0.048 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1415 \pm 0.0015 \quad (-0.4\sigma)$	$100\theta_{\rm D}$	$0.16070 \pm 0.00020 \quad (-0.8\sigma)$
$\boldsymbol{n_s}$	$0.9709 \pm 0.0054 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^3$	$0.09617 \pm 0.00030 \quad (+0.4\sigma)$	$z_{\rm eq}$	$3365 \pm 35 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001 \pm 0.0024 \quad (-0.1\sigma)$	σ_8	$0.842^{+0.018}_{-0.020} \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8202 \pm 0.0068 \quad (+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$240 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.466 \pm 0.011 \quad (-0.6\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07186 \pm 0.00054 \quad (+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$37 \pm 8 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.626 \pm 0.013 \quad (-0.4\sigma)$	$H(0.57)$	$93.19 \pm 0.31 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.021^{+0.021}_{-0.023} \quad (-0.4\sigma)$	$D_{\rm A}(0.57)$	$1382.5 \pm 9.5 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.521 \pm 0.051 \quad (-0.5\sigma)$	$F_{\rm AP}(0.57)$	$0.6747 \pm 0.0024 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.58^{+1.7}_{-2.4} \quad (-1.0\sigma)$	$z_{\rm re}$	$11.7 \pm 2.0 \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.4882^{+0.0099}_{-0.011} \quad (-0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s}$	$2.29^{+0.10}_{-0.12} \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.628^{+0.014}_{-0.016} \quad (-0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.012 \quad (-0.7\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246332 \pm 0.000074 \quad (-4.7\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.75^{+2.5}_{-3.8} \quad (+0.8\sigma)$	D_{40}	$1234 \pm 14 \quad (-0.9\sigma)$	f_{2000}^{143}	$27.2 \pm 2.9 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	$5709 \pm 38 \quad (-0.5\sigma)$	f_{2000}^{217}	$105.1 \pm 2.0 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2527 \pm 13 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$30.2 \pm 2.1 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$814.7 \pm 4.6 \quad (+0.0\sigma)$	$\chi^2_{\rm lowl}$	$14.5 \pm 1.4 \quad (-0.8\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9709 \pm 0.0054 \quad (+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12951.7 ± 6.0
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00098 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.245003 \pm 0.000076 \quad (-4.8\sigma)$	$\chi^2_{\rm prior}$	$8.85 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{217}}$	$0.9969 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.784 \pm 0.028 \quad (-0.6\sigma)$	$\chi^2_{\rm CMB}$	$12966.2 \pm 5.9 \quad (+1576.7\sigma)$
$\boldsymbol{c_{TE}}$	1.0028 ± 0.0046	z_*	$1089.68 \pm 0.32 \quad (-0.7\sigma)$		
$\boldsymbol{c_{EE}}$	1.0003 ± 0.0042	r_*	$144.80 \pm 0.34 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 12975.01$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.75$; $R - 1 = 0.01135$

2.53 base_CamSpecHM_TTTEEE_lowl_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02243 ± 0.00015 $(+0.6\sigma)$	H_0	67.92 ± 0.50 $(+0.4\sigma)$	$r_{\rm drag}$	147.42 ± 0.26 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0011 (-0.3σ)	Ω_Λ	0.6930 ± 0.0066 $(+0.3\sigma)$	$k_{\rm D}$	0.14058 ± 0.00030 $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04090 ± 0.00029 $(+0.0\sigma)$	$\Omega_{\rm m}$	0.3070 ± 0.0066 (-0.3σ)	$100\theta_{\rm D}$	0.16071 ± 0.00019 (-0.7σ)
$\boldsymbol{\tau}$	0.099 ± 0.023 (-0.2σ)	$\Omega_{\rm m} h^2$	0.1416 ± 0.0010 (-0.2σ)	$z_{\rm eq}$	3368 ± 25 (-0.2σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.126 ± 0.045 (-0.3σ)	$\Omega_{\rm m} h^3$	0.09616 ± 0.00030 $(+0.4\sigma)$	$100\theta_{\rm eq}$	0.8196 ± 0.0047 $(+0.3\sigma)$
$\boldsymbol{n_s}$	0.9705 ± 0.0044 $(+0.6\sigma)$	σ_8	0.842 ± 0.018 (-0.3σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07181 ± 0.00037 $(+0.3\sigma)$
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0024 (-0.1σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.466 ± 0.010 (-0.5σ)	$H(0.57)$	93.16 ± 0.23 $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	240 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.626 ± 0.013 (-0.4σ)	$D_{\rm A}(0.57)$	1383.3 ± 6.7 (-0.4σ)
$\boldsymbol{A_{143}^{PS}}$	37 ± 8 (-0.7σ)	$\sigma_8/h^{0.5}$	1.021 ± 0.022 (-0.4σ)	$F_{\rm AP}(0.57)$	0.6749 ± 0.0017 (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	100 ± 10 $(+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.520 ± 0.051 (-0.5σ)	$f\sigma_8(0.57)$	0.488 ± 0.010 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	44 ± 7 (-2.8σ)	$z_{\rm re}$	11.6 ± 1.9 (-0.2σ)	$\sigma_8(0.57)$	$0.627^{+0.014}_{-0.015}$ (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.57^{+1.7}_{-2.4}$ (-1.0σ)	$10^9 A_{\rm s}$	$2.281^{+0.096}_{-0.11}$ (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.246327 ± 0.000065 (-5.7σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s} e^{-2\tau}$	1.870 ± 0.011 (-0.6σ)	f_{2000}^{143}	27.2 ± 2.8 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1233 ± 14 (-0.9σ)	f_{2000}^{217}	105.2 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.78^{+2.6}_{-3.6}$ $(+0.8\sigma)$	D_{220}	5708 ± 38 (-0.5σ)	$f_{2000}^{143\times217}$	30.3 ± 2.1 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{810}	2528 ± 13 (-0.4σ)	$\chi^2_{\rm lowl}$	14.5 ± 1.3 (-0.8σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	814.6 ± 4.6 (-0.0σ)	$\chi^2_{\rm CamSpec}$	12951.2 ± 5.8
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	$n_{\rm s,0.002}$	0.9705 ± 0.0044 $(+0.6\sigma)$	$\chi^2_{\rm 6DF}$	0.036 ± 0.050 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	0.244998 ± 0.000066 (-5.8σ)	$\chi^2_{\rm MGS}$	1.55 ± 0.51 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99678 ± 0.00098 (-1.8σ)	Age/Gyr	13.786 ± 0.022 (-0.5σ)	$\chi^2_{\rm DR11CMASS}$	2.76 ± 0.49 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9969 ± 0.0018 $(+0.7\sigma)$	z_*	1089.70 ± 0.25 (-0.6σ)	$\chi^2_{\rm DR11LOWZ}$	0.52 ± 0.44 (-0.3σ)
$\boldsymbol{c_{TE}}$	1.0029 ± 0.0046	r_*	144.77 ± 0.25 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	8.87 ± 3.5 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0003 ± 0.0042	$100\theta_*$	1.04109 ± 0.00028 $(+0.0\sigma)$	$\chi^2_{\rm BAO}$	4.87 ± 0.73 (-0.0σ)
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$z_{\rm drag}$	1059.95 ± 0.32 $(+0.5\sigma)$	$\chi^2_{\rm CMB}$	12965.6 ± 5.8 $(+1595.5\sigma)$

$\bar{\chi}^2_{\rm eff} = 12979.37$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.69$; $R - 1 = 0.00956$

2.54 base_plikHM_TT_lowl_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022296	0.02228 ± 0.00026	$\Omega_m h^2$	0.14114	0.1412 ± 0.0024	z_{drag}	1059.628	1059.60 ± 0.50
$\boldsymbol{\Omega_c h^2}$	0.11819	0.1182 ± 0.0025	$\Omega_m h^3$	0.095945	0.09592 ± 0.00045	r_{drag}	147.65	147.67 ± 0.52
$\boldsymbol{100\theta_{MC}}$	1.04106	1.04107 ± 0.00052	σ_8	0.8175	0.817 ± 0.012	k_D	0.14022	0.14019 ± 0.00052
$\boldsymbol{\tau}$	0.0706	0.070 ± 0.024	$\sigma_8 \Omega_m^{0.5}$	0.4518	0.4515 ± 0.0092	$100\theta_D$	0.160941	0.16097 ± 0.00028
$\boldsymbol{\ln(10^{10} A_s)}$	3.0708	3.069 ± 0.043	$\sigma_8 \Omega_m^{0.25}$	0.6077	0.6072 ± 0.0078	z_{eq}	3357	3358 ± 56
$\boldsymbol{n_s}$	0.9689	0.9686 ± 0.0074	$\sigma_8/h^{0.5}$	0.9915	0.991 ± 0.012	k_{eq}	0.010247	0.01025 ± 0.00017
$\boldsymbol{y_{cal}}$	1.00005	1.0001 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.4518	2.451 ± 0.029	$100\theta_{eq}$	0.8213	0.821 ± 0.011
$\boldsymbol{A_{217}^{CIB}}$	67.3	64.4 ± 6.7	z_{re}	9.26	$9.03^{+2.5}_{-2.1}$	$100\theta_{s,eq}$	0.4536	0.4537 ± 0.0056
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.156	$2.154^{+0.088}_{-0.10}$	$r_{drag}/D_V(0.57)$	0.07193	0.07194 ± 0.00089
$\boldsymbol{A_{143}^{tSZ}}$	7.16	5.10 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8720	1.872 ± 0.015	$H(0.57)$	93.13	$93.14^{+0.50}_{-0.57}$
$\boldsymbol{A_{100}^{PS}}$	254.4	259 ± 28	D_{40}	1224.4	1227 ± 13	$D_A(0.57)$	1382.9	1383 ± 16
$\boldsymbol{A_{143}^{PS}}$	39.2	44 ± 8	D_{220}	5716.7	5718 ± 41	$F_{AP}(0.57)$	0.67448	0.6746 ± 0.0040
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	38 ± 10	D_{810}	2531.5	2531 ± 14	$f\sigma_8(0.57)$	0.4737	0.4732 ± 0.0058
$\boldsymbol{A_{217}^{PS}}$	97.1	96 ± 10	D_{1420}	814.8	814.5 ± 5.1	$\sigma_8(0.57)$	0.6097	0.609 ± 0.012
$\boldsymbol{A^{kSZ}}$	0.00	< 4.92	D_{2000}	230.27	230.1 ± 1.9	f_{2000}^{143}	29.93	30.3 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.45 ± 1.9	$n_{s,0.002}$	0.9689	0.9686 ± 0.0074	$f_{2000}^{143\times217}$	32.47	32.7 ± 2.2
$\boldsymbol{A_{143}^{dustTT}}$	9.06	9.09 ± 1.8	Y_P	0.245360	0.24535 ± 0.00012	f_{2000}^{217}	106.03	106.2 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.67	17.2 ± 4.1	Y_P^{BBN}	0.246687	0.24668 ± 0.00012	$\chi^2_{lensing}$	9.37	10.1 ± 1.8
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	10^5D/H	2.6053	2.609 ± 0.049	χ^2_{lowl}	13.29	13.52 ± 0.96
$\boldsymbol{c_{100}}$	0.99790	0.99787 ± 0.00078	Age/Gyr	13.7928	13.794 ± 0.046	χ^2_{plik}	766.1	779.7 ± 5.6
$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0015	z_*	1089.85	1089.88 ± 0.50	χ^2_{prior}	2.08	7.46 ± 3.6
H_0	67.98	68.0 ± 1.2	r_*	144.96	144.96 ± 0.54	χ^2_{CMB}	788.7	803.4 ± 5.5
Ω_Λ	0.6946	0.694 ± 0.015	$100\theta_*$	1.04126	1.04127 ± 0.00051			
Ω_m	0.3054	0.306 ± 0.015	D_A/Gpc	13.9212	13.922 ± 0.049			

Best-fit $\chi^2_{eff} = 790.81$; $\bar{\chi}^2_{eff} = 810.82$; $R - 1 = 0.00684$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.37 commander_rc2_v1.1_l2_29_B: 13.29 plik_dx11dr2_HM_v18_TT: 766.07

2.55 base_plikHM_TT_lowl_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022263	0.02226 ± 0.00020	$\Omega_m h^3$	0.095919	0.09591 ± 0.00045	k_D	0.140247	0.14023 ± 0.00043
$\boldsymbol{\Omega_c h^2}$	0.11853	0.1185 ± 0.0013	σ_8	0.8164	0.816 ± 0.011	$100\theta_D$	0.160969	0.16098 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.041018	1.04103 ± 0.00042	$\sigma_8\Omega_m^{0.5}$	0.4527	0.4523 ± 0.0067	z_{eq}	3364.4	3364 ± 30
$\boldsymbol{\tau}$	0.0677	0.067 ± 0.016	$\sigma_8\Omega_m^{0.25}$	0.6079	0.6074 ± 0.0076	k_{eq}	0.010269	0.010268 ± 0.000092
$\boldsymbol{\ln(10^{10}A_s)}$	3.0656	3.064 ± 0.030	$\sigma_8/h^{0.5}$	0.9913	0.990 ± 0.012	$100\theta_{eq}$	0.8199	0.8199 ± 0.0057
$\boldsymbol{n_s}$	0.96808	0.9677 ± 0.0047	$\langle d^2\rangle^{1/2}$	2.4508	2.450 ± 0.029	$100\theta_{s,eq}$	0.45291	0.4529 ± 0.0029
$\boldsymbol{y_{cal}}$	0.99997	1.0001 ± 0.0025	z_{re}	9.00	$8.85^{+1.7}_{-1.4}$	$r_{drag}/D_V(0.57)$	0.071814	0.07182 ± 0.00045
$\boldsymbol{A_{217}^{CIB}}$	67.5	64.6 ± 6.6	$10^9 A_s$	2.145	2.142 ± 0.064	$H(0.57)$	93.063	93.06 ± 0.29
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8732	1.873 ± 0.012	$D_A(0.57)$	1385.0	1385.1 ± 8.3
$\boldsymbol{A_{143}^{tSZ}}$	7.19	5.07 ± 2.0	D_{40}	1224.9	1227 ± 12	$F_{AP}(0.57)$	0.67501	0.6750 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	254.0	260 ± 28	D_{220}	5713.9	5717 ± 41	$f\sigma_8(0.57)$	0.4736	0.4732 ± 0.0059
$\boldsymbol{A_{143}^{PS}}$	39.4	44 ± 8	D_{810}	2531.6	2532 ± 14	$\sigma_8(0.57)$	0.6083	0.6078 ± 0.0090
$\boldsymbol{A_{143\times217}^{PS}}$	32.8	38 ± 10	D_{1420}	814.57	814.4 ± 5.0	f_{2000}^{143}	30.03	30.5 ± 2.9
$\boldsymbol{A_{217}^{PS}}$	97.1	96 ± 10	D_{2000}	230.10	230.0 ± 1.8	$f_{2000}^{143\times217}$	32.60	32.8 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.00	< 4.90	$n_{s,0.002}$	0.96808	0.9677 ± 0.0047	f_{2000}^{217}	106.15	106.3 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.45	7.46 ± 1.9	Y_P	0.245346	0.245340 ± 0.000092	$\chi^2_{lensing}$	9.36	10.1 ± 1.8
$\boldsymbol{A_{143}^{dustTT}}$	9.09	9.06 ± 1.8	Y_P^{BBN}	0.246672	0.246667 ± 0.000093	χ^2_{lowl}	13.34	13.50 ± 0.84
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.77	17.2 ± 4.1	10^5D/H	2.6115	2.613 ± 0.039	χ^2_{plik}	766.0	779.1 ± 5.5
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.3	Age/Gyr	13.7990	13.799 ± 0.030	χ^2_{6DF}	0.0061	0.051 ± 0.071
$\boldsymbol{c_{100}}$	0.99791	0.99788 ± 0.00078	z_*	1089.924	1089.94 ± 0.32	χ^2_{MGS}	1.47	1.55 ± 0.61
$\boldsymbol{c_{217}}$	0.99599	0.9960 ± 0.0014	r_*	144.895	144.90 ± 0.32	$\chi^2_{DR11CMASS}$	2.402	2.90 ± 0.71
H_0	67.82	67.82 ± 0.61	$100\theta_*$	1.041218	1.04123 ± 0.00042	$\chi^2_{DR11LOWZ}$	0.424	0.58 ± 0.55
Ω_Λ	0.6925	0.6924 ± 0.0080	D_A/Gpc	13.9160	13.916 ± 0.031	χ^2_{prior}	2.08	7.42 ± 3.5
Ω_m	0.3075	0.3076 ± 0.0080	z_{drag}	1059.589	1059.57 ± 0.45	χ^2_{CMB}	788.7	802.8 ± 5.4
$\Omega_m h^2$	0.14143	0.1414 ± 0.0013	r_{drag}	147.601	147.61 ± 0.34	χ^2_{BAO}	4.30	5.08 ± 1.1

Best-fit $\chi^2_{eff} = 795.13$; $\bar{\chi}^2_{eff} = 815.27$; $R - 1 = 0.01077$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.40 DR11LOWZ: 0.42 CMB - smica_g30_ftl_full_pp: 9.36 commander_rc2_v1.1_l2_29_B: 13.34 plik_dx11dr2_HM_v18_TT: 766.05

2.56 base_plikHM_TT_lowl_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022305	0.02228 ± 0.00020	σ_8	0.8177	0.817 ± 0.011	$z_{\rm eq}$	3359.3	3358 ± 29
$\boldsymbol{\Omega_c h^2}$	0.11827	0.1183 ± 0.0013	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4521	0.4515 ± 0.0066	$k_{\rm eq}$	0.010253	0.010250 ± 0.000089
$\boldsymbol{100\theta_{\rm MC}}$	1.041084	1.04107 ± 0.00042	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6080	0.6072 ± 0.0076	$100\theta_{\rm eq}$	0.8210	0.8211 ± 0.0055
$\boldsymbol{\tau}$	0.0704	0.069 ± 0.016	$\sigma_8/h^{0.5}$	0.9919	0.991 ± 0.012	$100\theta_{\rm s,eq}$	0.45345	0.4535 ± 0.0028
$\boldsymbol{\ln(10^{10}A_s)}$	3.0708	3.068 ± 0.030	$\langle d^2\rangle^{1/2}$	2.4527	2.450 ± 0.028	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071914	0.07192 ± 0.00044
$\boldsymbol{n_s}$	0.96881	0.9684 ± 0.0046	$z_{\rm re}$	9.24	$9.07^{+1.7}_{-1.3}$	$H(0.57)$	93.136	93.12 ± 0.29
$\boldsymbol{y_{\rm cal}}$	1.00006	1.0001 ± 0.0025	$10^9 A_{\rm s}$	2.156	2.151 ± 0.064	$D_{\rm A}(0.57)$	1383.0	1383.2 ± 8.0
$\boldsymbol{A_{217}^{\rm CIB}}$	67.3	64.5 ± 6.7	$10^9 A_{\rm s} e^{-2\tau}$	1.8726	1.872 ± 0.012	$F_{\rm AP}(0.57)$	0.67456	0.6746 ± 0.0020
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	D_{40}	1224.9	1226 ± 12	$f\sigma_8(0.57)$	0.4739	0.4732 ± 0.0059
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.21	5.11 ± 1.9	D_{220}	5718.2	5718 ± 41	$\sigma_8(0.57)$	0.6097	0.6089 ± 0.0089
$\boldsymbol{A_{100}^{\rm PS}}$	253.1	259 ± 28	D_{810}	2532.1	2531 ± 14	f_{2000}^{143}	29.84	30.3 ± 2.8
$\boldsymbol{A_{143}^{\rm PS}}$	38.9	44 ± 8	D_{1420}	815.06	814.6 ± 5.0	$f_{2000}^{143\times217}$	32.41	32.7 ± 2.0
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	38 ± 10	D_{2000}	230.36	230.1 ± 1.7	f_{2000}^{217}	105.94	106.2 ± 2.0
$\boldsymbol{A_{217}^{\rm PS}}$	96.9	96 ± 10	$n_{\rm s,0.002}$	0.96881	0.9684 ± 0.0046	$\chi^2_{\rm lensing}$	9.43	10.1 ± 1.8
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.84	$Y_{\rm P}$	0.245364	0.245353 ± 0.000091	$\chi^2_{\rm lowl}$	13.33	13.44 ± 0.83
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.44	7.46 ± 1.9	$Y_{\rm P}^{\rm BBN}$	0.246691	0.246679 ± 0.000091	$\chi^2_{\rm plik}$	765.9	779.2 ± 5.5
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.11	9.07 ± 1.8	10^5D/H	2.6035	2.608 ± 0.038	$\chi^2_{\rm H070p6}$	0.630	0.67 ± 0.28
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.74	17.2 ± 4.1	Age/Gyr	13.7918	13.794 ± 0.030	$\chi^2_{\rm JLA}$	706.607	706.66 ± 0.17
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	82.2	81.7 ± 7.3	z_*	1089.849	1089.88 ± 0.31	$\chi^2_{\rm 6DF}$	0.0009	0.043 ± 0.061
$\boldsymbol{c_{100}}$	0.99788	0.99787 ± 0.00078	r_*	144.930	144.95 ± 0.31	$\chi^2_{\rm MGS}$	1.61	1.69 ± 0.60
$\boldsymbol{c_{217}}$	0.99599	0.9960 ± 0.0014	$100\theta_*$	1.041276	1.04127 ± 0.00041	$\chi^2_{\rm DR11CMASS}$	2.436	2.90 ± 0.71
H_0	67.97	67.96 ± 0.59	$D_{\rm A}$/Gpc	13.9185	13.921 ± 0.031	$\chi^2_{\rm DR11LOWZ}$	0.319	0.46 ± 0.47
Ω_Λ	0.6943	0.6942 ± 0.0077	$z_{\rm drag}$	1059.666	1059.61 ± 0.44	$\chi^2_{\rm prior}$	2.16	7.42 ± 3.5
$\Omega_{\rm m}$	0.3057	0.3058 ± 0.0077	$r_{\rm drag}$	147.623	147.65 ± 0.34	$\chi^2_{\rm CMB}$	788.7	802.7 ± 5.4
$\Omega_{\rm m}h^2$	0.14122	0.1412 ± 0.0012	$k_{\rm D}$	0.140258	0.14021 ± 0.00043	$\chi^2_{\rm BAO}$	4.36	5.09 ± 1.1
$\Omega_{\rm m}h^3$	0.095981	0.09593 ± 0.00045	$100\theta_{\rm D}$	0.160928	0.16096 ± 0.00025			

Best-fit $\chi^2_{\rm eff} = 1502.43$; $\bar{\chi}^2_{\rm eff} = 1522.55$; $R-1 = 0.01084$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.43 commander_rc2_v1.1_l2_29_B: 13.33 plik_dx11dr2_HM_v18_TT: 765.90 Hubble - H070p6: 0.63 SN - JLA December_2013: 706.61

2.57 base_plikHM_TT_lowl_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00024	$\Omega_m h^2$	$0.1407^{+0.0023}_{-0.0019}$	z_{drag}	1059.65 ± 0.48
$\boldsymbol{\Omega_c h^2}$	$0.1177^{+0.0025}_{-0.0021}$	$\Omega_m h^3$	0.09594 ± 0.00046	r_{drag}	$147.76^{+0.45}_{-0.52}$
$\boldsymbol{100\theta_{MC}}$	1.04115 ± 0.00049	σ_8	$0.8195^{+0.0093}_{-0.013}$	k_D	0.14012 ± 0.00050
$\boldsymbol{\tau}$	$0.076^{+0.015}_{-0.026}$	$\sigma_8\Omega_m^{0.5}$	0.4507 ± 0.0090	$100\theta_D$	0.16094 ± 0.00027
$\boldsymbol{\ln(10^{10} A_s)}$	$3.079^{+0.028}_{-0.045}$	$\sigma_8\Omega_m^{0.25}$	0.6077 ± 0.0077	z_{eq}	3346^{+56}_{-47}
$\boldsymbol{n_s}$	$0.9700^{+0.0062}_{-0.0076}$	$\sigma_8/h^{0.5}$	0.992 ± 0.011	k_{eq}	$0.01021^{+0.00017}_{-0.00014}$
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.455 ± 0.027	$100\theta_{eq}$	$0.8236^{+0.0088}_{-0.011}$
$\boldsymbol{A_{217}^{CIB}}$	64.3 ± 6.7	z_{re}	$9.61^{+1.6}_{-2.1}$	$100\theta_{s,eq}$	$0.4548^{+0.0045}_{-0.0057}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.176^{+0.058}_{-0.10}$	$r_{drag}/D_V(0.57)$	$0.07212^{+0.00070}_{-0.00091}$
$\boldsymbol{A_{143}^{tSZ}}$	5.16 ± 1.9	$10^9 A_s e^{-2\tau}$	1.869 ± 0.014	$H(0.57)$	$93.24^{+0.41}_{-0.54}$
$\boldsymbol{A_{100}^{PS}}$	258 ± 28	D_{40}	1225 ± 12	$D_A(0.57)$	1380^{+16}_{-13}
$\boldsymbol{A_{143}^{PS}}$	43 ± 8	D_{220}	5718 ± 41	$F_{AP}(0.57)$	$0.6737^{+0.0039}_{-0.0033}$
$\boldsymbol{A_{143\times217}^{PS}}$	38 ± 10	D_{810}	2530 ± 14	$f\sigma_8(0.57)$	0.4740 ± 0.0055
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	D_{1420}	814.6 ± 5.1	$\sigma_8(0.57)$	$0.6119^{+0.0080}_{-0.013}$
$\boldsymbol{A^{kSZ}}$	< 4.77	D_{2000}	230.3 ± 1.9	f_{2000}^{143}	30.0 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.45 ± 1.9	$n_{s,0.002}$	$0.9700^{+0.0062}_{-0.0076}$	$f_{2000}^{143\times217}$	32.4 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.08 ± 1.8	Y_P	0.24537 ± 0.00011	f_{2000}^{217}	106.0 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.1	Y_P^{BBN}	0.24670 ± 0.00011	$\chi^2_{lensing}$	10.2 ± 1.9
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.3	10^5D/H	2.601 ± 0.046	χ^2_{lowl}	13.43 ± 0.91
$\boldsymbol{c_{100}}$	0.99788 ± 0.00078	Age/Gyr	$13.785^{+0.046}_{-0.040}$	χ^2_{plik}	779.5 ± 5.7
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	z_*	$1089.78^{+0.50}_{-0.44}$	χ^2_{prior}	7.44 ± 3.6
H_0	$68.21^{+0.94}_{-1.2}$	r_*	$145.07^{+0.45}_{-0.55}$	χ^2_{CMB}	803.2 ± 5.5
Ω_Λ	$0.697^{+0.013}_{-0.015}$	$100\theta_*$	1.04134 ± 0.00048		
Ω_m	$0.303^{+0.015}_{-0.013}$	D_A/Gpc	$13.931^{+0.042}_{-0.049}$		

$\bar{\chi}^2_{eff} = 810.60$; $R - 1 = 0.00977$

2.58 base_plikHM_TT_lowl_lensing_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227 ± 0.00020	$\Omega_m h^3$	0.09592 ± 0.00045	k_D	0.14022 ± 0.00043
$\boldsymbol{\Omega_c h^2}$	0.1184 ± 0.0013	σ_8	$0.8171^{+0.0091}_{-0.011}$	$100\theta_D$	0.16098 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.04105 ± 0.00042	$\sigma_8\Omega_m^{0.5}$	0.4526 ± 0.0067	z_{eq}	3362 ± 29
$\boldsymbol{\tau}$	$0.069^{+0.013}_{-0.017}$	$\sigma_8\Omega_m^{0.25}$	0.6081 ± 0.0072	k_{eq}	0.010261 ± 0.000089
$\boldsymbol{\ln(10^{10}A_s)}$	$3.068^{+0.024}_{-0.031}$	$\sigma_8/h^{0.5}$	0.992 ± 0.011	$100\theta_{eq}$	0.8204 ± 0.0055
$\boldsymbol{n_s}$	0.9681 ± 0.0046	$\langle d^2\rangle^{1/2}$	2.453 ± 0.026	$100\theta_{s,eq}$	0.4532 ± 0.0028
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	z_{re}	9.09 ± 1.3	$r_{drag}/D_V(0.57)$	0.07186 ± 0.00043
$\boldsymbol{A_{217}^{CIB}}$	64.5 ± 6.7	$10^9 A_s$	$2.152^{+0.050}_{-0.069}$	$H(0.57)$	93.09 ± 0.28
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s e^{-2\tau}$	1.873 ± 0.011	$D_A(0.57)$	1384.3 ± 7.9
$\boldsymbol{A_{143}^{tSZ}}$	5.10 ± 1.9	D_{40}	1226 ± 12	$F_{AP}(0.57)$	0.6748 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	259 ± 28	D_{220}	5716 ± 41	$f\sigma_8(0.57)$	0.4738 ± 0.0054
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{810}	2531 ± 14	$\sigma_8(0.57)$	$0.6090^{+0.0072}_{-0.0093}$
$\boldsymbol{A_{143\times217}^{PS}}$	38 ± 10	D_{1420}	814.3 ± 5.0	f_{2000}^{143}	30.4 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	D_{2000}	230.0 ± 1.7	$f_{2000}^{143\times217}$	32.7 ± 2.0
$\boldsymbol{A^{kSZ}}$	< 4.87	$n_{s,0.002}$	0.9681 ± 0.0046	f_{2000}^{217}	106.2 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.45 ± 1.9	Y_P	0.245345 ± 0.000091	$\chi^2_{lensing}$	10.1 ± 1.8
$\boldsymbol{A_{143}^{dustTT}}$	9.07 ± 1.8	Y_P^{BBN}	0.246671 ± 0.000092	χ^2_{lowl}	13.50 ± 0.84
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.1	10^5D/H	2.611 ± 0.038	χ^2_{plik}	778.9 ± 5.4
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.3	Age/Gyr	13.797 ± 0.029	χ^2_{6DF}	0.045 ± 0.061
$\boldsymbol{c_{100}}$	0.99787 ± 0.00078	z_*	1089.91 ± 0.31	χ^2_{MGS}	1.60 ± 0.59
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	r_*	144.92 ± 0.31	$\chi^2_{DR11CMASS}$	2.87 ± 0.66
H_0	67.88 ± 0.58	$100\theta_*$	1.04125 ± 0.00041	$\chi^2_{DR11LOWZ}$	0.52 ± 0.49
Ω_Λ	0.6931 ± 0.0076	D_A/Gpc	13.918 ± 0.031	χ^2_{prior}	7.44 ± 3.5
Ω_m	0.3069 ± 0.0076	z_{drag}	1059.58 ± 0.44	χ^2_{CMB}	802.6 ± 5.3
$\Omega_m h^2$	0.1413 ± 0.0012	r_{drag}	147.63 ± 0.34	χ^2_{BAO}	5.03 ± 1.0

$\bar{\chi}^2_{eff} = 815.05$; $R - 1 = 0.01185$

2.59 base_plikHM_TT_lowl_lensing_post_reion

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022162	$0.02217^{+0.00020}_{-0.00022}$	$\Omega_m h^2$	0.14280	0.1425 ± 0.0014	z_{drag}	1059.437	1059.45 ± 0.45
$\boldsymbol{\Omega_c h^2}$	0.11999	0.1196 ± 0.0015	$\Omega_m h^3$	0.095895	0.09588 ± 0.00044	r_{drag}	147.326	147.41 ± 0.37
$\boldsymbol{100\theta_{MC}}$	1.040820	1.04087 ± 0.00042	σ_8	0.8078	0.8092 ± 0.0063	k_D	0.140461	0.14038 ± 0.00044
$\boldsymbol{\tau}$	0.0502	$0.0538^{+0.0049}_{-0.010}$	$\sigma_8\Omega_m^{0.5}$	0.4546	0.4539 ± 0.0087	$100\theta_D$	0.161034	0.16104 ± 0.00026
$\boldsymbol{\ln(10^{10}A_s)}$	3.0347	$3.041^{+0.011}_{-0.018}$	$\sigma_8\Omega_m^{0.25}$	0.6060	0.6060 ± 0.0076	z_{eq}	3397.1	3389 ± 35
$\boldsymbol{n_s}$	0.96411	0.9645 ± 0.0046	$\sigma_8/h^{0.5}$	0.9858	0.986 ± 0.010	k_{eq}	0.010368	0.01034 ± 0.00011
$\boldsymbol{y_{cal}}$	1.00024	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4367	2.440 ± 0.024	$100\theta_{eq}$	0.8136	$0.8152^{+0.0063}_{-0.0070}$
$\boldsymbol{A_{217}^{CIB}}$	68.2	65.2 ± 6.6	z_{re}	7.30	< 7.95	$100\theta_{s,eq}$	0.44967	$0.4505^{+0.0032}_{-0.0036}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.0796	$2.093^{+0.023}_{-0.037}$	$r_{drag}/D_V(0.57)$	0.07131	$0.07143^{+0.00049}_{-0.00056}$
$\boldsymbol{A_{143}^{tSZ}}$	7.10	4.98 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8809	1.879 ± 0.011	$H(0.57)$	92.790	92.85 ± 0.31
$\boldsymbol{A_{100}^{PS}}$	257.0	262 ± 27	D_{40}	1229.2	1230 ± 12	$D_A(0.57)$	1393.9	1391.9 ± 9.3
$\boldsymbol{A_{143}^{PS}}$	41.1	45 ± 8	D_{220}	5714.2	5717 ± 41	$F_{AP}(0.57)$	0.67734	0.6768 ± 0.0024
$\boldsymbol{A_{143\times217}^{PS}}$	33.8	39 ± 10	D_{810}	2535.4	2534 ± 13	$f\sigma_8(0.57)$	0.4710	0.4712 ± 0.0050
$\boldsymbol{A_{217}^{PS}}$	97.3	96 ± 10	D_{1420}	814.7	814.2 ± 5.1	$\sigma_8(0.57)$	0.59972	$0.6013^{+0.0038}_{-0.0052}$
$\boldsymbol{A^{kSZ}}$	0.01	< 5.09	D_{2000}	229.69	229.6 ± 1.8	f_{2000}^{143}	30.81	31.1 ± 2.8
$\boldsymbol{A_{100}^{dustTT}}$	7.36	7.42 ± 1.9	$n_{s,0.002}$	0.96411	0.9645 ± 0.0046	$f_{2000}^{143\times217}$	33.29	33.4 ± 2.0
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.03 ± 1.8	Y_P	0.245299	0.245303 ± 0.000095	f_{2000}^{217}	106.76	106.8 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.90	17.2 ± 4.1	Y_P^{BBN}	0.246625	0.246629 ± 0.000096	$\chi^2_{lensing}$	8.99	9.65 ± 1.2
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.6 ± 7.4	10^5D/H	2.6306	2.629 ± 0.040	χ^2_{lowl}	13.53	13.66 ± 0.94
$\boldsymbol{c_{100}}$	0.99789	0.99789 ± 0.00079	Age/Gyr	13.8213	13.817 ± 0.031	χ^2_{plik}	766.9	779.7 ± 5.5
$\boldsymbol{c_{217}}$	0.99609	0.9961 ± 0.0014	z_*	1090.181	1090.14 ± 0.35	χ^2_{prior}	2.19	8.43 ± 3.9
H_0	67.15	67.31 ± 0.69	r_*	144.591	144.68 ± 0.36	χ^2_{CMB}	789.4	803.0 ± 5.4
Ω_Λ	0.6833	0.6854 ± 0.0094	$100\theta_*$	1.041031	1.04107 ± 0.00041			
Ω_m	0.3167	0.3146 ± 0.0094	D_A/Gpc	13.8892	13.897 ± 0.034			

Best-fit $\chi^2_{eff} = 791.64$; $\bar{\chi}^2_{eff} = 811.42$; $R - 1 = 0.01094$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 8.99 commander_rc2_v1.1_l2_29_B: 13.53 plik_dx11dr2_HM_v18_TT: 766.93

2.60 base_plikHM_TTTEEE_lowl_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022267	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	z_*	1089.981	1090.01 ± 0.32
$\boldsymbol{\Omega_c h^2}$	0.11921	0.1193 ± 0.0016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.338 ± 0.080	r_*	144.715	144.69 ± 0.34
$\boldsymbol{100\theta_{MC}}$	1.040865	1.04084 ± 0.00033	$\boldsymbol{A^{dustTE}_{217}}$	1.670	1.67 ± 0.26	$100\theta_*$	1.041061	1.04103 ± 0.00032
$\boldsymbol{\tau}$	0.0634	0.062 ± 0.017	$\boldsymbol{c_{100}}$	0.99815	0.99814 ± 0.00077	D_A/Gpc	13.9008	13.899 ± 0.031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0588	3.057 ± 0.031	$\boldsymbol{c_{217}}$	0.99604	0.9961 ± 0.0014	z_{drag}	1059.628	1059.62 ± 0.32
$\boldsymbol{n_s}$	0.9658	0.9650 ± 0.0051	H_0	67.53	67.47 ± 0.71	r_{drag}	147.418	147.39 ± 0.33
$\boldsymbol{y_{cal}}$	0.99980	1.0002 ± 0.0025	Ω_Λ	0.6884	0.6873 ± 0.0098	k_D	0.140446	0.14046 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	67.7	64.7 ± 6.5	Ω_m	0.3116	0.3127 ± 0.0098	$100\theta_D$	0.160917	0.16093 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14212	0.1422 ± 0.0015	z_{eq}	3380.7	3384 ± 35
$\boldsymbol{A^{tSZ}_{143}}$	7.31	$5.24^{+2.2}_{-2.0}$	$\Omega_m h^3$	0.095972	0.09596 ± 0.00029	k_{eq}	0.010318	0.01033 ± 0.00011
$\boldsymbol{A^{PS}_{100}}$	256.5	263 ± 28	σ_8	0.8151	0.815 ± 0.010	$100\theta_{eq}$	0.8168	0.8163 ± 0.0067
$\boldsymbol{A^{PS}_{143}}$	38.7	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4550	0.4554 ± 0.0069	$100\theta_{s,eq}$	0.45130	0.4510 ± 0.0034
$\boldsymbol{A^{PS}_{143\times217}}$	32.8	39^{+10}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6090	0.6090 ± 0.0071	$r_{drag}/D_V(0.57)$	0.07157	0.07153 ± 0.00054
$\boldsymbol{A^{PS}_{217}}$	96.9	96 ± 10	$\sigma_8/h^{0.5}$	0.9918	0.992 ± 0.011	$H(0.57)$	92.958	92.93 ± 0.31
$\boldsymbol{A^{kSZ}}$	0.00	< 4.71	$\langle d^2\rangle^{1/2}$	2.4543	2.455 ± 0.027	$D_A(0.57)$	1388.8	1389.6 ± 9.5
$\boldsymbol{A^{dustTT}_{100}}$	7.45	7.49 ± 1.9	z_{re}	8.59	$8.37^{+1.9}_{-1.5}$	$F_{AP}(0.57)$	0.67607	0.6763 ± 0.0025
$\boldsymbol{A^{dustTT}_{143}}$	9.07	9.04 ± 1.8	$10^9 A_s$	2.130	2.127 ± 0.066	$f\sigma_8(0.57)$	0.4739	0.4738 ± 0.0054
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.56	17.2 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8767	1.879 ± 0.012	$\sigma_8(0.57)$	0.6063	0.6057 ± 0.0090
$\boldsymbol{A^{dustTT}_{217}}$	81.6	81.7 ± 7.4	D_{40}	1229.5	1233 ± 12	f^{143}_{2000}	29.84	30.3 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0813 ± 0.0057	D_{220}	5720.7	5726 ± 39	$f^{143\times217}_{2000}$	32.58	32.8 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04890	0.0489 ± 0.0050	D_{810}	2532.6	2534 ± 14	f^{217}_{2000}	106.11	106.3 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1002	0.0995 ± 0.032	D_{1420}	814.36	814.6 ± 4.8	$\chi^2_{lensing}$	9.76	10.6 ± 2.1
$\boldsymbol{A^{dustEE}_{143}}$	0.1001	0.1002 ± 0.0069	D_{2000}	229.96	230.0 ± 1.6	χ^2_{lowl}	13.71	13.94 ± 0.89
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2238	0.224 ± 0.047	$n_{s,0.002}$	0.9658	0.9650 ± 0.0051	χ^2_{plik}	2435.0	2453.5 ± 6.8
$\boldsymbol{A^{dustEE}_{217}}$	0.656	0.65 ± 0.13	Y_P	0.245347	0.245340 ± 0.000075	χ^2_{prior}	7.08	19.5 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1409	0.141 ± 0.038	Y_P^{BBN}	0.246674	0.246667 ± 0.000075	χ^2_{CMB}	2458.5	2478.0 ± 6.6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1313	0.132 ± 0.029	10^5D/H	2.6108	2.613 ± 0.031			
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.084	Age/Gyr	13.8062	13.809 ± 0.028			

Best-fit $\chi^2_{\rm eff} = 2465.57$; $\bar{\chi}^2_{\rm eff} = 2497.50$; $R-1 = 0.01483$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.76 commander_rc2_v1.1_l2_29_B: 13.71 plik_dx11dr2_HM_v18_TTTEEE: 2435.01

2.61 base_plikHM_TTTEEE_lowl_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022290	0.02228 ± 0.00014	$\boldsymbol{A^{dust TE}_{143\times217}}$	0.338	0.339 ± 0.080	$100\theta_*$	1.041088	1.04108 ± 0.00029
$\boldsymbol{\Omega_c h^2}$	0.11893	0.1189 ± 0.0011	$\boldsymbol{A^{dust TE}_{217}}$	1.671	1.67 ± 0.26	D_A/Gpc	13.9055	13.906 ± 0.024
$\boldsymbol{100\theta_{MC}}$	1.040893	1.04089 ± 0.00030	$\boldsymbol{c_{100}}$	0.99815	0.99815 ± 0.00077	z_{drag}	1059.666	1059.66 ± 0.30
$\boldsymbol{\tau}$	0.0660	0.065 ± 0.015	$\boldsymbol{c_{217}}$	0.99606	0.9961 ± 0.0014	r_{drag}	147.464	147.47 ± 0.25
$\boldsymbol{\ln(10^{10} A_s)}$	3.0639	3.062 ± 0.027	H_0	67.65	67.65 ± 0.50	k_D	0.140413	0.14040 ± 0.00029
$\boldsymbol{n_s}$	0.96659	0.9661 ± 0.0041	Ω_Λ	0.6901	0.6899 ± 0.0068	$100\theta_D$	0.160900	0.16091 ± 0.00017
$\boldsymbol{y_{cal}}$	1.00003	1.0002 ± 0.0025	Ω_m	0.3099	0.3101 ± 0.0068	z_{eq}	3374.8	3375 ± 25
$\boldsymbol{A^{CIB}_{217}}$	67.6	64.6 ± 6.6	$\Omega_m h^2$	0.14187	0.1419 ± 0.0010	k_{eq}	0.010300	0.010300 ± 0.000076
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	$\Omega_m h^3$	0.095980	0.09597 ± 0.00029	$100\theta_{eq}$	0.81798	0.8180 ± 0.0048
$\boldsymbol{A^{tSZ}_{143}}$	7.24	$5.30^{+2.2}_{-1.9}$	σ_8	0.8164	0.8157 ± 0.0099	$100\theta_{s,eq}$	0.45189	0.4519 ± 0.0024
$\boldsymbol{A^{PS}_{100}}$	257.8	262 ± 27	$\sigma_8\Omega_m^{0.5}$	0.4545	0.4542 ± 0.0061	$r_{drag}/D_V(0.57)$	0.071663	0.07166 ± 0.00038
$\boldsymbol{A^{PS}_{143}}$	39.1	44 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6092	0.6086 ± 0.0071	$H(0.57)$	93.009	93.01 ± 0.23
$\boldsymbol{A^{PS}_{143\times217}}$	33.4	39^{+10}_{-10}	$\sigma_8/h^{0.5}$	0.9926	0.992 ± 0.011	$D_A(0.57)$	1387.1	1387.2 ± 6.8
$\boldsymbol{A^{PS}_{217}}$	96.7	96 ± 10	$\langle d^2\rangle^{1/2}$	2.4560	2.455 ± 0.027	$F_{AP}(0.57)$	0.67564	0.6757 ± 0.0017
$\boldsymbol{A^{kSZ}}$	0.00	< 4.61	z_{re}	8.84	$8.70^{+1.5}_{-1.3}$	$f\sigma_8(0.57)$	0.4743	0.4739 ± 0.0055
$\boldsymbol{A^{dust TT}_{100}}$	7.43	7.49 ± 1.9	$10^9 A_s$	2.141	2.139 ± 0.058	$\sigma_8(0.57)$	0.6077	0.6072 ± 0.0081
$\boldsymbol{A^{dust TT}_{143}}$	9.09	9.05 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8764	1.877 ± 0.011	f^{143}_{2000}	29.71	30.1 ± 2.6
$\boldsymbol{A^{dust TT}_{143\times217}}$	17.63	17.2 ± 4.2	D_{40}	1229.2	1231 ± 11	$f^{143\times217}_{2000}$	32.46	32.6 ± 1.8
$\boldsymbol{A^{dust TT}_{217}}$	81.8	81.7 ± 7.4	D_{220}	5724.1	5728 ± 38	f^{217}_{2000}	105.97	106.2 ± 1.8
$\boldsymbol{A^{dust EE}_{100}}$	0.0817	0.0815 ± 0.0056	D_{810}	2533.6	2534 ± 14	$\chi^2_{lensing}$	9.87	10.6 ± 2.1
$\boldsymbol{A^{dust EE}_{100\times143}}$	0.0491	0.0491 ± 0.0050	D_{1420}	814.92	814.7 ± 4.8	χ^2_{lowl}	13.64	13.82 ± 0.82
$\boldsymbol{A^{dust EE}_{100\times217}}$	0.0998	0.0999 ± 0.032	D_{2000}	230.21	230.1 ± 1.6	χ^2_{plik}	2435.0	2453.1 ± 6.7
$\boldsymbol{A^{dust EE}_{143}}$	0.1006	0.1004 ± 0.0070	$n_{s,0.002}$	0.96659	0.9661 ± 0.0041	χ^2_{6DF}	0.0216	0.054 ± 0.069
$\boldsymbol{A^{dust EE}_{143\times217}}$	0.2254	0.223 ± 0.046	Y_P	0.245358	0.245354 ± 0.000064	χ^2_{MGS}	1.279	1.34 ± 0.48
$\boldsymbol{A^{dust EE}_{217}}$	0.656	0.65 ± 0.13	Y_P^{BBN}	0.246684	0.246680 ± 0.000065	$\chi^2_{DR11CMASS}$	2.451	2.81 ± 0.56
$\boldsymbol{A^{dust TE}_{100}}$	0.1404	0.140 ± 0.038	10^5D/H	2.6065	2.608 ± 0.027	$\chi^2_{DR11LOWZ}$	0.608	0.72 ± 0.54
$\boldsymbol{A^{dust TE}_{100\times143}}$	0.1315	0.131 ± 0.029	Age/Gyr	13.8018	13.803 ± 0.022	χ^2_{prior}	7.10	19.5 ± 5.6
$\boldsymbol{A^{dust TE}_{100\times217}}$	0.301	0.303 ± 0.085	z_*	1089.927	1089.94 ± 0.24	χ^2_{CMB}	2458.5	2477.4 ± 6.4
$\boldsymbol{A^{dust TE}_{143}}$	0.155	0.154 ± 0.053	r_*	144.769	144.77 ± 0.25	χ^2_{BAO}	4.359	4.92 ± 0.82

Best-fit $\chi^2_{eff} = 2469.97$; $\bar{\chi}^2_{eff} = 2501.88$; $R - 1 = 0.01338$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.45 DR11LOWZ: 0.61 CMB - smica_g30_ftl_full_pp: 9.87 commander_rc2_v1.1_l2_29_B: 13.64 plik_dx11dr2_HM_v18_TTTEEE: 2434.99

2.62 base_plikHM_TTTEEE_lowl_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022306	0.02230 ± 0.00014	$\boldsymbol{A_{217}^{\mathrm{dust}TE}}$	1.671	1.67 ± 0.26	z_{drag}	1059.704	1059.69 ± 0.30
$\boldsymbol{\Omega_c h^2}$	0.11866	0.1187 ± 0.0011	$\boldsymbol{c_{100}}$	0.99814	0.99815 ± 0.00077	r_{drag}	147.518	147.51 ± 0.25
$\boldsymbol{100\theta_{\mathrm{MC}}}$	1.040946	1.04092 ± 0.00030	$\boldsymbol{c_{217}}$	0.99606	0.9960 ± 0.0014	k_{D}	0.140366	0.14038 ± 0.00029
$\boldsymbol{\tau}$	0.0683	0.067 ± 0.014	H_0	67.783	67.75 ± 0.49	$100\theta_{\mathrm{D}}$	0.160895	0.16089 ± 0.00017
$\boldsymbol{\ln(10^{10} A_s)}$	3.0677	3.066 ± 0.027	Ω_Λ	0.6918	0.6913 ± 0.0065	z_{eq}	3368.6	3370 ± 24
$\boldsymbol{n_s}$	0.96720	0.9667 ± 0.0041	Ω_{m}	0.3082	0.3087 ± 0.0065	k_{eq}	0.010281	0.010285 ± 0.000074
$\boldsymbol{y_{\mathrm{cal}}}$	1.00006	1.0002 ± 0.0025	$\Omega_{\mathrm{m}} h^2$	0.14161	0.1417 ± 0.0010	$100\theta_{\mathrm{eq}}$	0.81920	0.8189 ± 0.0046
$\boldsymbol{A_{217}^{\mathrm{CIB}}}$	68.0	64.6 ± 6.6	$\Omega_{\mathrm{m}} h^3$	0.095985	0.09598 ± 0.00029	$100\theta_{\mathrm{s,eq}}$	0.45251	0.4524 ± 0.0024
$\boldsymbol{\xi^{\mathrm{tSZ\times CIB}}}$	0.00	—	σ_8	0.8172	0.8164 ± 0.0099	$r_{\mathrm{drag}}/D_{\mathrm{V}}(0.57)$	0.071761	0.07174 ± 0.00037
$\boldsymbol{A_{143}^{\mathrm{tSZ}}}$	7.39	$5.33^{+2.2}_{-1.9}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4537	0.4535 ± 0.0061	$H(0.57)$	93.063	93.05 ± 0.22
$\boldsymbol{A_{100}^{\mathrm{PS}}}$	256.3	262 ± 27	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6089	0.6085 ± 0.0071	$D_{\mathrm{A}}(0.57)$	1385.4	1385.8 ± 6.6
$\boldsymbol{A_{143}^{\mathrm{PS}}}$	38.1	43 ± 8	$\sigma_8/h^{0.5}$	0.9926	0.992 ± 0.011	$F_{\mathrm{AP}}(0.57)$	0.67520	0.6753 ± 0.0017
$\boldsymbol{A_{143\times 217}^{PS}}$	32.1	39^{+10}_{-10}	$\langle d^2 \rangle^{1/2}$	2.4564	2.456 ± 0.027	$f\sigma_8(0.57)$	0.4743	0.4739 ± 0.0055
$\boldsymbol{A_{217}^{\mathrm{PS}}}$	96.0	96 ± 10	z_{re}	9.04	$8.87^{+1.5}_{-1.2}$	$\sigma_8(0.57)$	0.6087	0.6080 ± 0.0080
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.56	$10^9 A_{\mathrm{s}}$	2.149	2.146 ± 0.058	f_{2000}^{143}	29.68	30.0 ± 2.6
$\boldsymbol{A_{100}^{\mathrm{dust}TT}}$	7.45	7.48 ± 1.9	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8749	1.876 ± 0.011	$f_{2000}^{143\times 217}$	32.41	32.5 ± 1.8
$\boldsymbol{A_{143}^{\mathrm{dust}TT}}$	9.03	9.05 ± 1.8	D_{40}	1228.6	1230 ± 11	f_{2000}^{217}	105.96	106.1 ± 1.8
$\boldsymbol{A_{143\times 217}^{\mathrm{dust}TT}}$	17.61	17.2 ± 4.2	D_{220}	5724.7	5729 ± 38	$\chi^2_{\mathrm{lensing}}$	9.80	10.5 ± 2.1
$\boldsymbol{A_{217}^{\mathrm{dust}TT}}$	81.6	81.7 ± 7.4	D_{810}	2532.9	2533 ± 14	χ^2_{lowl}	13.60	13.76 ± 0.82
$\boldsymbol{A_{100}^{\mathrm{dust}EE}}$	0.0814	0.0816 ± 0.0056	D_{1420}	814.86	814.8 ± 4.8	χ^2_{plik}	2435.0	2453.2 ± 6.7
$\boldsymbol{A_{100\times 143}^{\mathrm{dust}EE}}$	0.04911	0.0492 ± 0.0050	D_{2000}	230.24	230.2 ± 1.6	χ^2_{H070p6}	0.719	0.75 ± 0.25
$\boldsymbol{A_{100\times 217}^{\mathrm{dust}EE}}$	0.0998	0.100 ± 0.032	$n_{\mathrm{s},0.002}$	0.96720	0.9667 ± 0.0041	χ^2_{JLA}	706.662	706.71 ± 0.17
$\boldsymbol{A_{143}^{\mathrm{dust}EE}}$	0.1005	0.1005 ± 0.0070	Y_{P}	0.245365	0.245363 ± 0.000064	χ^2_{6DF}	0.0102	0.042 ± 0.057
$\boldsymbol{A_{143\times 217}^{\mathrm{dust}EE}}$	0.2229	0.223 ± 0.046	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246691	0.246689 ± 0.000064	χ^2_{MGS}	1.407	1.44 ± 0.48
$\boldsymbol{A_{217}^{\mathrm{dust}EE}}$	0.647	0.65 ± 0.13	$10^5\mathrm{D/H}$	2.6035	2.604 ± 0.027	$\chi^2_{\mathrm{DR11CMASS}}$	2.410	2.75 ± 0.48
$\boldsymbol{A_{100}^{\mathrm{dust}TE}}$	0.1406	0.140 ± 0.038	Age/Gyr	13.7975	13.799 ± 0.022	$\chi^2_{\mathrm{DR11LOWZ}}$	0.483	0.61 ± 0.48
$\boldsymbol{A_{100\times 143}^{\mathrm{dust}TE}}$	0.1303	0.131 ± 0.029	z_*	1089.882	1089.89 ± 0.24	χ^2_{prior}	7.31	19.5 ± 5.6
$\boldsymbol{A_{100\times 217}^{\mathrm{dust}TE}}$	0.303	0.303 ± 0.085	r_*	144.829	144.81 ± 0.24	χ^2_{CMB}	2458.4	2477.5 ± 6.4
$\boldsymbol{A_{143}^{\mathrm{dust}TE}}$	0.152	0.154 ± 0.053	$100\theta_*$	1.041139	1.04111 ± 0.00029	χ^2_{BAO}	4.310	4.84 ± 0.71
$\boldsymbol{A_{143\times 217}^{\mathrm{dust}TE}}$	0.336	0.338 ± 0.080	$D_{\mathrm{A}}/\mathrm{Gpc}$	13.9106	13.910 ± 0.023			

Best-fit $\chi^2_{\mathrm{eff}} = 3177.41$; $\bar{\chi}^2_{\mathrm{eff}} = 3209.31$; $R - 1 = 0.01457$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.80 commander_rc2_v1.1_l2_29_B: 13.60 plik_dx11dr2_HM_v18_TTTEEE:

2.63 base_plikHM_TTTEEE_lowl_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228 ± 0.00016	$\boldsymbol{A_{143}^{dustTE}}$	0.155 ± 0.053	z_*	1089.96 ± 0.30
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0014	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.339 ± 0.080	r_*	144.75 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.04088 ± 0.00031	$\boldsymbol{A_{217}^{dustTE}}$	1.67 ± 0.26	$100\theta_*$	1.04107 ± 0.00031
$\boldsymbol{\tau}$	$0.066^{+0.011}_{-0.018}$	$\boldsymbol{c_{100}}$	0.99814 ± 0.00077	D_A/Gpc	13.903 ± 0.029
$\boldsymbol{\ln(10^{10}A_s)}$	$3.065^{+0.021}_{-0.032}$	$\boldsymbol{c_{217}}$	0.9961 ± 0.0014	z_{drag}	1059.65 ± 0.31
$\boldsymbol{n_s}$	0.9658 ± 0.0048	H_0	67.59 ± 0.66	r_{drag}	147.44 ± 0.30
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	Ω_Λ	0.6891 ± 0.0089	k_D	0.14042 ± 0.00032
$\boldsymbol{A_{217}^{CIB}}$	64.6 ± 6.5	Ω_m	0.3109 ± 0.0089	$100\theta_D$	0.16091 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$\Omega_m h^2$	0.1420 ± 0.0014	z_{eq}	3378 ± 32
$\boldsymbol{A_{143}^{tSZ}}$	$5.29^{+2.2}_{-1.9}$	$\Omega_m h^3$	0.09597 ± 0.00029	k_{eq}	0.010309 ± 0.000099
$\boldsymbol{A_{100}^{PS}}$	262 ± 27	σ_8	$0.8169^{+0.0077}_{-0.010}$	$100\theta_{eq}$	0.8175 ± 0.0062
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4555 ± 0.0070	$100\theta_{s,eq}$	0.4516 ± 0.0032
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6100 ± 0.0068	$r_{drag}/D_V(0.57)$	0.07162 ± 0.00049
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	$\sigma_8/h^{0.5}$	0.994 ± 0.010	$H(0.57)$	$92.99^{+0.28}_{-0.31}$
$\boldsymbol{A^{kSZ}}$	< 4.62	$\langle d^2\rangle^{1/2}$	2.460 ± 0.025	$D_A(0.57)$	1387.9 ± 8.8
$\boldsymbol{A_{100}^{dustTT}}$	7.50 ± 1.9	z_{re}	$8.82^{+1.2}_{-1.6}$	$F_{AP}(0.57)$	0.6759 ± 0.0023
$\boldsymbol{A_{143}^{dustTT}}$	9.04 ± 1.8	$10^9 A_s$	$2.144^{+0.043}_{-0.070}$	$f\sigma_8(0.57)$	0.4748 ± 0.0050
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	$10^9 A_s e^{-2\tau}$	1.877 ± 0.012	$\sigma_8(0.57)$	$0.6079^{+0.0061}_{-0.0092}$
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.4	D_{40}	1232 ± 12	f_{2000}^{143}	30.1 ± 2.6
$\boldsymbol{A_{100}^{dustEE}}$	0.0815 ± 0.0056	D_{220}	5726 ± 39	$f_{2000}^{143\times217}$	32.6 ± 1.9
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0491 ± 0.0050	D_{810}	2533 ± 14	f_{2000}^{217}	106.1 ± 1.8
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.100 ± 0.033	D_{1420}	814.5 ± 4.8	$\chi^2_{lensing}$	10.8 ± 2.2
$\boldsymbol{A_{143}^{dustEE}}$	0.1003 ± 0.0070	D_{2000}	230.0 ± 1.6	χ^2_{lowl}	13.91 ± 0.89
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.223 ± 0.046	$n_{s,0.002}$	0.9658 ± 0.0048	χ^2_{plik}	2453.0 ± 6.7
$\boldsymbol{A_{217}^{dustEE}}$	0.65 ± 0.13	Y_P	0.245350 ± 0.000072	χ^2_{prior}	19.5 ± 5.6
$\boldsymbol{A_{100}^{dustTE}}$	0.140 ± 0.038	Y_P^{BBN}	0.246676 ± 0.000072	χ^2_{CMB}	2477.7 ± 6.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.131 ± 0.029	10^5D/H	2.609 ± 0.030		
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.303 ± 0.085	Age/Gyr	$13.804^{+0.028}_{-0.025}$		

$\bar{\chi}^2_{eff} = 2497.20$; $R - 1 = 0.01795$

2.64 base_plikHM_TTTEEE_lowl_lensing_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02229 ± 0.00014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339 ± 0.080	$100\theta_*$	1.04110 ± 0.00029
$\boldsymbol{\Omega_c h^2}$	0.1189 ± 0.0011	$\boldsymbol{A^{dustTE}_{217}}$	1.67 ± 0.26	D_A/Gpc	13.907 ± 0.023
$\boldsymbol{100\theta_{MC}}$	1.04090 ± 0.00029	$\boldsymbol{c_{100}}$	0.99814 ± 0.00077	z_{drag}	1059.67 ± 0.30
$\boldsymbol{\tau}$	$0.067^{+0.012}_{-0.015}$	$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	r_{drag}	147.48 ± 0.25
$\boldsymbol{\ln(10^{10}A_s)}$	$3.066^{+0.022}_{-0.028}$	H_0	67.69 ± 0.49	k_D	0.14039 ± 0.00029
$\boldsymbol{n_s}$	0.9663 ± 0.0040	Ω_Λ	0.6904 ± 0.0065	$100\theta_D$	0.16090 ± 0.00017
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	Ω_m	0.3096 ± 0.0065	z_{eq}	3373 ± 24
$\boldsymbol{A^{CIB}_{217}}$	64.6 ± 6.6	$\Omega_m h^2$	0.1418 ± 0.0010	k_{eq}	0.010295 ± 0.000073
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$\Omega_m h^3$	0.09597 ± 0.00029	$100\theta_{eq}$	0.8184 ± 0.0046
$\boldsymbol{A^{tSZ}_{143}}$	$5.31^{+2.2}_{-1.9}$	σ_8	$0.8170^{+0.0082}_{-0.010}$	$100\theta_{s,eq}$	0.4521 ± 0.0023
$\boldsymbol{A^{PS}_{100}}$	262 ± 27	$\sigma_8\Omega_m^{0.5}$	0.4545 ± 0.0060	$r_{drag}/D_V(0.57)$	0.07169 ± 0.00036
$\boldsymbol{A^{PS}_{143}}$	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6094 ± 0.0067	$H(0.57)$	93.02 ± 0.22
$\boldsymbol{A^{PS}_{143\times217}}$	39^{+10}_{-10}	$\sigma_8/h^{0.5}$	$0.993^{+0.010}_{-0.011}$	$D_A(0.57)$	1386.7 ± 6.5
$\boldsymbol{A^{PS}_{217}}$	96 ± 10	$\langle d^2\rangle^{1/2}$	2.459 ± 0.025	$F_{AP}(0.57)$	0.6755 ± 0.0017
$\boldsymbol{A^{kSZ}}$	< 4.60	z_{re}	8.91 ± 1.2	$f\sigma_8(0.57)$	0.4745 ± 0.0050
$\boldsymbol{A^{dustTT}_{100}}$	7.48 ± 1.9	$10^9 A_s$	$2.147^{+0.045}_{-0.062}$	$\sigma_8(0.57)$	$0.6082^{+0.0064}_{-0.0084}$
$\boldsymbol{A^{dustTT}_{143}}$	9.04 ± 1.8	$10^9 A_s e^{-2\tau}$	1.876 ± 0.011	f^{143}_{2000}	30.0 ± 2.6
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.2 ± 4.2	D_{40}	1231 ± 11	$f^{143\times217}_{2000}$	32.6 ± 1.8
$\boldsymbol{A^{dustTT}_{217}}$	81.6 ± 7.4	D_{220}	5727 ± 38	f^{217}_{2000}	106.1 ± 1.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0816 ± 0.0056	D_{810}	2533 ± 14	$\chi^2_{lensing}$	10.6 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0491 ± 0.0050	D_{1420}	814.6 ± 4.8	χ^2_{lowl}	13.83 ± 0.82
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.100 ± 0.032	D_{2000}	230.1 ± 1.6	χ^2_{plik}	2452.8 ± 6.6
$\boldsymbol{A^{dustEE}_{143}}$	0.1004 ± 0.0070	$n_{s,0.002}$	0.9663 ± 0.0040	χ^2_{6DF}	0.047 ± 0.060
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.223 ± 0.046	Y_P	0.245357 ± 0.000064	χ^2_{MGS}	1.38 ± 0.47
$\boldsymbol{A^{dustEE}_{217}}$	0.65 ± 0.13	Y_P^{BBN}	0.246683 ± 0.000064	$\chi^2_{DR11CMASS}$	2.76 ± 0.49
$\boldsymbol{A^{dustTE}_{100}}$	0.140 ± 0.038	10^5D/H	2.606 ± 0.027	$\chi^2_{DR11LOWZ}$	0.67 ± 0.49
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.131 ± 0.029	Age/Gyr	13.801 ± 0.022	χ^2_{prior}	19.5 ± 5.6
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303 ± 0.085	z_*	1089.92 ± 0.24	χ^2_{CMB}	2477.3 ± 6.4
$\boldsymbol{A^{dustTE}_{143}}$	0.154 ± 0.054	r_*	144.79 ± 0.24	χ^2_{BAO}	4.85 ± 0.72

$\bar{\chi}^2_{eff} = 2501.68$; $R - 1 = 0.01627$

2.65 base_plikHM_TTTEEE_lowl_lensing_post_reion

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022210	0.02221 ± 0.00015	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.156 ± 0.053	z_*	1090.124	1090.11 ± 0.26
$\boldsymbol{\Omega_c h^2}$	0.12002	0.1199 ± 0.0012	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.340 ± 0.079	r_*	144.548	144.58 ± 0.27
$\boldsymbol{100\theta_{MC}}$	1.040754	1.04077 ± 0.00030	$\boldsymbol{A^{dustTE}_{217}}$	1.671	1.68 ± 0.26	$100\theta_*$	1.040960	1.04097 ± 0.00030
$\boldsymbol{\tau}$	0.0512	$0.0538^{+0.0049}_{-0.0093}$	$\boldsymbol{c_{100}}$	0.99817	0.99815 ± 0.00078	D_A/Gpc	13.8861	13.889 ± 0.025
$\boldsymbol{\ln(10^{10}A_s)}$	3.0376	$3.043^{+0.012}_{-0.016}$	$\boldsymbol{c_{217}}$	0.99612	0.9961 ± 0.0014	z_{drag}	1059.551	1059.56 ± 0.30
$\boldsymbol{n_s}$	0.96330	0.9633 ± 0.0041	H_0	67.16	67.21 ± 0.54	r_{drag}	147.266	147.29 ± 0.27
$\boldsymbol{y_{cal}}$	1.00025	1.0003 ± 0.0025	Ω_Λ	0.6832	0.6838 ± 0.0075	k_D	0.140560	0.14053 ± 0.00030
$\boldsymbol{A^{CIB}_{217}}$	68.2	65.0 ± 6.5	Ω_m	0.3168	0.3162 ± 0.0075	$100\theta_D$	0.160957	0.16096 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14288	0.1428 ± 0.0011	z_{eq}	3398.9	3396 ± 27
$\boldsymbol{A^{tSZ}_{143}}$	7.27	$5.18^{+2.2}_{-1.9}$	$\Omega_m h^3$	0.095956	0.09594 ± 0.00029	k_{eq}	0.010374	0.010366 ± 0.000083
$\boldsymbol{A^{PS}_{100}}$	258.8	263 ± 27	σ_8	0.8086	0.8102 ± 0.0058	$100\theta_{eq}$	0.8133	0.8138 ± 0.0051
$\boldsymbol{A^{PS}_{143}}$	39.8	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4551	0.4555 ± 0.0071	$100\theta_{s,eq}$	0.44951	0.4498 ± 0.0026
$\boldsymbol{A^{PS}_{143\times217}}$	33.2	39^{+9}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6066	0.6075 ± 0.0064	$r_{drag}/D_V(0.57)$	0.071289	0.07133 ± 0.00040
$\boldsymbol{A^{PS}_{217}}$	96.8	96 ± 10	$\sigma_8/h^{0.5}$	0.9866	0.9883 ± 0.0090	$H(0.57)$	92.807	92.83 ± 0.24
$\boldsymbol{A^{kSZ}}$	0.01	< 4.87	$\langle d^2\rangle^{1/2}$	2.4419	2.447 ± 0.022	$D_A(0.57)$	1393.7	1393.1 ± 7.3
$\boldsymbol{A^{dustTT}_{100}}$	7.43	7.55 ± 1.9	z_{re}	7.40	$7.65^{+0.47}_{-0.97}$	$F_{AP}(0.57)$	0.67736	0.6772 ± 0.0019
$\boldsymbol{A^{dustTT}_{143}}$	9.06	9.01 ± 1.8	$10^9 A_s$	2.0855	$2.096^{+0.024}_{-0.034}$	$f\sigma_8(0.57)$	0.47141	0.4722 ± 0.0043
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.83	17.3 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8824	1.882 ± 0.011	$\sigma_8(0.57)$	0.60024	$0.6016^{+0.0037}_{-0.0048}$
$\boldsymbol{A^{dustTT}_{217}}$	82.1	81.7 ± 7.3	D_{40}	1232.8	1234 ± 12	f^{143}_{2000}	30.36	30.7 ± 2.6
$\boldsymbol{A^{dustEE}_{100}}$	0.0810	0.0813 ± 0.0055	D_{220}	5726.4	5728 ± 38	$f^{143\times217}_{2000}$	33.00	33.1 ± 1.8
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04872	0.0488 ± 0.0050	D_{810}	2536.6	2536 ± 13	f^{217}_{2000}	106.49	106.6 ± 1.8
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0999	0.100 ± 0.033	D_{1420}	814.96	814.7 ± 4.8	$\chi^2_{lensing}$	9.20	9.87 ± 1.3
$\boldsymbol{A^{dustEE}_{143}}$	0.1001	0.09999 ± 0.0069	D_{2000}	229.81	229.8 ± 1.6	χ^2_{lowl}	13.81	13.96 ± 0.90
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2228	0.223 ± 0.046	$n_{s,0.002}$	0.96330	0.9633 ± 0.0041	χ^2_{plik}	2436.1	2453.7 ± 6.5
$\boldsymbol{A^{dustEE}_{217}}$	0.648	0.65 ± 0.13	Y_P	0.245322	0.245320 ± 0.000067	χ^2_{prior}	7.14	20 ± 6
$\boldsymbol{A^{dustTE}_{100}}$	0.1413	0.141 ± 0.038	Y_P^{BBN}	0.246648	0.246647 ± 0.000067	χ^2_{CMB}	2459.1	2477.6 ± 6.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1319	0.132 ± 0.028	10^5D/H	2.6217	2.621 ± 0.028			
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.304 ± 0.086	Age/Gyr	13.8186	13.817 ± 0.023			

Best-fit $\chi^2_{eff} = 2466.21$; $\bar{\chi}^2_{eff} = 2497.92$; $R - 1 = 0.02919$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.20 commander_rc2_v1.1_l2_29_B: 13.80 plik_dx11dr2_HM_v18_TTTEEE: 2436.06

2.66 base_CamSpecHM_TT_lowl_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022253	0.02232 ± 0.00026 $(+0.1\sigma)$	H_0	67.93	68.2 ± 1.2 $(+0.2\sigma)$	$100\theta_*$	1.04129	1.04135 ± 0.00051 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11826	0.1178 ± 0.0025 (-0.2σ)	Ω_Λ	0.6941	0.696 ± 0.016 $(+0.2\sigma)$	$z_{\rm drag}$	1059.513	1059.64 ± 0.50 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04107	1.04115 ± 0.00052 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3059	0.304 ± 0.016 (-0.2σ)	$r_{\rm drag}$	147.69	147.73 ± 0.52 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0710	0.076 ± 0.025 $(+0.3\sigma)$	$\Omega_{\rm m}h^2$	0.14115	0.1408 ± 0.0024 (-0.1σ)	$k_{\rm D}$	0.14017	0.14017 ± 0.00051 (-0.0σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0705	3.079 ± 0.044 $(+0.2\sigma)$	$\Omega_{\rm m}h^3$	0.095880	0.09595 ± 0.00045 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.160983	0.16092 ± 0.00028 (-0.2σ)
$\boldsymbol{n_s}$	0.9694	$0.9714^{+0.0072}_{-0.0082}$ $(+0.4\sigma)$	σ_8	0.8181	0.820 ± 0.013 $(+0.3\sigma)$	$z_{\rm eq}$	3358	3349 ± 57 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00053	1.0000 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4525	0.4516 ± 0.0091 $(+0.0\sigma)$	$100\theta_{\rm eq}$	0.8211	0.823 ± 0.011 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	251.1	246 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6084	0.6086 ± 0.0077 $(+0.2\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07191	$0.07208^{+0.00086}_{-0.00097}$ $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.0	38 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9926	0.994 ± 0.012 $(+0.2\sigma)$	$H(0.57)$	93.10	$93.22^{+0.49}_{-0.58}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	94.4	97 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.4512	2.452 ± 0.029 $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1383.7	1381 ± 16 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	47.4	46 ± 7 (-2.7σ)	$z_{\rm re}$	9.31	$9.60^{+2.4}_{-2.0}$ $(+0.3\sigma)$	$F_{\rm AP}(0.57)$	0.67461	0.6739 ± 0.0040 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	2.77	$3.25^{+1.4}_{-2.5}$ (-1.0σ)	$10^9A_{\rm s}$	2.155	$2.176^{+0.092}_{-0.10}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4742	0.4746 ± 0.0058 $(+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.396	$0.51^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8699	1.867 ± 0.015 (-0.4σ)	$\sigma_8(0.57)$	0.6099	0.612 ± 0.012 $(+0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.005	< 0.575 (-0.2σ)	D_{40}	1221.5	1220 ± 13 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.246251	0.24628 ± 0.00011 (-3.4σ)
$\boldsymbol{A^{kSZ}}$	6.21	$5.46^{+4.0}_{-1.9}$ $(+0.6\sigma)$	D_{220}	5702.6	5698 ± 40 (-0.5σ)	f_{2000}^{143}	29.68	28.8 ± 3.0 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.977	0.99 ± 0.19	D_{810}	2529.1	2527 ± 14 (-0.3σ)	f_{2000}^{217}	107.09	106.3 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.009	1.03 ± 0.18	D_{1420}	814.3	814.5 ± 5.1 (-0.0σ)	$f_{2000}^{143\times217}$	32.11	31.7 ± 2.3 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.222	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9694	$0.9714^{+0.0072}_{-0.0082}$ $(+0.4\sigma)$	$\chi^2_{\rm lensing}$	9.15	10.1 ± 1.8 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.938	0.98 ± 0.18	$Y_{\rm P}$	0.244921	$0.24495^{+0.00011}_{-0.00012}$ (-3.4σ)	$\chi^2_{\rm lowl}$	13.05	13.08 ± 0.87 (-0.5σ)
$\boldsymbol{c_{100}}$	0.99666	0.99676 ± 0.00096 (-1.4σ)	Age/Gyr	13.7972	13.786 ± 0.046 (-0.2σ)	$\chi^2_{\rm CamSpec}$	8046.7	8061.4 ± 5.8
$\boldsymbol{c_{217}}$	0.99756	0.9973 ± 0.0018 $(+0.9\sigma)$	z_*	1089.90	1089.79 ± 0.51 (-0.2σ)	$\chi^2_{\rm CMB}$	8068.9	8084.6 ± 5.7 $(+1321.5\sigma)$
$\boldsymbol{\beta_1^1}$	-0.15	-0.1 ± 1.0	r_*	144.97	145.04 ± 0.54 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 8072.73$; $\Delta\chi^2_{\rm eff} = 7281.92$; $\bar{\chi}^2_{\rm eff} = 8093.05$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.22$; $R - 1 = 0.00662$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.15 (Δ -0.22) commander_rc2_v1.1_l2_29_B: 13.05 (Δ -0.24) CamSpec like_v9.10CMH_unified: 8046.71

2.67 base_CamSpecHM_TT_lowl_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02227 \pm 0.00020 \quad (+0.0\sigma)$	Ω_m	$0.3070 \pm 0.0079 \quad (-0.1\sigma)$	$100\theta_D$	$0.16096 \pm 0.00025 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1185 \pm 0.0013 \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1414 \pm 0.0013 \quad (-0.1\sigma)$	z_{eq}	$3363 \pm 30 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04107 \pm 0.00043 \quad (+0.1\sigma)$	$\Omega_m h^3$	$0.09593 \pm 0.00045 \quad (+0.0\sigma)$	$100\theta_{eq}$	$0.8203 \pm 0.0057 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.071 \pm 0.016 \quad (+0.2\sigma)$	σ_8	$0.818 \pm 0.011 \quad (+0.2\sigma)$	$r_{drag}/D_V(0.57)$	$0.07185 \pm 0.00045 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.069 \pm 0.030 \quad (+0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.4534 \pm 0.0067 \quad (+0.2\sigma)$	$H(0.57)$	$93.09 \pm 0.29 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9697 \pm 0.0047 \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.6091 \pm 0.0076 \quad (+0.2\sigma)$	$D_A(0.57)$	$1384.4 \pm 8.2 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0000 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.993 \pm 0.012 \quad (+0.2\sigma)$	$F_{AP}(0.57)$	$0.6749 \pm 0.0020 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 22 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.451 \pm 0.029 \quad (+0.0\sigma)$	$f\sigma_8(0.57)$	$0.4746 \pm 0.0059 \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.6\sigma)$	z_{re}	$9.21^{+1.7}_{-1.4} \quad (+0.2\sigma)$	$\sigma_8(0.57)$	$0.6099 \pm 0.0090 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.0\sigma)$	$10^9 A_s$	$2.154 \pm 0.065 \quad (+0.2\sigma)$	Y_P^{BBN}	$0.246257 \pm 0.000088 \quad (-4.4\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.869 \pm 0.012 \quad (-0.4\sigma)$	f_{2000}^{143}	$29.2 \pm 2.8 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.19^{+1.4}_{-2.5} \quad (-1.0\sigma)$	D_{40}	$1220 \pm 11 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.6 \pm 2.0 \quad (+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	$5696 \pm 40 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$32.0 \pm 2.1 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.571 \quad (-0.2\sigma)$	D_{810}	$2528 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{lensing}$	$10.1 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.56^{+4.1}_{-1.7} \quad (+0.7\sigma)$	D_{1420}	$814.1 \pm 5.0 \quad (-0.0\sigma)$	χ^2_{lowl}	$13.11 \pm 0.78 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.9697 \pm 0.0047 \quad (+0.4\sigma)$	$\chi^2_{CamSpec}$	8060.7 ± 5.6
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	$0.244930 \pm 0.000085 \quad (-4.4\sigma)$	χ^2_{6DF}	$0.048 \pm 0.067 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.797 \pm 0.030 \quad (-0.1\sigma)$	χ^2_{MGS}	$1.60 \pm 0.61 \quad (+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	$1089.90 \pm 0.32 \quad (-0.1\sigma)$	$\chi^2_{DR11CMASS}$	$2.90 \pm 0.71 \quad (-0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99676 \pm 0.00095 \quad (-1.4\sigma)$	r_*	$144.91 \pm 0.32 \quad (+0.0\sigma)$	$\chi^2_{DR11LOWZ}$	$0.53 \pm 0.52 \quad (-0.1\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	$100\theta_*$	$1.04127 \pm 0.00042 \quad (+0.1\sigma)$	χ^2_{prior}	$8.42 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	z_{drag}	$1059.57 \pm 0.44 \quad (+0.0\sigma)$	χ^2_{CMB}	$8083.9 \pm 5.6 \quad (+1353.0\sigma)$
H_0	$67.87 \pm 0.60 \quad (+0.1\sigma)$	r_{drag}	$147.62 \pm 0.34 \quad (+0.0\sigma)$	χ^2_{BAO}	$5.08 \pm 1.1 \quad (-0.0\sigma)$
Ω_Λ	$0.6930 \pm 0.0079 \quad (+0.1\sigma)$	k_D	$0.14025 \pm 0.00043 \quad (+0.0\sigma)$		

$\bar{\chi}^2_{eff} = 8097.42$; $\Delta\bar{\chi}^2_{eff} = 7282.15$; $R - 1 = 0.01123$

2.68 base_CamSpecHM_TT_lowl_lensing_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02229 \pm 0.00020 \quad (+0.0\sigma)$	$\Omega_m h^2$	$0.1411 \pm 0.0012 \quad (-0.0\sigma)$	$100\theta_{eq}$	$0.8214 \pm 0.0055 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1182 \pm 0.0013 \quad (-0.1\sigma)$	$\Omega_m h^3$	$0.09595 \pm 0.00044 \quad (+0.0\sigma)$	$r_{drag}/D_V(0.57)$	$0.07195 \pm 0.00044 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04111 \pm 0.00043 \quad (+0.1\sigma)$	σ_8	$0.819 \pm 0.011 \quad (+0.2\sigma)$	$H(0.57)$	$93.15 \pm 0.28 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.073 \pm 0.016 \quad (+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	$0.4526 \pm 0.0066 \quad (+0.2\sigma)$	$D_A(0.57)$	$1382.7 \pm 7.9 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.073 \pm 0.030 \quad (+0.2\sigma)$	$\sigma_8\Omega_m^{0.25}$	$0.6089 \pm 0.0076 \quad (+0.2\sigma)$	$F_{AP}(0.57)$	$0.6744 \pm 0.0019 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9704 \pm 0.0046 \quad (+0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.993 \pm 0.012 \quad (+0.2\sigma)$	$f\sigma_8(0.57)$	$0.4746 \pm 0.0059 \quad (+0.2\sigma)$
$\boldsymbol{y_{cal}}$	$1.0000 \pm 0.0025 \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.452 \pm 0.029 \quad (+0.1\sigma)$	$\sigma_8(0.57)$	$0.6110 \pm 0.0089 \quad (+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$246 \pm 22 \quad (-0.5\sigma)$	z_{re}	$9.42^{+1.6}_{-1.4} \quad (+0.2\sigma)$	Y_P^{BBN}	$0.246268 \pm 0.000086 \quad (-4.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 7 \quad (-0.6\sigma)$	$10^9 A_s$	$2.163 \pm 0.064 \quad (+0.2\sigma)$	f_{2000}^{143}	$29.0 \pm 2.8 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.868 \pm 0.012 \quad (-0.4\sigma)$	f_{2000}^{217}	$106.4 \pm 2.0 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	D_{40}	$1220 \pm 11 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$31.8 \pm 2.1 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.22^{+1.4}_{-2.5} \quad (-1.0\sigma)$	D_{220}	$5697 \pm 40 \quad (-0.5\sigma)$	$\chi^2_{lensing}$	$10.2 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{810}	$2528 \pm 14 \quad (-0.3\sigma)$	χ^2_{lowl}	$13.06 \pm 0.78 \quad (-0.5\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.571 \quad (-0.2\sigma)$	D_{1420}	$814.3 \pm 5.0 \quad (-0.1\sigma)$	$\chi^2_{CamSpec}$	8060.7 ± 5.6
$\boldsymbol{A^{kSZ}}$	$5.51^{+4.1}_{-1.8} \quad (+0.7\sigma)$	$n_{s,0.002}$	$0.9704 \pm 0.0046 \quad (+0.4\sigma)$	χ^2_{H070p6}	$0.65 \pm 0.27 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	Y_P	$0.244941 \pm 0.000085 \quad (-4.5\sigma)$	χ^2_{JLA}	$706.65 \pm 0.16 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Age/Gyr	$13.792 \pm 0.029 \quad (-0.1\sigma)$	χ^2_{6DF}	$0.042 \pm 0.059 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	z_*	$1089.84 \pm 0.31 \quad (-0.1\sigma)$	χ^2_{MGS}	$1.73 \pm 0.61 \quad (+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	r_*	$144.96 \pm 0.31 \quad (+0.0\sigma)$	$\chi^2_{DR11CMASS}$	$2.92 \pm 0.72 \quad (+0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99676 \pm 0.00095 \quad (-1.4\sigma)$	$100\theta_*$	$1.04131 \pm 0.00042 \quad (+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.43 \pm 0.45 \quad (-0.1\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	z_{drag}	$1059.61 \pm 0.44 \quad (+0.0\sigma)$	χ^2_{prior}	$8.44 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.98	r_{drag}	$147.66 \pm 0.33 \quad (+0.0\sigma)$	χ^2_{CMB}	$8083.9 \pm 5.6 \quad (+1354.6\sigma)$
H_0	$68.00 \pm 0.58 \quad (+0.1\sigma)$	k_D	$0.14022 \pm 0.00042 \quad (+0.0\sigma)$	χ^2_{BAO}	$5.11 \pm 1.1 \quad (+0.0\sigma)$
Ω_Λ	$0.6947 \pm 0.0076 \quad (+0.1\sigma)$	$100\theta_D$	$0.16094 \pm 0.00025 \quad (-0.1\sigma)$		
Ω_m	$0.3053 \pm 0.0076 \quad (-0.1\sigma)$	z_{eq}	$3357 \pm 29 \quad (-0.0\sigma)$		

$\bar{\chi}^2_{eff} = 8804.72$; $\Delta\bar{\chi}^2_{eff} = 7282.16$; $R - 1 = 0.01143$

2.69 base_CamSpecHM_TT_lowl_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02234 ± 0.00025 $(+0.1\sigma)$	H_0	$68.33^{+0.93}_{-1.3}$ $(+0.1\sigma)$	$100\theta_*$	1.04140 ± 0.00049 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1175^{+0.0026}_{-0.0021}$ (-0.1σ)	Ω_Λ	$0.699^{+0.013}_{-0.016}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.68 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04120 ± 0.00050 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.301^{+0.016}_{-0.013}$ (-0.1σ)	$r_{\rm drag}$	147.79 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.080^{+0.017}_{-0.026}$ $(+0.2\sigma)$	$\Omega_{\rm m}h^2$	$0.1405^{+0.0024}_{-0.0020}$ (-0.1σ)	$k_{\rm D}$	0.14012 ± 0.00049 (-0.0σ)
$\boldsymbol{\ln(10^{10}A_s)}$	$3.086^{+0.032}_{-0.047}$ $(+0.2\sigma)$	$\Omega_{\rm m}h^3$	0.09597 ± 0.00044 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.16091 ± 0.00027 (-0.1σ)
$\boldsymbol{n_s}$	$0.9724^{+0.0061}_{-0.0080}$ $(+0.4\sigma)$	σ_8	$0.822^{+0.010}_{-0.013}$ $(+0.3\sigma)$	$z_{\rm eq}$	3341^{+57}_{-47} (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4511 ± 0.0088 $(+0.0\sigma)$	$100\theta_{\rm eq}$	$0.8246^{+0.0089}_{-0.012}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	245 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6090 ± 0.0076 $(+0.2\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07221^{+0.00070}_{-0.00096}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{143}}$	38 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.995 ± 0.012 $(+0.2\sigma)$	$H(0.57)$	$93.29^{+0.41}_{-0.57}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{217}}$	97 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.455 ± 0.027 $(+0.0\sigma)$	$D_{\rm A}(0.57)$	1378^{+17}_{-13} (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.7σ)	$z_{\rm re}$	$10.0^{+1.8}_{-2.1}$ $(+0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6734^{+0.0041}_{-0.0033}$ (-0.1σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.28^{+1.4}_{-2.5}$ (-1.0σ)	$10^9A_{\rm s}$	$2.191^{+0.066}_{-0.11}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4752 ± 0.0056 $(+0.2\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.10}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.865 ± 0.014 (-0.3σ)	$\sigma_8(0.57)$	$0.6144^{+0.0092}_{-0.013}$ $(+0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.578 (-0.2σ)	D_{40}	1218 ± 12 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.24629 ± 0.00011 (-3.7σ)
$\boldsymbol{A^{kSZ}}$	$5.41^{+3.9}_{-2.1}$ $(+0.7\sigma)$	D_{220}	5698 ± 40 (-0.5σ)	f^{143}_{2000}	28.6 ± 3.0 (-0.5σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	2526 ± 14 (-0.3σ)	f^{217}_{2000}	106.1 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	D_{1420}	814.5 ± 5.1 (-0.0σ)	$f^{143\times217}_{2000}$	31.5 ± 2.2 (-0.4σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	$0.9724^{+0.0061}_{-0.0080}$ $(+0.4\sigma)$	$\chi^2_{\rm lensing}$	10.2 ± 1.9 (-0.0σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.24496^{+0.00010}_{-0.00012}$ (-3.7σ)	$\chi^2_{\rm lowl}$	13.02 ± 0.84 (-0.5σ)
$\boldsymbol{c_{100}}$	0.99677 ± 0.00096 (-1.4σ)	Age/Gyr	$13.780^{+0.048}_{-0.040}$ (-0.1σ)	$\chi^2_{\rm CamSpec}$	8061.2 ± 5.8
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	z_*	$1089.72^{+0.51}_{-0.44}$ (-0.1σ)	$\chi^2_{\rm prior}$	8.43 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta^1_1}$	-0.07 ± 0.99	r_*	$145.11^{+0.47}_{-0.55}$ $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	8084.4 ± 5.7 $(+1328.4\sigma)$

$\bar{\chi}^2_{\rm eff} = 8092.86$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.26$; $R - 1 = 0.00707$

2.70 base_CamSpecHM_TT_lowl_lensing_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227 ± 0.00020 $(+0.0\sigma)$	Ω_m	0.3065 ± 0.0077 (-0.0σ)	$100\theta_D$	0.16095 ± 0.00025 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.1184 ± 0.0013 (-0.0σ)	$\Omega_m h^2$	0.1413 ± 0.0012 (-0.0σ)	z_{eq}	3361 ± 29 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04108 ± 0.00043 $(+0.1\sigma)$	$\Omega_m h^3$	0.09594 ± 0.00045 $(+0.0\sigma)$	$100\theta_{eq}$	0.8206 ± 0.0055 $(+0.0\sigma)$
$\boldsymbol{\tau}$	$0.072^{+0.014}_{-0.017}$ $(+0.2\sigma)$	σ_8	$0.8193^{+0.0096}_{-0.011}$ $(+0.2\sigma)$	$r_{drag}/D_V(0.57)$	0.07188 ± 0.00044 $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.072^{+0.026}_{-0.032}$ $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.4536 ± 0.0066 $(+0.1\sigma)$	$H(0.57)$	93.10 ± 0.28 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9699 ± 0.0046 $(+0.4\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.6096 ± 0.0073 $(+0.2\sigma)$	$D_A(0.57)$	1383.9 ± 7.9 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	0.994 ± 0.011 $(+0.2\sigma)$	$F_{AP}(0.57)$	0.6748 ± 0.0020 (-0.0σ)
$\boldsymbol{A_{100}^{PS}}$	247 ± 22 (-0.4σ)	$\langle d^2\rangle^{1/2}$	2.454 ± 0.027 $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.4750 ± 0.0055 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 7 (-0.6σ)	z_{re}	9.37 ± 1.3 $(+0.2\sigma)$	$\sigma_8(0.57)$	$0.6107^{+0.0078}_{-0.0095}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9 A_s$	$2.160^{+0.054}_{-0.071}$ $(+0.2\sigma)$	Y_P^{BBN}	0.246260 ± 0.000087 (-4.5σ)
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.869 ± 0.012 (-0.3σ)	f_{2000}^{143}	29.1 ± 2.8 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.19^{+1.4}_{-2.5}$ (-1.0σ)	D_{40}	1220 ± 11 (-0.5σ)	f_{2000}^{217}	106.5 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	5695 ± 40 (-0.5σ)	$f_{2000}^{143\times217}$	31.9 ± 2.1 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.573 (-0.2σ)	D_{810}	2528 ± 14 (-0.3σ)	$\chi^2_{lensing}$	10.2 ± 1.8 $(+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.55^{+4.1}_{-1.7}$ $(+0.7\sigma)$	D_{1420}	814.1 ± 5.1 (-0.0σ)	χ^2_{lowl}	13.11 ± 0.78 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9699 ± 0.0046 $(+0.4\sigma)$	$\chi^2_{CamSpec}$	8060.5 ± 5.6
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	0.244932 ± 0.000085 (-4.5σ)	χ^2_{6DF}	0.044 ± 0.060 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	13.795 ± 0.029 (-0.1σ)	χ^2_{MGS}	1.63 ± 0.60 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	1089.88 ± 0.31 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.88 ± 0.68 $(+0.0\sigma)$
$\boldsymbol{c_{100}}$	0.99675 ± 0.00096 (-1.4σ)	r_*	144.93 ± 0.31 $(+0.0\sigma)$	$\chi^2_{DR11LOWZ}$	0.50 ± 0.48 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04129 ± 0.00042 $(+0.1\sigma)$	χ^2_{prior}	8.44 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	z_{drag}	1059.58 ± 0.44 (-0.0σ)	χ^2_{CMB}	8083.8 ± 5.5 $(+1365.5\sigma)$
H_0	67.90 ± 0.59 $(+0.0\sigma)$	r_{drag}	147.63 ± 0.33 $(+0.0\sigma)$	χ^2_{BAO}	5.05 ± 1.0 $(+0.0\sigma)$
Ω_Λ	0.6935 ± 0.0077 $(+0.0\sigma)$	k_D	0.14024 ± 0.00042 $(+0.0\sigma)$		

$\bar{\chi}^2_{eff} = 8097.25$; $\Delta\bar{\chi}^2_{eff} = 7282.20$; $R - 1 = 0.01213$

2.71 base_CamSpecHM_TT_lowl_lensing_post_reion

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02218 ± 0.00020 $(+0.0\sigma)$	H_0	67.28 ± 0.66 (-0.0σ)	$100\theta_*$	1.04109 ± 0.00043 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1197 ± 0.0015 $(+0.1\sigma)$	Ω_Λ	0.6850 ± 0.0090 (-0.0σ)	$z_{\rm drag}$	1059.45 ± 0.45 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04088 ± 0.00043 $(+0.0\sigma)$	$\Omega_{\rm m}$	0.3150 ± 0.0090 $(+0.0\sigma)$	$r_{\rm drag}$	147.38 ± 0.37 (-0.1σ)
$\boldsymbol{\tau}$	$0.0545^{+0.0050}_{-0.0097}$ $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.1425 ± 0.0014 $(+0.1\sigma)$	$k_{\rm D}$	0.14043 ± 0.00045 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.041^{+0.011}_{-0.018}$ (-0.0σ)	$\Omega_{\rm m} h^3$	$0.09590^{+0.00049}_{-0.00044}$ $(+0.1\sigma)$	$100\theta_{\rm D}$	0.16101 ± 0.00026 (-0.1σ)
$\boldsymbol{n_s}$	0.9660 ± 0.0045 $(+0.3\sigma)$	σ_8	0.8099 ± 0.0062 $(+0.1\sigma)$	$z_{\rm eq}$	3391 ± 34 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 $(+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4545 ± 0.0083 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8148 ± 0.0063 (-0.1σ)
$\boldsymbol{A^{PS}_{100}}$	249 ± 22 (-0.5σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6067 ± 0.0073 $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07141 ± 0.00049 (-0.0σ)
$\boldsymbol{A^{PS}_{143}}$	40 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.987 ± 0.010 $(+0.1\sigma)$	$H(0.57)$	92.85 ± 0.30 (-0.0σ)
$\boldsymbol{A^{PS}_{217}}$	96 ± 10 $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.437 ± 0.023 (-0.1σ)	$D_{\rm A}(0.57)$	1392.2 ± 8.9 $(+0.0\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	47 ± 7 (-2.7σ)	$z_{\rm re}$	$7.72^{+0.52}_{-1.0}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6769 ± 0.0023 $(+0.0\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.07^{+1.3}_{-2.6}$ (-1.0σ)	$10^9 A_{\rm s}$	$2.092^{+0.023}_{-0.037}$ (-0.0σ)	$f\sigma_8(0.57)$	0.4717 ± 0.0048 $(+0.1\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.51 ± 0.11	$10^9 A_{\rm s} e^{-2\tau}$	1.876 ± 0.011 (-0.3σ)	$\sigma_8(0.57)$	$0.6017^{+0.0037}_{-0.0051}$ $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.570 (-0.2σ)	D_{40}	1223 ± 12 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.246218 ± 0.000090 (-4.3σ)
$\boldsymbol{A^{kSZ}}$	> 4.50 $(+0.7\sigma)$	D_{220}	5697 ± 41 (-0.5σ)	f^{143}_{2000}	29.9 ± 2.8 (-0.4σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	2531 ± 13 (-0.2σ)	f^{217}_{2000}	107.1 ± 1.9 $(+0.2\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	D_{1420}	814.1 ± 5.1 (-0.0σ)	$f^{143\times217}_{2000}$	32.6 ± 2.1 (-0.4σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.11	$n_{\rm s,0.002}$	0.9660 ± 0.0045 $(+0.3\sigma)$	$\chi^2_{\rm lensing}$	9.55 ± 1.0 (-0.1σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	$Y_{\rm P}$	0.244892 ± 0.000086 (-4.3σ)	$\chi^2_{\rm lowl}$	13.22 ± 0.84 (-0.5σ)
$\boldsymbol{c_{100}}$	0.99676 ± 0.00097 (-1.4σ)	Age/Gyr	13.817 ± 0.031 (-0.0σ)	$\chi^2_{\rm CamSpec}$	8061.5 ± 5.5
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	z_*	1090.13 ± 0.33 (-0.0σ)	$\chi^2_{\rm prior}$	9.44 ± 3.8 $(+0.3\sigma)$
$\boldsymbol{\beta^1_1}$	-0.08 ± 0.98	r_*	144.65 ± 0.35 (-0.1σ)	$\chi^2_{\rm CMB}$	8084.3 ± 5.5 $(+1339.7\sigma)$

$\bar{\chi}^2_{\rm eff} = 8093.71$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.29$; $R - 1 = 0.03316$

2.72 base_CamSpecHM_TTTEEE_lowl_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022355	0.02237 ± 0.00017 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.02	-0.1 ± 1.0	$100\theta_*$	1.041097	1.04110 ± 0.00031 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11871	0.1186 ± 0.0015 (-0.5σ)	H_0	67.79	67.84 ± 0.70 $(+0.5\sigma)$	$z_{\rm drag}$	1059.780	1059.82 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040901	1.04090 ± 0.00031 $(+0.2\sigma)$	Ω_Λ	0.6916	0.6921 ± 0.0094 $(+0.5\sigma)$	$r_{\rm drag}$	147.454	147.46 ± 0.32 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0668	0.068 ± 0.017 $(+0.3\sigma)$	$\Omega_{\rm m}$	0.3084	0.3079 ± 0.0094 (-0.5σ)	$k_{\rm D}$	0.140491	0.14049 ± 0.00034 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0624	3.064 ± 0.031 $(+0.2\sigma)$	$\Omega_{\rm m} h^2$	0.14170	0.1416 ± 0.0014 (-0.4σ)	$100\theta_{\rm D}$	0.160800	0.16079 ± 0.00019 (-0.8σ)
$\boldsymbol{n_s}$	0.9678	0.9688 ± 0.0052 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.096062	0.09607 ± 0.00030 $(+0.4\sigma)$	$z_{\rm eq}$	3370.9	3369 ± 35 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.00006	1.0000 ± 0.0025 (-0.1σ)	σ_8	0.8152	0.816 ± 0.010 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8189	0.8193 ± 0.0067 $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248.8	245 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4527	0.4526 ± 0.0068 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07174	0.07178 ± 0.00053 $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	34.8	38 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6075	0.6077 ± 0.0071 (-0.2σ)	$H(0.57)$	93.083	93.11 ± 0.31 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	95.4	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9901	0.991 ± 0.011 (-0.1σ)	$D_{\rm A}(0.57)$	1385.2	1384.5 ± 9.4 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	47.5	46 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.4486	2.448 ± 0.027 (-0.2σ)	$F_{\rm AP}(0.57)$	0.67523	0.6751 ± 0.0024 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.32	$3.31^{+1.5}_{-2.6}$ (-1.0σ)	$z_{\rm re}$	8.89	$8.91^{+1.8}_{-1.5}$ $(+0.3\sigma)$	$f\sigma_8(0.57)$	0.4732	0.4734 ± 0.0054 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.407	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	2.138	2.143 ± 0.067 $(+0.2\sigma)$	$\sigma_8(0.57)$	0.6072	0.6079 ± 0.0090 $(+0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.002	< 0.601 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8706	1.870 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246296	0.246301 ± 0.000073 (-4.9σ)
$\boldsymbol{A^{kSZ}}$	5.34	$5.41^{+3.9}_{-2.1}$ $(+0.7\sigma)$	D_{40}	1223.7	1223 ± 12 (-0.8σ)	f_{2000}^{143}	29.29	28.8 ± 2.7 (-0.6σ)
$\boldsymbol{A_{100}^{dust}}$	0.987	0.99 ± 0.19	D_{220}	5711.0	5709 ± 38 (-0.5σ)	f_{2000}^{217}	106.65	106.2 ± 1.9 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.037	1.03 ± 0.18	D_{810}	2528.0	2529 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.73	31.5 ± 2.0 (-0.7σ)
$\boldsymbol{A_{217}^{dust}}$	1.217	1.21 ± 0.12	D_{1420}	814.05	814.6 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lensing}$	9.25	10.1 ± 1.7 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.973	0.99 ± 0.18	$n_{\rm s,0.002}$	0.9678	0.9688 ± 0.0052 $(+0.7\sigma)$	$\chi^2_{\rm lowl}$	13.24	13.23 ± 0.81 (-0.8σ)
$\boldsymbol{c_{100}}$	0.99667	0.99677 ± 0.00096 (-1.8σ)	$Y_{\rm P}$	0.244965	$0.244972^{+0.000070}_{-0.000079}$ (-4.9σ)	$\chi^2_{\rm CamSpec}$	12937.5	12953.9 ± 6.0
$\boldsymbol{c_{217}}$	0.99733	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.7942	13.792 ± 0.028 (-0.6σ)	$\chi^2_{\rm CMB}$	12960.0	12977.2 ± 5.9 $(+1587.4\sigma)$
$\boldsymbol{c_{TE}}$	1.00485	1.0051 ± 0.0044	z_*	1089.808	1089.79 ± 0.32 (-0.7σ)			
$\boldsymbol{c_{EE}}$	1.00133	1.0015 ± 0.0042	r_*	144.780	144.80 ± 0.33 $(+0.3\sigma)$			

Best-fit $\chi^2_{\rm eff} = 12963.86$; $\Delta\chi^2_{\rm eff} = 10498.29$; $\bar{\chi}^2_{\rm eff} = 12986.27$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.77$; $R - 1 = 0.00826$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.25 (Δ -0.51) commander_rc2_v1.1_l2_29_B: 13.24 (Δ -0.47) CamSpec like_v9.10CMH_unified: 12937.55

2.73 base_CamSpecHM_TTTEEE_lowl_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00015 \quad (+0.6\sigma)$	Ω_Λ	$0.6921 \pm 0.0067 \quad (+0.3\sigma)$	$100\theta_{\rm D}$	$0.16079 \pm 0.00018 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1186 \pm 0.0011 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3079 \pm 0.0067 \quad (-0.3\sigma)$	$z_{\rm eq}$	$3369 \pm 25 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04090 \pm 0.00029 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1416 \pm 0.0010 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8193 \pm 0.0048 \quad (+0.3\sigma)$
$\boldsymbol{\tau}$	$0.068 \pm 0.015 \quad (+0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09607 \pm 0.00030 \quad (+0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07178 \pm 0.00037 \quad (+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.064 \pm 0.027 \quad (+0.1\sigma)$	σ_8	$0.816 \pm 0.010 \quad (+0.0\sigma)$	$H(0.57)$	$93.11 \pm 0.23 \quad (+0.4\sigma)$
$\boldsymbol{n_s}$	$0.9687 \pm 0.0043 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4527 \pm 0.0061 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1384.6 \pm 6.7 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$0.99999 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6078 \pm 0.0071 \quad (-0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6751 \pm 0.0017 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.991 \pm 0.011 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4734 \pm 0.0055 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.448 \pm 0.027 \quad (-0.3\sigma)$	$\sigma_8(0.57)$	$0.6079 \pm 0.0081 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$8.93^{+1.5}_{-1.3} \quad (+0.2\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246301 \pm 0.000064 \quad (-5.9\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.9\sigma)$	$10^9 A_{\rm s}$	$2.143 \pm 0.058 \quad (+0.1\sigma)$	f_{2000}^{143}	$28.8 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.31^{+1.5}_{-2.5} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.2 \pm 1.9 \quad (+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1223 \pm 11 \quad (-0.8\sigma)$	$f_{2000}^{143\times217}$	$31.6 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.608 \quad (-0.2\sigma)$	D_{220}	$5709 \pm 38 \quad (-0.5\sigma)$	$\chi^2_{\rm lensing}$	$10.1 \pm 1.7 \quad (-0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.39^{+3.8}_{-2.2} \quad (+0.7\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{\rm lowl}$	$13.22 \pm 0.78 \quad (-0.7\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.6 \pm 4.8 \quad (-0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12953.4 ± 5.8
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9687 \pm 0.0043 \quad (+0.6\sigma)$	$\chi^2_{\rm 6DF}$	$0.040 \pm 0.053 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$Y_{\rm P}$	$0.244971^{+0.000061}_{-0.000069} \quad (-5.9\sigma)$	$\chi^2_{\rm MGS}$	$1.49 \pm 0.50 \quad (+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.792 \pm 0.022 \quad (-0.5\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.76 \pm 0.48 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00096 \quad (-1.8\sigma)$	z_*	$1089.79 \pm 0.25 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.57 \pm 0.46 \quad (-0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.79 \pm 0.25 \quad (+0.1\sigma)$	$\chi^2_{\rm prior}$	$9.03 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0051 ± 0.0044	$100\theta_*$	$1.04110 \pm 0.00028 \quad (+0.1\sigma)$	$\chi^2_{\rm CMB}$	$12976.7 \pm 5.7 \quad (+1631.2\sigma)$
$\boldsymbol{c_{EE}}$	1.0016 ± 0.0042	$z_{\rm drag}$	$1059.81 \pm 0.31 \quad (+0.5\sigma)$	$\chi^2_{\rm BAO}$	$4.86 \pm 0.71 \quad (-0.1\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	$147.46 \pm 0.26 \quad (-0.0\sigma)$		
H_0	$67.84 \pm 0.50 \quad (+0.4\sigma)$	$k_{\rm D}$	$0.14049 \pm 0.00030 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 12990.61$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.73$; $R - 1 = 0.00937$

2.74 base_CamSpecHM_TTTEEE_lowl_lensing_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00015 \quad (+0.6\sigma)$	Ω_Λ	$0.6934 \pm 0.0065 \quad (+0.3\sigma)$	$100\theta_{\rm D}$	$0.16077 \pm 0.00018 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1184 \pm 0.0011 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3066 \pm 0.0065 \quad (-0.3\sigma)$	$z_{\rm eq}$	$3365 \pm 24 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04093 \pm 0.00028 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1414 \pm 0.0010 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8201 \pm 0.0046 \quad (+0.3\sigma)$
$\boldsymbol{\tau}$	$0.070 \pm 0.015 \quad (+0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09608 \pm 0.00030 \quad (+0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07185 \pm 0.00037 \quad (+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.067 \pm 0.027 \quad (+0.1\sigma)$	σ_8	$0.8166 \pm 0.0099 \quad (+0.0\sigma)$	$H(0.57)$	$93.15 \pm 0.22 \quad (+0.4\sigma)$
$\boldsymbol{n_s}$	$0.9692 \pm 0.0042 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4521 \pm 0.0061 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1383.3 \pm 6.5 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$0.99998 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6076 \pm 0.0071 \quad (-0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6748 \pm 0.0017 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.991 \pm 0.011 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4735 \pm 0.0055 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.449 \pm 0.027 \quad (-0.3\sigma)$	$\sigma_8(0.57)$	$0.6087 \pm 0.0080 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.09^{+1.5}_{-1.2} \quad (+0.2\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246308 \pm 0.000063 \quad (-6.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.9\sigma)$	$10^9 A_{\rm s}$	$2.149 \pm 0.058 \quad (+0.1\sigma)$	f_{2000}^{143}	$28.7 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.33^{+1.5}_{-2.5} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.1 \pm 1.9 \quad (+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1222 \pm 11 \quad (-0.8\sigma)$	$f_{2000}^{143\times217}$	$31.5 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.607 \quad (-0.2\sigma)$	D_{220}	$5710 \pm 38 \quad (-0.5\sigma)$	$\chi^2_{\rm lensing}$	$10.1 \pm 1.7 \quad (-0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.35^{+3.7}_{-2.3} \quad (+0.7\sigma)$	D_{810}	$2528 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{\rm lowl}$	$13.18 \pm 0.77 \quad (-0.7\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.7 \pm 4.8 \quad (-0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12953.4 ± 5.8
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9692 \pm 0.0042 \quad (+0.6\sigma)$	$\chi^2_{\rm H070p6}$	$0.67 \pm 0.23 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$Y_{\rm P}$	$0.244979^{+0.000061}_{-0.000070} \quad (-6.0\sigma)$	$\chi^2_{\rm JLA}$	$706.66 \pm 0.15 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.789 \pm 0.022 \quad (-0.4\sigma)$	$\chi^2_{\rm 6DF}$	$0.033 \pm 0.045 \quad (-0.2\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00097 \quad (-1.8\sigma)$	z_*	$1089.75 \pm 0.24 \quad (-0.6\sigma)$	$\chi^2_{\rm MGS}$	$1.59 \pm 0.50 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.83 \pm 0.25 \quad (+0.1\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.75 \pm 0.46 \quad (-0.0\sigma)$
$\boldsymbol{c_{TE}}$	1.0050 ± 0.0044	$100\theta_*$	$1.04112 \pm 0.00028 \quad (+0.1\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.49 \pm 0.41 \quad (-0.3\sigma)$
$\boldsymbol{c_{EE}}$	1.0015 ± 0.0042	$z_{\rm drag}$	$1059.84 \pm 0.31 \quad (+0.5\sigma)$	$\chi^2_{\rm prior}$	$9.03 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	$147.50 \pm 0.26 \quad (-0.0\sigma)$	$\chi^2_{\rm CMB}$	$12976.7 \pm 5.7 \quad (+1630.2\sigma)$
H_0	$67.93 \pm 0.49 \quad (+0.4\sigma)$	$k_{\rm D}$	$0.14046 \pm 0.00030 \quad (+0.3\sigma)$	$\chi^2_{\rm BAO}$	$4.85 \pm 0.70 \quad (+0.0\sigma)$

$\bar{\chi}^2_{\rm eff} = 13697.93$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.62$; $R - 1 = 0.01035$

2.75 base_CamSpecHM_TTTEEE_lowl_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00016 \quad (+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04112 \pm 0.00030 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1184 \pm 0.0015 \quad (-0.4\sigma)$	H_0	$67.92^{+0.64}_{-0.71} \quad (+0.5\sigma)$	$z_{\rm drag}$	$1059.83 \pm 0.33 \quad (+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04093 \pm 0.00030 \quad (+0.2\sigma)$	Ω_Λ	$0.6932 \pm 0.0088 \quad (+0.5\sigma)$	$r_{\rm drag}$	$147.50 \pm 0.31 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.071^{+0.013}_{-0.018} \quad (+0.3\sigma)$	$\Omega_{\rm m}$	$0.3068 \pm 0.0088 \quad (-0.5\sigma)$	$k_{\rm D}$	$0.14046 \pm 0.00033 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.069^{+0.024}_{-0.033} \quad (+0.2\sigma)$	$\Omega_{\rm m} h^2$	$0.1415 \pm 0.0014 \quad (-0.4\sigma)$	$100\theta_{\rm D}$	$0.16078 \pm 0.00019 \quad (-0.7\sigma)$
$\boldsymbol{n_s}$	$0.9693 \pm 0.0049 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^3$	$0.09607 \pm 0.00030 \quad (+0.4\sigma)$	$z_{\rm eq}$	$3365 \pm 33 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$0.9999 \pm 0.0025 \quad (-0.1\sigma)$	σ_8	$0.8174^{+0.0084}_{-0.011} \quad (+0.1\sigma)$	$100\theta_{\rm eq}$	$0.8200^{+0.0061}_{-0.0068} \quad (+0.4\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4527 \pm 0.0068 \quad (-0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07184^{+0.00048}_{-0.00055} \quad (+0.4\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$38 \pm 8 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6083 \pm 0.0068 \quad (-0.2\sigma)$	$H(0.57)$	$93.14^{+0.28}_{-0.32} \quad (+0.5\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.992 \pm 0.011 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1383.5 \pm 8.8 \quad (-0.5\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$46 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.451 \pm 0.025 \quad (-0.3\sigma)$	$F_{\rm AP}(0.57)$	$0.6748 \pm 0.0022 \quad (-0.5\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.33^{+1.5}_{-2.5} \quad (-1.0\sigma)$	$z_{\rm re}$	$9.18 \pm 1.4 \quad (+0.3\sigma)$	$f\sigma_8(0.57)$	$0.4740 \pm 0.0051 \quad (-0.2\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	$2.154^{+0.050}_{-0.072} \quad (+0.2\sigma)$	$\sigma_8(0.57)$	$0.6093^{+0.0068}_{-0.0097} \quad (+0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.606 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.869 \pm 0.012 \quad (-0.7\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246306 \pm 0.000071 \quad (-5.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.36^{+3.6}_{-2.3} \quad (+0.7\sigma)$	D_{40}	$1222 \pm 12 \quad (-0.8\sigma)$	f^{143}_{2000}	$28.7 \pm 2.7 \quad (-0.5\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{220}	$5708 \pm 38 \quad (-0.5\sigma)$	f^{217}_{2000}	$106.1 \pm 1.9 \quad (-0.0\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	D_{810}	$2528 \pm 14 \quad (-0.4\sigma)$	$f^{143\times217}_{2000}$	$31.4 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.11	D_{1420}	$814.5 \pm 4.8 \quad (+0.0\sigma)$	$\chi^2_{\rm lensing}$	$10.1 \pm 1.7 \quad (-0.3\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9693 \pm 0.0049 \quad (+0.7\sigma)$	$\chi^2_{\rm lowl}$	$13.23 \pm 0.81 \quad (-0.8\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00097 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.244977^{+0.000068}_{-0.000078} \quad (-5.2\sigma)$	$\chi^2_{\rm CamSpec}$	12953.6 ± 5.9
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.790 \pm 0.026 \quad (-0.6\sigma)$	$\chi^2_{\rm prior}$	$9.02 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0050 ± 0.0044	z_*	$1089.76 \pm 0.30 \quad (-0.7\sigma)$	$\chi^2_{\rm CMB}$	$12977.0 \pm 5.8 \quad (+1621.7\sigma)$
$\boldsymbol{c_{EE}}$	1.0015 ± 0.0042	r_*	$144.83 \pm 0.32 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 12986.02$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.83$; $R - 1 = 0.01161$

2.76 base_CamSpecHM_TTTEEE_lowl_lensing_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00015 \quad (+0.6\sigma)$	Ω_Λ	$0.6925 \pm 0.0065 \quad (+0.3\sigma)$	$100\theta_{\rm D}$	$0.16079 \pm 0.00018 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1186 \pm 0.0011 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3075 \pm 0.0065 \quad (-0.3\sigma)$	$z_{\rm eq}$	$3368 \pm 24 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04091 \pm 0.00028 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1416 \pm 0.0010 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8196 \pm 0.0046 \quad (+0.3\sigma)$
$\boldsymbol{\tau}$	$0.069^{+0.013}_{-0.015} \quad (+0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09607 \pm 0.00030 \quad (+0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07180 \pm 0.00036 \quad (+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.067^{+0.023}_{-0.028} \quad (+0.1\sigma)$	σ_8	$0.8170^{+0.0086}_{-0.010} \quad (+0.0\sigma)$	$H(0.57)$	$93.12 \pm 0.22 \quad (+0.4\sigma)$
$\boldsymbol{n_s}$	$0.9689 \pm 0.0042 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4530 \pm 0.0060 \quad (-0.3\sigma)$	$D_{\rm A}(0.57)$	$1384.2 \pm 6.5 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$0.9999 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6083 \pm 0.0067 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6750 \pm 0.0016 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.992 \pm 0.011 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4739 \pm 0.0051 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 7 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.025}_{-0.028} \quad (-0.3\sigma)$	$\sigma_8(0.57)$	$0.6088^{+0.0068}_{-0.0086} \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.09 \pm 1.2 \quad (+0.2\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246303 \pm 0.000063 \quad (-6.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.9\sigma)$	$10^9 A_{\rm s}$	$2.149^{+0.049}_{-0.062} \quad (+0.1\sigma)$	f_{2000}^{143}	$28.7 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.31^{+1.5}_{-2.5} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.1 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1222 \pm 11 \quad (-0.8\sigma)$	$f_{2000}^{143\times217}$	$31.5 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.607 \quad (-0.2\sigma)$	D_{220}	$5708 \pm 38 \quad (-0.5\sigma)$	$\chi^2_{\rm lensing}$	$10.1 \pm 1.7 \quad (-0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.37^{+3.7}_{-2.2} \quad (+0.7\sigma)$	D_{810}	$2528 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{\rm lowl}$	$13.23 \pm 0.78 \quad (-0.7\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.5 \pm 4.8 \quad (-0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12953.2 ± 5.8
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9689 \pm 0.0042 \quad (+0.6\sigma)$	$\chi^2_{\rm 6DF}$	$0.036 \pm 0.047 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$Y_{\rm P}$	$0.244973^{+0.000061}_{-0.000069} \quad (-6.0\sigma)$	$\chi^2_{\rm MGS}$	$1.52 \pm 0.49 \quad (+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.791 \pm 0.022 \quad (-0.5\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.74 \pm 0.45 \quad (-0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00096 \quad (-1.8\sigma)$	z_*	$1089.78 \pm 0.24 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.54 \pm 0.43 \quad (-0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.81 \pm 0.25 \quad (+0.1\sigma)$	$\chi^2_{\rm prior}$	$9.01 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0050 ± 0.0044	$100\theta_*$	$1.04111 \pm 0.00028 \quad (+0.1\sigma)$	$\chi^2_{\rm CMB}$	$12976.6 \pm 5.7 \quad (+1638.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0016 ± 0.0042	$z_{\rm drag}$	$1059.82 \pm 0.31 \quad (+0.5\sigma)$	$\chi^2_{\rm BAO}$	$4.83 \pm 0.67 \quad (-0.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	$147.48 \pm 0.26 \quad (-0.0\sigma)$		
H_0	$67.87 \pm 0.49 \quad (+0.4\sigma)$	$k_{\rm D}$	$0.14048 \pm 0.00030 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 12990.40$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.72$; $R - 1 = 0.01038$

2.77 base_CamSpecHM_TTTEEE_lowl_lensing_post_reion

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02230 \pm 0.00015 \quad (+0.6\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04101 \pm 0.00028 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1195 \pm 0.0012 \quad (-0.4\sigma)$	H_0	$67.45 \pm 0.53 \quad (+0.5\sigma)$	$z_{\rm drag}$	$1059.72 \pm 0.32 \quad (+0.5\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04081 \pm 0.00028 \quad (+0.1\sigma)$	Ω_Λ	$0.6869 \pm 0.0071 \quad (+0.4\sigma)$	$r_{\rm drag}$	$147.31 \pm 0.26 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.0550^{+0.0051}_{-0.0094} \quad (+0.2\sigma)$	$\Omega_{\rm m}$	$0.3131 \pm 0.0071 \quad (-0.4\sigma)$	$k_{\rm D}$	$0.14060 \pm 0.00031 \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.042^{+0.011}_{-0.017} \quad (-0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1424 \pm 0.0011 \quad (-0.3\sigma)$	$100\theta_{\rm D}$	$0.16084 \pm 0.00019 \quad (-0.7\sigma)$
$\boldsymbol{n_s}$	$0.9661 \pm 0.0041 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^3$	$0.09605 \pm 0.00030 \quad (+0.4\sigma)$	$z_{\rm eq}$	$3388 \pm 26 \quad (-0.3\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (+0.0\sigma)$	σ_8	$0.8089^{+0.0053}_{-0.0065} \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8157^{+0.0047}_{-0.0054} \quad (+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4526 \pm 0.0067 \quad (-0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07149^{+0.00037}_{-0.00042} \quad (+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 7 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6051 \pm 0.0062 \quad (-0.4\sigma)$	$H(0.57)$	$92.95^{+0.22}_{-0.26} \quad (+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.9849 \pm 0.0087 \quad (-0.4\sigma)$	$D_{\rm A}(0.57)$	$1389.7 \pm 7.1 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.435 \pm 0.021 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6764 \pm 0.0018 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.19^{+1.3}_{-2.6} \quad (-1.0\sigma)$	$z_{\rm re}$	$7.74^{+0.54}_{-0.95} \quad (+0.1\sigma)$	$f\sigma_8(0.57)$	$0.4707 \pm 0.0042 \quad (-0.3\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	$10^9 A_{\rm s}$	$2.094^{+0.023}_{-0.036} \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.6014^{+0.0036}_{-0.0050} \quad (-0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.608 \quad (-0.1\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.876 \pm 0.011 \quad (-0.6\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246273 \pm 0.000067 \quad (-5.5\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.53^{+3.9}_{-2.0} \quad (+0.7\sigma)$	D_{40}	$1225 \pm 12 \quad (-0.8\sigma)$	f_{2000}^{143}	$29.5^{+2.8}_{-2.4} \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	D_{220}	$5713 \pm 39 \quad (-0.4\sigma)$	f_{2000}^{217}	$106.7 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2532 \pm 13 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.1 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	$814.9 \pm 4.7 \quad (+0.1\sigma)$	$\chi^2_{\rm lensing}$	$9.36 \pm 0.80 \quad (-0.4\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$n_{\rm s,0.002}$	$0.9661 \pm 0.0041 \quad (+0.7\sigma)$	$\chi^2_{\rm lowl}$	$13.26 \pm 0.80 \quad (-0.8\sigma)$
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00098 \quad (-1.7\sigma)$	$Y_{\rm P}$	$0.244944^{+0.000061}_{-0.000072} \quad (-5.6\sigma)$	$\chi^2_{\rm CamSpec}$	12954.3 ± 5.8
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.8\sigma)$	Age/Gyr	$13.805 \pm 0.023 \quad (-0.5\sigma)$	$\chi^2_{\rm prior}$	$10.1 \pm 3.8 \quad (-1.8\sigma)$
$\boldsymbol{c_{TE}}$	1.0058 ± 0.0043	z_*	$1089.94 \pm 0.26 \quad (-0.7\sigma)$	$\chi^2_{\rm CMB}$	$12976.9 \pm 5.8 \quad (+1622.6\sigma)$
$\boldsymbol{c_{EE}}$	1.0018 ± 0.0042	r_*	$144.63 \pm 0.26 \quad (+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 12987.01$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.09$; $R - 1 = 0.01991$

2.78 base_plikHM_TT_lowl_reion

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022112	0.02212 ± 0.00022	Ω_m	0.3228	0.322 ± 0.013	$100\theta_*$	1.040894	1.04094 ± 0.00045
$\boldsymbol{\Omega_c h^2}$	0.12097	0.1208 ± 0.0021	$\Omega_m h^2$	0.14373	0.1436 ± 0.0020	D_A/Gpc	13.8706	13.874 ± 0.044
$\boldsymbol{100\theta_{MC}}$	1.040685	1.04073 ± 0.00046	$\Omega_m h^3$	0.095903	0.09591 ± 0.00046	z_{drag}	1059.399	1059.41 ± 0.45
$\boldsymbol{\tau}$	0.0516	$0.0548^{+0.0054}_{-0.011}$	σ_8	0.8126	0.8145 ± 0.0091	r_{drag}	147.124	147.16 ± 0.48
$\boldsymbol{\ln(10^{10} A_s)}$	3.0403	$3.046^{+0.013}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4617	0.462 ± 0.013	k_D	0.14063	0.14060 ± 0.00052
$\boldsymbol{n_s}$	0.9618	0.9620 ± 0.0055	$\sigma_8 \Omega_m^{0.25}$	0.6125	0.613 ± 0.012	$100\theta_D$	0.161052	0.16106 ± 0.00026
$\boldsymbol{y_{cal}}$	1.00037	1.0005 ± 0.0025	$\sigma_8/h^{0.5}$	0.9948	0.997 ± 0.016	z_{eq}	3419.2	3416 ± 47
$\boldsymbol{A_{217}^{CIB}}$	67.9	64.9 ± 6.7	$\langle d^2 \rangle^{1/2}$	2.4583	2.464 ± 0.038	k_{eq}	0.010436	0.01042 ± 0.00014
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	z_{re}	7.47	$7.78^{+0.46}_{-1.1}$	$100\theta_{eq}$	0.8094	0.8102 ± 0.0088
$\boldsymbol{A_{143}^{tSZ}}$	7.12	4.90 ± 2.0	$10^9 A_s$	2.0911	$2.104^{+0.028}_{-0.042}$	$100\theta_{s,eq}$	0.44753	0.4479 ± 0.0045
$\boldsymbol{A_{100}^{PS}}$	255.9	263 ± 28	$10^9 A_s e^{-2\tau}$	1.8862	1.886 ± 0.014	$r_{drag}/D_V(0.57)$	0.07097	0.07105 ± 0.00069
$\boldsymbol{A_{143}^{PS}}$	41.1	46 ± 8	D_{40}	1235.5	1237 ± 15	$H(0.57)$	92.625	92.67 ± 0.38
$\boldsymbol{A_{143\times217}^{PS}}$	34.0	39^{+10}_{-10}	D_{220}	5714.2	5716 ± 42	$D_A(0.57)$	1399.5	1398 ± 12
$\boldsymbol{A_{217}^{PS}}$	97.9	97 ± 10	D_{810}	2537.1	2536 ± 14	$F_{AP}(0.57)$	0.67887	0.6786 ± 0.0032
$\boldsymbol{A^{kSZ}}$	0.00	< 5.12	D_{1420}	814.5	814.2 ± 5.1	$f\sigma_8(0.57)$	0.4752	0.4761 ± 0.0077
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.45 ± 1.9	D_{2000}	229.62	229.6 ± 1.8	$\sigma_8(0.57)$	0.6018	$0.6035^{+0.0046}_{-0.0061}$
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.07 ± 1.8	$n_{s,0.002}$	0.9618	0.9620 ± 0.0055	f_{2000}^{143}	30.77	31.2 ± 2.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.81	17.3 ± 4.2	Y_P	0.245274	0.24528 ± 0.00010	$f_{2000}^{143\times217}$	33.29	33.4 ± 2.0
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.9 ± 7.5	Y_P^{BBN}	0.246600	0.24660 ± 0.00010	f_{2000}^{217}	106.83	106.9 ± 1.9
$\boldsymbol{c_{100}}$	0.99793	0.99789 ± 0.00078	10^5D/H	2.6402	2.639 ± 0.042	χ^2_{lowl}	14.10	14.3 ± 1.3
$\boldsymbol{c_{217}}$	0.99602	0.9961 ± 0.0015	Age/Gyr	13.8345	13.831 ± 0.036	χ^2_{plik}	766.0	779.2 ± 5.5
H_0	66.73	66.81 ± 0.91	z_*	1090.333	1090.31 ± 0.40	χ^2_{prior}	2.25	8.64 ± 4.0
Ω_Λ	0.6772	0.678 ± 0.013	r_*	144.378	144.42 ± 0.48	χ^2_{CMB}	780.1	793.5 ± 5.4

Best-fit $\chi^2_{eff} = 782.30$; $\bar{\chi}^2_{eff} = 802.10$; $R - 1 = 0.00778$

χ^2_{eff}: CMB - commander_rc2_v1.1_l2_29_B: 14.10 plik_dx11dr2_HM_v18_TT: 765.95

2.79 base_plikHM_TT_lowl_reion_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022214	0.02220 ± 0.00020	$\Omega_m h^3$	0.095929	0.09590 ± 0.00046	k_D	0.140393	0.14036 ± 0.00045
$\boldsymbol{\Omega_c h^2}$	0.11939	0.1194 ± 0.0013	σ_8	0.8091	$0.8105^{+0.0076}_{-0.0086}$	$100\theta_D$	0.160993	0.16102 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.040917	1.04091 ± 0.00041	$\sigma_8\Omega_m^{0.5}$	0.4525	0.4534 ± 0.0084	z_{eq}	3383.8	3383 ± 29
$\boldsymbol{\tau}$	0.0544	$0.0561^{+0.0060}_{-0.011}$	$\sigma_8\Omega_m^{0.25}$	0.6051	0.6062 ± 0.0082	k_{eq}	0.010328	0.010327 ± 0.000089
$\boldsymbol{\ln(10^{10}A_s)}$	3.0423	$3.046^{+0.014}_{-0.021}$	$\sigma_8/h^{0.5}$	0.9853	0.987 ± 0.012	$100\theta_{eq}$	0.8162	0.8162 ± 0.0054
$\boldsymbol{n_s}$	0.96544	0.9651 ± 0.0042	$\langle d^2\rangle^{1/2}$	2.4367	2.442 ± 0.029	$100\theta_{s,eq}$	0.45099	0.4510 ± 0.0028
$\boldsymbol{y_{cal}}$	1.00040	1.0006 ± 0.0025	z_{re}	7.71	$7.87^{+0.62}_{-1.1}$	$r_{drag}/D_V(0.57)$	0.071520	0.07152 ± 0.00042
$\boldsymbol{A_{217}^{CIB}}$	67.8	64.8 ± 6.7	$10^9 A_s$	2.0953	$2.103^{+0.029}_{-0.044}$	$H(0.57)$	92.911	92.90 ± 0.26
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8794	1.880 ± 0.012	$D_A(0.57)$	1390.0	1390.3 ± 7.5
$\boldsymbol{A_{143}^{tSZ}}$	7.13	4.92 ± 2.0	D_{40}	1228.2	1230 ± 13	$F_{AP}(0.57)$	0.67635	0.6764 ± 0.0019
$\boldsymbol{A_{100}^{PS}}$	256.4	262 ± 28	D_{220}	5721.5	5723 ± 40	$f\sigma_8(0.57)$	0.4708	0.4716 ± 0.0057
$\boldsymbol{A_{143}^{PS}}$	40.5	45 ± 8	D_{810}	2536.0	2536 ± 14	$\sigma_8(0.57)$	0.6016	$0.6026^{+0.0046}_{-0.0063}$
$\boldsymbol{A_{143\times217}^{PS}}$	33.5	39^{+9}_{-10}	D_{1420}	815.3	815.0 ± 5.0	f_{2000}^{143}	30.52	31.0 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	97.5	96 ± 10	D_{2000}	229.99	229.9 ± 1.7	$f_{2000}^{143\times217}$	33.01	33.2 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.00	< 5.14	$n_{s,0.002}$	0.96544	0.9651 ± 0.0042	f_{2000}^{217}	106.56	106.7 ± 1.9
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.46 ± 1.9	Y_P	0.245324	0.245314 ± 0.000090	χ^2_{lowl}	13.42	13.63 ± 0.96
$\boldsymbol{A_{143}^{dustTT}}$	9.03	9.08 ± 1.8	Y_P^{BBN}	0.246650	0.246641 ± 0.000090	χ^2_{plik}	767.0	779.7 ± 5.5
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.81	17.2 ± 4.2	10^5D/H	2.6208	2.624 ± 0.038	χ^2_{6DF}	0.0469	0.09 ± 0.10
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.5	Age/Gyr	13.8108	13.812 ± 0.028	χ^2_{MGS}	1.10	1.17 ± 0.50
$\boldsymbol{c_{100}}$	0.99794	0.99790 ± 0.00078	z_*	1090.064	1090.08 ± 0.30	$\chi^2_{DR11CMASS}$	2.590	3.03 ± 0.84
$\boldsymbol{c_{217}}$	0.99600	0.9960 ± 0.0015	r_*	144.709	144.72 ± 0.32	$\chi^2_{DR11LOWZ}$	0.82	0.96 ± 0.68
H_0	67.44	67.43 ± 0.55	$100\theta_*$	1.041115	1.04111 ± 0.00041	χ^2_{prior}	2.50	8.81 ± 4.1
Ω_Λ	0.6872	0.6871 ± 0.0075	D_A/Gpc	13.8994	13.901 ± 0.032	χ^2_{BAO}	4.55	5.24 ± 1.2
Ω_m	0.3128	0.3129 ± 0.0075	z_{drag}	1059.513	1059.49 ± 0.44	χ^2_{CMB}	780.4	793.3 ± 5.4
$\Omega_m h^2$	0.14225	0.1422 ± 0.0012	r_{drag}	147.429	147.45 ± 0.35			

Best-fit $\chi^2_{eff} = 787.47$; $\bar{\chi}^2_{eff} = 807.37$; $R - 1 = 0.01084$

χ^2_{eff}: BAO - 6DF: 0.05 MGS: 1.10 DR11CMASS: 2.59 DR11LOWZ: 0.82 CMB - commander_rc2_v1.1_l2_29_B: 13.42 plik_dx11dr2_HM_v18_TT: 767.00

2.80 base_plikHM_TT_lowl_reion_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022235	0.02222 ± 0.00020	σ_8	0.8086	$0.8097^{+0.0075}_{-0.0088}$	$z_{\rm eq}$	3377.9	3377 ± 28
$\boldsymbol{\Omega_c h^2}$	0.11912	0.1191 ± 0.0012	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4510	0.4515 ± 0.0082	$k_{\rm eq}$	0.010310	0.010307 ± 0.000087
$\boldsymbol{100\theta_{\rm MC}}$	1.040979	1.04095 ± 0.00041	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6039	0.6046 ± 0.0081	$100\theta_{\rm eq}$	0.8173	0.8175 ± 0.0052
$\boldsymbol{\tau}$	0.0548	$0.0565^{+0.0061}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9837	0.985 ± 0.012	$100\theta_{\rm s,eq}$	0.45159	0.4517 ± 0.0027
$\boldsymbol{\ln(10^{10}A_s)}$	3.0430	$3.046^{+0.015}_{-0.021}$	$\langle d^2\rangle^{1/2}$	2.4334	2.437 ± 0.028	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071618	0.07162 ± 0.00040
$\boldsymbol{n_s}$	0.96602	0.9658 ± 0.0042	$z_{\rm re}$	7.75	$7.90^{+0.63}_{-1.1}$	$H(0.57)$	92.969	92.96 ± 0.26
$\boldsymbol{y_{\rm cal}}$	1.00059	1.0006 ± 0.0025	$10^9 A_{\rm s}$	2.0967	$2.103^{+0.030}_{-0.044}$	$D_{\rm A}(0.57)$	1388.3	1388.4 ± 7.3
$\boldsymbol{A_{217}^{\rm CIB}}$	67.9	64.8 ± 6.7	$10^9 A_{\rm s} e^{-2\tau}$	1.8790	1.878 ± 0.012	$F_{\rm AP}(0.57)$	0.67590	0.6759 ± 0.0018
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	D_{40}	1227.6	1229 ± 13	$f\sigma_8(0.57)$	0.4700	0.4706 ± 0.0057
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.14	4.94 ± 2.0	D_{220}	5725.6	5725 ± 40	$\sigma_8(0.57)$	0.6017	$0.6024^{+0.0047}_{-0.0064}$
$\boldsymbol{A_{100}^{\rm PS}}$	256.3	262 ± 28	D_{810}	2536.9	2536 ± 14	f_{2000}^{143}	30.53	30.9 ± 2.7
$\boldsymbol{A_{143}^{\rm PS}}$	40.5	45 ± 8	D_{1420}	815.8	815.2 ± 5.0	$f_{2000}^{143\times217}$	33.01	33.1 ± 2.0
$\boldsymbol{A_{143\times217}^{PS}}$	33.4	39^{+9}_{-10}	D_{2000}	230.15	230.0 ± 1.7	f_{2000}^{217}	106.56	106.6 ± 1.9
$\boldsymbol{A_{217}^{\rm PS}}$	97.3	96 ± 10	$n_{\rm s,0.002}$	0.96602	0.9658 ± 0.0042	$\chi^2_{\rm lowl}$	13.33	13.50 ± 0.93
$\boldsymbol{A^{\rm kSZ}}$	0.01	< 5.12	$Y_{\rm P}$	0.245333	0.245326 ± 0.000089	$\chi^2_{\rm plik}$	767.2	780.0 ± 5.6
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.40	7.46 ± 1.9	$Y_{\rm P}^{\rm BBN}$	0.246660	0.246652 ± 0.000090	$\chi^2_{\rm H070p6}$	0.829	0.86 ± 0.29
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.04	9.08 ± 1.8	10^5D/H	2.6169	2.619 ± 0.037	$\chi^2_{\rm JLA}$	706.734	706.78 ± 0.22
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.79	17.2 ± 4.2	Age/Gyr	13.8058	13.807 ± 0.028	$\chi^2_{\rm 6DF}$	0.0290	0.064 ± 0.081
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	82.1	81.6 ± 7.5	z_*	1090.014	1090.03 ± 0.29	$\chi^2_{\rm MGS}$	1.22	1.29 ± 0.51
$\boldsymbol{c_{100}}$	0.99794	0.99790 ± 0.00078	r_*	144.763	144.78 ± 0.32	$\chi^2_{\rm DR11CMASS}$	2.479	2.88 ± 0.67
$\boldsymbol{c_{217}}$	0.99604	0.9960 ± 0.0015	$100\theta_*$	1.041172	1.04115 ± 0.00041	$\chi^2_{\rm DR11LOWZ}$	0.673	0.79 ± 0.60
H_0	67.57	67.57 ± 0.53	$D_{\rm A}$/Gpc	13.9039	13.906 ± 0.031	$\chi^2_{\rm prior}$	2.63	8.88 ± 4.1
Ω_Λ	0.6890	0.6890 ± 0.0072	$z_{\rm drag}$	1059.551	1059.53 ± 0.44	$\chi^2_{\rm BAO}$	4.40	5.03 ± 0.98
$\Omega_{\rm m}$	0.3110	0.3110 ± 0.0072	$r_{\rm drag}$	147.477	147.50 ± 0.35	$\chi^2_{\rm CMB}$	780.5	793.5 ± 5.4
$\Omega_{\rm m}h^2$	0.14200	0.1420 ± 0.0012	$k_{\rm D}$	0.140358	0.14033 ± 0.00045			
$\Omega_{\rm m}h^3$	0.095948	0.09591 ± 0.00046	$100\theta_{\rm D}$	0.160982	0.16100 ± 0.00026			

Best-fit $\chi^2_{\rm eff} = 1495.13$; $\bar{\chi}^2_{\rm eff} = 1515.03$; $R - 1 = 0.01183$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.03 MGS: 1.22 DR11CMASS: 2.48 DR11LOWZ: 0.67 CMB - commander_rc2_v1.1_l2_29_B: 13.33 plik_dx11dr2_HM_v18_TT: 767.21 Hubble - H070p6: 0.83 SN - JLA December_2013: 706.73

2.81 base_plikHM_TTTEEE_lowl_reion

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022179	0.02218 ± 0.00015	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.302 ± 0.084	10^5D/H	2.6274	2.628 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.12068	0.1206 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.156 ± 0.054	Age/Gyr	13.8268	13.826 ± 0.025
$\boldsymbol{100\theta_{MC}}$	1.040676	1.04068 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.341	0.340 ± 0.080	z_*	1090.222	1090.21 ± 0.28
$\boldsymbol{\tau}$	0.0544	$0.0562^{+0.0063}_{-0.010}$	$\boldsymbol{A^{dustTE}_{217}}$	1.688	1.68 ± 0.25	r_*	144.401	144.42 ± 0.31
$\boldsymbol{\ln(10^{10}A_s)}$	3.0460	$3.050^{+0.014}_{-0.020}$	$\boldsymbol{c_{100}}$	0.99816	0.99817 ± 0.00078	$100\theta_*$	1.040879	1.04089 ± 0.00031
$\boldsymbol{n_s}$	0.96179	0.9617 ± 0.0045	$\boldsymbol{c_{217}}$	0.99613	0.9961 ± 0.0014	D_A/Gpc	13.8730	13.875 ± 0.028
$\boldsymbol{y_{cal}}$	1.00040	1.0007 ± 0.0025	H_0	66.88	66.91 ± 0.61	z_{drag}	1059.551	1059.54 ± 0.30
$\boldsymbol{A^{CIB}_{217}}$	68.1	64.8 ± 6.5	Ω_Λ	0.6791	0.6795 ± 0.0087	r_{drag}	147.123	147.15 ± 0.30
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	Ω_m	0.3209	0.3205 ± 0.0087	k_D	0.140686	0.14066 ± 0.00032
$\boldsymbol{A^{tSZ}_{143}}$	7.20	5.22 ± 1.9	$\Omega_m h^2$	0.14351	0.1434 ± 0.0013	$100\theta_D$	0.160965	0.16097 ± 0.00018
$\boldsymbol{A^{PS}_{100}}$	259.2	264 ± 28	$\Omega_m h^3$	0.095974	0.09596 ± 0.00029	z_{eq}	3414.0	3412 ± 31
$\boldsymbol{A^{PS}_{143}}$	40.1	45 ± 8	σ_8	0.8137	$0.8149^{+0.0073}_{-0.0083}$	k_{eq}	0.010420	0.010413 ± 0.000095
$\boldsymbol{A^{PS}_{143\times217}}$	33.5	40^{+10}_{-10}	$\sigma_8\Omega_m^{0.5}$	0.4609	0.4613 ± 0.0090	$100\theta_{eq}$	0.8105	0.8109 ± 0.0059
$\boldsymbol{A^{PS}_{217}}$	97.1	97 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6124	0.6131 ± 0.0084	$100\theta_{s,eq}$	0.44805	0.4483 ± 0.0030
$\boldsymbol{A^{kSZ}}$	0.00	< 4.55	$\sigma_8/h^{0.5}$	0.9950	0.996 ± 0.012	$r_{drag}/D_V(0.57)$	0.071066	0.07110 ± 0.00046
$\boldsymbol{A^{dustTT}_{100}}$	7.46	7.48 ± 1.9	$\langle d^2\rangle^{1/2}$	2.4622	2.466 ± 0.029	$H(0.57)$	92.700	92.71 ± 0.26
$\boldsymbol{A^{dustTT}_{143}}$	9.04	8.99 ± 1.8	z_{re}	7.74	$7.90^{+0.67}_{-1.0}$	$D_A(0.57)$	1397.4	1397.0 ± 8.3
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.67	17.2 ± 4.2	$10^9 A_s$	2.1030	$2.112^{+0.028}_{-0.042}$	$F_{AP}(0.57)$	0.67839	0.6783 ± 0.0022
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.8 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8862	1.887 ± 0.012	$f\sigma_8(0.57)$	0.4754	0.4760 ± 0.0057
$\boldsymbol{A^{dustEE}_{100}}$	0.0809	0.0809 ± 0.0057	D_{40}	1237.9	1240 ± 13	$\sigma_8(0.57)$	0.6031	$0.6041^{+0.0044}_{-0.0060}$
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0484	0.0484 ± 0.0050	D_{220}	5727.3	5732 ± 39	f^{143}_{2000}	30.43	30.6 ± 2.6
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0989	0.0996 ± 0.033	D_{810}	2537.9	2539 ± 13	$f^{143\times217}_{2000}$	33.07	33.1 ± 1.8
$\boldsymbol{A^{dustEE}_{143}}$	0.09998	0.0998 ± 0.0069	D_{1420}	814.86	815.0 ± 4.8	f^{217}_{2000}	106.61	106.6 ± 1.8
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2245	0.224 ± 0.047	D_{2000}	229.84	229.9 ± 1.6	χ^2_{lowl}	14.28	14.5 ± 1.1
$\boldsymbol{A^{dustEE}_{217}}$	0.650	0.65 ± 0.13	$n_{s,0.002}$	0.96179	0.9617 ± 0.0045	χ^2_{plik}	2434.8	2453.2 ± 6.6
$\boldsymbol{A^{dustTE}_{100}}$	0.1404	0.142 ± 0.038	Y_P	0.245307	0.245306 ± 0.000069	χ^2_{prior}	7.50	21 ± 6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1315	0.132 ± 0.029	Y_P^{BBN}	0.246633	0.246632 ± 0.000070	χ^2_{CMB}	2449.1	2467.6 ± 6.6

Best-fit $\chi^2_{eff} = 2456.59$; $\bar{\chi}^2_{eff} = 2488.39$; $R - 1 = 0.00812$

χ^2_{eff}: CMB - commander_rc2_v1.1_l2_29_B: 14.28 plik_dx11dr2_HM_v18_TTTEEE: 2434.81

2.82 base_plikHM_TTTEEE_lowl_reion_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022253	0.02224 ± 0.00014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.336 ± 0.080	$100\theta_*$	1.041000	1.04099 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11965	0.1197 ± 0.0010	$\boldsymbol{A^{dustTE}_{217}}$	1.672	1.67 ± 0.25	D_A/Gpc	13.8916	13.892 ± 0.023
$\boldsymbol{100\theta_{MC}}$	1.040809	1.04079 ± 0.00030	$\boldsymbol{c_{100}}$	0.99818	0.99817 ± 0.00078	z_{drag}	1059.628	1059.61 ± 0.29
$\boldsymbol{\tau}$	0.0563	$0.0574^{+0.0067}_{-0.010}$	$\boldsymbol{c_{217}}$	0.99612	0.9961 ± 0.0014	r_{drag}	147.316	147.32 ± 0.25
$\boldsymbol{\ln(10^{10}A_s)}$	3.0477	$3.050^{+0.015}_{-0.020}$	H_0	67.341	67.32 ± 0.46	k_D	0.140541	0.14053 ± 0.00029
$\boldsymbol{n_s}$	0.96421	0.9639 ± 0.0039	Ω_Λ	0.6857	0.6853 ± 0.0064	$100\theta_D$	0.160914	0.16093 ± 0.00017
$\boldsymbol{y_{cal}}$	1.00049	1.0007 ± 0.0025	Ω_m	0.3143	0.3147 ± 0.0064	z_{eq}	3391.0	3392 ± 24
$\boldsymbol{A^{CIB}_{217}}$	67.7	64.7 ± 6.5	$\Omega_m h^2$	0.14255	0.14257 ± 0.00098	k_{eq}	0.010350	0.010352 ± 0.000072
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	$\Omega_m h^3$	0.095993	0.09597 ± 0.00029	$100\theta_{eq}$	0.81489	0.8148 ± 0.0044
$\boldsymbol{A^{tSZ}_{143}}$	7.21	5.27 ± 1.9	σ_8	0.8116	$0.8126^{+0.0070}_{-0.0083}$	$100\theta_{s,eq}$	0.45030	0.4502 ± 0.0023
$\boldsymbol{A^{PS}_{100}}$	258.4	262 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4550	0.4559 ± 0.0072	$r_{drag}/D_V(0.57)$	0.071418	0.07140 ± 0.00035
$\boldsymbol{A^{PS}_{143}}$	39.8	44 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6077	0.6086 ± 0.0072	$H(0.57)$	92.887	92.87 ± 0.21
$\boldsymbol{A^{PS}_{143\times217}}$	33.8	40 ± 10	$\sigma_8/h^{0.5}$	0.9890	0.990 ± 0.011	$D_A(0.57)$	1391.2	1391.6 ± 6.3
$\boldsymbol{A^{PS}_{217}}$	97.2	97 ± 10	$\langle d^2\rangle^{1/2}$	2.4484	2.453 ± 0.026	$F_{AP}(0.57)$	0.67675	0.6768 ± 0.0016
$\boldsymbol{A^{kSZ}}$	0.00	< 4.51	z_{re}	7.91	$8.00^{+0.72}_{-1.0}$	$f\sigma_8(0.57)$	0.4726	0.4733 ± 0.0051
$\boldsymbol{A^{dustTT}_{100}}$	7.51	7.55 ± 1.9	$10^9 A_s$	2.1067	$2.112^{+0.031}_{-0.043}$	$\sigma_8(0.57)$	0.6030	$0.6038^{+0.0047}_{-0.0062}$
$\boldsymbol{A^{dustTT}_{143}}$	9.07	9.00 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8822	1.883 ± 0.011	f^{143}_{2000}	30.01	30.3 ± 2.6
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.83	17.2 ± 4.1	D_{40}	1233.3	1235 ± 12	$f^{143\times217}_{2000}$	32.74	32.9 ± 1.8
$\boldsymbol{A^{dustTT}_{217}}$	82.3	81.8 ± 7.3	D_{220}	5733.5	5736 ± 38	f^{217}_{2000}	106.34	106.5 ± 1.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0812	0.0813 ± 0.0057	D_{810}	2537.8	2538 ± 13	χ^2_{lowl}	13.82	14.00 ± 0.94
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0489	0.0488 ± 0.0051	D_{1420}	815.62	815.6 ± 4.7	χ^2_{plik}	2435.4	2453.4 ± 6.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0996	0.100 ± 0.032	D_{2000}	230.16	230.1 ± 1.6	χ^2_{6DF}	0.069	0.099 ± 0.095
$\boldsymbol{A^{dustEE}_{143}}$	0.1003	0.1001 ± 0.0069	$n_{s,0.002}$	0.96421	0.9639 ± 0.0039	χ^2_{MGS}	0.982	1.03 ± 0.40
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2243	0.225 ± 0.047	Y_P	0.245341	$0.245334^{+0.000067}_{-0.000060}$	$\chi^2_{DR11CMASS}$	2.76	3.09 ± 0.81
$\boldsymbol{A^{dustEE}_{217}}$	0.649	0.65 ± 0.13	Y_P^{BBN}	0.246668	$0.246661^{+0.000067}_{-0.000061}$	$\chi^2_{DR11LOWZ}$	0.98	1.10 ± 0.62
$\boldsymbol{A^{dustTE}_{100}}$	0.1423	0.141 ± 0.038	10^5D/H	2.6135	2.616 ± 0.026	χ^2_{prior}	7.90	21 ± 6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1309	0.131 ± 0.030	Age/Gyr	13.8113	13.813 ± 0.021	χ^2_{BAO}	4.80	5.32 ± 1.2
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.301 ± 0.083	z_*	1090.038	1090.06 ± 0.23	χ^2_{CMB}	2449.2	2467.4 ± 6.6
$\boldsymbol{A^{dustTE}_{143}}$	0.152	0.155 ± 0.055	r_*	144.612	144.61 ± 0.24			

Best-fit $\chi^2_{eff} = 2461.93$; $\bar{\chi}^2_{eff} = 2493.79$; $R - 1 = 0.01676$

χ^2_{eff}: BAO - 6DF: 0.07 MGS: 0.98 DR11CMASS: 2.76 DR11LOWZ: 0.98 CMB - commander_rc2_v1.1_l2_29_B: 13.82 plik_dx11dr2_HM_v18_TTTEEE: 2435.42

2.83 base_plikHM_TTTEEE_lowl_reion_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022260	0.02226 ± 0.00013	$\boldsymbol{A_{217}^{dustTE}}$	1.680	1.67 ± 0.25	z_{drag}	1059.628	1059.64 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.11951	0.1195 ± 0.0010	$\boldsymbol{c_{100}}$	0.99821	0.99818 ± 0.00078	r_{drag}	147.346	147.36 ± 0.24
$\boldsymbol{100\theta_{MC}}$	1.040821	1.04082 ± 0.00030	$\boldsymbol{c_{217}}$	0.99604	0.9961 ± 0.0014	k_D	0.140516	0.14050 ± 0.00029
$\boldsymbol{\tau}$	0.0566	$0.0578^{+0.0068}_{-0.010}$	H_0	67.400	67.42 ± 0.45	$100\theta_D$	0.160910	0.16091 ± 0.00017
$\boldsymbol{\ln(10^{10} A_s)}$	3.0480	$3.051^{+0.015}_{-0.021}$	Ω_Λ	0.6865	0.6868 ± 0.0062	z_{eq}	3387.8	3387 ± 23
$\boldsymbol{n_s}$	0.96485	0.9645 ± 0.0038	Ω_m	0.3135	0.3132 ± 0.0062	k_{eq}	0.010340	0.010336 ± 0.000070
$\boldsymbol{y_{cal}}$	1.00052	1.0007 ± 0.0025	$\Omega_m h^2$	0.14241	0.14236 ± 0.00096	$100\theta_{eq}$	0.81548	0.8157 ± 0.0043
$\boldsymbol{A_{217}^{CIB}}$	67.3	64.6 ± 6.5	$\Omega_m h^3$	0.095987	0.09598 ± 0.00029	$100\theta_{s,eq}$	0.45060	0.4507 ± 0.0022
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.09	—	σ_8	0.8114	$0.8121^{+0.0071}_{-0.0083}$	$r_{drag}/D_V(0.57)$	0.071464	0.07148 ± 0.00034
$\boldsymbol{A_{143}^{tSZ}}$	7.15	5.28 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4543	0.4545 ± 0.0070	$H(0.57)$	92.909	92.92 ± 0.21
$\boldsymbol{A_{100}^{PS}}$	258.1	262 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6071	0.6075 ± 0.0071	$D_A(0.57)$	1390.4	1390.2 ± 6.1
$\boldsymbol{A_{143}^{PS}}$	40.8	44 ± 8	$\sigma_8/h^{0.5}$	0.9883	$0.989^{+0.010}_{-0.011}$	$F_{AP}(0.57)$	0.67654	0.6765 ± 0.0016
$\boldsymbol{A_{143\times217}^{PS}}$	35.7	40 ± 10	$\langle d^2\rangle^{1/2}$	2.4460	2.449 ± 0.026	$f\sigma_8(0.57)$	0.4723	$0.4726^{+0.0049}_{-0.0055}$
$\boldsymbol{A_{217}^{PS}}$	98.1	97 ± 10	z_{re}	7.94	$8.03^{+0.73}_{-1.0}$	$\sigma_8(0.57)$	0.6031	$0.6037^{+0.0047}_{-0.0062}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.48	$10^9 A_s$	2.1073	$2.113^{+0.031}_{-0.044}$	f_{2000}^{143}	29.92	30.3 ± 2.6
$\boldsymbol{A_{100}^{dustTT}}$	7.46	7.55 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8816	1.882 ± 0.011	$f_{2000}^{143\times217}$	32.69	32.8 ± 1.8
$\boldsymbol{A_{143}^{dustTT}}$	9.02	9.00 ± 1.8	D_{40}	1231.8	1234 ± 12	f_{2000}^{217}	106.22	106.4 ± 1.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.73	17.2 ± 4.1	D_{220}	5732.3	5737 ± 38	χ^2_{lowl}	13.68	13.89 ± 0.91
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.8 ± 7.3	D_{810}	2537.9	2538 ± 13	χ^2_{plik}	2435.8	2453.6 ± 6.8
$\boldsymbol{A_{100}^{dustEE}}$	0.0813	0.0814 ± 0.0057	D_{1420}	815.91	815.8 ± 4.7	χ^2_{H070p6}	0.923	0.93 ± 0.26
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0488	0.0490 ± 0.0051	D_{2000}	230.28	230.2 ± 1.5	χ^2_{JLA}	706.810	706.83 ± 0.20
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0990	0.100 ± 0.032	$n_{s,0.002}$	0.96485	0.9645 ± 0.0038	χ^2_{6DF}	0.0578	0.079 ± 0.082
$\boldsymbol{A_{143}^{dustEE}}$	0.1002	0.1002 ± 0.0069	Y_P	0.245344	$0.245343^{+0.000066}_{-0.000059}$	χ^2_{MGS}	1.039	1.12 ± 0.40
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2250	0.225 ± 0.047	Y_P^{BBN}	0.246670	$0.246670^{+0.000066}_{-0.000059}$	$\chi^2_{DR11CMASS}$	2.679	2.94 ± 0.67
$\boldsymbol{A_{217}^{dustEE}}$	0.652	0.65 ± 0.13	10^5D/H	2.6122	2.612 ± 0.025	$\chi^2_{DR11LOWZ}$	0.91	0.96 ± 0.57
$\boldsymbol{A_{100}^{dustTE}}$	0.1412	0.141 ± 0.038	Age/Gyr	13.8097	13.809 ± 0.020	χ^2_{prior}	7.83	21 ± 6
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1311	0.131 ± 0.030	z_*	1090.018	1090.01 ± 0.22	χ^2_{BAO}	4.68	5.10 ± 0.97
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.301	0.300 ± 0.083	r_*	144.642	144.66 ± 0.23	χ^2_{CMB}	2449.5	2467.5 ± 6.6
$\boldsymbol{A_{143}^{dustTE}}$	0.154	0.155 ± 0.055	$100\theta_*$	1.041011	1.04102 ± 0.00030			
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.340	0.335 ± 0.081	D_A/Gpc	13.8944	13.896 ± 0.022			

Best-fit $\chi^2_{eff} = 3169.73$; $\bar{\chi}^2_{eff} = 3201.55$; $R - 1 = 0.02083$

χ^2_{eff}: BAO - 6DF: 0.06 MGS: 1.04 DR11CMASS: 2.68 DR11LOWZ: 0.91 CMB - commander_rc2_v1.1_l2_29_B: 13.68 plik_dx11dr2_HM_v18_TTTEEE: 2435.80 Hubble -

2.84 base_CamSpecHM_TT_lowl_reion

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02213 ± 0.00022 $(+0.0\sigma)$	H_0	66.91 ± 0.90 $(+0.1\sigma)$	$100\theta_*$	1.04100 ± 0.00047 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1206 ± 0.0020 (-0.1σ)	Ω_Λ	0.680 ± 0.013 $(+0.1\sigma)$	$z_{\rm drag}$	1059.40 ± 0.45 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04078 ± 0.00048 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.320 ± 0.013 (-0.1σ)	$r_{\rm drag}$	147.21 ± 0.47 $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.0554^{+0.0055}_{-0.010}$ $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.1434 ± 0.0019 (-0.1σ)	$k_{\rm D}$	0.14057 ± 0.00051 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	$3.045^{+0.013}_{-0.020}$ (-0.1σ)	$\Omega_{\rm m}h^3$	0.09591 ± 0.00046 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.16104 ± 0.00026 (-0.1σ)
$\boldsymbol{n_s}$	0.9641 ± 0.0056 $(+0.4\sigma)$	σ_8	0.8138 ± 0.0089 (-0.1σ)	$z_{\rm eq}$	3410 ± 46 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.461 ± 0.013 (-0.1σ)	$100\theta_{\rm eq}$	0.8112 ± 0.0086 $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	249 ± 22 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.612 ± 0.011 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07113 ± 0.00068 $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{143}}$	41 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.995 ± 0.016 (-0.1σ)	$H(0.57)$	92.71 ± 0.38 $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{217}}$	97 ± 10 $(+0.0\sigma)$	$\langle d^2\rangle^{1/2}$	2.455 ± 0.037 (-0.2σ)	$D_{\rm A}(0.57)$	1397 ± 12 (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	47 ± 7 (-2.7σ)	$z_{\rm re}$	$7.83^{+0.57}_{-1.1}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6783 ± 0.0032 (-0.1σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.09^{+1.3}_{-2.6}$ (-0.9σ)	$10^9A_{\rm s}$	$2.101^{+0.028}_{-0.042}$ (-0.1σ)	$f\sigma_8(0.57)$	0.4753 ± 0.0075 (-0.1σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.512^{+0.099}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.880 ± 0.014 (-0.4σ)	$\sigma_8(0.57)$	$0.6033^{+0.0046}_{-0.0061}$ (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.577 (-0.2σ)	D_{40}	1228 ± 15 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.246197 ± 0.000095 (-4.1σ)
$\boldsymbol{A^{kSZ}}$	$5.66^{+4.3}_{-1.3}$ $(+0.7\sigma)$	D_{220}	5695 ± 41 (-0.5σ)	f^{143}_{2000}	30.0 ± 2.8 (-0.4σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	2532 ± 14 (-0.3σ)	f^{217}_{2000}	107.2 ± 1.9 $(+0.2\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	D_{1420}	813.8 ± 5.1 (-0.1σ)	$f^{143\times217}_{2000}$	32.7 ± 2.0 (-0.3σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9641 ± 0.0056 $(+0.4\sigma)$	$\chi^2_{\rm lowl}$	13.7 ± 1.2 (-0.5σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	$Y_{\rm P}$	0.244871 ± 0.000092 (-4.1σ)	$\chi^2_{\rm CamSpec}$	8061.4 ± 5.8
$\boldsymbol{c_{100}}$	0.99677 ± 0.00097 (-1.4σ)	Age/Gyr	13.828 ± 0.036 (-0.1σ)	$\chi^2_{\rm prior}$	9.73 ± 4.0 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	z_*	1090.26 ± 0.40 (-0.1σ)	$\chi^2_{\rm CMB}$	8075.1 ± 5.7 $(+1347.2\sigma)$
$\boldsymbol{\beta^1_1}$	-0.04 ± 0.99	r_*	144.47 ± 0.46 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 8084.85$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.75$; $R - 1 = 0.00740$

2.85 base_CamSpecHM_TT_lowl_reion_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02221 \pm 0.00019 \quad (+0.0\sigma)$	Ω_m	$0.3125 \pm 0.0075 \quad (-0.1\sigma)$	$100\theta_D$	$0.16100 \pm 0.00025 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1193 \pm 0.0013 \quad (-0.0\sigma)$	$\Omega_m h^2$	$0.1422 \pm 0.0012 \quad (-0.0\sigma)$	z_{eq}	$3383 \pm 29 \quad (-0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04096 \pm 0.00043 \quad (+0.1\sigma)$	$\Omega_m h^3$	$0.09592 \pm 0.00046 \quad (+0.1\sigma)$	$100\theta_{eq}$	$0.8164 \pm 0.0054 \quad (+0.0\sigma)$
$\boldsymbol{\tau}$	$0.0566^{+0.0063}_{-0.010} \quad (+0.1\sigma)$	σ_8	$0.8103^{+0.0075}_{-0.0090} \quad (-0.0\sigma)$	$r_{drag}/D_V(0.57)$	$0.07154 \pm 0.00042 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.044^{+0.014}_{-0.021} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.4530 \pm 0.0084 \quad (-0.0\sigma)$	$H(0.57)$	$92.92 \pm 0.26 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9668 \pm 0.0042 \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.6059 \pm 0.0082 \quad (-0.0\sigma)$	$D_A(0.57)$	$1389.8 \pm 7.5 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.987 \pm 0.012 \quad (-0.0\sigma)$	$F_{AP}(0.57)$	$0.6763 \pm 0.0019 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$249 \pm 22 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.436 \pm 0.029 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4714 \pm 0.0057 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 7 \quad (-0.6\sigma)$	z_{re}	$7.92^{+0.68}_{-1.0} \quad (+0.1\sigma)$	$\sigma_8(0.57)$	$0.6026^{+0.0047}_{-0.0065} \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$96 \pm 10 \quad (-0.0\sigma)$	$10^9 A_s$	$2.100^{+0.029}_{-0.045} \quad (-0.1\sigma)$	Y_P^{BBN}	$0.246230 \pm 0.000085 \quad (-4.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.875 \pm 0.012 \quad (-0.4\sigma)$	f_{2000}^{143}	$29.8 \pm 2.8 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.07^{+1.3}_{-2.5} \quad (-0.9\sigma)$	D_{40}	$1223 \pm 13 \quad (-0.6\sigma)$	f_{2000}^{217}	$107.1 \pm 1.9 \quad (+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	$5700 \pm 40 \quad (-0.6\sigma)$	$f_{2000}^{143\times217}$	$32.5 \pm 2.0 \quad (-0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.565 \quad (-0.2\sigma)$	D_{810}	$2531 \pm 14 \quad (-0.3\sigma)$	χ^2_{lowl}	$13.15 \pm 0.87 \quad (-0.5\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.47 \quad (+0.7\sigma)$	D_{1420}	$814.4 \pm 5.0 \quad (-0.1\sigma)$	$\chi^2_{CamSpec}$	8061.6 ± 5.7
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.9668 \pm 0.0042 \quad (+0.4\sigma)$	χ^2_{6DF}	$0.081 \pm 0.095 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.19	Y_P	$0.244904 \pm 0.000082 \quad (-4.6\sigma)$	χ^2_{MGS}	$1.20 \pm 0.51 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	Age/Gyr	$13.810 \pm 0.028 \quad (-0.1\sigma)$	$\chi^2_{DR11CMASS}$	$2.99 \pm 0.80 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	$1090.06 \pm 0.30 \quad (-0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.92 \pm 0.67 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00095 \quad (-1.4\sigma)$	r_*	$144.73 \pm 0.32 \quad (+0.0\sigma)$	χ^2_{prior}	$9.98 \pm 4.0 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9974 \pm 0.0018 \quad (+1.0\sigma)$	$100\theta_*$	$1.04117 \pm 0.00042 \quad (+0.1\sigma)$	χ^2_{BAO}	$5.19 \pm 1.2 \quad (-0.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.03 ± 0.98	z_{drag}	$1059.49 \pm 0.44 \quad (-0.0\sigma)$	χ^2_{CMB}	$8074.7 \pm 5.6 \quad (+1347.3\sigma)$
H_0	$67.46 \pm 0.55 \quad (+0.1\sigma)$	r_{drag}	$147.45 \pm 0.35 \quad (+0.0\sigma)$		
Ω_Λ	$0.6875 \pm 0.0075 \quad (+0.1\sigma)$	k_D	$0.14038 \pm 0.00044 \quad (+0.0\sigma)$		

$\bar{\chi}^2_{eff} = 8089.89$; $\Delta\bar{\chi}^2_{eff} = 7282.52$; $R - 1 = 0.01435$

2.86 base_CamSpecHM_TT_lowl_reion_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02223 \pm 0.00019 \quad (+0.0\sigma)$	Ω_m	$0.3107 \pm 0.0072 \quad (-0.1\sigma)$	$100\theta_D$	$0.16098^{+0.00025}_{-0.00028} \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1191 \pm 0.0012 \quad (-0.0\sigma)$	$\Omega_m h^2$	$0.1419 \pm 0.0012 \quad (-0.0\sigma)$	z_{eq}	$3376 \pm 28 \quad (-0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04100 \pm 0.00043 \quad (+0.1\sigma)$	$\Omega_m h^3$	$0.09594 \pm 0.00046 \quad (+0.1\sigma)$	$100\theta_{eq}$	$0.8177 \pm 0.0052 \quad (+0.0\sigma)$
$\boldsymbol{\tau}$	$0.0570^{+0.0064}_{-0.011} \quad (+0.1\sigma)$	σ_8	$0.8096^{+0.0074}_{-0.0092} \quad (-0.0\sigma)$	$r_{drag}/D_V(0.57)$	$0.07165 \pm 0.00040 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.044^{+0.014}_{-0.022} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.4512 \pm 0.0082 \quad (-0.0\sigma)$	$H(0.57)$	$92.98 \pm 0.26 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9675 \pm 0.0042 \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.6044 \pm 0.0081 \quad (-0.0\sigma)$	$D_A(0.57)$	$1387.9 \pm 7.3 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.985 \pm 0.012 \quad (-0.0\sigma)$	$F_{AP}(0.57)$	$0.6758 \pm 0.0018 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$249 \pm 22 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.431 \pm 0.028 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4705 \pm 0.0057 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 7 \quad (-0.6\sigma)$	z_{re}	$7.95^{+0.69}_{-1.0} \quad (+0.1\sigma)$	$\sigma_8(0.57)$	$0.6025^{+0.0047}_{-0.0066} \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$96 \pm 10 \quad (-0.0\sigma)$	$10^9 A_s$	$2.100^{+0.029}_{-0.046} \quad (-0.1\sigma)$	Y_P^{BBN}	$0.246241 \pm 0.000084 \quad (-4.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.873 \pm 0.011 \quad (-0.4\sigma)$	f_{2000}^{143}	$29.7 \pm 2.8 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.08^{+1.3}_{-2.5} \quad (-1.0\sigma)$	D_{40}	$1221 \pm 13 \quad (-0.6\sigma)$	f_{2000}^{217}	$107.0 \pm 1.9 \quad (+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	$5702^{+39}_{-43} \quad (-0.6\sigma)$	$f_{2000}^{143\times217}$	$32.4 \pm 2.0 \quad (-0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.567 \quad (-0.2\sigma)$	D_{810}	$2531 \pm 14 \quad (-0.3\sigma)$	χ^2_{lowl}	$13.03 \pm 0.85 \quad (-0.5\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.46 \quad (+0.7\sigma)$	D_{1420}	$814.7 \pm 5.0 \quad (-0.1\sigma)$	$\chi^2_{CamSpec}$	8061.8 ± 5.7
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.9675 \pm 0.0042 \quad (+0.4\sigma)$	χ^2_{H070p6}	$0.84 \pm 0.29 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.19	Y_P	$0.244914 \pm 0.000081 \quad (-4.6\sigma)$	χ^2_{JLA}	$706.77 \pm 0.21 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	Age/Gyr	$13.805 \pm 0.028 \quad (-0.1\sigma)$	χ^2_{6DF}	$0.061 \pm 0.077 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	$1090.00 \pm 0.29 \quad (-0.1\sigma)$	χ^2_{MGS}	$1.32 \pm 0.51 \quad (+0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00095 \quad (-1.4\sigma)$	r_*	$144.79 \pm 0.31 \quad (+0.0\sigma)$	$\chi^2_{DR11CMASS}$	$2.86 \pm 0.64 \quad (-0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9974 \pm 0.0017 \quad (+1.0\sigma)$	$100\theta_*$	$1.04121 \pm 0.00042 \quad (+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.76 \pm 0.58 \quad (-0.1\sigma)$
$\boldsymbol{\beta_1^1}$	-0.02 ± 0.98	z_{drag}	$1059.53 \pm 0.44 \quad (-0.0\sigma)$	χ^2_{prior}	$10.1 \pm 4.0 \quad (+0.3\sigma)$
H_0	$67.60 \pm 0.54 \quad (+0.1\sigma)$	r_{drag}	$147.50 \pm 0.34 \quad (+0.0\sigma)$	χ^2_{BAO}	$5.00 \pm 0.94 \quad (-0.0\sigma)$
Ω_Λ	$0.6893 \pm 0.0072 \quad (+0.1\sigma)$	k_D	$0.14034 \pm 0.00044 \quad (+0.0\sigma)$	χ^2_{CMB}	$8074.9 \pm 5.6 \quad (+1336.7\sigma)$

$\bar{\chi}^2_{eff} = 8797.52$; $\Delta\bar{\chi}^2_{eff} = 7282.49$; $R - 1 = 0.01620$

2.87 base_CamSpecHM_TTTEEE_lowl_reion

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02229 \pm 0.00015 \quad (+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04096 \pm 0.00029 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1198 \pm 0.0014 \quad (-0.6\sigma)$	H_0	$67.30 \pm 0.60 \quad (+0.6\sigma)$	$z_{\rm drag}$	$1059.71 \pm 0.31 \quad (+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04076 \pm 0.00030 \quad (+0.2\sigma)$	Ω_Λ	$0.6847 \pm 0.0083 \quad (+0.6\sigma)$	$r_{\rm drag}$	$147.24 \pm 0.30 \quad (+0.3\sigma)$
$\boldsymbol{\tau}$	$0.0561^{+0.0057}_{-0.010} \quad (-0.0\sigma)$	$\Omega_{\rm m}$	$0.3153 \pm 0.0083 \quad (-0.6\sigma)$	$k_{\rm D}$	$0.14067 \pm 0.00033 \quad (+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.045^{+0.014}_{-0.020} \quad (-0.3\sigma)$	$\Omega_{\rm m} h^2$	$0.1427 \pm 0.0013 \quad (-0.5\sigma)$	$100\theta_{\rm D}$	$0.16084 \pm 0.00018 \quad (-0.7\sigma)$
$\boldsymbol{n_s}$	$0.9655 \pm 0.0044 \quad (+0.8\sigma)$	$\Omega_{\rm m} h^3$	$0.09606 \pm 0.00030 \quad (+0.3\sigma)$	$z_{\rm eq}$	$3396 \pm 31 \quad (-0.5\sigma)$
$\boldsymbol{y_{cal}}$	$1.0004 \pm 0.0025 \quad (-0.1\sigma)$	σ_8	$0.8112^{+0.0073}_{-0.0082} \quad (-0.5\sigma)$	$100\theta_{\rm eq}$	$0.8142 \pm 0.0058 \quad (+0.6\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4554 \pm 0.0088 \quad (-0.6\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07137 \pm 0.00045 \quad (+0.6\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 7 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6078 \pm 0.0083 \quad (-0.6\sigma)$	$H(0.57)$	$92.89 \pm 0.26 \quad (+0.7\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.989 \pm 0.012 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1391.7 \pm 8.0 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.444 \pm 0.028 \quad (-0.8\sigma)$	$F_{\rm AP}(0.57)$	$0.6770 \pm 0.0021 \quad (-0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.20^{+1.4}_{-2.6} \quad (-1.1\sigma)$	$z_{\rm re}$	$7.86^{+0.61}_{-1.0} \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4725 \pm 0.0057 \quad (-0.6\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	$10^9 A_{\rm s}$	$2.101^{+0.028}_{-0.042} \quad (-0.3\sigma)$	$\sigma_8(0.57)$	$0.6025^{+0.0044}_{-0.0059} \quad (-0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.591 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.878 \pm 0.012 \quad (-0.8\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246266 \pm 0.000067 \quad (-5.3\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.52^{+4.1}_{-1.8} \quad (+0.8\sigma)$	D_{40}	$1227 \pm 13 \quad (-1.0\sigma)$	f_{2000}^{143}	$29.3 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5713 \pm 39 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.7 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	$2533 \pm 13 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$32.0 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	$815.0 \pm 4.8 \quad (-0.0\sigma)$	$\chi^2_{\rm lowl}$	$13.45 \pm 0.92 \quad (-0.9\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$n_{\rm s,0.002}$	$0.9655 \pm 0.0044 \quad (+0.8\sigma)$	$\chi^2_{\rm CamSpec}$	12954.2 ± 5.9
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00096 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.244937^{+0.000062}_{-0.000070} \quad (-5.3\sigma)$	$\chi^2_{\rm prior}$	$10.4 \pm 4.0 \quad (-1.8\sigma)$
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.810 \pm 0.024 \quad (-0.7\sigma)$	$\chi^2_{\rm CMB}$	$12967.6 \pm 5.9 \quad (+1596.1\sigma)$
$\boldsymbol{c_{TE}}$	1.0056 ± 0.0044	z_*	$1089.99 \pm 0.28 \quad (-0.8\sigma)$		
$\boldsymbol{c_{EE}}$	1.0015 ± 0.0042	r_*	$144.55 \pm 0.30 \quad (+0.4\sigma)$		

$\bar{\chi}^2_{\rm eff} = 12978.04$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.65$; $R - 1 = 0.00610$

2.88 base_CamSpecHM_TTTEEE_lowl_reion_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00014 $(+0.6\sigma)$	H_0	67.53 ± 0.45 $(+0.5\sigma)$	$r_{\rm drag}$	147.34 ± 0.25 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1193 ± 0.0010 (-0.4σ)	Ω_Λ	0.6881 ± 0.0062 $(+0.4\sigma)$	$k_{\rm D}$	0.14058 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04081 ± 0.00028 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3119 ± 0.0062 (-0.4σ)	$100\theta_{\rm D}$	0.16082 ± 0.00018 (-0.7σ)
$\boldsymbol{\tau}$	$0.0567^{+0.0060}_{-0.010}$ (-0.1σ)	$\Omega_{\rm m}h^2$	0.14224 ± 0.00097 (-0.3σ)	$z_{\rm eq}$	3384 ± 23 (-0.3σ)
$\boldsymbol{\ln(10^{10}A_s)}$	$3.045^{+0.014}_{-0.020}$ (-0.3σ)	$\Omega_{\rm m}h^3$	0.09606 ± 0.00030 $(+0.3\sigma)$	$100\theta_{\rm eq}$	0.8164 ± 0.0044 $(+0.4\sigma)$
$\boldsymbol{n_s}$	0.9667 ± 0.0039 $(+0.7\sigma)$	σ_8	$0.8097^{+0.0068}_{-0.0083}$ (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07155 ± 0.00034 $(+0.4\sigma)$
$\boldsymbol{y_{cal}}$	1.0005 ± 0.0025 (-0.1σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4522 ± 0.0071 (-0.5σ)	$H(0.57)$	92.98 ± 0.21 $(+0.5\sigma)$
$\boldsymbol{A^{PS}_{100}}$	247 ± 22 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6051 ± 0.0071 (-0.5σ)	$D_{\rm A}(0.57)$	1388.6 ± 6.1 (-0.5σ)
$\boldsymbol{A^{PS}_{143}}$	39 ± 7 (-0.7σ)	$\sigma_8/h^{0.5}$	$0.985^{+0.010}_{-0.011}$ (-0.5σ)	$F_{\rm AP}(0.57)$	0.6761 ± 0.0016 (-0.4σ)
$\boldsymbol{A^{PS}_{217}}$	97 ± 10 $(+0.0\sigma)$	$\langle d^2\rangle^{1/2}$	2.436 ± 0.025 (-0.7σ)	$f\sigma_8(0.57)$	$0.4709^{+0.0049}_{-0.0055}$ (-0.5σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.8σ)	$z_{\rm re}$	$7.90^{+0.65}_{-1.0}$ (-0.1σ)	$\sigma_8(0.57)$	$0.6022^{+0.0045}_{-0.0061}$ (-0.3σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.23^{+1.4}_{-2.5}$ (-1.1σ)	$10^9A_{\rm s}$	$2.101^{+0.029}_{-0.042}$ (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.246281 ± 0.000061 (-6.1σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.876 ± 0.011 (-0.7σ)	f^{143}_{2000}	29.2 ± 2.6 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.594 (-0.2σ)	D_{40}	1225 ± 12 (-0.9σ)	f^{217}_{2000}	106.6 ± 1.8 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.51^{+4.0}_{-1.9}$ $(+0.8\sigma)$	D_{220}	5716 ± 38 (-0.5σ)	$f^{143\times217}_{2000}$	31.9 ± 1.9 (-0.5σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	2533 ± 14 (-0.4σ)	$\chi^2_{\rm lowl}$	13.22 ± 0.81 (-0.8σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	D_{1420}	815.3 ± 4.8 (-0.1σ)	$\chi^2_{\rm CamSpec}$	12954.0 ± 5.9
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9667 ± 0.0039 $(+0.7\sigma)$	$\chi^2_{\rm 6DF}$	0.066 ± 0.073 (-0.3σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	$Y_{\rm P}$	$0.244952^{+0.000057}_{-0.000066}$ (-6.1σ)	$\chi^2_{\rm MGS}$	1.19 ± 0.42 $(+0.4\sigma)$
$\boldsymbol{c_{100}}$	0.99680 ± 0.00095 (-1.8σ)	Age/Gyr	13.802 ± 0.020 (-0.5σ)	$\chi^2_{\rm DR11CMASS}$	2.86 ± 0.59 (-0.3σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.7\sigma)$	z_*	1089.90 ± 0.23 (-0.7σ)	$\chi^2_{\rm DR11LOWZ}$	0.86 ± 0.53 (-0.4σ)
$\boldsymbol{c_{TE}}$	1.0057 ± 0.0043	r_*	144.66 ± 0.24 $(+0.2\sigma)$	$\chi^2_{\rm prior}$	10.5 ± 4.0 (-1.8σ)
$\boldsymbol{c_{EE}}$	1.0017 ± 0.0042	$100\theta_*$	1.04101 ± 0.00028 $(+0.1\sigma)$	$\chi^2_{\rm BAO}$	4.98 ± 0.85 (-0.3σ)
$\boldsymbol{\beta^1_1}$	-0.07 ± 0.99	$z_{\rm drag}$	1059.76 ± 0.30 $(+0.5\sigma)$	$\chi^2_{\rm CMB}$	12967.2 ± 5.8 $(+1593.7\sigma)$

$\bar{\chi}^2_{\rm eff} = 12982.71$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.91$; $R-1 = 0.01020$

2.89 base_CamSpecHM_TTTEEE_lowl_reion_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02234 ± 0.00014 $(+0.6\sigma)$	Ω_Λ	0.6893 ± 0.0060 $(+0.4\sigma)$	$100\theta_{\rm D}$	0.16080 ± 0.00018 (-0.7σ)
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0010 (-0.4σ)	$\Omega_{\rm m}$	0.3107 ± 0.0060 (-0.4σ)	$z_{\rm eq}$	3379 ± 23 (-0.3σ)
$\boldsymbol{100\theta_{MC}}$	1.04084 ± 0.00028 $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.14206 ± 0.00095 (-0.3σ)	$100\theta_{\rm eq}$	0.8173 ± 0.0043 $(+0.4\sigma)$
$\boldsymbol{\tau}$	$0.0570^{+0.0061}_{-0.010}$ (-0.1σ)	$\Omega_{\rm m} h^3$	0.09607 ± 0.00030 $(+0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07161 ± 0.00033 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.045^{+0.014}_{-0.020}$ (-0.3σ)	σ_8	$0.8092^{+0.0069}_{-0.0083}$ (-0.4σ)	$H(0.57)$	93.02 ± 0.20 $(+0.5\sigma)$
$\boldsymbol{n_s}$	0.9672 ± 0.0038 $(+0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4510 ± 0.0069 (-0.5σ)	$D_{\rm A}(0.57)$	1387.3 ± 6.0 (-0.5σ)
$\boldsymbol{y_{cal}}$	1.0005 ± 0.0025 (-0.1σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6041^{+0.0068}_{-0.0076}$ (-0.5σ)	$F_{\rm AP}(0.57)$	0.6758 ± 0.0015 (-0.4σ)
$\boldsymbol{A^{PS}_{100}}$	247 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	$0.984^{+0.010}_{-0.011}$ (-0.5σ)	$f\sigma_8(0.57)$	$0.4703^{+0.0048}_{-0.0054}$ (-0.5σ)
$\boldsymbol{A^{PS}_{143}}$	39 ± 7 (-0.7σ)	$\langle d^2 \rangle^{1/2}$	2.433 ± 0.025 (-0.6σ)	$\sigma_8(0.57)$	$0.6022^{+0.0046}_{-0.0061}$ (-0.3σ)
$\boldsymbol{A^{PS}_{217}}$	98 ± 10 $(+0.0\sigma)$	$z_{\rm re}$	$7.92^{+0.66}_{-1.0}$ (-0.1σ)	$Y_{\rm P}^{\rm BBN}$	0.246289 ± 0.000061 (-6.2σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.8σ)	$10^9 A_{\rm s}$	$2.101^{+0.030}_{-0.043}$ (-0.3σ)	f^{143}_{2000}	29.1 ± 2.6 (-0.5σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.24^{+1.4}_{-2.5}$ (-1.1σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.875 ± 0.011 (-0.7σ)	f^{217}_{2000}	106.5 ± 1.8 $(+0.1\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	1224 ± 12 (-0.9σ)	$f^{143\times217}_{2000}$	31.8 ± 1.9 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.595 (-0.2σ)	D_{220}	5717 ± 38 (-0.5σ)	$\chi^2_{\rm lowl}$	13.13 ± 0.80 (-0.8σ)
$\boldsymbol{A^{kSZ}}$	$5.49^{+4.0}_{-1.9}$ $(+0.8\sigma)$	D_{810}	2533 ± 14 (-0.4σ)	$\chi^2_{\rm CamSpec}$	12954.1 ± 5.9
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{1420}	815.5 ± 4.8 (-0.1σ)	$\chi^2_{\rm H070p6}$	0.82 ± 0.23 (-0.4σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	0.9672 ± 0.0038 $(+0.7\sigma)$	$\chi^2_{\rm JLA}$	706.75 ± 0.17 (-0.4σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.244959^{+0.000057}_{-0.000066}$ (-6.3σ)	$\chi^2_{\rm 6DF}$	0.053 ± 0.062 (-0.3σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	Age/Gyr	13.799 ± 0.020 (-0.5σ)	$\chi^2_{\rm MGS}$	1.28 ± 0.42 $(+0.4\sigma)$
$\boldsymbol{c_{100}}$	0.99680 ± 0.00095 (-1.8σ)	z_*	1089.86 ± 0.22 (-0.7σ)	$\chi^2_{\rm DR11CMASS}$	2.77 ± 0.49 (-0.3σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	r_*	144.70 ± 0.24 $(+0.2\sigma)$	$\chi^2_{\rm DR11LOWZ}$	0.76 ± 0.49 (-0.4σ)
$\boldsymbol{c_{TE}}$	1.0057 ± 0.0043	$100\theta_*$	1.04103 ± 0.00028 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	10.6 ± 4.0 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0017 ± 0.0042	$z_{\rm drag}$	1059.78 ± 0.30 $(+0.5\sigma)$	$\chi^2_{\rm BAO}$	4.86 ± 0.71 (-0.2σ)
$\boldsymbol{\beta^1_1}$	-0.07 ± 0.99	$r_{\rm drag}$	147.37 ± 0.25 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	12967.3 ± 5.8 $(+1589.4\sigma)$
H_0	67.63 ± 0.44 $(+0.4\sigma)$	$k_{\rm D}$	0.14056 ± 0.00030 $(+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 13690.27$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.71$; $R - 1 = 0.01119$

2.90 base_plikHM_TE

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022204	0.02237 ± 0.00029	σ_8	0.7798	$0.834^{+0.031}_{-0.065}$	r_*	144.805	144.91 ± 0.49
$\boldsymbol{\Omega_c h^2}$	0.11905	0.1182 ± 0.0022	$\sigma_8\Omega_m^{0.5}$	0.4348	$0.461^{+0.021}_{-0.032}$	$100\theta_*$	1.04112	1.04118 ± 0.00051
$\boldsymbol{100\theta_{MC}}$	1.04092	1.04100 ± 0.00051	$\sigma_8\Omega_m^{0.25}$	0.5823	$0.620^{+0.025}_{-0.045}$	D_A/Gpc	13.9086	13.917 ± 0.046
$\boldsymbol{\tau}$	0.026	< 0.111	$\sigma_8/h^{0.5}$	0.949	$1.011^{+0.039}_{-0.075}$	z_{drag}	1059.47	1059.80 ± 0.61
$\boldsymbol{\ln(10^{10} A_s)}$	2.975	$3.108^{+0.073}_{-0.16}$	$\langle d^2\rangle^{1/2}$	2.364	$2.497^{+0.091}_{-0.16}$	r_{drag}	147.530	147.58 ± 0.50
$\boldsymbol{n_s}$	0.9600	$0.971^{+0.013}_{-0.016}$	z_{re}	4.45	$10.4^{+4.2}_{-6.2}$	k_D	0.14028	0.14035 ± 0.00058
$\boldsymbol{A_{100}^{dustTE}}$	0.1394	0.136 ± 0.038	$10^9 A_s$	1.959	$2.25^{+0.15}_{-0.36}$	$100\theta_D$	0.161018	0.16084 ± 0.00036
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1341	0.133 ± 0.030	$10^9 A_s e^{-2\tau}$	1.8609	1.870 ± 0.021	z_{eq}	3375.5	3359 ± 49
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.304	0.303 ± 0.085	D_{40}	1224.9	1236^{+28}_{-36}	k_{eq}	0.010302	0.01025 ± 0.00015
$\boldsymbol{A_{143}^{dustTE}}$	0.153	0.153 ± 0.054	D_{220}	5701	5713 ± 60	$100\theta_{eq}$	0.8176	0.8213 ± 0.0095
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.334	0.337 ± 0.081	D_{810}	2510.6	2529 ± 31	$100\theta_{s,eq}$	0.45177	0.4536 ± 0.0049
$\boldsymbol{A_{217}^{dustTE}}$	1.650	1.66 ± 0.26	D_{1420}	805.2	815 ± 14	$r_{drag}/D_V(0.57)$	0.07162	0.07194 ± 0.00076
$\boldsymbol{c_{100}}$	0.99924	0.99924 ± 0.00099	D_{2000}	226.1	$230.9^{+5.5}_{-6.7}$	$H(0.57)$	92.939	93.18 ± 0.46
$\boldsymbol{y_{cal}}$	1.00000	1.0000 ± 0.0025	$n_{s,0.002}$	0.9600	$0.971^{+0.013}_{-0.016}$	$D_A(0.57)$	1388.7	1382 ± 14
H_0	67.55	68.0 ± 1.0	Y_P	0.245319	0.24539 ± 0.00013	$F_{AP}(0.57)$	0.67589	0.6745 ± 0.0034
Ω_Λ	0.6890	$0.695^{+0.014}_{-0.013}$	Y_P^{BBN}	0.246645	0.24672 ± 0.00013	$f\sigma_8(0.57)$	0.4532	$0.483^{+0.019}_{-0.036}$
Ω_m	0.3110	$0.305^{+0.013}_{-0.014}$	10^5D/H	2.623	2.593 ± 0.055	$\sigma_8(0.57)$	0.5802	$0.622^{+0.023}_{-0.050}$
$\Omega_m h^2$	0.14190	0.1412 ± 0.0021	Age/Gyr	13.8103	13.787 ± 0.044	χ^2_{plikTE}	931.21	938.9 ± 4.1
$\Omega_m h^3$	0.09585	0.09604 ± 0.00055	z_*	1090.049	1089.77 ± 0.49	χ^2_{prior}	1.89	7.85 ± 3.7

Best-fit $\chi^2_{eff} = 933.10$; $\bar{\chi}^2_{eff} = 946.77$; $R - 1 = 0.00574$
χ^2_{eff}: CMB - plik_dx11dr2_HM_v18_TE: 931.21

2.91 base_plikHM_TE_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022249	0.02234 ± 0.00025	$\sigma_8\Omega_m^{0.25}$	0.5893	$0.618^{+0.022}_{-0.045}$	$r_{\rm drag}$	147.546	147.53 ± 0.38
$\boldsymbol{\Omega_c h^2}$	0.11880	0.1185 ± 0.0013	$\sigma_8/h^{0.5}$	0.961	$1.008^{+0.035}_{-0.073}$	$k_{\rm D}$	0.14030	0.14037 ± 0.00053
$\boldsymbol{100\theta_{MC}}$	1.040974	1.04097 ± 0.00047	$\langle d^2\rangle^{1/2}$	2.389	$2.490^{+0.080}_{-0.16}$	$100\theta_{\rm D}$	0.160972	0.16086 ± 0.00034
$\boldsymbol{\tau}$	0.0391	< 0.104	$z_{\rm re}$	6.06	$10.0^{+3.9}_{-5.9}$	$z_{\rm eq}$	3370.7	3365 ± 30
$\boldsymbol{\ln(10^{10} A_s)}$	3.003	$3.097^{+0.068}_{-0.15}$	$10^9 A_{\rm s}$	2.014	$2.23^{+0.13}_{-0.33}$	$k_{\rm eq}$	0.010288	0.010270 ± 0.000090
$\boldsymbol{n_s}$	0.9622	$0.969^{+0.012}_{-0.013}$	$10^9 A_{\rm s} e^{-2\tau}$	1.8622	1.871 ± 0.020	$100\theta_{\rm eq}$	0.8187	0.8200 ± 0.0055
$\boldsymbol{A_{100}^{dustTE}}$	0.1372	0.138 ± 0.038	D_{40}	1223.5	1235^{+26}_{-34}	$100\theta_{\rm s,eq}$	0.45228	0.4529 ± 0.0028
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1345	0.133 ± 0.029	D_{220}	5704	5710 ± 60	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071716	0.07184 ± 0.00043
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.303	0.304 ± 0.084	D_{810}	2514.0	2528 ± 30	$H(0.57)$	93.011	93.12 ± 0.30
$\boldsymbol{A_{143}^{dustTE}}$	0.156	0.153 ± 0.054	D_{1420}	807.1	814 ± 14	$D_{\rm A}(0.57)$	1386.7	1384.0 ± 8.1
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.333	0.336 ± 0.081	D_{2000}	227.0	$230.4^{+5.4}_{-6.2}$	$F_{\rm AP}(0.57)$	0.67545	0.6749 ± 0.0019
$\boldsymbol{A_{217}^{dustTE}}$	1.646	1.66 ± 0.26	$n_{\rm s,0.002}$	0.9622	$0.969^{+0.012}_{-0.013}$	$f\sigma_8(0.57)$	0.4589	$0.482^{+0.017}_{-0.035}$
$\boldsymbol{c_{100}}$	0.99924	0.9992 ± 0.0010	$Y_{\rm P}$	0.245340	0.24538 ± 0.00011	$\sigma_8(0.57)$	0.5884	$0.619^{+0.021}_{-0.047}$
$\boldsymbol{y_{cal}}$	1.00002	0.99999 ± 0.0025	$Y_{\rm P}^{\rm BBN}$	0.246666	0.24670 ± 0.00011	$\chi^2_{\rm plikTE}$	931.30	938.3 ± 3.9
H_0	67.69	67.89 ± 0.59	10^5D/H	2.6142	2.598 ± 0.048	$\chi^2_{\rm 6DF}$	0.0154	0.045 ± 0.063
Ω_Λ	0.6908	0.6930 ± 0.0076	Age/Gyr	13.8031	13.792 ± 0.033	$\chi^2_{\rm MGS}$	1.34	1.58 ± 0.58
$\Omega_{\rm m}$	0.3092	0.3070 ± 0.0076	z_*	1089.967	1089.83 ± 0.36	$\chi^2_{\rm DR11CMASS}$	2.417	2.86 ± 0.65
$\Omega_{\rm m}h^2$	0.14170	0.1415 ± 0.0012	r_*	144.834	144.85 ± 0.34	$\chi^2_{\rm DR11LOWZ}$	0.541	0.54 ± 0.51
$\Omega_{\rm m}h^3$	0.09592	0.09603 ± 0.00054	$100\theta_*$	1.041170	1.04116 ± 0.00047	$\chi^2_{\rm prior}$	1.81	7.86 ± 3.7
σ_8	0.7903	$0.830^{+0.028}_{-0.062}$	$D_{\rm A}$/Gpc	13.9107	13.913 ± 0.033	$\chi^2_{\rm BAO}$	4.32	5.02 ± 0.97
$\sigma_8\Omega_{\rm m}^{0.5}$	0.4394	$0.460^{+0.017}_{-0.033}$	$z_{\rm drag}$	1059.55	1059.75 ± 0.57			

Best-fit $\chi^2_{\rm eff} = 937.43$; $\bar{\chi}^2_{\rm eff} = 951.18$; $R - 1 = 0.00975$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.42 DR11LOWZ: 0.54 CMB - plik_dx11dr2_HM_v18_TE: 931.30

2.92 base_plikHM_TE_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022280	0.02237 ± 0.00025	$\sigma_8/h^{0.5}$	0.965	$1.009^{+0.036}_{-0.076}$	$100\theta_{\rm D}$	0.160945	0.16084 ± 0.00034
$\boldsymbol{\Omega_c h^2}$	0.11834	0.1182 ± 0.0012	$\langle d^2\rangle^{1/2}$	2.399	$2.492^{+0.083}_{-0.16}$	$z_{\rm eq}$	3360.5	3360 ± 29
$\boldsymbol{100\theta_{\rm MC}}$	1.040981	1.04101 ± 0.00047	$z_{\rm re}$	6.92	$10.3^{+4.1}_{-5.9}$	$k_{\rm eq}$	0.010256	0.010254 ± 0.000088
$\boldsymbol{\tau}$	0.0471	< 0.108	$10^9 A_{\rm s}$	2.044	$2.24^{+0.14}_{-0.34}$	$100\theta_{\rm eq}$	0.8206	0.8211 ± 0.0054
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.018	$3.103^{+0.071}_{-0.15}$	$10^9 A_{\rm s} e^{-2\tau}$	1.8606	1.870 ± 0.021	$100\theta_{\rm s,eq}$	0.45327	0.4534 ± 0.0028
$\boldsymbol{n_{\rm s}}$	0.9638	$0.970^{+0.012}_{-0.013}$	D_{40}	1221.8	1235^{+26}_{-36}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071863	0.07192 ± 0.00041
$\boldsymbol{A^{{\rm dust}TE}_{100}}$	0.1373	0.138 ± 0.038	D_{220}	5704	5712 ± 60	$H(0.57)$	93.084	93.17 ± 0.29
$\boldsymbol{A^{{\rm dust}TE}_{100\times143}}$	0.1338	0.133 ± 0.029	D_{810}	2513.8	2529 ± 30	$D_{\rm A}(0.57)$	1384.2	1382.3 ± 7.8
$\boldsymbol{A^{{\rm dust}TE}_{100\times217}}$	0.304	0.304 ± 0.084	D_{1420}	807.5	815 ± 14	$F_{\rm AP}(0.57)$	0.67477	0.6745 ± 0.0019
$\boldsymbol{A^{{\rm dust}TE}_{143}}$	0.155	0.152 ± 0.054	D_{2000}	227.3	$230.8^{+5.4}_{-6.3}$	$f\sigma_8(0.57)$	0.4610	$0.482^{+0.017}_{-0.036}$
$\boldsymbol{A^{{\rm dust}TE}_{143\times217}}$	0.332	0.336 ± 0.081	$n_{\rm s,0.002}$	0.9638	$0.970^{+0.012}_{-0.013}$	$\sigma_8(0.57)$	0.5926	$0.621^{+0.022}_{-0.048}$
$\boldsymbol{A^{{\rm dust}TE}_{217}}$	1.649	1.66 ± 0.26	$Y_{\rm P}$	0.245353	$0.24539^{+0.00012}_{-0.00011}$	$\chi^2_{\rm plikTE}$	931.33	938.3 ± 3.9
$\boldsymbol{c_{100}}$	0.99927	0.9992 ± 0.0010	$Y_{\rm P}^{\rm BBN}$	0.246680	$0.24672^{+0.00012}_{-0.00011}$	$\chi^2_{\rm H070p6}$	0.670	0.64 ± 0.26
$\boldsymbol{y_{\rm cal}}$	0.99987	1.0000 ± 0.0025	10^5D/H	2.6083	2.592 ± 0.047	$\chi^2_{\rm JLA}$	706.625	706.65 ± 0.15
H_0	67.88	68.01 ± 0.57	Age/Gyr	13.7978	13.787 ± 0.032	$\chi^2_{\rm 6DF}$	0.0029	0.039 ± 0.055
Ω_Λ	0.6934	0.6945 ± 0.0073	z_*	1089.887	1089.77 ± 0.36	$\chi^2_{\rm MGS}$	1.54	1.69 ± 0.58
$\Omega_{\rm m}$	0.3066	0.3055 ± 0.0073	r_*	144.930	144.89 ± 0.34	$\chi^2_{\rm DR11CMASS}$	2.415	2.87 ± 0.65
$\Omega_{\rm m}h^2$	0.14127	0.1412 ± 0.0012	$100\theta_*$	1.041172	1.04119 ± 0.00047	$\chi^2_{\rm DR11LOWZ}$	0.370	0.44 ± 0.44
$\Omega_{\rm m}h^3$	0.09590	0.09605 ± 0.00054	$D_{\rm A}$/Gpc	13.9199	13.916 ± 0.033	$\chi^2_{\rm prior}$	1.84	7.89 ± 3.7
σ_8	0.7950	$0.832^{+0.029}_{-0.064}$	$z_{\rm drag}$	1059.59	1059.80 ± 0.57	$\chi^2_{\rm BAO}$	4.33	5.04 ± 0.98
$\sigma_8\Omega_{\rm m}^{0.5}$	0.4402	$0.460^{+0.018}_{-0.034}$	$r_{\rm drag}$	147.633	147.57 ± 0.38			
$\sigma_8\Omega_{\rm m}^{0.25}$	0.5916	$0.619^{+0.023}_{-0.046}$	$k_{\rm D}$	0.14023	0.14036 ± 0.00053			

Best-fit $\chi^2_{\rm eff} = 1644.79$; $\bar{\chi}^2_{\rm eff} = 1658.51$; $R - 1 = 0.01010$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.42 DR11LOWZ: 0.37 CMB - plik_dx11dr2_HM_v18_TE: 931.33 Hubble - H070p6: 0.67 SN - JLA December_2013: 706.62

2.93 base_plikHM_EE

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02443	0.0244 ± 0.0013	$\sigma_8\Omega_m^{0.5}$	0.4871	0.472 ± 0.040	$100\theta_*$	1.03987	1.03984 ± 0.00091
$\boldsymbol{\Omega_c h^2}$	0.11259	0.1132 ± 0.0048	$\sigma_8\Omega_m^{0.25}$	0.6759	$0.652^{+0.050}_{-0.041}$	D_A/Gpc	13.923	13.907 ± 0.065
$\boldsymbol{100\theta_{MC}}$	1.03989	1.03987 ± 0.00095	$\sigma_8/h^{0.5}$	1.110	$1.069^{+0.082}_{-0.061}$	z_{drag}	1064.01	1064.1 ± 2.6
$\boldsymbol{\tau}$	0.232	$0.190^{+0.082}_{-0.043}$	$\langle d^2\rangle^{1/2}$	2.802	$2.70^{+0.20}_{-0.14}$	r_{drag}	146.81	146.64 ± 0.78
$\boldsymbol{\ln(10^{10}A_s)}$	3.414	$3.33^{+0.17}_{-0.091}$	z_{re}	19.89	$17.0^{+5.2}_{-2.1}$	k_D	0.14254	0.1427 ± 0.0014
$\boldsymbol{n_s}$	0.9812	0.980 ± 0.017	$10^9 A_s$	3.039	$2.82^{+0.44}_{-0.30}$	$100\theta_D$	0.15829	$0.1583^{+0.0012}_{-0.0014}$
$\boldsymbol{A_{100}^{dustEE}}$	0.0775	0.0777 ± 0.0066	$10^9 A_s e^{-2\tau}$	1.9089	1.912 ± 0.026	z_{eq}	3274	3289^{+86}_{-97}
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0442	0.0446 ± 0.0063	D_{40}	1385	1351^{+69}_{-80}	k_{eq}	0.009993	$0.01004^{+0.00026}_{-0.00030}$
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0969	0.099 ± 0.033	D_{220}	6112	6112 ± 210	$100\theta_{eq}$	0.8420	0.840 ± 0.020
$\boldsymbol{A_{143}^{dustEE}}$	0.0958	0.0955 ± 0.0080	D_{810}	2591.4	2595 ± 40	$100\theta_{s,eq}$	0.4627	0.4615 ± 0.0098
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2176	0.223 ± 0.047	D_{1420}	840.8	842 ± 19	$r_{drag}/D_V(0.57)$	0.07375	0.0736 ± 0.0019
$\boldsymbol{A_{217}^{dustEE}}$	0.634	0.64 ± 0.13	D_{2000}	244.5	243.8 ± 7.8	$H(0.57)$	95.15	$95.2^{+1.6}_{-1.9}$
$\boldsymbol{y_{cal}}$	0.99983	1.0001 ± 0.0025	$n_{s,0.002}$	0.9812	0.980 ± 0.017	$D_A(0.57)$	1334.8	1337 ± 39
H_0	71.42	71.3 ± 2.9	Y_P	0.24625	0.24624 ± 0.00052	$F_{AP}(0.57)$	0.6651	$0.6661^{+0.0074}_{-0.0087}$
Ω_Λ	0.7301	$0.726^{+0.034}_{-0.026}$	Y_P^{BBN}	0.24758	0.24757 ± 0.00052	$f\sigma_8(0.57)$	0.5314	$0.512^{+0.039}_{-0.029}$
Ω_m	0.2699	$0.274^{+0.026}_{-0.034}$	10^5D/H	2.250	$2.26^{+0.18}_{-0.22}$	$\sigma_8(0.57)$	0.7099	$0.682^{+0.053}_{-0.031}$
$\Omega_m h^2$	0.13766	$0.1383^{+0.0036}_{-0.0041}$	Age/Gyr	13.587	13.59 ± 0.16	χ^2_{plikEE}	747.57	756.3 ± 4.4
$\Omega_m h^3$	0.09832	$0.0984^{+0.0019}_{-0.0021}$	z_*	1086.93	$1087.0^{+1.6}_{-1.9}$	χ^2_{prior}	3.00	7.37 ± 3.4
σ_8	0.938	$0.902^{+0.069}_{-0.042}$	r_*	144.78	144.61 ± 0.69			

Best-fit $\chi^2_{eff} = 750.57$; $\bar{\chi}^2_{eff} = 763.68$; $R - 1 = 0.00703$
χ^2_{eff}: CMB - plik_dx11dr2_HM_v18_EE: 747.57

2.94 base_plikHM_EE_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02333	0.02336 ± 0.00068	$\sigma_8/h^{0.5}$	1.138	$1.094^{+0.084}_{-0.059}$	k_D	0.14201	0.1420 ± 0.0012
$\boldsymbol{\Omega_c h^2}$	0.11757	0.1176 ± 0.0015	$\langle d^2\rangle^{1/2}$	2.846	$2.74^{+0.21}_{-0.15}$	$100\theta_D$	0.15934	$0.15934^{+0.00081}_{-0.00095}$
$\boldsymbol{100\theta_{MC}}$	1.03944	1.03946 ± 0.00087	z_{re}	19.44	$16.5^{+5.6}_{-2.8}$	z_{eq}	3367.0	3368 ± 36
$\boldsymbol{\tau}$	0.212	$0.172^{+0.079}_{-0.048}$	$10^9 A_s$	2.923	$2.72^{+0.40}_{-0.31}$	k_{eq}	0.010277	0.01028 ± 0.00011
$\boldsymbol{\ln(10^{10} A_s)}$	3.375	$3.29^{+0.16}_{-0.10}$	$10^9 A_s e^{-2\tau}$	1.9117	1.911 ± 0.026	$100\theta_{eq}$	0.8212	$0.8211^{+0.0061}_{-0.0068}$
$\boldsymbol{n_s}$	0.9685	0.968 ± 0.011	D_{40}	1373	1343^{+63}_{-80}	$100\theta_{s,eq}$	0.45272	0.4527 ± 0.0033
$\boldsymbol{A_{100}^{dustEE}}$	0.0768	0.0776 ± 0.0064	D_{220}	5966	5965 ± 150	$r_{drag}/D_V(0.57)$	0.07188	$0.07189^{+0.00046}_{-0.00056}$
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0437	$0.0445^{+0.0065}_{-0.0058}$	D_{810}	2572.1	2574 ± 35	$H(0.57)$	93.59	93.62 ± 0.59
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0975	0.097 ± 0.033	D_{1420}	828.4	830 ± 15	$D_A(0.57)$	1374.1	1374 ± 13
$\boldsymbol{A_{143}^{dustEE}}$	0.0950	$0.0954^{+0.0073}_{-0.0085}$	D_{2000}	239.2	$238.6^{+5.5}_{-6.2}$	$F_{AP}(0.57)$	0.67347	0.6735 ± 0.0024
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2202	0.220 ± 0.046	$n_{s,0.002}$	0.9685	0.968 ± 0.011	$f\sigma_8(0.57)$	0.5447	$0.524^{+0.040}_{-0.028}$
$\boldsymbol{A_{217}^{dustEE}}$	0.638	0.64 ± 0.13	Y_P	0.245807	$0.24581^{+0.00031}_{-0.00027}$	$\sigma_8(0.57)$	0.7036	$0.677^{+0.053}_{-0.036}$
$\boldsymbol{y_{cal}}$	1.00005	1.0000 ± 0.0025	Y_P^{BBN}	0.247135	$0.24714^{+0.00031}_{-0.00028}$	χ^2_{plikEE}	748.81	756.3 ± 4.2
H_0	68.52	68.55 ± 0.87	10^5D/H	2.421	$2.42^{+0.10}_{-0.13}$	χ^2_{6DF}	0.0000	0.058 ± 0.083
Ω_Λ	0.6985	0.6985 ± 0.0094	Age/Gyr	13.734	13.731 ± 0.072	χ^2_{MGS}	1.68	1.78 ± 0.72
Ω_m	0.3015	0.3015 ± 0.0094	z_*	1088.55	$1088.54^{+0.79}_{-0.90}$	$\chi^2_{DR11CMASS}$	2.56	3.17 ± 0.93
$\Omega_m h^2$	0.14154	0.1416 ± 0.0015	r_*	144.32	144.30 ± 0.56	$\chi^2_{DR11LOWZ}$	0.301	0.48 ± 0.53
$\Omega_m h^3$	0.09698	0.0971 ± 0.0013	$100\theta_*$	1.03953	1.03954 ± 0.00088	χ^2_{prior}	2.86	7.28 ± 3.4
σ_8	0.942	$0.906^{+0.070}_{-0.048}$	D_A/Gpc	13.884	13.881 ± 0.055	χ^2_{BAO}	4.54	5.49 ± 1.4
$\sigma_8\Omega_m^{0.5}$	0.5172	$0.497^{+0.037}_{-0.030}$	z_{drag}	1061.95	1062.0 ± 1.5			
$\sigma_8\Omega_m^{0.25}$	0.6980	$0.671^{+0.051}_{-0.037}$	r_{drag}	146.67	146.64 ± 0.74			

Best-fit $\chi^2_{eff} = 756.21$; $\bar{\chi}^2_{eff} = 769.06$; $R - 1 = 0.01745$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.68 DR11CMASS: 2.56 DR11LOWZ: 0.30 CMB - plik_dx11dr2_HM_v18_EE: 748.81

2.95 base_plikHM_EE_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02349	0.02346 ± 0.00066	$\sigma_8/h^{0.5}$	1.134	$1.093^{+0.084}_{-0.059}$	k_D	0.14222	0.1422 ± 0.0012
$\boldsymbol{\Omega_c h^2}$	0.11730	0.1174 ± 0.0015	$\langle d^2\rangle^{1/2}$	2.841	$2.74^{+0.21}_{-0.15}$	$100\theta_D$	0.15915	$0.15923^{+0.00076}_{-0.00093}$
$\boldsymbol{100\theta_{MC}}$	1.03938	1.03947 ± 0.00086	z_{re}	19.31	$16.5^{+5.6}_{-2.8}$	z_{eq}	3364.3	3365 ± 35
$\boldsymbol{\tau}$	0.212	$0.173^{+0.078}_{-0.049}$	$10^9 A_s$	2.922	$2.72^{+0.40}_{-0.32}$	k_{eq}	0.010268	0.01027 ± 0.00011
$\boldsymbol{\ln(10^{10} A_s)}$	3.375	$3.30^{+0.16}_{-0.10}$	$10^9 A_s e^{-2\tau}$	1.9139	1.913 ± 0.026	$100\theta_{eq}$	0.8220	0.8219 ± 0.0061
$\boldsymbol{n_s}$	0.9686	0.968 ± 0.011	D_{40}	1376	1345^{+63}_{-81}	$100\theta_{s,eq}$	0.45307	0.4530 ± 0.0032
$\boldsymbol{A^{dust\,EE}_{100}}$	0.0771	0.0775 ± 0.0064	D_{220}	5992	5981 ± 140	$r_{drag}/D_V(0.57)$	0.071967	$0.07197^{+0.00045}_{-0.00053}$
$\boldsymbol{A^{dust\,EE}_{100\times143}}$	0.0438	$0.0444^{+0.0065}_{-0.0058}$	D_{810}	2575.8	2577 ± 34	$H(0.57)$	93.72	93.72 ± 0.57
$\boldsymbol{A^{dust\,EE}_{100\times217}}$	0.0983	0.097 ± 0.033	D_{1420}	830.0	831 ± 15	$D_A(0.57)$	1371.1	1371 ± 12
$\boldsymbol{A^{dust\,EE}_{143}}$	0.0948	$0.0953^{+0.0073}_{-0.0085}$	D_{2000}	239.9	$239.2^{+5.5}_{-6.1}$	$F_{AP}(0.57)$	0.67295	0.6730 ± 0.0023
$\boldsymbol{A^{dust\,EE}_{143\times217}}$	0.2207	0.220 ± 0.046	$n_{s,0.002}$	0.9686	0.968 ± 0.011	$f\sigma_8(0.57)$	0.5429	$0.523^{+0.040}_{-0.028}$
$\boldsymbol{A^{dust\,EE}_{217}}$	0.640	0.64 ± 0.13	Y_P	0.245875	$0.24585^{+0.00030}_{-0.00026}$	$\sigma_8(0.57)$	0.7027	$0.677^{+0.053}_{-0.036}$
$\boldsymbol{y_{cal}}$	0.99990	1.0000 ± 0.0025	Y_P^{BBN}	0.247203	$0.24718^{+0.00030}_{-0.00026}$	χ^2_{plikEE}	748.67	756.2 ± 4.2
H_0	68.72	68.71 ± 0.82	10^5D/H	2.395	$2.404^{+0.098}_{-0.12}$	χ^2_{H070p6}	0.323	0.39 ± 0.29
Ω_Λ	0.7005	0.7002 ± 0.0088	Age/Gyr	13.719	13.720 ± 0.069	χ^2_{JLA}	706.517	706.59 ± 0.13
Ω_m	0.2995	0.2998 ± 0.0088	z_*	1088.35	$1088.41^{+0.73}_{-0.88}$	χ^2_{6DF}	0.0018	0.054 ± 0.078
$\Omega_m h^2$	0.14143	0.1415 ± 0.0015	r_*	144.28	144.28 ± 0.56	χ^2_{MGS}	1.82	1.90 ± 0.70
$\Omega_m h^3$	0.09720	0.0972 ± 0.0012	$100\theta_*$	1.03946	1.03954 ± 0.00087	$\chi^2_{DR11CMASS}$	2.63	3.18 ± 0.93
σ_8	0.940	$0.906^{+0.070}_{-0.048}$	D_A/Gpc	13.880	13.880 ± 0.055	$\chi^2_{DR11LOWZ}$	0.218	0.39 ± 0.44
$\sigma_8\Omega_m^{0.5}$	0.5144	$0.496^{+0.037}_{-0.029}$	z_{drag}	1062.30	$1062.2^{+1.6}_{-1.4}$	χ^2_{prior}	2.88	7.26 ± 3.4
$\sigma_8\Omega_m^{0.25}$	0.6954	$0.671^{+0.051}_{-0.037}$	r_{drag}	146.57	146.60 ± 0.74	χ^2_{BAO}	4.67	5.52 ± 1.4

Best-fit $\chi^2_{eff} = 1463.07$; $\bar{\chi}^2_{eff} = 1475.93$; $R - 1 = 0.01752$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.82 DR11CMASS: 2.63 DR11LOWZ: 0.22 CMB - plik_dx11dr2_HM_v18_EE: 748.67 Hubble - H070p6: 0.32 SN - JLA December_2013: 706.52

2.96 base_CamSpecHM_TE

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022344	$0.02247^{+0.00030}_{-0.00034}$ $(+0.4\sigma)$	$\sigma_8/h^{0.5}$	0.971	$1.011^{+0.041}_{-0.089}$ $(+0.0\sigma)$	$r_{\rm drag}$	148.00	148.03 ± 0.51 $(+0.9\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11672	0.1161 ± 0.0023 (-1.0σ)	$\langle d^2\rangle^{1/2}$	2.389	$2.474^{+0.096}_{-0.19}$ (-0.2σ)	$k_{\rm D}$	0.13991	0.13997 ± 0.00059 (-0.7σ)
$\boldsymbol{100\theta_{MC}}$	1.041254	1.04134 ± 0.00050 $(+0.7\sigma)$	$z_{\rm re}$	8.52	$11.5^{+4.2}_{-7.1}$ $(+0.2\sigma)$	$100\theta_{\rm D}$	0.160935	0.16080 ± 0.00037 (-0.1σ)
$\boldsymbol{\tau}$	0.063	< 0.129 $(+0.3\sigma)$	$10^9 A_{\rm s}$	2.099	$2.31^{+0.15}_{-0.43}$ $(+0.2\sigma)$	$z_{\rm eq}$	3323	3311 ± 50 (-1.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.044	$3.130^{+0.080}_{-0.19}$ $(+0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	1.8501	1.855 ± 0.028 (-0.7σ)	$100\theta_{\rm eq}$	0.8279	0.831 ± 0.010 $(+1.0\sigma)$
$\boldsymbol{n_s}$	0.9763	$0.984^{+0.014}_{-0.017}$ $(+0.9\sigma)$	D_{40}	1193.4	1210^{+30}_{-42} (-0.8σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07245	0.07271 ± 0.00081 $(+1.0\sigma)$
$\boldsymbol{y_{cal}}$	0.99992	0.9999 ± 0.0025 (-0.0σ)	D_{220}	5650	5658 ± 82 (-0.9σ)	$H(0.57)$	93.38	$93.58^{+0.48}_{-0.56}$ $(+0.9\sigma)$
$\boldsymbol{c_{TE}}$	0.99995	0.9996 ± 0.0099	D_{810}	2513.7	2525 ± 40 (-0.1σ)	$D_{\rm A}(0.57)$	1374.7	1370 ± 14 (-0.9σ)
H_0	68.62	69.0 ± 1.1 $(+1.0\sigma)$	D_{1420}	812.2	818 ± 17 $(+0.3\sigma)$	$F_{\rm AP}(0.57)$	0.67224	0.6712 ± 0.0035 (-1.0σ)
Ω_Λ	0.7033	$0.707^{+0.015}_{-0.013}$ $(+1.0\sigma)$	$n_{\rm s,0.002}$	0.9763	$0.984^{+0.014}_{-0.017}$ $(+0.9\sigma)$	$f\sigma_8(0.57)$	0.4636	$0.483^{+0.020}_{-0.042}$ (-0.0σ)
$\Omega_{\rm m}$	0.2967	$0.293^{+0.013}_{-0.015}$ (-1.0σ)	$Y_{\rm P}$	0.244960	$0.24502^{+0.00013}_{-0.00015}$ (-2.8σ)	$\sigma_8(0.57)$	0.6017	$0.630^{+0.024}_{-0.061}$ $(+0.2\sigma)$
$\Omega_{\rm m} h^2$	0.13971	0.1392 ± 0.0021 (-1.0σ)	Age/Gyr	13.7755	$13.757^{+0.050}_{-0.044}$ (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246291	$0.24634^{+0.00013}_{-0.00014}$ (-2.8σ)
$\Omega_{\rm m} h^3$	0.09586	0.09601 ± 0.00055 (-0.0σ)	z_*	1089.65	1089.44 ± 0.52 (-0.7σ)	$\chi^2_{\rm CamSpec}$	2694.42	2700.1 ± 3.2
σ_8	0.804	$0.840^{+0.033}_{-0.078}$ $(+0.1\sigma)$	r_*	145.31	145.38 ± 0.51 $(+1.0\sigma)$	$\chi^2_{\rm prior}$	10.03	12.0 ± 2.0 $(+1.1\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4380	$0.454^{+0.022}_{-0.036}$ (-0.2σ)	$100\theta_*$	1.041464	1.04153 ± 0.00049 $(+0.7\sigma)$			
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5934	$0.618^{+0.026}_{-0.053}$ (-0.1σ)	$z_{\rm drag}$	1059.63	1059.87 ± 0.65 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 2704.45$; $\Delta\chi^2_{\rm eff} = 1771.35$; $\bar{\chi}^2_{\rm eff} = 2712.07$; $\Delta\bar{\chi}^2_{\rm eff} = 1765.30$; $R - 1 = 0.00731$
$\chi^2_{\rm eff}$: CMB - CamSpec like_v9.10CMH_unified: 2694.42

2.97 base_CamSpecHM_TE_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02232^{+0.00024}_{-0.00028}$ (-0.1σ)	$\langle d^2\rangle^{1/2}$	$2.447^{+0.070}_{-0.15}$ (-0.4σ)	$100\theta_{\rm D}$	0.16092 ± 0.00034 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1178 ± 0.0013 (-0.5σ)	$z_{\rm re}$	$9.51^{+3.1}_{-5.7}$ (-0.1σ)	$z_{\rm eq}$	3349 ± 30 (-0.5σ)
$\boldsymbol{100\theta_{MC}}$	1.04113 ± 0.00044 $(+0.3\sigma)$	$10^9 A_{\rm s}$	$2.19^{+0.11}_{-0.30}$ (-0.2σ)	$100\theta_{\rm eq}$	0.8229 ± 0.0057 $(+0.5\sigma)$
$\boldsymbol{\tau}$	< 0.0942 (-0.1σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.858 ± 0.027 (-0.6σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07207 ± 0.00044 $(+0.5\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.079^{+0.058}_{-0.14}$ (-0.2σ)	D_{40}	1208^{+28}_{-34} (-0.9σ)	$H(0.57)$	93.21 ± 0.31 $(+0.3\sigma)$
$\boldsymbol{n_s}$	$0.976^{+0.012}_{-0.013}$ $(+0.6\sigma)$	D_{220}	5648 ± 81 (-1.0σ)	$D_{\rm A}(0.57)$	1380.7 ± 8.3 (-0.4σ)
$\boldsymbol{y_{cal}}$	0.9999 ± 0.0025 (-0.1σ)	D_{810}	2519 ± 38 (-0.3σ)	$F_{\rm AP}(0.57)$	0.6739 ± 0.0020 (-0.5σ)
$\boldsymbol{c_{TE}}$	0.999 ± 0.010	D_{1420}	814 ± 16 $(+0.0\sigma)$	$f\sigma_8(0.57)$	$0.476^{+0.014}_{-0.033}$ (-0.2σ)
H_0	68.15 ± 0.61 $(+0.4\sigma)$	$n_{\rm s,0.002}$	$0.976^{+0.012}_{-0.013}$ $(+0.6\sigma)$	$\sigma_8(0.57)$	$0.615^{+0.018}_{-0.044}$ (-0.1σ)
Ω_Λ	0.6967 ± 0.0078 $(+0.5\sigma)$	$Y_{\rm P}$	$0.244952^{+0.000099}_{-0.00012}$ (-3.7σ)	$Y_{\rm P}^{\rm BBN}$	0.24628 ± 0.00011 (-3.7σ)
$\Omega_{\rm m}$	0.3033 ± 0.0078 (-0.5σ)	Age/Gyr	13.787 ± 0.033 (-0.2σ)	$\chi^2_{\rm CamSpec}$	2699.6 ± 3.0
$\Omega_{\rm m} h^2$	0.1408 ± 0.0013 (-0.5σ)	z_*	1089.78 ± 0.37 (-0.1σ)	$\chi^2_{\rm 6DF}$	0.045 ± 0.063 (-0.0σ)
$\Omega_{\rm m} h^3$	0.09595 ± 0.00053 (-0.1σ)	r_*	145.03 ± 0.34 $(+0.5\sigma)$	$\chi^2_{\rm MGS}$	1.89 ± 0.64 $(+0.5\sigma)$
σ_8	$0.823^{+0.024}_{-0.058}$ (-0.1σ)	$100\theta_*$	1.04133 ± 0.00044 $(+0.4\sigma)$	$\chi^2_{\rm DR11CMASS}$	3.05 ± 0.87 $(+0.3\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.453^{+0.015}_{-0.030}$ (-0.3σ)	$z_{\rm drag}$	$1059.64^{+0.55}_{-0.63}$ (-0.2σ)	$\chi^2_{\rm DR11LOWZ}$	0.34 ± 0.39 (-0.4σ)
$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.611^{+0.019}_{-0.042}$ (-0.2σ)	$r_{\rm drag}$	147.73 ± 0.38 $(+0.5\sigma)$	$\chi^2_{\rm prior}$	12.0 ± 2.0 $(+1.1\sigma)$
$\sigma_8/h^{0.5}$	$0.997^{+0.030}_{-0.068}$ (-0.2σ)	$k_{\rm D}$	0.14017 ± 0.00053 (-0.4σ)	$\chi^2_{\rm BAO}$	5.32 ± 1.3 $(+0.3\sigma)$

$\bar{\chi}^2_{\rm eff} = 2716.95$; $\Delta\bar{\chi}^2_{\rm eff} = 1765.77$; $R - 1 = 0.01268$

2.98 base_CamSpecHM_TE_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02234^{+0.00024}_{-0.00028}$ (-0.1σ)	z_{re}	$9.78^{+3.2}_{-5.9}$ (-0.1σ)	$100\theta_{eq}$	0.8239 ± 0.0055 $(+0.5\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1176 ± 0.0013 (-0.5σ)	$10^9 A_s$	$2.20^{+0.11}_{-0.31}$ (-0.2σ)	$r_{drag}/D_V(0.57)$	0.07214 ± 0.00043 $(+0.5\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04115 ± 0.00044 $(+0.3\sigma)$	$10^9 A_s e^{-2\tau}$	1.858 ± 0.027 (-0.6σ)	$H(0.57)$	93.26 ± 0.30 $(+0.3\sigma)$
$\boldsymbol{\tau}$	< 0.0981 (-0.1σ)	D_{40}	1207^{+28}_{-35} (-0.9σ)	$D_A(0.57)$	1379.2 ± 8.0 (-0.4σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.086^{+0.060}_{-0.14}$ (-0.2σ)	D_{220}	5649 ± 81 (-1.0σ)	$F_{AP}(0.57)$	0.6736 ± 0.0019 (-0.5σ)
$\boldsymbol{n_s}$	$0.977^{+0.011}_{-0.013}$ $(+0.6\sigma)$	D_{810}	2520 ± 38 (-0.3σ)	$f\sigma_8(0.57)$	$0.477^{+0.015}_{-0.034}$ (-0.2σ)
$\boldsymbol{y_{cal}}$	0.9999 ± 0.0025 (-0.1σ)	D_{1420}	815 ± 16 $(+0.0\sigma)$	$\sigma_8(0.57)$	$0.616^{+0.018}_{-0.045}$ (-0.1σ)
$\boldsymbol{c_{TE}}$	0.999 ± 0.010	$n_{s,0.002}$	$0.977^{+0.011}_{-0.013}$ $(+0.6\sigma)$	Y_P^{BBN}	0.24629 ± 0.00011 (-3.7σ)
H_0	68.26 ± 0.58 $(+0.4\sigma)$	Y_P	$0.24496^{+0.00010}_{-0.00013}$ (-3.8σ)	$\chi^2_{CamSpec}$	2699.5 ± 3.0
Ω_Λ	0.6981 ± 0.0074 $(+0.5\sigma)$	Age/Gyr	13.783 ± 0.033 (-0.1σ)	χ^2_{H070p6}	0.53 ± 0.25 (-0.4σ)
Ω_m	0.3019 ± 0.0074 (-0.5σ)	z_*	1089.73 ± 0.37 (-0.1σ)	χ^2_{JLA}	706.59 ± 0.12 (-0.4σ)
$\Omega_m h^2$	0.1406 ± 0.0012 (-0.5σ)	r_*	145.07 ± 0.34 $(+0.5\sigma)$	χ^2_{6DF}	0.046 ± 0.064 $(+0.1\sigma)$
$\Omega_m h^3$	0.09597 ± 0.00053 (-0.1σ)	$100\theta_*$	1.04135 ± 0.00044 $(+0.3\sigma)$	χ^2_{MGS}	2.00 ± 0.62 $(+0.5\sigma)$
σ_8	$0.825^{+0.025}_{-0.060}$ (-0.1σ)	z_{drag}	$1059.69^{+0.56}_{-0.63}$ (-0.2σ)	$\chi^2_{DR11CMASS}$	3.13 ± 0.93 $(+0.4\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.016}_{-0.032}$ (-0.2σ)	r_{drag}	147.76 ± 0.38 $(+0.5\sigma)$	$\chi^2_{DR11LOWZ}$	0.27 ± 0.33 (-0.4σ)
$\sigma_8 \Omega_m^{0.25}$	$0.612^{+0.020}_{-0.044}$ (-0.2σ)	k_D	0.14016 ± 0.00053 (-0.4σ)	χ^2_{prior}	12.0 ± 2.0 $(+1.1\sigma)$
$\sigma_8/h^{0.5}$	$0.999^{+0.031}_{-0.071}$ (-0.2σ)	$100\theta_D$	0.16089 ± 0.00034 $(+0.2\sigma)$	χ^2_{BAO}	5.44 ± 1.4 $(+0.4\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.450^{+0.073}_{-0.15}$ (-0.3σ)	z_{eq}	3345 ± 29 (-0.5σ)		

$\bar{\chi}^2_{eff} = 3424.10$; $\Delta\bar{\chi}^2_{eff} = 1765.59$; $R - 1 = 0.01293$

2.99 base_CamSpecHM_EE

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02464	0.0245 ± 0.0011 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	1.080	$1.035^{+0.074}_{-0.066}$ (-0.5σ)	$r_{\rm drag}$	146.34	146.27 ± 0.62 (-0.5σ)
$\boldsymbol{\Omega_c h^2}$	0.11349	0.1144 ± 0.0043 $(+0.3\sigma)$	$\langle d^2\rangle^{1/2}$	2.740	$2.63^{+0.19}_{-0.15}$ (-0.4σ)	$k_{\rm D}$	0.14320	0.1431 ± 0.0011 $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.03978	1.03976 ± 0.00074 (-0.1σ)	$z_{\rm re}$	18.09	$14.5^{+6.3}_{-3.1}$ (-0.6σ)	$100\theta_{\rm D}$	0.15799	$0.1582^{+0.0010}_{-0.0012}$ (-0.1σ)
$\boldsymbol{\tau}$	0.204	$0.153^{+0.088}_{-0.061}$ (-0.6σ)	$10^9 A_{\rm s}$	2.862	2.61 ± 0.35 (-0.6σ)	$z_{\rm eq}$	3301	3319 ± 82 $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.354	$3.25^{+0.17}_{-0.12}$ (-0.6σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.9039	1.905 ± 0.030 (-0.3σ)	$100\theta_{\rm eq}$	0.8375	0.834 ± 0.018 (-0.3σ)
$\boldsymbol{n_s}$	0.9763	0.973 ± 0.014 (-0.4σ)	D_{40}	1359	1327^{+52}_{-66} (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07346	0.0732 ± 0.0016 (-0.2σ)
$\boldsymbol{y_{cal}}$	0.99996	1.0001 ± 0.0025 (-0.0σ)	D_{220}	6113	6092 ± 190 (-0.1σ)	$H(0.57)$	95.17	$95.0^{+1.3}_{-1.6}$ (-0.1σ)
$\boldsymbol{c_{EE}}$	0.9995	0.9997 ± 0.010	D_{810}	2581.1	2581 ± 43 (-0.3σ)	$D_{\rm A}(0.57)$	1336.5	1343 ± 34 $(+0.1\sigma)$
H_0	71.22	70.8 ± 2.5 (-0.2σ)	D_{1420}	837.2	837 ± 18 (-0.3σ)	$F_{\rm AP}(0.57)$	0.6661	$0.6677^{+0.0067}_{-0.0078}$ $(+0.2\sigma)$
Ω_Λ	0.7264	$0.720^{+0.030}_{-0.024}$ (-0.2σ)	$n_{\rm s,0.002}$	0.9763	0.973 ± 0.014 (-0.4σ)	$f\sigma_8(0.57)$	0.5177	$0.496^{+0.035}_{-0.032}$ (-0.5σ)
$\Omega_{\rm m}$	0.2736	$0.280^{+0.024}_{-0.030}$ $(+0.2\sigma)$	$Y_{\rm P}$	0.245898	0.24583 ± 0.00043 (-0.8σ)	$\sigma_8(0.57)$	0.6888	$0.657^{+0.053}_{-0.041}$ (-0.6σ)
$\Omega_{\rm m} h^2$	0.13877	0.1395 ± 0.0034 $(+0.3\sigma)$	Age/Gyr	13.574	13.59 ± 0.14 $(+0.0\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.247222	0.24715 ± 0.00043 (-0.8σ)
$\Omega_{\rm m} h^3$	0.09884	0.0987 ± 0.0016 $(+0.1\sigma)$	z_*	1086.77	$1087.1^{+1.4}_{-1.6}$ $(+0.0\sigma)$	$\chi^2_{\rm CamSpec}$	2183.71	2189.5 ± 3.2
σ_8	0.911	$0.871^{+0.067}_{-0.052}$ (-0.6σ)	r_*	144.38	144.26 ± 0.59 (-0.5σ)	$\chi^2_{\rm prior}$	10.03	12.1 ± 2.1 $(+1.4\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4766	0.460 ± 0.034 (-0.3σ)	$100\theta_*$	1.03974	1.03974 ± 0.00071 (-0.1σ)			
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6590	0.633 ± 0.041 (-0.4σ)	$z_{\rm drag}$	1064.55	1064.2 ± 2.2 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 2193.74$; $\Delta\chi^2_{\rm eff} = 1443.17$; $\bar{\chi}^2_{\rm eff} = 2201.59$; $\Delta\bar{\chi}^2_{\rm eff} = 1437.91$; $R - 1 = 0.00567$
$\chi^2_{\rm eff}$: CMB - CamSpec like_v9.10CMH_unified: 2183.71

2.100 base_CamSpecHM_EE_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02370 ± 0.00058 $(+0.5\sigma)$	$\langle d^2\rangle^{1/2}$	2.63 ± 0.16 (-0.7σ)	$100\theta_{\rm D}$	0.15890 ± 0.00070 (-0.5σ)
$\boldsymbol{\Omega_c h^2}$	0.1178 ± 0.0015 $(+0.1\sigma)$	$z_{\rm re}$	$13.3^{+6.3}_{-3.7}$ (-0.7σ)	$z_{\rm eq}$	3381^{+36}_{-32} $(+0.4\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.03951 ± 0.00066 $(+0.1\sigma)$	$10^9 A_{\rm s}$	$2.49^{+0.28}_{-0.40}$ (-0.7σ)	$100\theta_{\rm eq}$	0.8197 ± 0.0061 (-0.2σ)
$\boldsymbol{\tau}$	$0.130^{+0.075}_{-0.064}$ (-0.7σ)	$10^9 A_{\rm s} e^{-2\tau}$	$1.906^{+0.032}_{-0.029}$ (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07189 ± 0.00049 (-0.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.21^{+0.15}_{-0.13}$ (-0.7σ)	D_{40}	1315^{+45}_{-60} (-0.4σ)	$H(0.57)$	$93.87^{+0.50}_{-0.58}$ $(+0.4\sigma)$
$\boldsymbol{n_s}$	0.9642 ± 0.0090 (-0.3σ)	D_{220}	5986 ± 140 $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1370 ± 12 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0026 (-0.0σ)	D_{810}	2568 ± 39 (-0.2σ)	$F_{\rm AP}(0.57)$	0.6732 ± 0.0024 (-0.1σ)
$\boldsymbol{c_{EE}}$	1.000 ± 0.010	D_{1420}	829 ± 15 (-0.1σ)	$f\sigma_8(0.57)$	0.500 ± 0.031 (-0.7σ)
H_0	68.77 ± 0.83 $(+0.3\sigma)$	$n_{\rm s,0.002}$	0.9642 ± 0.0090 (-0.3σ)	$\sigma_8(0.57)$	0.647 ± 0.040 (-0.7σ)
Ω_Λ	0.6993 ± 0.0092 $(+0.1\sigma)$	$Y_{\rm P}$	0.24552 ± 0.00023 (-1.0σ)	$Y_{\rm P}^{\rm BBN}$	0.24685 ± 0.00023 (-1.0σ)
$\Omega_{\rm m}$	0.3007 ± 0.0092 (-0.1σ)	Age/Gyr	13.696 ± 0.062 (-0.5σ)	$\chi^2_{\rm CamSpec}$	2189.0 ± 2.7
$\Omega_{\rm m} h^2$	$0.1421^{+0.0015}_{-0.0013}$ $(+0.4\sigma)$	z_*	1088.16 ± 0.71 (-0.5σ)	$\chi^2_{\rm 6DF}$	0.056 ± 0.081 (-0.0σ)
$\Omega_{\rm m} h^3$	0.0977 ± 0.0010 $(+0.5\sigma)$	r_*	143.99 ± 0.46 (-0.6σ)	$\chi^2_{\rm MGS}$	1.80 ± 0.71 $(+0.0\sigma)$
σ_8	0.866 ± 0.053 (-0.7σ)	$100\theta_*$	1.03957 ± 0.00067 $(+0.0\sigma)$	$\chi^2_{\rm DR11CMASS}$	3.18 ± 0.90 $(+0.0\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.475 ± 0.030 (-0.7σ)	$z_{\rm drag}$	1062.8 ± 1.3 $(+0.5\sigma)$	$\chi^2_{\rm DR11LOWZ}$	0.47 ± 0.52 (-0.0σ)
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.641 ± 0.039 (-0.7σ)	$r_{\rm drag}$	146.23 ± 0.60 (-0.6σ)	$\chi^2_{\rm prior}$	12.1 ± 2.1 $(+1.4\sigma)$
$\sigma_8/h^{0.5}$	1.044 ± 0.064 (-0.8σ)	$k_{\rm D}$	0.14274 ± 0.00098 $(+0.6\sigma)$	$\chi^2_{\rm BAO}$	5.51 ± 1.4 $(+0.0\sigma)$

$\bar{\chi}^2_{\rm eff} = 2206.63$; $\Delta\bar{\chi}^2_{\rm eff} = 1437.57$; $R - 1 = 0.02332$

2.101 base_CamSpecHM_EE_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02377 ± 0.00057 $(+0.5\sigma)$	z_{re}	$13.3^{+6.2}_{-3.6}$ (-0.7σ)	$100\theta_{eq}$	$0.8205^{+0.0057}_{-0.0064}$ (-0.2σ)
$\boldsymbol{\Omega_c h^2}$	0.1176 ± 0.0014 $(+0.2\sigma)$	$10^9 A_s$	$2.50^{+0.30}_{-0.39}$ (-0.7σ)	$r_{drag}/D_V(0.57)$	0.07196 ± 0.00047 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.03951 ± 0.00067 $(+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.907^{+0.032}_{-0.028}$ (-0.2σ)	$H(0.57)$	$93.94^{+0.49}_{-0.55}$ $(+0.4\sigma)$
$\boldsymbol{\tau}$	$0.131^{+0.075}_{-0.063}$ (-0.7σ)	D_{40}	1316^{+45}_{-59} (-0.4σ)	$D_A(0.57)$	1368^{+12}_{-11} (-0.3σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.21^{+0.15}_{-0.12}$ (-0.7σ)	D_{220}	5998 ± 130 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6729 ± 0.0022 (-0.1σ)
$\boldsymbol{n_s}$	$0.9647^{+0.0084}_{-0.0094}$ (-0.3σ)	D_{810}	2570 ± 39 (-0.2σ)	$f\sigma_8(0.57)$	0.500 ± 0.031 (-0.7σ)
$\boldsymbol{y_{cal}}$	0.99999 ± 0.0025 (-0.0σ)	D_{1420}	830 ± 15 (-0.1σ)	$\sigma_8(0.57)$	0.648 ± 0.040 (-0.7σ)
$\boldsymbol{c_{EE}}$	1.000 ± 0.010	$n_{s,0.002}$	$0.9647^{+0.0084}_{-0.0094}$ (-0.3σ)	Y_P^{BBN}	0.24688 ± 0.00023 (-1.1σ)
H_0	$68.91^{+0.75}_{-0.86}$ $(+0.2\sigma)$	Y_P	0.24555 ± 0.00023 (-1.1σ)	$\chi^2_{CamSpec}$	2189.0 ± 2.7
Ω_Λ	0.7008 ± 0.0086 $(+0.1\sigma)$	Age/Gyr	13.688 ± 0.060 (-0.5σ)	χ^2_{H070p6}	0.32 ± 0.25 (-0.2σ)
Ω_m	0.2992 ± 0.0086 (-0.1σ)	z_*	1088.06 ± 0.68 (-0.4σ)	χ^2_{JLA}	706.58 ± 0.12 (-0.1σ)
$\Omega_m h^2$	$0.1420^{+0.0015}_{-0.0013}$ $(+0.4\sigma)$	r_*	143.99 ± 0.47 (-0.5σ)	χ^2_{6DF}	0.053 ± 0.076 (-0.0σ)
$\Omega_m h^3$	0.0978 ± 0.0010 $(+0.5\sigma)$	$100\theta_*$	1.03957 ± 0.00068 $(+0.0\sigma)$	χ^2_{MGS}	1.90 ± 0.69 $(+0.0\sigma)$
σ_8	0.866 ± 0.053 (-0.7σ)	z_{drag}	1062.9 ± 1.2 $(+0.5\sigma)$	$\chi^2_{DR11CMASS}$	3.18 ± 0.88 $(+0.0\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.474 ± 0.030 (-0.7σ)	r_{drag}	146.20 ± 0.60 (-0.5σ)	$\chi^2_{DR11LOWZ}$	0.39 ± 0.44 (-0.0σ)
$\sigma_8 \Omega_m^{0.25}$	0.641 ± 0.039 (-0.7σ)	k_D	0.14281 ± 0.00098 $(+0.5\sigma)$	χ^2_{prior}	12.1 ± 2.1 $(+1.4\sigma)$
$\sigma_8/h^{0.5}$	1.043 ± 0.064 (-0.7σ)	$100\theta_D$	0.15882 ± 0.00068 (-0.5σ)	χ^2_{BAO}	5.52 ± 1.4 $(+0.0\sigma)$
$\langle d^2 \rangle^{1/2}$	2.63 ± 0.16 (-0.7σ)	z_{eq}	3378^{+35}_{-31} $(+0.4\sigma)$		

$\bar{\chi}^2_{eff} = 2913.44$; $\Delta\bar{\chi}^2_{eff} = 1437.52$; $R - 1 = 0.02531$

2.102 base_plikHM_TE_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022305	0.02231 ± 0.00027	$\sigma_8\Omega_m^{0.5}$	0.4478	0.4486 ± 0.0090	D_A/Gpc	13.9140	13.916 ± 0.046
$\boldsymbol{\Omega_c h^2}$	0.11855	0.1185 ± 0.0022	$\sigma_8\Omega_m^{0.25}$	0.6012	0.6025 ± 0.0086	z_{drag}	1059.67	1059.67 ± 0.55
$\boldsymbol{100\theta_{MC}}$	1.04090	1.04094 ± 0.00053	$\sigma_8/h^{0.5}$	0.9802	0.983 ± 0.013	r_{drag}	147.550	147.57 ± 0.49
$\boldsymbol{\tau}$	0.0595	0.063 ± 0.021	$\langle d^2\rangle^{1/2}$	2.4312	2.437 ± 0.037	k_D	0.14033	0.14031 ± 0.00055
$\boldsymbol{\ln(10^{10}A_s)}$	3.0451	3.051 ± 0.038	z_{re}	8.19	$8.35^{+2.3}_{-1.9}$	$100\theta_D$	0.160891	0.16090 ± 0.00032
$\boldsymbol{n_s}$	0.9656	0.966 ± 0.012	$10^9 A_s$	2.101	$2.116^{+0.078}_{-0.090}$	z_{eq}	3366.0	3364 ± 50
$\boldsymbol{y_{cal}}$	0.99984	1.0000 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8657	1.866 ± 0.016	k_{eq}	0.010274	0.01027 ± 0.00015
$\boldsymbol{A_{100}^{dustTE}}$	0.1349	0.137 ± 0.038	D_{40}	1223.8	1225 ± 26	$100\theta_{eq}$	0.8196	0.8201 ± 0.0096
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1293	0.133 ± 0.029	D_{220}	5707	5707 ± 57	$100\theta_{s,eq}$	0.45272	0.4530 ± 0.0049
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.297	0.302 ± 0.085	D_{810}	2520.2	2520 ± 23	$r_{drag}/D_V(0.57)$	0.07178	0.07183 ± 0.00076
$\boldsymbol{A_{143}^{dustTE}}$	0.146	0.153 ± 0.054	D_{1420}	810.2	810 ± 11	$H(0.57)$	93.060	93.09 ± 0.45
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.340	0.335 ± 0.080	D_{2000}	228.58	228.7 ± 4.1	$D_A(0.57)$	1385.2	1385 ± 14
$\boldsymbol{A_{217}^{dustTE}}$	1.684	1.65 ± 0.26	$n_{s,0.002}$	0.9656	0.966 ± 0.012	$F_{AP}(0.57)$	0.67509	0.6750 ± 0.0034
$\boldsymbol{c_{100}}$	0.99943	0.99926 ± 0.00099	Y_P	0.245364	0.24536 ± 0.00012	$f\sigma_8(0.57)$	0.4683	0.4694 ± 0.0065
H_0	67.80	67.9 ± 1.0	Y_P^{BBN}	0.246690	0.24669 ± 0.00012	$\sigma_8(0.57)$	0.6013	0.603 ± 0.011
Ω_Λ	0.6922	0.693 ± 0.013	10^5D/H	2.604	2.604 ± 0.050	$\chi^2_{lensing}$	8.72	9.75 ± 1.4
Ω_m	0.3078	0.307 ± 0.013	Age/Gyr	13.7988	13.796 ± 0.042	χ^2_{plikTE}	931.06	938.3 ± 4.0
$\Omega_m h^2$	0.14150	0.1414 ± 0.0021	z_*	1089.874	1089.87 ± 0.47	χ^2_{prior}	2.09	7.82 ± 3.6
$\Omega_m h^3$	0.09594	0.09595 ± 0.00051	r_*	144.857	144.88 ± 0.50	χ^2_{CMB}	939.77	948.1 ± 4.2
σ_8	0.8071	0.809 ± 0.013	$100\theta_*$	1.04109	1.04113 ± 0.00052			

Best-fit $\chi^2_{eff} = 941.87$; $\bar{\chi}^2_{eff} = 955.88$; $R - 1 = 0.00937$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 8.71 plik_dx11dr2_HM_v18_TE: 931.06

2.103 base_plikHM_TE_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022296	0.02230 ± 0.00023	$\sigma_8/h^{0.5}$	0.9821	0.982 ± 0.013	$100\theta_{\rm D}$	0.160916	0.16090 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11851	0.1185 ± 0.0013	$\langle d^2\rangle^{1/2}$	2.4370	2.436 ± 0.038	$z_{\rm eq}$	3364.9	3366 ± 30
$\boldsymbol{100\theta_{\rm MC}}$	1.040973	1.04093 ± 0.00047	$z_{\rm re}$	8.43	$8.32^{+1.8}_{-1.5}$	$k_{\rm eq}$	0.010270	0.010273 ± 0.000091
$\boldsymbol{\tau}$	0.0619	0.062 ± 0.017	$10^9 A_{\rm s}$	2.111	2.111 ± 0.065	$100\theta_{\rm eq}$	0.8199	0.8197 ± 0.0056
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0498	3.049 ± 0.031	$10^9 A_{\rm s} e^{-2\tau}$	1.8655	1.866 ± 0.015	$100\theta_{\rm s,eq}$	0.45286	0.4528 ± 0.0029
$\boldsymbol{n_{\rm s}}$	0.9653	0.966 ± 0.010	D_{40}	1225.3	1225 ± 24	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071810	0.07179 ± 0.00043
$\boldsymbol{y_{\rm cal}}$	0.99999	1.0000 ± 0.0025	D_{220}	5708	5707 ± 58	$H(0.57)$	93.076	93.07 ± 0.29
$\boldsymbol{A_{100}^{{\rm dust}TE}}$	0.1380	0.138 ± 0.038	D_{810}	2519.8	2520 ± 23	$D_{\rm A}(0.57)$	1384.8	1385.1 ± 8.0
$\boldsymbol{A_{100\times143}^{{\rm dust}TE}}$	0.1349	0.133 ± 0.029	D_{1420}	809.9	810 ± 11	$F_{\rm AP}(0.57)$	0.67499	0.6751 ± 0.0020
$\boldsymbol{A_{100\times217}^{{\rm dust}TE}}$	0.299	0.302 ± 0.085	D_{2000}	228.48	228.7 ± 3.8	$f\sigma_8(0.57)$	0.4693	0.4693 ± 0.0065
$\boldsymbol{A_{143}^{{\rm dust}TE}}$	0.156	0.154 ± 0.053	$n_{\rm s,0.002}$	0.9653	0.966 ± 0.010	$\sigma_8(0.57)$	0.6027	0.6027 ± 0.0094
$\boldsymbol{A_{143\times217}^{{\rm dust}TE}}$	0.332	0.336 ± 0.080	$Y_{\rm P}$	0.245360	0.24536 ± 0.00010	$\chi^2_{\rm lensing}$	8.70	9.75 ± 1.4
$\boldsymbol{A_{217}^{{\rm dust}TE}}$	1.642	1.65 ± 0.25	$Y_{\rm P}^{\rm BBN}$	0.246687	0.24669 ± 0.00010	$\chi^2_{\rm plikTE}$	931.38	937.6 ± 3.8
$\boldsymbol{c_{100}}$	0.99923	0.9993 ± 0.0010	10^5D/H	2.6053	2.605 ± 0.043	$\chi^2_{\rm 6DF}$	0.0062	0.049 ± 0.067
H_0	67.83	67.82 ± 0.59	Age/Gyr	13.7971	13.798 ± 0.031	$\chi^2_{\rm MGS}$	1.47	1.52 ± 0.58
Ω_Λ	0.6926	0.6922 ± 0.0077	z_*	1089.881	1089.88 ± 0.34	$\chi^2_{\rm DR11CMASS}$	2.406	2.87 ± 0.65
$\Omega_{\rm m}$	0.3074	0.3078 ± 0.0077	r_*	144.873	144.86 ± 0.33	$\chi^2_{\rm DR11LOWZ}$	0.427	0.59 ± 0.54
$\Omega_{\rm m}h^2$	0.14145	0.1415 ± 0.0012	$100\theta_*$	1.041165	1.04112 ± 0.00047	$\chi^2_{\rm prior}$	1.80	7.81 ± 3.6
$\Omega_{\rm m}h^3$	0.09595	0.09595 ± 0.00050	$D_{\rm A}$/Gpc	13.9145	13.914 ± 0.033	$\chi^2_{\rm CMB}$	940.08	947.4 ± 4.0
σ_8	0.8089	0.809 ± 0.012	$z_{\rm drag}$	1059.67	1059.67 ± 0.51	$\chi^2_{\rm BAO}$	4.31	5.02 ± 0.97
$\sigma_8\Omega_{\rm m}^{0.5}$	0.4485	0.4487 ± 0.0072	$r_{\rm drag}$	147.568	147.56 ± 0.36			
$\sigma_8\Omega_{\rm m}^{0.25}$	0.6023	0.6025 ± 0.0084	$k_{\rm D}$	0.140307	0.14032 ± 0.00048			

Best-fit $\chi^2_{\rm eff} = 946.19$; $\bar{\chi}^2_{\rm eff} = 960.24$; $R - 1 = 0.01208$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.41 DR11LOWZ: 0.43 CMB - smica_g30_ftl_full_pp: 8.70 plik_dx11dr2_HM_v18_TE: 931.38

2.104 base_plikHM_TE_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022314	0.02233 ± 0.00023	$\sigma_8/h^{0.5}$	0.9820	0.982 ± 0.014	$100\theta_{\rm D}$	0.160896	0.16088 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11835	0.1183 ± 0.0012	$\langle d^2\rangle^{1/2}$	2.4344	2.435 ± 0.037	$z_{\rm eq}$	3361.5	3360 ± 29
$\boldsymbol{100\theta_{\rm MC}}$	1.040965	1.04096 ± 0.00047	$z_{\rm re}$	8.48	$8.49^{+1.8}_{-1.5}$	$k_{\rm eq}$	0.010260	0.010256 ± 0.000088
$\boldsymbol{\tau}$	0.0625	0.063 ± 0.017	$10^9 A_{\rm s}$	2.114	2.118 ± 0.065	$100\theta_{\rm eq}$	0.8205	0.8208 ± 0.0054
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0512	3.053 ± 0.030	$10^9 A_{\rm s} e^{-2\tau}$	1.8657	1.865 ± 0.015	$100\theta_{\rm s,eq}$	0.45320	0.4533 ± 0.0028
$\boldsymbol{n_{\rm s}}$	0.9666	0.967 ± 0.010	D_{40}	1223.0	1224^{+23}_{-26}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071860	0.07189 ± 0.00042
$\boldsymbol{y_{\rm cal}}$	1.00001	1.0000 ± 0.0025	D_{220}	5708	5708 ± 57	$H(0.57)$	93.105	93.13 ± 0.28
$\boldsymbol{A^{{\rm dust}TE}_{100}}$	0.1378	0.137 ± 0.038	D_{810}	2521.4	2521 ± 23	$D_{\rm A}(0.57)$	1383.9	1383.4 ± 7.7
$\boldsymbol{A^{{\rm dust}TE}_{100\times143}}$	0.1319	0.133 ± 0.029	D_{1420}	810.9	811 ± 11	$F_{\rm AP}(0.57)$	0.67475	0.6747 ± 0.0019
$\boldsymbol{A^{{\rm dust}TE}_{100\times217}}$	0.306	0.302 ± 0.085	D_{2000}	228.87	228.9 ± 3.8	$f\sigma_8(0.57)$	0.4692	0.4693 ± 0.0065
$\boldsymbol{A^{{\rm dust}TE}_{143}}$	0.152	0.153 ± 0.053	$n_{\rm s,0.002}$	0.9666	0.967 ± 0.010	$\sigma_8(0.57)$	0.6032	0.6036 ± 0.0093
$\boldsymbol{A^{{\rm dust}TE}_{143\times217}}$	0.336	0.335 ± 0.080	$Y_{\rm P}$	0.245368	0.24537 ± 0.00010	$\chi^2_{\rm lensing}$	8.69	9.74 ± 1.4
$\boldsymbol{A^{{\rm dust}TE}_{217}}$	1.657	1.65 ± 0.25	$Y^{\rm BBN}_{\rm P}$	0.246695	0.24670 ± 0.00010	$\chi^2_{\rm plikTE}$	931.28	937.6 ± 3.8
$\boldsymbol{c_{100}}$	0.99927	0.9993 ± 0.0010	10^5D/H	2.6019	2.599 ± 0.043	$\chi^2_{\rm H070p6}$	0.660	0.67 ± 0.27
H_0	67.90	67.94 ± 0.56	Age/Gyr	13.7948	13.793 ± 0.031	$\chi^2_{\rm JLA}$	706.623	706.66 ± 0.16
Ω_Λ	0.6935	0.6939 ± 0.0074	z_*	1089.845	1089.82 ± 0.33	$\chi^2_{\rm 6DF}$	0.0030	0.040 ± 0.057
$\Omega_{\rm m}$	0.3065	0.3061 ± 0.0074	r_*	144.902	144.91 ± 0.33	$\chi^2_{\rm MGS}$	1.54	1.64 ± 0.57
$\Omega_{\rm m}h^2$	0.14131	0.1413 ± 0.0012	$100\theta_*$	1.041156	1.04115 ± 0.00047	$\chi^2_{\rm DR11CMASS}$	2.418	2.85 ± 0.63
$\Omega_{\rm m}h^3$	0.09596	0.09597 ± 0.00050	$D_{\rm A}$/Gpc	13.9174	13.918 ± 0.032	$\chi^2_{\rm DR11LOWZ}$	0.372	0.48 ± 0.46
σ_8	0.8092	0.810 ± 0.012	$z_{\rm drag}$	1059.70	1059.72 ± 0.51	$\chi^2_{\rm prior}$	1.91	7.83 ± 3.6
$\sigma_8\Omega_{\rm m}^{0.5}$	0.4480	0.4479 ± 0.0072	$r_{\rm drag}$	147.590	147.59 ± 0.36	$\chi^2_{\rm CMB}$	939.97	947.4 ± 4.0
$\sigma_8\Omega_{\rm m}^{0.25}$	0.6021	0.6022 ± 0.0084	$k_{\rm D}$	0.140297	0.14031 ± 0.00048	$\chi^2_{\rm BAO}$	4.33	5.01 ± 0.95

Best-fit $\chi^2_{\rm eff} = 1653.50$; $\bar{\chi}^2_{\rm eff} = 1667.55$; $R - 1 = 0.01133$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.42 DR11LOWZ: 0.37 CMB - smica_g30_ftl_full_pp: 8.69 plik_dx11dr2_HM_v18_TE: 931.28 Hubble - H070p6: 0.66 SN - JLA December_2013: 706.62

2.105 base_plikHM_EE_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02329	0.0235 ± 0.0011	$\sigma_8\Omega_m^{0.25}$	0.5776	0.576 ± 0.020	z_{drag}	1061.76	1062.1 ± 2.1
$\boldsymbol{\Omega_c h^2}$	0.11634	0.1149 ± 0.0040	$\sigma_8/h^{0.5}$	0.9438	0.943 ± 0.029	r_{drag}	147.05	$147.22^{+0.65}_{-0.75}$
$\boldsymbol{100\theta_{MC}}$	1.04015	1.04027 ± 0.00089	$\langle d^2\rangle^{1/2}$	2.365	2.364 ± 0.057	k_D	0.14158	0.1415 ± 0.0012
$\boldsymbol{\tau}$	0.0384	$0.050^{+0.013}_{-0.037}$	z_{re}	5.77	$6.75^{+2.4}_{-2.9}$	$100\theta_D$	0.15955	$0.1594^{+0.0011}_{-0.0012}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0179	$3.039^{+0.033}_{-0.058}$	$10^9 A_s$	2.045	$2.091^{+0.065}_{-0.12}$	z_{eq}	3337	3307 ± 76
$\boldsymbol{n_s}$	0.9693	0.974 ± 0.015	$10^9 A_s e^{-2\tau}$	1.8939	1.888 ± 0.023	k_{eq}	0.010184	0.01009 ± 0.00023
$\boldsymbol{y_{cal}}$	0.99999	0.9999 ± 0.0025	D_{40}	1240.9	1236 ± 31	$100\theta_{eq}$	0.8272	$0.834^{+0.016}_{-0.018}$
$\boldsymbol{A_{100}^{dustEE}}$	0.0809	0.0815 ± 0.0060	D_{220}	5914	5925 ± 170	$100\theta_{s,eq}$	0.4559	$0.4591^{+0.0078}_{-0.0087}$
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0472	0.0487 ± 0.0055	D_{810}	2569.4	2568 ± 37	$r_{drag}/D_V(0.57)$	0.07243	$0.0730^{+0.0014}_{-0.0016}$
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1047	0.099 ± 0.033	D_{1420}	830.9	832 ± 18	$H(0.57)$	93.87	$94.3^{+1.2}_{-1.5}$
$\boldsymbol{A_{143}^{dustEE}}$	0.0988	0.0998 ± 0.0073	D_{2000}	235.6	236.5 ± 6.9	$D_A(0.57)$	1365.7	1356 ± 32
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2220	0.224 ± 0.047	$n_{s,0.002}$	0.9693	0.974 ± 0.015	$F_{AP}(0.57)$	0.6713	0.6692 ± 0.0067
$\boldsymbol{A_{217}^{dustEE}}$	0.655	0.65 ± 0.13	Y_P	0.245786	0.24586 ± 0.00044	$f\sigma_8(0.57)$	0.4516	0.451 ± 0.013
H_0	69.16	$69.9^{+2.3}_{-2.6}$	Y_P^{BBN}	0.247114	0.24719 ± 0.00044	$\sigma_8(0.57)$	0.5882	$0.5927^{+0.0099}_{-0.015}$
Ω_Λ	0.7067	$0.714^{+0.027}_{-0.024}$	10^5D/H	2.429	$2.40^{+0.16}_{-0.19}$	$\chi^2_{lensing}$	9.12	10.6 ± 1.7
Ω_m	0.2933	$0.286^{+0.024}_{-0.027}$	Age/Gyr	13.712	13.68 ± 0.13	χ^2_{plikEE}	751.83	758.4 ± 4.1
$\Omega_m h^2$	0.14028	0.1390 ± 0.0032	z_*	1088.50	1088.2 ± 1.5	χ^2_{prior}	3.36	8.00 ± 3.5
$\Omega_m h^3$	0.09701	0.0972 ± 0.0016	r_*	144.68	$144.90^{+0.56}_{-0.69}$	χ^2_{CMB}	760.95	768.9 ± 4.4
σ_8	0.7848	$0.788^{+0.016}_{-0.018}$	$100\theta_*$	1.04024	1.04034 ± 0.00085			
$\sigma_8\Omega_m^{0.5}$	0.4250	0.421 ± 0.023	D_A/Gpc	13.908	$13.928^{+0.055}_{-0.065}$			

Best-fit $\chi^2_{eff} = 764.31$; $\bar{\chi}^2_{eff} = 776.92$; $R - 1 = 0.00961$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.12 plik_dx11dr2_HM_v18_EE: 751.83

2.106 base_plikHM_EE_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02289	0.02284 ± 0.00059	$\sigma_8/h^{0.5}$	0.9522	$0.957^{+0.018}_{-0.023}$	k_D	0.14127	$0.1411^{+0.0012}_{-0.00099}$
$\boldsymbol{\Omega_c h^2}$	0.11792	0.1177 ± 0.0015	$\langle d^2\rangle^{1/2}$	2.3770	$2.387^{+0.042}_{-0.050}$	$100\theta_D$	0.15997	$0.16007^{+0.00072}_{-0.00084}$
$\boldsymbol{100\theta_{MC}}$	1.03985	1.03995 ± 0.00077	z_{re}	5.24	$5.89^{+2.0}_{-2.7}$	z_{eq}	3364.9	3358 ± 33
$\boldsymbol{\tau}$	0.0330	< 0.0476	$10^9 A_s$	2.021	$2.046^{+0.047}_{-0.084}$	k_{eq}	0.010270	0.01025 ± 0.00010
$\boldsymbol{\ln(10^{10} A_s)}$	3.0064	$3.018^{+0.024}_{-0.040}$	$10^9 A_s e^{-2\tau}$	1.8923	1.888 ± 0.021	$100\theta_{eq}$	0.8206	0.8219 ± 0.0061
$\boldsymbol{n_s}$	0.9656	0.966 ± 0.011	D_{40}	1240.0	1238 ± 31	$100\theta_{s,eq}$	0.45279	0.4535 ± 0.0031
$\boldsymbol{y_{cal}}$	0.99980	0.9998 ± 0.0025	D_{220}	5854	5839 ± 120	$r_{drag}/D_V(0.57)$	0.071804	0.07190 ± 0.00049
$\boldsymbol{A_{100}^{dustEE}}$	0.0808	0.0810 ± 0.0060	D_{810}	2559.8	2555 ± 31	$H(0.57)$	93.31	93.34 ± 0.55
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0479	0.0481 ± 0.0055	D_{1420}	825.5	824 ± 14	$D_A(0.57)$	1379.7	1379 ± 12
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0978	0.0996 ± 0.033	D_{2000}	233.4	232.9 ± 5.0	$F_{AP}(0.57)$	0.67424	0.6739 ± 0.0024
$\boldsymbol{A_{143}^{dustEE}}$	0.0991	0.0993 ± 0.0073	$n_{s,0.002}$	0.9656	0.966 ± 0.011	$f\sigma_8(0.57)$	0.4553	$0.4575^{+0.0080}_{-0.010}$
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2233	0.224 ± 0.046	Y_P	0.245620	0.24559 ± 0.00026	$\sigma_8(0.57)$	0.5865	$0.5900^{+0.0082}_{-0.013}$
$\boldsymbol{A_{217}^{dustEE}}$	0.656	0.65 ± 0.13	Y_P^{BBN}	0.246948	0.24692 ± 0.00026	$\chi^2_{lensing}$	9.00	10.0 ± 1.4
H_0	68.16	68.25 ± 0.84	10^5D/H	2.497	$2.51^{+0.10}_{-0.11}$	χ^2_{plikEE}	752.02	758.2 ± 4.0
Ω_Λ	0.6955	0.6967 ± 0.0092	Age/Gyr	13.768	13.769 ± 0.067	χ^2_{6DF}	0.0029	0.056 ± 0.078
Ω_m	0.3045	0.3033 ± 0.0092	z_*	1089.11	1089.16 ± 0.76	χ^2_{MGS}	1.54	1.74 ± 0.70
$\Omega_m h^2$	0.14145	0.1412 ± 0.0014	r_*	144.574	$144.67^{+0.45}_{-0.54}$	$\chi^2_{DR11CMASS}$	2.49	3.10 ± 0.88
$\Omega_m h^3$	0.09641	0.0963 ± 0.0011	$100\theta_*$	1.03999	1.04009 ± 0.00077	$\chi^2_{DR11LOWZ}$	0.395	0.49 ± 0.53
σ_8	0.7862	$0.790^{+0.012}_{-0.017}$	D_A/Gpc	13.901	$13.910^{+0.046}_{-0.054}$	χ^2_{prior}	3.51	7.88 ± 3.5
$\sigma_8\Omega_m^{0.5}$	0.4338	$0.435^{+0.011}_{-0.012}$	z_{drag}	1060.96	1060.8 ± 1.3	χ^2_{CMB}	761.02	768.2 ± 4.1
$\sigma_8\Omega_m^{0.25}$	0.5840	$0.587^{+0.011}_{-0.014}$	r_{drag}	147.07	$147.19^{+0.59}_{-0.70}$	χ^2_{BAO}	4.43	5.39 ± 1.3

Best-fit $\chi^2_{eff} = 768.95$; $\bar{\chi}^2_{eff} = 781.51$; $R - 1 = 0.01617$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.49 DR11LOWZ: 0.40 CMB - smica_g30_ftl_full_pp: 9.00 plik_dx11dr2_HM_v18_EE: 752.02

2.107 base_plikHM_EE_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02302	0.02294 ± 0.00058	$\langle d^2 \rangle^{1/2}$	2.3737	$2.383^{+0.041}_{-0.050}$	$z_{\rm eq}$	3363.5	3354 ± 32
$\boldsymbol{\Omega_c h^2}$	0.11773	0.1174 ± 0.0014	$z_{\rm re}$	5.14	$5.85^{+1.9}_{-2.7}$	$k_{\rm eq}$	0.010266	0.010238 ± 0.000099
$\boldsymbol{100\theta_{MC}}$	1.03993	1.03998 ± 0.00077	$10^9 A_{\rm s}$	2.021	$2.047^{+0.047}_{-0.084}$	$100\theta_{\rm eq}$	0.8213	0.8228 ± 0.0058
$\boldsymbol{\tau}$	0.0324	< 0.0475	$10^9 A_{\rm s} e^{-2\tau}$	1.8943	$1.889^{+0.023}_{-0.020}$	$100\theta_{\rm s,eq}$	0.45306	0.4539 ± 0.0030
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0063	$3.018^{+0.024}_{-0.040}$	D_{40}	1242.8	1239 ± 31	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071902	0.07200 ± 0.00047
$\boldsymbol{n_{\rm s}}$	0.9657	0.967 ± 0.011	D_{220}	5877	5855 ± 120	$H(0.57)$	93.46	93.45 ± 0.53
$\boldsymbol{y_{\rm cal}}$	0.99976	0.9998 ± 0.0025	D_{810}	2563.4	2558 ± 31	$D_{\rm A}(0.57)$	1376.6	1376 ± 12
$\boldsymbol{A^{{\rm dust}EE}_{100}}$	0.0810	0.0810 ± 0.0060	D_{1420}	827.2	825 ± 14	$F_{\rm AP}(0.57)$	0.67373	0.6734 ± 0.0022
$\boldsymbol{A^{{\rm dust}EE}_{100\times143}}$	0.0478	0.0481 ± 0.0055	D_{2000}	234.06	233.5 ± 4.9	$f\sigma_8(0.57)$	0.4541	$0.4564^{+0.0080}_{-0.010}$
$\boldsymbol{A^{{\rm dust}EE}_{100\times217}}$	0.0989	0.0996 ± 0.033	$n_{\rm s,0.002}$	0.9657	0.967 ± 0.011	$\sigma_8(0.57)$	0.5861	$0.5898^{+0.0082}_{-0.013}$
$\boldsymbol{A^{{\rm dust}EE}_{143}}$	0.0989	0.0993 ± 0.0073	$Y_{\rm P}$	0.245680	$0.24564^{+0.00027}_{-0.00024}$	$\chi^2_{\rm lensing}$	9.04	10.0 ± 1.4
$\boldsymbol{A^{{\rm dust}EE}_{143\times217}}$	0.2218	0.224 ± 0.046	$Y_{\rm P}^{\rm BBN}$	0.247007	$0.24696^{+0.00027}_{-0.00024}$	$\chi^2_{\rm plikEE}$	751.82	758.1 ± 3.9
$\boldsymbol{A^{{\rm dust}EE}_{217}}$	0.649	0.65 ± 0.13	10^5D/H	2.473	$2.491^{+0.095}_{-0.11}$	$\chi^2_{\rm H070p6}$	0.454	0.49 ± 0.32
H_0	68.37	68.43 ± 0.80	Age/Gyr	13.751	13.757 ± 0.065	$\chi^2_{\rm JLA}$	706.553	706.60 ± 0.14
Ω_Λ	0.6975	$0.6987^{+0.0093}_{-0.0084}$	z_*	1088.93	1089.02 ± 0.73	$\chi^2_{\rm 6DF}$	0.0000	0.051 ± 0.073
$\Omega_{\rm m}$	0.3025	0.3013 ± 0.0086	r_*	144.520	$144.66^{+0.45}_{-0.54}$	$\chi^2_{\rm MGS}$	1.68	1.89 ± 0.68
$\Omega_{\rm m} h^2$	0.14139	0.1410 ± 0.0014	$100\theta_*$	1.04005	1.04011 ± 0.00077	$\chi^2_{\rm DR11CMASS}$	2.53	3.12 ± 0.89
$\Omega_{\rm m} h^3$	0.09667	0.0965 ± 0.0011	$D_{\rm A}$/Gpc	13.895	$13.908^{+0.047}_{-0.053}$	$\chi^2_{\rm DR11LOWZ}$	0.293	0.38 ± 0.44
σ_8	0.7850	$0.790^{+0.012}_{-0.017}$	$z_{\rm drag}$	1061.27	1061.1 ± 1.3	$\chi^2_{\rm prior}$	3.60	7.85 ± 3.4
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4317	0.433 ± 0.011	$r_{\rm drag}$	146.97	$147.15^{+0.60}_{-0.70}$	$\chi^2_{\rm CMB}$	760.86	768.1 ± 4.1
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5822	$0.585^{+0.011}_{-0.014}$	$k_{\rm D}$	0.14147	$0.1412^{+0.0011}_{-0.00099}$	$\chi^2_{\rm BAO}$	4.50	5.43 ± 1.4
$\sigma_8/h^{0.5}$	0.9494	$0.955^{+0.017}_{-0.022}$	$100\theta_{\rm D}$	0.15981	$0.15995^{+0.00070}_{-0.00081}$			

Best-fit $\chi^2_{\rm eff} = 1475.97$; $\bar{\chi}^2_{\rm eff} = 1488.50$; $R - 1 = 0.01677$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.68 DR11CMASS: 2.53 DR11LOWZ: 0.29 CMB - smica_g30_ftl_full_pp: 9.04 plik_dx11dr2_HM_v18_EE: 751.82 Hubble - H070p6: 0.45 SN - JLA December_2013: 706.55

2.108 base_CamSpecHM_TE_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.022404	0.02240 ± 0.00026 $(+0.4\sigma)$	$\sigma_8/h^{0.5}$	0.9888	0.988 ± 0.015 $(+0.4\sigma)$	$r_{\rm drag}$	148.031	148.01 ± 0.50 $(+0.9\sigma)$
$\mathbf{\Omega_c h^2}$	0.11634	0.1164 ± 0.0022 (-0.9σ)	$\langle d^2\rangle^{1/2}$	2.4290	2.427 ± 0.039 (-0.3σ)	$k_{\rm D}$	0.13992	0.13994 ± 0.00055 (-0.7σ)
$\mathbf{100\theta_{MC}}$	1.041296	1.04127 ± 0.00049 $(+0.6\sigma)$	$z_{\rm re}$	10.34	$10.0^{+2.5}_{-1.9}$ $(+0.8\sigma)$	$100\theta_{\rm D}$	0.160869	0.16087 ± 0.00031 (-0.1σ)
$\boldsymbol{\tau}$	0.0834	0.081 ± 0.025 $(+0.9\sigma)$	$10^9 A_{\rm s}$	2.189	2.184 ± 0.090 $(+0.8\sigma)$	$z_{\rm eq}$	3315.5	3318 ± 49 (-0.9σ)
$\mathbf{ln(10^{10} A_s)}$	3.0860	3.083 ± 0.041 $(+0.8\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	1.8527	1.854 ± 0.023 (-0.7σ)	$100\theta_{\rm eq}$	0.8295	0.8292 ± 0.0097 $(+0.9\sigma)$
$\boldsymbol{n_{\rm s}}$	0.9794	0.979 ± 0.012 $(+1.1\sigma)$	D_{40}	1196.8	1199 ± 26 (-1.0σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07259	0.07256 ± 0.00077 $(+1.0\sigma)$
$\boldsymbol{y_{\rm cal}}$	1.00003	1.0001 ± 0.0025 $(+0.0\sigma)$	D_{220}	5656	5659 ± 79 (-0.8σ)	$H(0.57)$	93.475	93.47 ± 0.46 $(+0.8\sigma)$
$\boldsymbol{c_{TE}}$	1.0001	1.0005 ± 0.0098	D_{810}	2519.3	2520 ± 31 (-0.0σ)	$D_{\rm A}(0.57)$	1372.0	1373 ± 13 (-0.9σ)
H_0	68.81	68.8 ± 1.0 $(+0.9\sigma)$	D_{1420}	815.0	815 ± 13 $(+0.4\sigma)$	$F_{\rm AP}(0.57)$	0.67163	0.6718 ± 0.0033 (-0.9σ)
Ω_Λ	0.7056	0.705 ± 0.013 $(+0.9\sigma)$	$n_{\rm s,0.002}$	0.9794	0.979 ± 0.012 $(+1.1\sigma)$	$f\sigma_8(0.57)$	0.4723	0.4718 ± 0.0074 $(+0.4\sigma)$
$\Omega_{\rm m}$	0.2944	0.295 ± 0.013 (-0.9σ)	$Y_{\rm P}$	0.244986	0.24499 ± 0.00011 (-3.1σ)	$\sigma_8(0.57)$	0.6144	0.614 ± 0.012 $(+0.9\sigma)$
$\Omega_{\rm m} h^2$	0.13939	0.1395 ± 0.0020 (-0.9σ)	Age/Gyr	13.7668	13.768 ± 0.041 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246318	$0.24631^{+0.00012}_{-0.00011}$ (-3.1σ)
$\Omega_{\rm m} h^3$	0.095916	0.09591 ± 0.00049 (-0.1σ)	z_*	1089.541	1089.56 ± 0.45 (-0.7σ)	$\chi^2_{\rm lensing}$	8.60	9.61 ± 1.4 (-0.1σ)
σ_8	0.8202	0.819 ± 0.014 $(+0.8\sigma)$	r_*	145.361	145.34 ± 0.50 $(+0.9\sigma)$	$\chi^2_{\rm CamSpec}$	2694.46	2699.4 ± 3.1
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4450	0.4449 ± 0.0094 (-0.4σ)	$100\theta_*$	1.041486	1.04146 ± 0.00048 $(+0.6\sigma)$	$\chi^2_{\rm prior}$	10.03	12.0 ± 2.0 $(+1.2\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6041	0.6037 ± 0.0097 $(+0.1\sigma)$	$z_{\rm drag}$	1059.74	1059.74 ± 0.53 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	2703.07	2709.0 ± 3.5 $(+418.3\sigma)$

Best-fit $\chi^2_{\rm eff} = 2713.09$; $\Delta\chi^2_{\rm eff} = 1771.23$; $\bar{\chi}^2_{\rm eff} = 2721.01$; $\Delta\bar{\chi}^2_{\rm eff} = 1765.13$; $R - 1 = 0.00694$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 8.60 (Δ -0.11) CamSpec like_v9.10CMH_unified: 2694.46

2.109 base_CamSpecHM_TE_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02230 ± 0.00023 (-0.0σ)	z_{re}	$9.10^{+2.3}_{-1.7}$ $(+0.5\sigma)$	$100\theta_{eq}$	0.8226 ± 0.0056 $(+0.5\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1179 ± 0.0013 (-0.5σ)	$10^9 A_s$	2.140 ± 0.072 $(+0.4\sigma)$	$r_{drag}/D_V(0.57)$	0.07203 ± 0.00044 $(+0.5\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04109 ± 0.00045 $(+0.3\sigma)$	$10^9 A_s e^{-2\tau}$	1.859 ± 0.023 (-0.4σ)	$H(0.57)$	93.17 ± 0.29 $(+0.4\sigma)$
$\boldsymbol{\tau}$	$0.070^{+0.023}_{-0.020}$ $(+0.5\sigma)$	D_{40}	1205 ± 26 (-0.8σ)	$D_A(0.57)$	1381.5 ± 8.0 (-0.4σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.063 ± 0.034 $(+0.4\sigma)$	D_{220}	5658 ± 81 (-0.8σ)	$F_{AP}(0.57)$	0.6741 ± 0.0019 (-0.5σ)
$\boldsymbol{n_s}$	0.974 ± 0.010 $(+0.8\sigma)$	D_{810}	2520 ± 31 (-0.0σ)	$f\sigma_8(0.57)$	0.4718 ± 0.0074 $(+0.4\sigma)$
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 $(+0.0\sigma)$	D_{1420}	813 ± 12 $(+0.3\sigma)$	$\sigma_8(0.57)$	0.608 ± 0.011 $(+0.6\sigma)$
$\boldsymbol{c_{TE}}$	1.0007 ± 0.0098	$n_{s,0.002}$	0.974 ± 0.010 $(+0.8\sigma)$	Y_P^{BBN}	0.246269 ± 0.000099 (-4.0σ)
H_0	68.09 ± 0.59 $(+0.5\sigma)$	Y_P	$0.244942^{+0.000091}_{-0.00011}$ (-4.0σ)	$\chi^2_{lensing}$	9.69 ± 1.4 (-0.0σ)
Ω_Λ	0.6961 ± 0.0076 $(+0.5\sigma)$	Age/Gyr	13.791 ± 0.031 (-0.2σ)	$\chi^2_{CamSpec}$	2699.2 ± 3.0
Ω_m	0.3039 ± 0.0076 (-0.5σ)	z_*	1089.82 ± 0.34 (-0.2σ)	χ^2_{6DF}	0.043 ± 0.060 (-0.1σ)
$\Omega_m h^2$	0.1409 ± 0.0013 (-0.5σ)	r_*	145.03 ± 0.34 $(+0.5\sigma)$	χ^2_{MGS}	1.84 ± 0.62 $(+0.5\sigma)$
$\Omega_m h^3$	0.09590 ± 0.00051 (-0.1σ)	$100\theta_*$	1.04129 ± 0.00045 $(+0.4\sigma)$	$\chi^2_{DR11CMASS}$	2.99 ± 0.82 $(+0.2\sigma)$
σ_8	0.815 ± 0.013 $(+0.5\sigma)$	z_{drag}	1059.60 ± 0.52 (-0.1σ)	$\chi^2_{DR11LOWZ}$	0.36 ± 0.40 (-0.4σ)
$\sigma_8 \Omega_m^{0.5}$	0.4492 ± 0.0079 $(+0.1\sigma)$	r_{drag}	147.73 ± 0.37 $(+0.5\sigma)$	χ^2_{prior}	12.0 ± 1.9 $(+1.1\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.6051 ± 0.0095 $(+0.3\sigma)$	k_D	0.14015 ± 0.00049 (-0.4σ)	χ^2_{CMB}	2708.9 ± 3.4 $(+440.2\sigma)$
$\sigma_8/h^{0.5}$	0.988 ± 0.015 $(+0.4\sigma)$	$100\theta_D$	0.16094 ± 0.00030 $(+0.1\sigma)$	χ^2_{BAO}	5.23 ± 1.2 $(+0.2\sigma)$
$\langle d^2 \rangle^{1/2}$	2.429 ± 0.039 (-0.2σ)	z_{eq}	3351 ± 30 (-0.5σ)		

$\bar{\chi}^2_{eff} = 2726.13$; $\Delta\bar{\chi}^2_{eff} = 1765.90$; $R - 1 = 0.01181$

2.110 base_CamSpecHM_TE_lensing_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00023 (-0.1σ)	$10^9 A_s$	2.146 ± 0.072 $(+0.4\sigma)$	$H(0.57)$	93.22 ± 0.29 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1177 ± 0.0012 (-0.5σ)	$10^9 A_s e^{-2\tau}$	1.859 ± 0.022 (-0.4σ)	$D_A(0.57)$	1380.1 ± 7.7 (-0.4σ)
$\boldsymbol{100\theta_{MC}}$	1.04112 ± 0.00045 $(+0.3\sigma)$	D_{40}	1204 ± 26 (-0.8σ)	$F_{AP}(0.57)$	0.6737 ± 0.0019 (-0.5σ)
$\boldsymbol{\tau}$	$0.072^{+0.022}_{-0.020}$ $(+0.5\sigma)$	D_{220}	5659 ± 81 (-0.9σ)	$f\sigma_8(0.57)$	0.4719 ± 0.0074 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.066 ± 0.033 $(+0.4\sigma)$	D_{810}	2520 ± 31 (-0.0σ)	$\sigma_8(0.57)$	0.609 ± 0.010 $(+0.6\sigma)$
$\boldsymbol{n_s}$	0.975 ± 0.010 $(+0.8\sigma)$	D_{1420}	814 ± 12 $(+0.3\sigma)$	Y_P^{BBN}	0.246279 ± 0.000098 (-4.1σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 $(+0.0\sigma)$	$n_{s,0.002}$	0.975 ± 0.010 $(+0.8\sigma)$	$\chi^2_{lensing}$	9.67 ± 1.4 (-0.0σ)
$\boldsymbol{c_{TE}}$	1.0007 ± 0.0098	Y_P	$0.244951^{+0.000091}_{-0.00011}$ (-4.1σ)	$\chi^2_{CamSpec}$	2699.1 ± 3.0
H_0	68.20 ± 0.57 $(+0.5\sigma)$	Age/Gyr	13.787 ± 0.031 (-0.2σ)	χ^2_{H070p6}	0.56 ± 0.25 (-0.4σ)
Ω_Λ	0.6974 ± 0.0073 $(+0.5\sigma)$	z_*	1089.77 ± 0.33 (-0.2σ)	χ^2_{JLA}	706.60 ± 0.12 (-0.4σ)
Ω_m	0.3026 ± 0.0073 (-0.5σ)	r_*	145.07 ± 0.33 $(+0.5\sigma)$	χ^2_{6DF}	0.043 ± 0.061 $(+0.0\sigma)$
$\Omega_m h^2$	0.1407 ± 0.0012 (-0.5σ)	$100\theta_*$	1.04132 ± 0.00045 $(+0.4\sigma)$	χ^2_{MGS}	1.95 ± 0.61 $(+0.5\sigma)$
$\Omega_m h^3$	0.09592 ± 0.00050 (-0.1σ)	z_{drag}	1059.63 ± 0.51 (-0.2σ)	$\chi^2_{DR11CMASS}$	3.06 ± 0.88 $(+0.3\sigma)$
σ_8	0.816 ± 0.013 $(+0.5\sigma)$	r_{drag}	147.76 ± 0.37 $(+0.5\sigma)$	$\chi^2_{DR11LOWZ}$	0.29 ± 0.34 (-0.4σ)
$\sigma_8 \Omega_m^{0.5}$	0.4486 ± 0.0079 $(+0.1\sigma)$	k_D	0.14013 ± 0.00049 (-0.4σ)	χ^2_{prior}	12.0 ± 1.9 $(+1.1\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.6049 ± 0.0095 $(+0.3\sigma)$	$100\theta_D$	0.16092 ± 0.00030 $(+0.1\sigma)$	χ^2_{CMB}	2708.8 ± 3.3 $(+440.9\sigma)$
$\sigma_8/h^{0.5}$	0.988 ± 0.015 $(+0.4\sigma)$	z_{eq}	3346 ± 29 (-0.5σ)	χ^2_{BAO}	5.35 ± 1.3 $(+0.3\sigma)$
$\langle d^2 \rangle^{1/2}$	2.429 ± 0.039 (-0.2σ)	$100\theta_{eq}$	0.8235 ± 0.0055 $(+0.5\sigma)$		
z_{re}	$9.24^{+2.2}_{-1.6}$ $(+0.5\sigma)$	$r_{drag}/D_V(0.57)$	0.07211 ± 0.00042 $(+0.5\sigma)$		

$\bar{\chi}^2_{eff} = 3433.23$; $\Delta\bar{\chi}^2_{eff} = 1765.68$; $R - 1 = 0.01156$

2.111 base_CamSpecHM_EE_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02347	$0.02361^{+0.00082}_{-0.00096}$ $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9408	$0.945^{+0.027}_{-0.024}$ $(+0.1\sigma)$	$r_{\rm drag}$	146.40	146.53 ± 0.55 (-1.0σ)
$\boldsymbol{\Omega_c h^2}$	0.11800	0.1170 ± 0.0034 $(+0.5\sigma)$	$\langle d^2\rangle^{1/2}$	2.371	2.382 ± 0.051 $(+0.3\sigma)$	$k_{\rm D}$	0.14241	0.14233 ± 0.00098 $(+0.7\sigma)$
$\boldsymbol{100\theta_{\rm MC}}$	1.03981	1.03997 ± 0.00070 (-0.3σ)	$z_{\rm re}$	4.52	$5.89^{+1.7}_{-2.9}$ (-0.3σ)	$100\theta_{\rm D}$	0.15919	0.15914 ± 0.00094 (-0.3σ)
$\boldsymbol{\tau}$	0.0277	< 0.0493 (-0.3σ)	$10^9 A_{\rm s}$	2.003	$2.052^{+0.049}_{-0.099}$ (-0.4σ)	$z_{\rm eq}$	3381	3361 ± 64 $(+0.7\sigma)$
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	2.9973	$3.021^{+0.025}_{-0.048}$ (-0.4σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8953	1.887 ± 0.023 (-0.1σ)	$100\theta_{\rm eq}$	0.8194	$0.824^{+0.013}_{-0.015}$ (-0.6σ)
$\boldsymbol{n_{\rm s}}$	0.9616	0.965 ± 0.012 (-0.6σ)	D_{40}	1256.4	1250 ± 25 $(+0.5\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07185	$0.0722^{+0.0012}_{-0.0014}$ (-0.5σ)
$\boldsymbol{y_{\rm cal}}$	1.00005	0.9999 ± 0.0026 $(+0.0\sigma)$	D_{220}	5936	5927 ± 150 $(+0.0\sigma)$	$H(0.57)$	93.74	$94.02^{+0.97}_{-1.2}$ (-0.2σ)
$\boldsymbol{c_{EE}}$	0.9986	0.9964 ± 0.0092	D_{810}	2561.4	2553 ± 37 (-0.4σ)	$D_{\rm A}(0.57)$	1372.1	1365^{+29}_{-26} $(+0.3\sigma)$
H_0	68.61	$69.1^{+1.8}_{-2.1}$ (-0.3σ)	D_{1420}	826.8	825 ± 16 (-0.4σ)	$F_{\rm AP}(0.57)$	0.6736	0.6721 ± 0.0057 $(+0.4\sigma)$
Ω_Λ	0.6981	0.703 ± 0.022 (-0.4σ)	$n_{\rm s,0.002}$	0.9616	0.965 ± 0.012 (-0.6σ)	$f\sigma_8(0.57)$	0.4507	$0.452^{+0.013}_{-0.011}$ $(+0.1\sigma)$
$\Omega_{\rm m}$	0.3019	0.297 ± 0.022 $(+0.4\sigma)$	$Y_{\rm P}$	0.245439	0.24548 ± 0.00035 (-0.9σ)	$\sigma_8(0.57)$	0.5820	$0.5879^{+0.0077}_{-0.013}$ (-0.4σ)
$\Omega_{\rm m} h^2$	0.14212	0.1413 ± 0.0027 $(+0.7\sigma)$	Age/Gyr	13.711	$13.69^{+0.12}_{-0.10}$ $(+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246760	0.24681 ± 0.00035 (-0.9σ)
$\Omega_{\rm m} h^3$	0.09750	0.0976 ± 0.0013 $(+0.3\sigma)$	z_*	1088.41	1088.2 ± 1.2 $(+0.0\sigma)$	$\chi^2_{\rm lensing}$	9.35	10.7 ± 1.7 $(+0.1\sigma)$
σ_8	0.7793	$0.785^{+0.014}_{-0.016}$ (-0.2σ)	r_*	144.11	$144.26^{+0.47}_{-0.54}$ (-1.1σ)	$\chi^2_{\rm CamSpec}$	2186.13	2190.5 ± 3.0
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4282	0.427 ± 0.020 $(+0.3\sigma)$	$100\theta_*$	1.03989	1.04004 ± 0.00068 (-0.4σ)	$\chi^2_{\rm prior}$	10.05	12.1 ± 2.0 $(+1.2\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5777	$0.579^{+0.019}_{-0.017}$ $(+0.2\sigma)$	$z_{\rm drag}$	1062.30	$1062.5^{+1.7}_{-1.9}$ $(+0.2\sigma)$	$\chi^2_{\rm CMB}$	2195.47	2201.1 ± 3.4 $(+325.0\sigma)$

Best-fit $\chi^2_{\rm eff} = 2205.52$; $\Delta\chi^2_{\rm eff} = 1441.21$; $\bar{\chi}^2_{\rm eff} = 2213.18$; $\Delta\bar{\chi}^2_{\rm eff} = 1436.26$; $R - 1 = 0.00705$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.35 (Δ 0.22) CamSpec like_v9.10CMH_unified: 2186.12

2.112 base_CamSpecHM_EE_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02334 \pm 0.00052 \quad (+0.8\sigma)$	z_{re}	$5.60^{+1.7}_{-2.6} \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.8192 \pm 0.0057 \quad (-0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1181 \pm 0.0014 \quad (+0.3\sigma)$	$10^9 A_s$	$2.037^{+0.044}_{-0.080} \quad (-0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07182 \pm 0.00047 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.03988 \pm 0.00063 \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.887 \pm 0.022 \quad (-0.1\sigma)$	$H(0.57)$	$93.65 \pm 0.50 \quad (+0.6\sigma)$
$\boldsymbol{\tau}$	$< 0.0451 \quad (-0.1\sigma)$	D_{40}	$1251 \pm 26 \quad (+0.4\sigma)$	$D_A(0.57)$	$1374 \pm 11 \quad (-0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.014^{+0.022}_{-0.039} \quad (-0.1\sigma)$	D_{220}	$5891 \pm 110 \quad (+0.4\sigma)$	$F_{AP}(0.57)$	$0.6739 \pm 0.0023 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.9622 \pm 0.0088 \quad (-0.4\sigma)$	D_{810}	$2549 \pm 32 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4553^{+0.0075}_{-0.0097} \quad (-0.2\sigma)$
$\boldsymbol{y_{cal}}$	$0.9998^{+0.0024}_{-0.0028} \quad (-0.0\sigma)$	D_{1420}	$822 \pm 13 \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.5873^{+0.0072}_{-0.012} \quad (-0.3\sigma)$
$\boldsymbol{c_{EE}}$	0.9965 ± 0.0091	$n_{s,0.002}$	$0.9622 \pm 0.0088 \quad (-0.4\sigma)$	Y_P^{BBN}	$0.24670 \pm 0.00021 \quad (-0.8\sigma)$
H_0	$68.49 \pm 0.79 \quad (+0.3\sigma)$	Y_P	$0.24538 \pm 0.00022 \quad (-0.8\sigma)$	$\chi^2_{lensing}$	$10.3 \pm 1.5 \quad (+0.2\sigma)$
Ω_Λ	$0.6969 \pm 0.0088 \quad (+0.0\sigma)$	Age/Gyr	$13.722 \pm 0.059 \quad (-0.7\sigma)$	$\chi^2_{CamSpec}$	2190.1 ± 2.9
Ω_m	$0.3031 \pm 0.0088 \quad (-0.0\sigma)$	z_*	$1088.58 \pm 0.66 \quad (-0.7\sigma)$	χ^2_{6DF}	$0.052 \pm 0.075 \quad (-0.0\sigma)$
$\Omega_m h^2$	$0.1421 \pm 0.0013 \quad (+0.7\sigma)$	r_*	$144.18 \pm 0.42 \quad (-1.0\sigma)$	χ^2_{MGS}	$1.67 \pm 0.66 \quad (-0.1\sigma)$
$\Omega_m h^3$	$0.09731 \pm 0.00098 \quad (+0.9\sigma)$	$100\theta_*$	$1.03998 \pm 0.00063 \quad (-0.1\sigma)$	$\chi^2_{DR11CMASS}$	$3.07 \pm 0.80 \quad (-0.0\sigma)$
σ_8	$0.787^{+0.011}_{-0.016} \quad (-0.3\sigma)$	z_{drag}	$1062.0 \pm 1.1 \quad (+0.9\sigma)$	$\chi^2_{DR11LOWZ}$	$0.53 \pm 0.55 \quad (+0.1\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.433 \pm 0.010 \quad (-0.2\sigma)$	r_{drag}	$146.52 \pm 0.54 \quad (-1.0\sigma)$	χ^2_{prior}	$12.0 \pm 2.0 \quad (+1.2\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.584^{+0.011}_{-0.013} \quad (-0.2\sigma)$	k_D	$0.14218 \pm 0.00089 \quad (+1.0\sigma)$	χ^2_{CMB}	$2200.4 \pm 3.1 \quad (+345.8\sigma)$
$\sigma_8/h^{0.5}$	$0.951^{+0.016}_{-0.021} \quad (-0.3\sigma)$	$100\theta_D$	$0.15938 \pm 0.00064 \quad (-0.9\sigma)$	χ^2_{BAO}	$5.33 \pm 1.2 \quad (-0.0\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.391^{+0.036}_{-0.046} \quad (+0.1\sigma)$	z_{eq}	$3380 \pm 30 \quad (+0.7\sigma)$		

$\bar{\chi}^2_{eff} = 2217.68$; $\Delta\bar{\chi}^2_{eff} = 1436.17$; $R - 1 = 0.00885$

2.113 base_CamSpecHM_EE_lensing_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02342 \pm 0.00051 \quad (+0.8\sigma)$	$10^9 A_s$	$2.038^{+0.044}_{-0.081} \quad (-0.1\sigma)$	$H(0.57)$	$93.74 \pm 0.48 \quad (+0.6\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1179 \pm 0.0013 \quad (+0.3\sigma)$	$10^9 A_s e^{-2\tau}$	$1.887 \pm 0.022 \quad (-0.1\sigma)$	$D_A(0.57)$	$1372 \pm 11 \quad (-0.4\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.03991 \pm 0.00063 \quad (-0.1\sigma)$	D_{40}	$1251 \pm 26 \quad (+0.4\sigma)$	$F_{AP}(0.57)$	$0.6734 \pm 0.0021 \quad (+0.0\sigma)$
$\boldsymbol{\tau}$	$< 0.0454 \quad (-0.1\sigma)$	D_{220}	$5903 \pm 110 \quad (+0.4\sigma)$	$f\sigma_8(0.57)$	$0.4545^{+0.0073}_{-0.0097} \quad (-0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.014^{+0.022}_{-0.039} \quad (-0.1\sigma)$	D_{810}	$2551 \pm 32 \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.5873^{+0.0072}_{-0.012} \quad (-0.2\sigma)$
$\boldsymbol{n_s}$	$0.9626 \pm 0.0088 \quad (-0.4\sigma)$	D_{1420}	$823 \pm 13 \quad (-0.1\sigma)$	Y_P^{BBN}	$0.24674 \pm 0.00021 \quad (-0.9\sigma)$
$\boldsymbol{y_{cal}}$	$0.9998^{+0.0024}_{-0.0028} \quad (-0.0\sigma)$	$n_{s,0.002}$	$0.9626 \pm 0.0088 \quad (-0.4\sigma)$	$\chi^2_{lensing}$	$10.3 \pm 1.5 \quad (+0.2\sigma)$
$\boldsymbol{c_{EE}}$	0.9965 ± 0.0091	Y_P	$0.24541 \pm 0.00021 \quad (-0.9\sigma)$	$\chi^2_{CamSpec}$	2190.0 ± 2.8
H_0	$68.64 \pm 0.75 \quad (+0.3\sigma)$	Age/Gyr	$13.713 \pm 0.057 \quad (-0.7\sigma)$	χ^2_{H070p6}	$0.40 \pm 0.27 \quad (-0.3\sigma)$
Ω_Λ	$0.6986 \pm 0.0083 \quad (-0.0\sigma)$	z_*	$1088.47 \pm 0.63 \quad (-0.7\sigma)$	χ^2_{JLA}	$706.60 \pm 0.13 \quad (-0.0\sigma)$
Ω_m	$0.3014 \pm 0.0083 \quad (+0.0\sigma)$	r_*	$144.18 \pm 0.42 \quad (-1.0\sigma)$	χ^2_{6DF}	$0.046 \pm 0.066 \quad (-0.1\sigma)$
$\Omega_m h^2$	$0.1420 \pm 0.0012 \quad (+0.7\sigma)$	$100\theta_*$	$1.04000 \pm 0.00063 \quad (-0.1\sigma)$	χ^2_{MGS}	$1.79 \pm 0.64 \quad (-0.1\sigma)$
$\Omega_m h^3$	$0.09743 \pm 0.00097 \quad (+0.8\sigma)$	z_{drag}	$1062.2 \pm 1.1 \quad (+0.9\sigma)$	$\chi^2_{DR11CMASS}$	$3.06 \pm 0.77 \quad (-0.1\sigma)$
σ_8	$0.786^{+0.010}_{-0.016} \quad (-0.2\sigma)$	r_{drag}	$146.50 \pm 0.54 \quad (-1.0\sigma)$	$\chi^2_{DR11LOWZ}$	$0.43 \pm 0.46 \quad (+0.1\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.432 \pm 0.010 \quad (-0.2\sigma)$	k_D	$0.14226 \pm 0.00088 \quad (+1.0\sigma)$	χ^2_{prior}	$12.0 \pm 2.0 \quad (+1.2\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.583^{+0.010}_{-0.013} \quad (-0.2\sigma)$	$100\theta_D$	$0.15930 \pm 0.00063 \quad (-0.9\sigma)$	χ^2_{CMB}	$2200.3 \pm 3.1 \quad (+347.3\sigma)$
$\sigma_8 / h^{0.5}$	$0.949^{+0.016}_{-0.021} \quad (-0.3\sigma)$	z_{eq}	$3377 \pm 30 \quad (+0.7\sigma)$	χ^2_{BAO}	$5.32 \pm 1.2 \quad (-0.1\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.388^{+0.036}_{-0.046} \quad (+0.1\sigma)$	$100\theta_{eq}$	$0.8200^{+0.0053}_{-0.0059} \quad (-0.5\sigma)$		
z_{re}	$5.61^{+1.7}_{-2.5} \quad (-0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07191 \pm 0.00045 \quad (-0.2\sigma)$		

$\bar{\chi}^2_{eff} = 2924.64$; $\Delta\bar{\chi}^2_{eff} = 1436.14$; $R - 1 = 0.00777$

2.114 base_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022277	0.02226 ± 0.00023	$\Omega_m h^2$	0.14135	0.1415 ± 0.0019	z_{drag}	1059.589	1059.57 ± 0.47
$\boldsymbol{\Omega_c h^2}$	0.11843	0.1186 ± 0.0020	$\Omega_m h^3$	0.095931	0.09591 ± 0.00045	r_{drag}	147.614	147.60 ± 0.43
$\boldsymbol{100\theta_{MC}}$	1.041030	1.04103 ± 0.00046	σ_8	0.8152	0.8149 ± 0.0093	k_D	0.140247	0.14024 ± 0.00047
$\boldsymbol{\tau}$	0.0666	0.066 ± 0.016	$\sigma_8\Omega_m^{0.5}$	0.4516	0.4521 ± 0.0088	$100\theta_D$	0.160954	0.16098 ± 0.00027
$\boldsymbol{\ln(10^{10}A_s)}$	3.0636	3.062 ± 0.029	$\sigma_8\Omega_m^{0.25}$	0.6068	0.6069 ± 0.0076	z_{eq}	3362.4	3365 ± 44
$\boldsymbol{n_s}$	0.9683	0.9677 ± 0.0060	$\sigma_8/h^{0.5}$	0.9896	0.990 ± 0.011	k_{eq}	0.010263	0.01027 ± 0.00014
$\boldsymbol{y_{cal}}$	1.00012	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4469	2.448 ± 0.026	$100\theta_{eq}$	0.8203	0.8199 ± 0.0086
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.5 ± 6.6	z_{re}	8.89	$8.75^{+1.7}_{-1.4}$	$100\theta_{s,eq}$	0.45311	0.4529 ± 0.0044
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.141	2.139 ± 0.063	$r_{drag}/D_V(0.57)$	0.07185	0.07182 ± 0.00069
$\boldsymbol{A_{143}^{tSZ}}$	7.21	5.04 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8734	1.874 ± 0.013	$H(0.57)$	93.085	93.07 ± 0.41
$\boldsymbol{A_{100}^{PS}}$	253.9	260 ± 28	D_{40}	1224.6	1226 ± 13	$D_A(0.57)$	1384.4	1385 ± 12
$\boldsymbol{A_{143}^{PS}}$	39.2	44 ± 8	D_{220}	5717.1	5717 ± 41	$F_{AP}(0.57)$	0.67486	0.6751 ± 0.0031
$\boldsymbol{A_{143\times217}^{PS}}$	32.8	39^{+10}_{-10}	D_{810}	2532.5	2532 ± 14	$f\sigma_8(0.57)$	0.4728	0.4728 ± 0.0053
$\boldsymbol{A_{217}^{PS}}$	97.3	96 ± 10	D_{1420}	815.0	814.5 ± 5.1	$\sigma_8(0.57)$	0.6076	0.6072 ± 0.0084
$\boldsymbol{A^{kSZ}}$	0.00	< 4.92	D_{2000}	230.22	230.0 ± 1.9	f_{2000}^{143}	29.99	30.4 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.45 ± 1.9	$n_{s,0.002}$	0.9683	0.9677 ± 0.0060	$f_{2000}^{143\times217}$	32.58	32.8 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.04	9.08 ± 1.8	Y_P	0.245352	0.24534 ± 0.00011	f_{2000}^{217}	106.15	106.3 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.54	17.2 ± 4.1	Y_P^{BBN}	0.246678	0.24667 ± 0.00011	$\chi^2_{lensing}$	9.18	9.89 ± 1.5
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.8 ± 7.4	10^5D/H	2.6089	2.613 ± 0.044	χ^2_{lowTEB}	10494.86	10495.6 ± 1.3
$\boldsymbol{c_{100}}$	0.99792	0.99787 ± 0.00078	Age/Gyr	13.7970	13.799 ± 0.038	χ^2_{plik}	766.3	779.4 ± 5.5
$\boldsymbol{c_{217}}$	0.99597	0.9960 ± 0.0015	z_*	1089.898	1089.94 ± 0.42	χ^2_{prior}	2.08	7.40 ± 3.6
H_0	67.87	67.81 ± 0.92	r_*	144.910	144.89 ± 0.44	χ^2_{CMB}	11270.4	11284.9 ± 5.5
Ω_Λ	0.6931	0.692 ± 0.012	$100\theta_*$	1.041223	1.04122 ± 0.00045			
Ω_m	0.3069	0.308 ± 0.012	D_A/Gpc	13.9173	13.916 ± 0.041			

Best-fit $\chi^2_{eff} = 11272.43$; $\bar{\chi}^2_{eff} = 11292.30$; $R-1 = 0.00803$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.18 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.86 plik_dx11dr2_HM_v18_TT: 766.32

2.115 base_plikHM_TT_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022249	0.02225 ± 0.00020	$\Omega_m h^3$	0.095911	0.09591 ± 0.00044	k_D	0.140259	0.14024 ± 0.00042
$\boldsymbol{\Omega_c h^2}$	0.11867	0.1186 ± 0.0012	σ_8	0.8153	0.8150 ± 0.0090	$100\theta_D$	0.160983	0.16099 ± 0.00025
$\boldsymbol{100\theta_{MC}}$	1.041009	1.04103 ± 0.00041	$\sigma_8\Omega_m^{0.5}$	0.4527	0.4523 ± 0.0067	z_{eq}	3367.4	3366 ± 28
$\boldsymbol{\tau}$	0.0654	0.066 ± 0.013	$\sigma_8\Omega_m^{0.25}$	0.6075	0.6071 ± 0.0070	k_{eq}	0.010278	0.010274 ± 0.000085
$\boldsymbol{\ln(10^{10}A_s)}$	3.0618	3.062 ± 0.024	$\sigma_8/h^{0.5}$	0.9905	0.990 ± 0.011	$100\theta_{eq}$	0.8193	0.8196 ± 0.0053
$\boldsymbol{n_s}$	0.96789	0.9675 ± 0.0045	$\langle d^2\rangle^{1/2}$	2.4480	2.448 ± 0.025	$100\theta_{s,eq}$	0.45261	0.4528 ± 0.0027
$\boldsymbol{y_{cal}}$	1.00023	1.0002 ± 0.0025	z_{re}	8.78	$8.76^{+1.3}_{-1.2}$	$r_{drag}/D_V(0.57)$	0.071767	0.07179 ± 0.00042
$\boldsymbol{A_{217}^{CIB}}$	67.6	64.6 ± 6.5	$10^9 A_s$	2.136	2.137 ± 0.051	$H(0.57)$	93.034	93.05 ± 0.28
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8746	1.874 ± 0.011	$D_A(0.57)$	1385.9	1385.5 ± 7.7
$\boldsymbol{A_{143}^{tSZ}}$	7.25	5.05 ± 1.9	D_{40}	1225.0	1227 ± 12	$F_{AP}(0.57)$	0.67524	0.6751 ± 0.0019
$\boldsymbol{A_{100}^{PS}}$	253.4	260 ± 28	D_{220}	5714.8	5717 ± 40	$f\sigma_8(0.57)$	0.4732	0.4729 ± 0.0052
$\boldsymbol{A_{143}^{PS}}$	39.2	44 ± 8	D_{810}	2533.1	2532 ± 14	$\sigma_8(0.57)$	0.6073	0.6071 ± 0.0072
$\boldsymbol{A_{143\times217}^{PS}}$	32.8	39^{+10}_{-10}	D_{1420}	815.0	814.5 ± 5.0	f_{2000}^{143}	30.04	30.5 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	97.0	96 ± 10	D_{2000}	230.18	230.0 ± 1.8	$f_{2000}^{143\times217}$	32.68	32.8 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.01	< 4.95	$n_{s,0.002}$	0.96789	0.9675 ± 0.0045	f_{2000}^{217}	106.22	106.4 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.51	7.46 ± 1.9	Y_P	0.245339	0.245337 ± 0.000091	$\chi^2_{lensing}$	9.24	9.88 ± 1.4
$\boldsymbol{A_{143}^{dustTT}}$	9.06	9.05 ± 1.8	Y_P^{BBN}	0.246666	0.246663 ± 0.000091	χ^2_{lowTEB}	10494.86	10495.4 ± 1.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.74	17.2 ± 4.1	10^5D/H	2.6142	2.614 ± 0.038	χ^2_{plik}	766.2	779.0 ± 5.4
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.3	Age/Gyr	13.8014	13.800 ± 0.029	χ^2_{6DF}	0.0101	0.047 ± 0.063
$\boldsymbol{c_{100}}$	0.99791	0.99787 ± 0.00078	z_*	1089.955	1089.95 ± 0.31	χ^2_{MGS}	1.41	1.51 ± 0.56
$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0014	r_*	144.870	144.89 ± 0.30	$\chi^2_{DR11CMASS}$	2.402	2.83 ± 0.60
H_0	67.75	67.78 ± 0.57	$100\theta_*$	1.041206	1.04122 ± 0.00041	$\chi^2_{DR11LOWZ}$	0.479	0.58 ± 0.51
Ω_Λ	0.6916	0.6919 ± 0.0074	D_A/Gpc	13.9137	13.915 ± 0.029	χ^2_{prior}	2.15	7.42 ± 3.6
Ω_m	0.3084	0.3081 ± 0.0074	z_{drag}	1059.551	1059.55 ± 0.44	χ^2_{CMB}	11270.3	11284.3 ± 5.4
$\Omega_m h^2$	0.14156	0.1415 ± 0.0012	r_{drag}	147.581	147.60 ± 0.33	χ^2_{BAO}	4.30	4.97 ± 0.89

Best-fit $\chi^2_{eff} = 11276.74$; $\bar{\chi}^2_{eff} = 11296.69$; $R - 1 = 0.00978$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.40 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.24 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.86 plik_dx11dr2_HM_v18_TT: 766.20

2.116 base_plikHM_TT_lowTEB_lensing_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022286	0.02228 ± 0.00023	$\Omega_m h^2$	0.14104	0.1412 ± 0.0017	z_{drag}	1059.589	1059.60 ± 0.47
$\boldsymbol{\Omega_c h^2}$	0.11811	0.1183 ± 0.0019	$\Omega_m h^3$	0.095922	0.09592 ± 0.00045	r_{drag}	147.689	147.64 ± 0.41
$\boldsymbol{100\theta_{MC}}$	1.041092	1.04106 ± 0.00045	σ_8	0.8170	0.8153 ± 0.0093	k_D	0.140175	0.14021 ± 0.00046
$\boldsymbol{\tau}$	0.0704	0.067 ± 0.016	$\sigma_8\Omega_m^{0.5}$	0.4511	0.4512 ± 0.0085	$100\theta_D$	0.160962	0.16097 ± 0.00026
$\boldsymbol{\ln(10^{10}A_s)}$	3.0701	3.065 ± 0.028	$\sigma_8\Omega_m^{0.25}$	0.6071	0.6065 ± 0.0076	z_{eq}	3355.0	3360 ± 42
$\boldsymbol{n_s}$	0.9689	0.9683 ± 0.0058	$\sigma_8/h^{0.5}$	0.9907	0.989 ± 0.011	k_{eq}	0.010240	0.01025 ± 0.00013
$\boldsymbol{y_{cal}}$	0.99991	1.0002 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4503	2.447 ± 0.026	$100\theta_{eq}$	0.8217	0.8209 ± 0.0081
$\boldsymbol{A_{217}^{CIB}}$	67.9	64.5 ± 6.6	z_{re}	9.24	$8.90^{+1.6}_{-1.4}$	$100\theta_{s,eq}$	0.45385	0.4534 ± 0.0041
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	$10^9 A_s$	2.154	2.144 ± 0.061	$r_{drag}/D_V(0.57)$	0.07196	0.07190 ± 0.00065
$\boldsymbol{A_{143}^{tSZ}}$	6.82	5.06 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8713	1.873 ± 0.012	$H(0.57)$	93.141	93.11 ± 0.39
$\boldsymbol{A_{100}^{PS}}$	257.9	260 ± 28	D_{40}	1224.3	1226 ± 12	$D_A(0.57)$	1382.5	1384 ± 12
$\boldsymbol{A_{143}^{PS}}$	40.0	44 ± 8	D_{220}	5716.3	5719 ± 41	$F_{AP}(0.57)$	0.67436	0.6747 ± 0.0029
$\boldsymbol{A_{143\times217}^{PS}}$	32.3	39^{+10}_{-10}	D_{810}	2530.9	2532 ± 14	$f\sigma_8(0.57)$	0.4733	0.4726 ± 0.0054
$\boldsymbol{A_{217}^{PS}}$	95.8	96 ± 10	D_{1420}	814.5	814.7 ± 5.1	$\sigma_8(0.57)$	0.6094	0.6078 ± 0.0082
$\boldsymbol{A^{kSZ}}$	0.16	< 4.85	D_{2000}	230.14	230.1 ± 1.8	f_{2000}^{143}	30.07	30.3 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.31	7.45 ± 1.9	$n_{s,0.002}$	0.9689	0.9683 ± 0.0058	$f_{2000}^{143\times217}$	32.42	32.7 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.27	9.05 ± 1.8	Y_P	0.245356	0.24535 ± 0.00010	f_{2000}^{217}	105.86	106.2 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.82	17.2 ± 4.1	Y_P^{BBN}	0.246682	0.24668 ± 0.00010	$\chi^2_{lensing}$	9.25	9.85 ± 1.4
$\boldsymbol{A_{217}^{dustTT}}$	81.5	81.7 ± 7.3	10^5D/H	2.6072	2.609 ± 0.043	χ^2_{lowTEB}	10494.98	10495.5 ± 1.2
$\boldsymbol{c_{100}}$	0.99774	0.99788 ± 0.00078	Age/Gyr	13.7927	13.795 ± 0.037	χ^2_{plik}	766.2	779.4 ± 5.5
$\boldsymbol{c_{217}}$	0.99586	0.9960 ± 0.0014	z_*	1089.859	1089.89 ± 0.40	χ^2_{JLA}	706.593	706.73 ± 0.29
H_0	68.01	67.92 ± 0.86	r_*	144.986	144.94 ± 0.41	χ^2_{prior}	1.99	7.39 ± 3.6
Ω_Λ	0.6951	0.694 ± 0.011	$100\theta_*$	1.041286	1.04126 ± 0.00044	χ^2_{CMB}	11270.5	11284.8 ± 5.5
Ω_m	0.3049	0.306 ± 0.011	D_A/Gpc	13.9238	13.920 ± 0.039			

Best-fit $\chi^2_{eff} = 11979.06$; $\bar{\chi}^2_{eff} = 11998.93$; $R - 1 = 0.00900$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.25 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.98 plik_dx11dr2_HM_v18_TT: 766.24 SN - JLA December_2013: 706.59

2.117 base_plikHM_TT_lowTEB_lensing_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022298	0.02229 ± 0.00023	$\Omega_m h^2$	0.14103	0.1411 ± 0.0018	z_{drag}	1059.628	1059.62 ± 0.47
$\boldsymbol{\Omega_c h^2}$	0.11809	0.1182 ± 0.0019	$\Omega_m h^3$	0.095932	0.09594 ± 0.00045	r_{drag}	147.679	147.67 ± 0.42
$\boldsymbol{100\theta_{MC}}$	1.041073	1.04109 ± 0.00045	σ_8	0.8156	0.8156 ± 0.0093	k_D	0.140194	0.14020 ± 0.00046
$\boldsymbol{\tau}$	0.0687	0.068 ± 0.016	$\sigma_8\Omega_m^{0.5}$	0.4503	0.4506 ± 0.0086	$100\theta_D$	0.160942	0.16095 ± 0.00026
$\boldsymbol{\ln(10^{10}A_s)}$	3.0667	3.067 ± 0.029	$\sigma_8\Omega_m^{0.25}$	0.6060	0.6062 ± 0.0076	z_{eq}	3354.9	3357 ± 43
$\boldsymbol{n_s}$	0.9692	0.9687 ± 0.0059	$\sigma_8/h^{0.5}$	0.9889	0.989 ± 0.011	k_{eq}	0.010239	0.01024 ± 0.00013
$\boldsymbol{y_{cal}}$	0.99999	1.0002 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4453	2.447 ± 0.026	$100\theta_{eq}$	0.8218	0.8216 ± 0.0083
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.4 ± 6.6	z_{re}	9.08	$8.99^{+1.6}_{-1.4}$	$100\theta_{s,eq}$	0.45386	0.4538 ± 0.0042
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$10^9 A_s$	2.147	2.148 ± 0.062	$r_{drag}/D_V(0.57)$	0.07197	0.07195 ± 0.00066
$\boldsymbol{A_{143}^{tSZ}}$	7.14	5.08 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8714	1.872 ± 0.013	$H(0.57)$	93.148	93.15 ± 0.40
$\boldsymbol{A_{100}^{PS}}$	254.7	259 ± 28	D_{40}	1223.0	1225 ± 12	$D_A(0.57)$	1382.4	1383 ± 12
$\boldsymbol{A_{143}^{PS}}$	39.2	44 ± 8	D_{220}	5716.3	5720 ± 41	$F_{AP}(0.57)$	0.67433	0.6744 ± 0.0030
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	38^{+10}_{-10}	D_{810}	2531.5	2532 ± 14	$f\sigma_8(0.57)$	0.4725	0.4725 ± 0.0054
$\boldsymbol{A_{217}^{PS}}$	97.0	96 ± 10	D_{1420}	814.9	814.9 ± 5.1	$\sigma_8(0.57)$	0.6083	0.6083 ± 0.0083
$\boldsymbol{A^{kSZ}}$	0.03	< 4.81	D_{2000}	230.26	230.2 ± 1.8	f_{2000}^{143}	29.87	30.2 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.46 ± 1.9	$n_{s,0.002}$	0.9692	0.9687 ± 0.0059	$f_{2000}^{143\times217}$	32.45	32.6 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.06	9.05 ± 1.8	Y_P	0.245361	0.24536 ± 0.00010	f_{2000}^{217}	106.03	106.1 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.71	17.2 ± 4.1	Y_P^{BBN}	0.246688	0.24668 ± 0.00010	$\chi^2_{lensing}$	9.07	9.82 ± 1.4
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.3	10^5D/H	2.6049	2.606 ± 0.043	χ^2_{lowTEB}	10494.80	10495.5 ± 1.2
$\boldsymbol{c_{100}}$	0.99789	0.99788 ± 0.00078	Age/Gyr	13.7920	13.792 ± 0.037	χ^2_{plik}	766.5	779.5 ± 5.6
$\boldsymbol{c_{217}}$	0.99604	0.9960 ± 0.0014	z_*	1089.843	1089.86 ± 0.41	χ^2_{H070p6}	0.605	0.68 ± 0.42
H_0	68.02	68.00 ± 0.88	r_*	144.982	144.97 ± 0.42	χ^2_{prior}	2.13	7.38 ± 3.6
Ω_Λ	0.6952	0.695 ± 0.012	$100\theta_*$	1.041268	1.04128 ± 0.00044	χ^2_{CMB}	11270.4	11284.9 ± 5.5
Ω_m	0.3048	0.305 ± 0.012	D_A/Gpc	13.9236	13.922 ± 0.040			

Best-fit $\chi^2_{eff} = 11273.10$; $\bar{\chi}^2_{eff} = 11292.96$; $R - 1 = 0.00870$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.07 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.80 plik_dx11dr2_HM_v18_TT: 766.50 Hubble - H070p6: 0.60

2.118 base_plikHM_TT_lowTEB_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022274	0.02227 ± 0.00020	σ_8	0.8162	0.8154 ± 0.0090	$z_{\rm eq}$	3361.7	3361 ± 27
$\boldsymbol{\Omega_c h^2}$	0.11840	0.1184 ± 0.0012	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4520	0.4514 ± 0.0066	$k_{\rm eq}$	0.010260	0.010258 ± 0.000083
$\boldsymbol{100\theta_{\rm MC}}$	1.041057	1.04106 ± 0.00041	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6074	0.6066 ± 0.0070	$100\theta_{\rm eq}$	0.8205	0.8206 ± 0.0051
$\boldsymbol{\tau}$	0.0677	0.067 ± 0.013	$\sigma_8/h^{0.5}$	0.9906	0.989 ± 0.011	$100\theta_{\rm s,eq}$	0.45319	0.4533 ± 0.0026
$\boldsymbol{\ln(10^{10}A_s)}$	3.0661	3.064 ± 0.024	$\langle d^2\rangle^{1/2}$	2.4496	2.448 ± 0.025	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071864	0.07188 ± 0.00041
$\boldsymbol{n_s}$	0.96829	0.9681 ± 0.0044	$z_{\rm re}$	8.99	$8.90^{+1.3}_{-1.2}$	$H(0.57)$	93.093	93.10 ± 0.27
$\boldsymbol{y_{\rm cal}}$	1.00033	1.0002 ± 0.0025	$10^9 A_{\rm s}$	2.146	2.143 ± 0.051	$D_{\rm A}(0.57)$	1384.1	1383.9 ± 7.5
$\boldsymbol{A_{217}^{\rm CIB}}$	67.7	64.5 ± 6.5	$10^9 A_{\rm s} e^{-2\tau}$	1.8741	1.873 ± 0.011	$F_{\rm AP}(0.57)$	0.67480	0.6747 ± 0.0018
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	D_{40}	1225.5	1226 ± 12	$f\sigma_8(0.57)$	0.4733	0.4727 ± 0.0052
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.22	5.08 ± 1.9	D_{220}	5719.7	5719 ± 40	$\sigma_8(0.57)$	0.6084	0.6078 ± 0.0072
$\boldsymbol{A_{100}^{\rm PS}}$	253.7	259 ± 28	D_{810}	2533.4	2532 ± 14	f_{2000}^{143}	29.96	30.3 ± 2.8
$\boldsymbol{A_{143}^{\rm PS}}$	39.0	44 ± 8	D_{1420}	815.2	814.7 ± 5.0	$f_{2000}^{143\times217}$	32.57	32.7 ± 2.0
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	39^{+10}_{-10}	D_{2000}	230.30	230.1 ± 1.8	f_{2000}^{217}	106.15	106.2 ± 2.0
$\boldsymbol{A_{217}^{\rm PS}}$	96.8	96 ± 10	$n_{\rm s,0.002}$	0.96829	0.9681 ± 0.0044	$\chi^2_{\rm lensing}$	9.26	9.83 ± 1.4
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.85	$Y_{\rm P}$	0.245350	0.245349 ± 0.000090	$\chi^2_{\rm lowTEB}$	10494.92	10495.4 ± 1.1
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.46	7.47 ± 1.9	$Y_{\rm P}^{\rm BBN}$	0.246677	0.246675 ± 0.000090	$\chi^2_{\rm plik}$	766.1	779.1 ± 5.5
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.18	9.05 ± 1.8	10^5D/H	2.6095	2.610 ± 0.038	$\chi^2_{\rm H070p6}$	0.669	0.69 ± 0.27
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.74	17.2 ± 4.1	Age/Gyr	13.7963	13.796 ± 0.029	$\chi^2_{\rm JLA}$	706.627	706.67 ± 0.16
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.9	81.8 ± 7.3	z_*	1089.900	1089.90 ± 0.30	$\chi^2_{\rm 6DF}$	0.0030	0.039 ± 0.053
$\boldsymbol{c_{100}}$	0.99791	0.99788 ± 0.00078	r_*	144.920	144.93 ± 0.30	$\chi^2_{\rm MGS}$	1.54	1.63 ± 0.56
$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0014	$100\theta_*$	1.041254	1.04126 ± 0.00041	$\chi^2_{\rm DR11CMASS}$	2.412	2.82 ± 0.58
H_0	67.89	67.90 ± 0.55	$D_{\rm A}$/Gpc	13.9178	13.919 ± 0.029	$\chi^2_{\rm DR11LOWZ}$	0.370	0.48 ± 0.45
Ω_Λ	0.6933	0.6935 ± 0.0072	$z_{\rm drag}$	1059.589	1059.60 ± 0.44	$\chi^2_{\rm prior}$	2.13	7.42 ± 3.6
$\Omega_{\rm m}$	0.3067	0.3065 ± 0.0072	$r_{\rm drag}$	147.624	147.63 ± 0.32	$\chi^2_{\rm CMB}$	11270.3	11284.3 ± 5.4
$\Omega_{\rm m}h^2$	0.14132	0.1413 ± 0.0011	$k_{\rm D}$	0.140233	0.14022 ± 0.00042	$\chi^2_{\rm BAO}$	4.33	4.96 ± 0.88
$\Omega_{\rm m}h^3$	0.095934	0.09593 ± 0.00045	$100\theta_{\rm D}$	0.160965	0.16097 ± 0.00025			

Best-fit $\chi^2_{\rm eff} = 11984.07$; $\bar{\chi}^2_{\rm eff} = 12004.02$; $R - 1 = 0.00967$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.41 DR11LOWZ: 0.37 CMB - smica_g30_ftl_full_pp: 9.26 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.92 plik_dx11dr2_HM_v18_TT: 766.13 Hubble - H070p6: 0.67 SN - JLA December_2013: 706.63

2.119 base_plikHM_TT_lowTEB_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227 ± 0.00023	$\Omega_m h^2$	0.1413 ± 0.0017	z_{drag}	1059.59 ± 0.46
$\boldsymbol{\Omega_c h^2}$	0.1183 ± 0.0018	$\Omega_m h^3$	0.09592 ± 0.00045	r_{drag}	147.64 ± 0.41
$\boldsymbol{100\theta_{MC}}$	1.04106 ± 0.00044	σ_8	$0.8162^{+0.0081}_{-0.0095}$	k_D	0.14021 ± 0.00046
$\boldsymbol{\tau}$	$0.068^{+0.012}_{-0.018}$	$\sigma_8\Omega_m^{0.5}$	0.4517 ± 0.0087	$100\theta_D$	0.16097 ± 0.00026
$\boldsymbol{\ln(10^{10} A_s)}$	$3.067^{+0.023}_{-0.030}$	$\sigma_8\Omega_m^{0.25}$	0.6072 ± 0.0076	z_{eq}	3360 ± 41
$\boldsymbol{n_s}$	$0.9683^{+0.0054}_{-0.0061}$	$\sigma_8/h^{0.5}$	0.990 ± 0.011	k_{eq}	0.01026 ± 0.00013
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.450 ± 0.025	$100\theta_{eq}$	0.8208 ± 0.0079
$\boldsymbol{A_{217}^{CIB}}$	64.5 ± 6.5	z_{re}	$9.01^{+1.3}_{-1.5}$	$100\theta_{s,eq}$	0.4534 ± 0.0041
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.148^{+0.047}_{-0.067}$	$r_{drag}/D_V(0.57)$	$0.07189^{+0.00061}_{-0.00069}$
$\boldsymbol{A_{143}^{tSZ}}$	5.06 ± 1.9	$10^9 A_s e^{-2\tau}$	1.873 ± 0.012	$H(0.57)$	$93.11^{+0.36}_{-0.43}$
$\boldsymbol{A_{100}^{PS}}$	260 ± 28	D_{40}	1226 ± 12	$D_A(0.57)$	1384^{+12}_{-11}
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{220}	5717 ± 41	$F_{AP}(0.57)$	0.6747 ± 0.0028
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{810}	2532 ± 14	$f\sigma_8(0.57)$	0.4731 ± 0.0053
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	D_{1420}	814.6 ± 5.1	$\sigma_8(0.57)$	$0.6084^{+0.0066}_{-0.0086}$
$\boldsymbol{A^{kSZ}}$	< 4.84	D_{2000}	230.1 ± 1.8	f_{2000}^{143}	30.3 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.46 ± 1.9	$n_{s,0.002}$	$0.9683^{+0.0054}_{-0.0061}$	$f_{2000}^{143\times217}$	32.7 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.04 ± 1.8	Y_P	0.24535 ± 0.00010	f_{2000}^{217}	106.2 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.1	Y_P^{BBN}	0.24667 ± 0.00010	$\chi^2_{lensing}$	9.93 ± 1.5
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.3	10^5D/H	2.610 ± 0.043	χ^2_{lowTEB}	10495.5 ± 1.2
$\boldsymbol{c_{100}}$	0.99788 ± 0.00078	Age/Gyr	$13.796^{+0.039}_{-0.035}$	χ^2_{plik}	779.3 ± 5.5
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	z_*	$1089.90^{+0.43}_{-0.38}$	χ^2_{prior}	7.38 ± 3.5
H_0	$67.92^{+0.81}_{-0.93}$	r_*	144.94 ± 0.41	χ^2_{CMB}	11284.7 ± 5.4
Ω_Λ	0.694 ± 0.011	$100\theta_*$	1.04126 ± 0.00043		
Ω_m	0.306 ± 0.011	D_A/Gpc	13.919 ± 0.038		

$\bar{\chi}^2_{eff} = 11292.06$; $R - 1 = 0.01013$

2.120 base_plikHM_TT_lowTEB_lensing_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225 ± 0.00020	$\Omega_m h^3$	0.09591 ± 0.00045	k_D	0.14023 ± 0.00042
$\boldsymbol{\Omega_c h^2}$	0.1186 ± 0.0012	σ_8	$0.8157^{+0.0082}_{-0.0093}$	$100\theta_D$	0.16099 ± 0.00025
$\boldsymbol{100\theta_{MC}}$	1.04104 ± 0.00041	$\sigma_8\Omega_m^{0.5}$	0.4524 ± 0.0067	z_{eq}	3365 ± 27
$\boldsymbol{\tau}$	$0.067^{+0.011}_{-0.014}$	$\sigma_8\Omega_m^{0.25}$	0.6075 ± 0.0069	k_{eq}	0.010270 ± 0.000084
$\boldsymbol{\ln(10^{10} A_s)}$	$3.064^{+0.021}_{-0.025}$	$\sigma_8/h^{0.5}$	0.991 ± 0.010	$100\theta_{eq}$	0.8198 ± 0.0052
$\boldsymbol{n_s}$	0.9676 ± 0.0044	$\langle d^2\rangle^{1/2}$	2.450 ± 0.024	$100\theta_{s,eq}$	0.4529 ± 0.0027
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	z_{re}	8.87 ± 1.1	$r_{drag}/D_V(0.57)$	0.07181 ± 0.00041
$\boldsymbol{A_{217}^{CIB}}$	64.6 ± 6.5	$10^9 A_s$	$2.142^{+0.045}_{-0.054}$	$H(0.57)$	93.06 ± 0.27
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s e^{-2\tau}$	1.874 ± 0.011	$D_A(0.57)$	1385.2 ± 7.5
$\boldsymbol{A_{143}^{tSZ}}$	5.05 ± 1.9	D_{40}	1226 ± 12	$F_{AP}(0.57)$	0.6751 ± 0.0018
$\boldsymbol{A_{100}^{PS}}$	260 ± 27	D_{220}	5717 ± 40	$f\sigma_8(0.57)$	0.4732 ± 0.0050
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{810}	2532 ± 14	$\sigma_8(0.57)$	$0.6077^{+0.0065}_{-0.0075}$
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{1420}	814.5 ± 5.0	f_{2000}^{143}	30.5 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	D_{2000}	230.0 ± 1.8	$f_{2000}^{143\times217}$	32.8 ± 2.0
$\boldsymbol{A^{kSZ}}$	< 4.92	$n_{s,0.002}$	0.9676 ± 0.0044	f_{2000}^{217}	106.3 ± 1.9
$\boldsymbol{A_{100}^{dustTT}}$	7.46 ± 1.9	Y_P	0.245339 ± 0.000090	$\chi^2_{lensing}$	9.90 ± 1.5
$\boldsymbol{A_{143}^{dustTT}}$	9.04 ± 1.8	Y_P^{BBN}	0.246665 ± 0.000091	χ^2_{lowTEB}	10495.4 ± 1.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.1	10^5D/H	2.614 ± 0.038	χ^2_{plik}	778.9 ± 5.4
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.3	Age/Gyr	13.800 ± 0.029	χ^2_{6DF}	0.043 ± 0.058
$\boldsymbol{c_{100}}$	0.99788 ± 0.00078	z_*	1089.94 ± 0.30	χ^2_{MGS}	1.54 ± 0.55
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	r_*	144.90 ± 0.30	$\chi^2_{DR11CMASS}$	2.81 ± 0.57
H_0	67.81 ± 0.55	$100\theta_*$	1.04123 ± 0.00040	$\chi^2_{DR11LOWZ}$	0.55 ± 0.48
Ω_Λ	0.6923 ± 0.0072	D_A/Gpc	13.916 ± 0.029	χ^2_{prior}	7.41 ± 3.6
Ω_m	0.3077 ± 0.0072	z_{drag}	1059.56 ± 0.44	χ^2_{CMB}	11284.2 ± 5.4
$\Omega_m h^2$	0.1415 ± 0.0011	r_{drag}	147.61 ± 0.32	χ^2_{BAO}	4.94 ± 0.85

$\bar{\chi}^2_{eff} = 11296.53$; $R - 1 = 0.01108$

2.121 base_plikHM_TT_lowTEB_lensing_post_reion

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022176	0.02218 ± 0.00021	$\Omega_m h^2$	0.14257	0.1423 ± 0.0014	z_{drag}	1059.475	1059.46 ± 0.45
$\boldsymbol{\Omega_c h^2}$	0.11975	0.1195 ± 0.0015	$\Omega_m h^3$	0.095887	0.09588 ± 0.00045	r_{drag}	147.373	147.43 ± 0.37
$\boldsymbol{100\theta_{MC}}$	1.040838	1.04089 ± 0.00041	σ_8	0.8089	0.8095 ± 0.0062	k_D	0.140419	0.14036 ± 0.00044
$\boldsymbol{\tau}$	0.0526	$0.0547^{+0.0056}_{-0.0094}$	$\sigma_8\Omega_m^{0.5}$	0.4541	0.4535 ± 0.0085	$100\theta_D$	0.161025	0.16103 ± 0.00026
$\boldsymbol{\ln(10^{10}A_s)}$	3.0390	$3.043^{+0.012}_{-0.017}$	$\sigma_8\Omega_m^{0.25}$	0.6061	0.6059 ± 0.0075	z_{eq}	3391.6	3386 ± 34
$\boldsymbol{n_s}$	0.96477	0.9648 ± 0.0046	$\sigma_8/h^{0.5}$	0.9864	0.986 ± 0.010	k_{eq}	0.010352	0.01033 ± 0.00010
$\boldsymbol{y_{cal}}$	1.00029	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4381	2.440 ± 0.024	$100\theta_{eq}$	0.8146	$0.8157^{+0.0062}_{-0.0069}$
$\boldsymbol{A_{217}^{CIB}}$	67.7	65.0 ± 6.5	z_{re}	7.54	$7.74^{+0.57}_{-0.93}$	$100\theta_{s,eq}$	0.45020	0.4508 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.0885	$2.096^{+0.025}_{-0.035}$	$r_{drag}/D_V(0.57)$	0.07139	$0.07147^{+0.00048}_{-0.00055}$
$\boldsymbol{A_{143}^{tSZ}}$	7.11	4.90 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8800	1.879 ± 0.011	$H(0.57)$	92.828	$92.87^{+0.30}_{-0.34}$
$\boldsymbol{A_{100}^{PS}}$	256.1	262 ± 28	D_{40}	1228.4	1229 ± 12	$D_A(0.57)$	1392.5	$1391^{+10}_{-8.8}$
$\boldsymbol{A_{143}^{PS}}$	40.9	45 ± 8	D_{220}	5714.9	5718 ± 41	$F_{AP}(0.57)$	0.67697	0.6766 ± 0.0023
$\boldsymbol{A_{143\times217}^{PS}}$	33.9	39^{+10}_{-10}	D_{810}	2535.3	2534 ± 13	$f\sigma_8(0.57)$	0.47124	0.4712 ± 0.0049
$\boldsymbol{A_{217}^{PS}}$	97.9	96 ± 10	D_{1420}	814.8	814.4 ± 5.2	$\sigma_8(0.57)$	0.60088	$0.6017^{+0.0039}_{-0.0049}$
$\boldsymbol{A^{kSZ}}$	0.02	< 5.18	D_{2000}	229.79	229.6 ± 1.8	f_{2000}^{143}	30.65	31.1 ± 2.7
$\boldsymbol{A_{100}^{dustTT}}$	7.45	7.43 ± 1.9	$n_{s,0.002}$	0.96477	0.9648 ± 0.0046	$f_{2000}^{143\times217}$	33.17	33.3 ± 2.0
$\boldsymbol{A_{143}^{dustTT}}$	9.08	9.02 ± 1.8	Y_P	0.245306	0.245306 ± 0.000095	f_{2000}^{217}	106.67	106.8 ± 1.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.77	17.2 ± 4.1	Y_P^{BBN}	0.246632	0.246633 ± 0.000096	$\chi^2_{lensing}$	9.00	9.62 ± 1.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.3	10^5D/H	2.6281	2.627 ± 0.040	χ^2_{lowTEB}	10495.29	10495.5 ± 1.0
$\boldsymbol{c_{100}}$	0.99792	0.99788 ± 0.00079	Age/Gyr	13.8184	13.815 ± 0.031	χ^2_{plik}	766.9	779.5 ± 5.4
$\boldsymbol{c_{217}}$	0.99602	0.9961 ± 0.0014	z_*	1090.143	1090.12 ± 0.34	χ^2_{prior}	2.34	8.50 ± 3.8
H_0	67.26	$67.36^{+0.65}_{-0.75}$	r_*	144.644	144.70 ± 0.35	χ^2_{CMB}	11271.2	11284.6 ± 5.3
Ω_Λ	0.6848	0.6862 ± 0.0092	$100\theta_*$	1.041048	1.04109 ± 0.00040			
Ω_m	0.3152	0.3138 ± 0.0092	D_A/Gpc	13.8941	13.899 ± 0.034			

Best-fit $\chi^2_{eff} = 11273.51$; $\bar{\chi}^2_{eff} = 11293.12$; $R-1 = 0.01693$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.00 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.29 plik_dx11dr2_HM_v18_TT: 766.87

2.122 base_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022274	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.154 ± 0.054	z_*	1089.966	1090.00 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.11913	0.1193 ± 0.0014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.340	0.338 ± 0.080	r_*	144.730	144.71 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040867	1.04087 ± 0.00032	$\boldsymbol{A^{dustTE}_{217}}$	1.662	1.66 ± 0.25	$100\theta_*$	1.041062	1.04106 ± 0.00031
$\boldsymbol{\tau}$	0.0639	0.063 ± 0.014	$\boldsymbol{c_{100}}$	0.99816	0.99813 ± 0.00077	D_A/Gpc	13.9022	13.900 ± 0.029
$\boldsymbol{\ln(10^{10}A_s)}$	3.0600	3.059 ± 0.025	$\boldsymbol{c_{217}}$	0.99606	0.9960 ± 0.0014	z_{drag}	1059.666	1059.62 ± 0.31
$\boldsymbol{n_s}$	0.96597	0.9653 ± 0.0048	H_0	67.56	67.51 ± 0.64	r_{drag}	147.428	147.41 ± 0.30
$\boldsymbol{y_{cal}}$	0.99995	1.0001 ± 0.0024	Ω_Λ	0.6888	0.6879 ± 0.0087	k_D	0.140437	0.14044 ± 0.00032
$\boldsymbol{A^{CIB}_{217}}$	67.7	64.7 ± 6.6	Ω_m	0.3112	0.3121 ± 0.0087	$100\theta_D$	0.160911	0.16093 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$\Omega_m h^2$	0.14205	0.1422 ± 0.0013	z_{eq}	3379.1	3382 ± 32
$\boldsymbol{A^{tSZ}_{143}}$	7.31	5.27 ± 1.9	$\Omega_m h^3$	0.095971	0.09596 ± 0.00030	k_{eq}	0.010313	0.010322 ± 0.000096
$\boldsymbol{A^{PS}_{100}}$	256.8	262 ± 28	σ_8	0.8153	0.8150 ± 0.0087	$100\theta_{eq}$	0.8171	0.8166 ± 0.0060
$\boldsymbol{A^{PS}_{143}}$	38.7	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4548	0.4553 ± 0.0068	$100\theta_{s,eq}$	0.45146	0.4512 ± 0.0031
$\boldsymbol{A^{PS}_{143\times217}}$	32.9	39^{+10}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6089	0.6091 ± 0.0067	$r_{drag}/D_V(0.57)$	0.071593	0.07156 ± 0.00048
$\boldsymbol{A^{PS}_{217}}$	96.7	96 ± 10	$\sigma_8/h^{0.5}$	0.9919	0.992 ± 0.010	$H(0.57)$	92.971	92.95 ± 0.28
$\boldsymbol{A^{kSZ}}$	0.01	< 4.62	$\langle d^2\rangle^{1/2}$	2.4545	2.455 ± 0.024	$D_A(0.57)$	1388.3	1389.1 ± 8.5
$\boldsymbol{A^{dustTT}_{100}}$	7.58	7.50 ± 1.9	z_{re}	8.64	$8.49^{+1.4}_{-1.2}$	$F_{AP}(0.57)$	0.67595	0.6762 ± 0.0022
$\boldsymbol{A^{dustTT}_{143}}$	9.06	9.04 ± 1.8	$10^9 A_s$	2.133	2.130 ± 0.053	$f\sigma_8(0.57)$	0.47395	0.4740 ± 0.0049
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.66	17.2 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8769	1.878 ± 0.011	$\sigma_8(0.57)$	0.6066	0.6062 ± 0.0073
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.6 ± 7.4	D_{40}	1229.6	1232 ± 12	f^{143}_{2000}	29.78	30.2 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0814 ± 0.0056	D_{220}	5722.8	5725 ± 38	$f^{143\times217}_{2000}$	32.54	32.8 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04917	0.0490 ± 0.0050	D_{810}	2533.3	2534 ± 13	f^{217}_{2000}	106.05	106.2 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0990	0.0997 ± 0.032	D_{1420}	814.65	814.6 ± 4.7	$\chi^2_{lensing}$	9.78	10.4 ± 1.8
$\boldsymbol{A^{dustEE}_{143}}$	0.1006	0.1004 ± 0.0069	D_{2000}	230.06	230.0 ± 1.6	χ^2_{lowTEB}	10495.29	10495.9 ± 1.1
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2239	0.224 ± 0.046	$n_{s,0.002}$	0.96597	0.9653 ± 0.0048	χ^2_{plik}	2434.9	2453.4 ± 6.7
$\boldsymbol{A^{dustEE}_{217}}$	0.649	0.65 ± 0.13	Y_P	0.245350	0.245342 ± 0.000071	χ^2_{prior}	7.20	19.4 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1401	0.141 ± 0.038	Y_P^{BBN}	0.246677	0.246668 ± 0.000072	χ^2_{CMB}	12940.0	12959.7 ± 6.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1321	0.132 ± 0.029	10^5D/H	2.6095	2.613 ± 0.030			
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.303 ± 0.084	Age/Gyr	13.8051	13.807 ± 0.026			

Best-fit $\chi^2_{eff} = 12947.17$; $\bar{\chi}^2_{eff} = 12979.12$; $R - 1 = 0.01038$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.78 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.29 plik_dx11dr2_HM_v18_TTTEEE: 2434.91

2.123 base_plikHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022283	0.02228 ± 0.00014	$\boldsymbol{A^{dust TE}_{143\times217}}$	0.336	0.337 ± 0.080	$100\theta_*$	1.041087	1.04110 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11893	0.1190 ± 0.0011	$\boldsymbol{A^{dust TE}_{217}}$	1.666	1.66 ± 0.25	D_A/Gpc	13.9062	13.906 ± 0.023
$\boldsymbol{100\theta_{MC}}$	1.040889	1.04090 ± 0.00030	$\boldsymbol{c_{100}}$	0.99821	0.99813 ± 0.00077	z_{drag}	1059.666	1059.65 ± 0.30
$\boldsymbol{\tau}$	0.0649	0.065 ± 0.012	$\boldsymbol{c_{217}}$	0.99606	0.9961 ± 0.0014	r_{drag}	147.472	147.47 ± 0.25
$\boldsymbol{\ln(10^{10}A_s)}$	3.0616	3.062 ± 0.023	H_0	67.651	67.64 ± 0.47	k_D	0.140398	0.14040 ± 0.00029
$\boldsymbol{n_s}$	0.96654	0.9661 ± 0.0041	Ω_Λ	0.6900	0.6899 ± 0.0064	$100\theta_D$	0.160909	0.16092 ± 0.00017
$\boldsymbol{y_{cal}}$	0.99996	1.0002 ± 0.0024	Ω_m	0.3100	0.3101 ± 0.0064	z_{eq}	3374.4	3375 ± 24
$\boldsymbol{A^{CIB}_{217}}$	67.5	64.7 ± 6.6	$\Omega_m h^2$	0.14185	0.14188 ± 0.00099	k_{eq}	0.010299	0.010301 ± 0.000072
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$\Omega_m h^3$	0.095965	0.09597 ± 0.00029	$100\theta_{eq}$	0.81802	0.8179 ± 0.0045
$\boldsymbol{A^{tSZ}_{143}}$	7.36	5.32 ± 1.9	σ_8	0.8154	0.8156 ± 0.0086	$100\theta_{s,eq}$	0.45191	0.4519 ± 0.0023
$\boldsymbol{A^{PS}_{100}}$	257.5	262 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4540	0.4542 ± 0.0060	$r_{drag}/D_V(0.57)$	0.071663	0.07166 ± 0.00035
$\boldsymbol{A^{PS}_{143}}$	38.4	44 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6084	0.6086 ± 0.0065	$H(0.57)$	93.005	93.00 ± 0.22
$\boldsymbol{A^{PS}_{143\times217}}$	32.6	39^{+10}_{-10}	$\sigma_8/h^{0.5}$	0.9914	0.992 ± 0.010	$D_A(0.57)$	1387.2	1387.3 ± 6.4
$\boldsymbol{A^{PS}_{217}}$	96.8	96 ± 10	$\langle d^2\rangle^{1/2}$	2.4532	2.455 ± 0.024	$F_{AP}(0.57)$	0.67564	0.6757 ± 0.0016
$\boldsymbol{A^{kSZ}}$	0.00	< 4.50	z_{re}	8.73	$8.70^{+1.2}_{-1.1}$	$f\sigma_8(0.57)$	0.47371	0.4738 ± 0.0049
$\boldsymbol{A^{dust TT}_{100}}$	7.50	7.50 ± 1.9	$10^9 A_s$	2.1361	2.138 ± 0.049	$\sigma_8(0.57)$	0.6070	0.6071 ± 0.0068
$\boldsymbol{A^{dust TT}_{143}}$	9.03	9.05 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8761	1.877 ± 0.011	f^{143}_{2000}	29.71	30.1 ± 2.7
$\boldsymbol{A^{dust TT}_{143\times217}}$	17.73	17.2 ± 4.1	D_{40}	1228.7	1231 ± 11	$f^{143\times217}_{2000}$	32.49	32.7 ± 1.9
$\boldsymbol{A^{dust TT}_{217}}$	82.2	81.6 ± 7.4	D_{220}	5722.9	5726 ± 38	f^{217}_{2000}	106.05	106.2 ± 1.8
$\boldsymbol{A^{dust EE}_{100}}$	0.0814	0.0815 ± 0.0057	D_{810}	2533.2	2534 ± 13	$\chi^2_{lensing}$	9.67	10.4 ± 1.8
$\boldsymbol{A^{dust EE}_{100\times143}}$	0.04934	0.0490 ± 0.0050	D_{1420}	814.77	814.8 ± 4.7	χ^2_{lowTEB}	10495.21	10495.7 ± 1.0
$\boldsymbol{A^{dust EE}_{100\times217}}$	0.0995	0.0999 ± 0.032	D_{2000}	230.12	230.1 ± 1.5	χ^2_{plik}	2435.3	2453.3 ± 6.7
$\boldsymbol{A^{dust EE}_{143}}$	0.1004	0.1006 ± 0.0069	$n_{s,0.002}$	0.96654	0.9661 ± 0.0041	χ^2_{6DF}	0.0216	0.050 ± 0.063
$\boldsymbol{A^{dust EE}_{143\times217}}$	0.2244	0.225 ± 0.046	Y_P	0.245355	0.245352 ± 0.000063	χ^2_{MGS}	1.279	1.33 ± 0.45
$\boldsymbol{A^{dust EE}_{217}}$	0.652	0.65 ± 0.13	Y_P^{BBN}	0.246681	0.246678 ± 0.000064	$\chi^2_{DR11CMASS}$	2.451	2.76 ± 0.50
$\boldsymbol{A^{dust TE}_{100}}$	0.1417	0.141 ± 0.038	10^5D/H	2.6077	2.609 ± 0.026	$\chi^2_{DR11LOWZ}$	0.608	0.71 ± 0.50
$\boldsymbol{A^{dust TE}_{100\times143}}$	0.1306	0.132 ± 0.029	Age/Gyr	13.8026	13.803 ± 0.021	χ^2_{prior}	7.04	19.4 ± 5.4
$\boldsymbol{A^{dust TE}_{100\times217}}$	0.303	0.302 ± 0.085	z_*	1089.935	1089.94 ± 0.23	χ^2_{CMB}	12940.2	12959.4 ± 6.6
$\boldsymbol{A^{dust TE}_{143}}$	0.154	0.155 ± 0.053	r_*	144.776	144.77 ± 0.24	χ^2_{BAO}	4.359	4.86 ± 0.73

Best-fit $\chi^2_{eff} = 12951.58$; $\bar{\chi}^2_{eff} = 12983.64$; $R - 1 = 0.01558$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.45 DR11LOWZ: 0.61 CMB - smica_g30_ftl_full_pp: 9.67 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.21 plik_dx11dr2_HM_v18_TT
2435.30

2.124 base_plikHM_TTTEEE_lowTEB_lensing_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022276	0.02227 ± 0.00015	$\boldsymbol{A^{dust TE}_{143}}$	0.154	0.155 ± 0.053	z_*	1089.953	1089.96 ± 0.28
$\boldsymbol{\Omega_c h^2}$	0.11902	0.1191 ± 0.0014	$\boldsymbol{A^{dust TE}_{143\times217}}$	0.337	0.337 ± 0.080	r_*	144.756	144.74 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040866	1.04089 ± 0.00032	$\boldsymbol{A^{dust TE}_{217}}$	1.665	1.66 ± 0.26	$100\theta_*$	1.041064	1.04108 ± 0.00031
$\boldsymbol{\tau}$	0.0639	0.064 ± 0.014	$\boldsymbol{c_{100}}$	0.99815	0.99813 ± 0.00077	D_A/Gpc	13.9047	13.903 ± 0.028
$\boldsymbol{\ln(10^{10} A_s)}$	3.0599	3.061 ± 0.025	$\boldsymbol{c_{217}}$	0.99608	0.9960 ± 0.0014	z_{drag}	1059.666	1059.64 ± 0.31
$\boldsymbol{n_s}$	0.96619	0.9658 ± 0.0047	H_0	67.60	67.59 ± 0.62	r_{drag}	147.454	147.44 ± 0.29
$\boldsymbol{y_{cal}}$	0.99999	1.0002 ± 0.0024	Ω_Λ	0.6894	0.6890 ± 0.0084	k_D	0.140411	0.14042 ± 0.00031
$\boldsymbol{A^{CIB}_{217}}$	67.8	64.7 ± 6.6	Ω_m	0.3106	0.3110 ± 0.0084	$100\theta_D$	0.160912	0.16092 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14194	0.1420 ± 0.0013	z_{eq}	3376.6	3378 ± 31
$\boldsymbol{A^{tSZ}_{143}}$	7.31	5.32 ± 1.9	$\Omega_m h^3$	0.095957	0.09597 ± 0.00029	k_{eq}	0.010306	0.010310 ± 0.000094
$\boldsymbol{A^{PS}_{100}}$	258.2	262 ± 28	σ_8	0.8150	0.8153 ± 0.0087	$100\theta_{eq}$	0.8176	0.8174 ± 0.0059
$\boldsymbol{A^{PS}_{143}}$	38.5	44 ± 8	$\sigma_8 \Omega_m^{0.5}$	0.4542	0.4546 ± 0.0068	$100\theta_{s,eq}$	0.45170	0.4516 ± 0.0030
$\boldsymbol{A^{PS}_{143\times217}}$	32.4	39^{+10}_{-10}	$\sigma_8 \Omega_m^{0.25}$	0.6084	0.6088 ± 0.0067	$r_{drag}/D_V(0.57)$	0.071626	0.07162 ± 0.00047
$\boldsymbol{A^{PS}_{217}}$	96.5	97 ± 10	$\sigma_8/h^{0.5}$	0.9912	0.992 ± 0.010	$H(0.57)$	92.984	92.98 ± 0.27
$\boldsymbol{A^{kSZ}}$	0.00	< 4.51	$\langle d^2 \rangle^{1/2}$	2.4528	2.455 ± 0.025	$D_A(0.57)$	1387.8	1388.0 ± 8.3
$\boldsymbol{A^{dust TT}_{100}}$	7.42	7.50 ± 1.9	z_{re}	8.64	$8.60^{+1.4}_{-1.2}$	$F_{AP}(0.57)$	0.67580	0.6759 ± 0.0021
$\boldsymbol{A^{dust TT}_{143}}$	9.10	9.04 ± 1.8	$10^9 A_s$	2.132	2.135 ± 0.053	$f\sigma_8(0.57)$	0.47359	0.4739 ± 0.0049
$\boldsymbol{A^{dust TT}_{143\times217}}$	17.66	17.2 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8765	1.877 ± 0.011	$\sigma_8(0.57)$	0.6065	0.6067 ± 0.0073
$\boldsymbol{A^{dust TT}_{217}}$	81.8	81.6 ± 7.4	D_{40}	1229.2	1231 ± 12	f^{143}_{2000}	29.78	30.1 ± 2.7
$\boldsymbol{A^{dust EE}_{100}}$	0.0815	0.0815 ± 0.0057	D_{220}	5723.3	5726 ± 38	$f^{143\times217}_{2000}$	32.52	32.7 ± 1.9
$\boldsymbol{A^{dust EE}_{100\times143}}$	0.04917	0.0489 ± 0.0050	D_{810}	2533.3	2534 ± 13	f^{217}_{2000}	106.09	106.2 ± 1.9
$\boldsymbol{A^{dust EE}_{100\times217}}$	0.0999	0.0999 ± 0.032	D_{1420}	814.69	814.7 ± 4.7	$\chi^2_{lensing}$	9.66	10.4 ± 1.8
$\boldsymbol{A^{dust EE}_{143}}$	0.1004	0.1005 ± 0.0069	D_{2000}	230.07	230.1 ± 1.6	χ^2_{lowTEB}	10495.23	10495.8 ± 1.1
$\boldsymbol{A^{dust EE}_{143\times217}}$	0.2252	0.224 ± 0.046	$n_{s,0.002}$	0.96619	0.9658 ± 0.0047	χ^2_{plik}	2435.1	2453.5 ± 6.8
$\boldsymbol{A^{dust EE}_{217}}$	0.653	0.65 ± 0.13	Y_P	0.245351	0.245348 ± 0.000070	χ^2_{JLA}	706.723	706.79 ± 0.25
$\boldsymbol{A^{dust TE}_{100}}$	0.1422	0.141 ± 0.038	Y_P^{BBN}	0.246678	0.246674 ± 0.000070	χ^2_{prior}	7.16	19.4 ± 5.5
$\boldsymbol{A^{dust TE}_{100\times143}}$	0.1319	0.132 ± 0.029	10^5D/H	2.6091	2.610 ± 0.029	χ^2_{CMB}	12940.0	12959.7 ± 6.7
$\boldsymbol{A^{dust TE}_{100\times217}}$	0.304	0.302 ± 0.085	Age/Gyr	13.8044	13.804 ± 0.025			

Best-fit $\chi^2_{eff} = 13653.91$; $\bar{\chi}^2_{eff} = 13685.92$; $R - 1 = 0.01520$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.66 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.24 plik_dx11dr2_HM_v18_TTTEEE: 2435.13 SN - JLA December_2013: 706.72

2.125 base_plikHM_TTTEEE_lowTEB_lensing_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022294	0.02228 ± 0.00016	$\boldsymbol{A_{143}^{dust\,TE}}$	0.155	0.154 ± 0.053	z_*	1089.924	1089.95 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.11896	0.1190 ± 0.0014	$\boldsymbol{A_{143\times217}^{dust\,TE}}$	0.339	0.337 ± 0.080	r_*	144.760	144.75 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040889	1.04090 ± 0.00032	$\boldsymbol{A_{217}^{dust\,TE}}$	1.668	1.66 ± 0.26	$100\theta_*$	1.041083	1.04109 ± 0.00031
$\boldsymbol{\tau}$	0.0649	0.064 ± 0.014	$\boldsymbol{c_{100}}$	0.99816	0.99813 ± 0.00077	D_A/Gpc	13.9047	13.904 ± 0.028
$\boldsymbol{\ln(10^{10} A_s)}$	3.0617	3.061 ± 0.025	$\boldsymbol{c_{217}}$	0.99602	0.9960 ± 0.0014	z_{drag}	1059.666	1059.65 ± 0.31
$\boldsymbol{n_s}$	0.96647	0.9660 ± 0.0047	H_0	67.65	67.62 ± 0.63	r_{drag}	147.454	147.45 ± 0.30
$\boldsymbol{y_{cal}}$	0.99997	1.0002 ± 0.0024	Ω_Λ	0.6899	0.6894 ± 0.0085	k_D	0.140428	0.14042 ± 0.00032
$\boldsymbol{A_{217}^{CIB}}$	67.7	64.6 ± 6.6	Ω_m	0.3101	0.3106 ± 0.0085	$100\theta_D$	0.160893	0.16091 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14190	0.1420 ± 0.0013	z_{eq}	3375.5	3377 ± 31
$\boldsymbol{A_{143}^{tSZ}}$	7.38	5.33 ± 1.9	$\Omega_m h^3$	0.095989	0.09597 ± 0.00029	k_{eq}	0.010302	0.010306 ± 0.000095
$\boldsymbol{A_{100}^{PS}}$	255.7	262 ± 28	σ_8	0.8155	0.8154 ± 0.0087	$100\theta_{eq}$	0.8179	0.8176 ± 0.0060
$\boldsymbol{A_{143}^{PS}}$	38.1	44 ± 8	$\sigma_8 \Omega_m^{0.5}$	0.4541	0.4544 ± 0.0068	$100\theta_{s,eq}$	0.45182	0.4517 ± 0.0031
$\boldsymbol{A_{143\times217}^{PS}}$	32.3	39^{+10}_{-10}	$\sigma_8 \Omega_m^{0.25}$	0.6085	0.6087 ± 0.0067	$r_{drag}/D_V(0.57)$	0.071655	0.07164 ± 0.00047
$\boldsymbol{A_{217}^{PS}}$	96.4	97 ± 10	$\sigma_8/h^{0.5}$	0.9915	0.992 ± 0.010	$H(0.57)$	93.009	93.00 ± 0.28
$\boldsymbol{A^{kSZ}}$	0.00	< 4.49	$\langle d^2 \rangle^{1/2}$	2.4537	2.455 ± 0.025	$D_A(0.57)$	1387.2	1387.6 ± 8.4
$\boldsymbol{A_{100}^{dust\,TT}}$	7.45	7.49 ± 1.9	z_{re}	8.73	$8.64^{+1.4}_{-1.2}$	$F_{AP}(0.57)$	0.67567	0.6758 ± 0.0022
$\boldsymbol{A_{143}^{dust\,TT}}$	9.07	9.04 ± 1.8	$10^9 A_s$	2.136	2.136 ± 0.053	$f\sigma_8(0.57)$	0.47379	0.4738 ± 0.0049
$\boldsymbol{A_{143\times217}^{dust\,TT}}$	17.62	17.2 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8763	1.877 ± 0.011	$\sigma_8(0.57)$	0.6070	0.6069 ± 0.0073
$\boldsymbol{A_{217}^{dust\,TT}}$	81.7	81.6 ± 7.4	D_{40}	1229.0	1231 ± 12	f_{2000}^{143}	29.61	30.1 ± 2.7
$\boldsymbol{A_{100}^{dust\,EE}}$	0.0815	0.0815 ± 0.0057	D_{220}	5724.1	5726 ± 38	$f_{2000}^{143\times217}$	32.37	32.7 ± 1.9
$\boldsymbol{A_{100\times143}^{dust\,EE}}$	0.04915	0.0490 ± 0.0050	D_{810}	2533.4	2534 ± 13	f_{2000}^{217}	105.94	106.2 ± 1.9
$\boldsymbol{A_{100\times217}^{dust\,EE}}$	0.0999	0.0999 ± 0.032	D_{1420}	814.87	814.8 ± 4.7	$\chi^2_{lensing}$	9.73	10.4 ± 1.8
$\boldsymbol{A_{143}^{dust\,EE}}$	0.1002	0.1006 ± 0.0069	D_{2000}	230.17	230.1 ± 1.6	χ^2_{lowTEB}	10495.23	10495.8 ± 1.1
$\boldsymbol{A_{143\times217}^{dust\,EE}}$	0.2242	0.224 ± 0.046	$n_{s,0.002}$	0.96647	0.9660 ± 0.0047	χ^2_{plik}	2435.1	2453.6 ± 6.8
$\boldsymbol{A_{217}^{dust\,EE}}$	0.649	0.65 ± 0.13	Y_P	0.245359	0.245351 ± 0.000071	χ^2_{H070p6}	0.788	0.84 ± 0.33
$\boldsymbol{A_{100}^{dust\,TE}}$	0.1409	0.141 ± 0.038	Y_P^{BBN}	0.246686	0.246677 ± 0.000071	χ^2_{prior}	7.19	19.4 ± 5.5
$\boldsymbol{A_{100\times143}^{dust\,TE}}$	0.1317	0.132 ± 0.029	10^5D/H	2.6057	2.609 ± 0.029	χ^2_{CMB}	12940.0	12959.8 ± 6.7
$\boldsymbol{A_{100\times217}^{dust\,TE}}$	0.305	0.302 ± 0.085	Age/Gyr	13.8017	13.803 ± 0.025			

Best-fit $\chi^2_{eff} = 12948.00$; $\bar{\chi}^2_{eff} = 12980.00$; $R - 1 = 0.01547$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.72 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.23 plik_dx11dr2_HM_v18_TTTEEE: 2435.07 Hubble - H070p6: 0.79

2.126 base_plikHM_TTTEEE_lowTEB_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022307	0.02230 ± 0.00014	$\boldsymbol{A_{217}^{\mathrm{dust}TE}}$	1.646	1.66 ± 0.25	z_{drag}	1059.704	1059.68 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.11865	0.1188 ± 0.0010	$\boldsymbol{c_{100}}$	0.99816	0.99813 ± 0.00077	r_{drag}	147.518	147.50 ± 0.24
$\boldsymbol{100\theta_{\mathrm{MC}}}$	1.040939	1.04093 ± 0.00030	$\boldsymbol{c_{217}}$	0.99606	0.9960 ± 0.0014	k_{D}	0.140367	0.14038 ± 0.00029
$\boldsymbol{\tau}$	0.0677	0.066 ± 0.012	H_0	67.783	67.74 ± 0.46	$100\theta_{\mathrm{D}}$	0.160891	0.16090 ± 0.00017
$\boldsymbol{\ln(10^{10} A_s)}$	3.0665	3.064 ± 0.023	Ω_Λ	0.6918	0.6911 ± 0.0062	z_{eq}	3368.4	3371 ± 23
$\boldsymbol{n_s}$	0.96722	0.9667 ± 0.0040	Ω_{m}	0.3082	0.3089 ± 0.0062	k_{eq}	0.010281	0.010288 ± 0.000071
$\boldsymbol{y_{\mathrm{cal}}}$	0.99993	1.0002 ± 0.0024	$\Omega_{\mathrm{m}} h^2$	0.14160	0.14170 ± 0.00097	$100\theta_{\mathrm{eq}}$	0.81921	0.8188 ± 0.0044
$\boldsymbol{A_{217}^{\mathrm{CIB}}}$	67.6	64.6 ± 6.6	$\Omega_{\mathrm{m}} h^3$	0.095982	0.09598 ± 0.00029	$100\theta_{\mathrm{s,eq}}$	0.45252	0.4523 ± 0.0023
$\boldsymbol{\xi^{\mathrm{tSZ\times CIB}}}$	0.01	—	σ_8	0.8166	0.8159 ± 0.0086	$r_{\mathrm{drag}}/D_{\mathrm{V}}(0.57)$	0.071761	0.07173 ± 0.00035
$\boldsymbol{A_{143}^{\mathrm{tSZ}}}$	7.33	5.34 ± 1.9	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4534	0.4535 ± 0.0059	$H(0.57)$	93.062	93.04 ± 0.21
$\boldsymbol{A_{100}^{\mathrm{PS}}}$	257.0	261 ± 28	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6085	0.6083 ± 0.0066	$D_{\mathrm{A}}(0.57)$	1385.4	1386.0 ± 6.2
$\boldsymbol{A_{143}^{\mathrm{PS}}}$	38.3	43 ± 8	$\sigma_8/h^{0.5}$	0.9919	0.991 ± 0.010	$F_{\mathrm{AP}}(0.57)$	0.67519	0.6754 ± 0.0016
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	39^{+10}_{-10}	$\langle d^2 \rangle^{1/2}$	2.4549	2.454 ± 0.024	$f\sigma_8(0.57)$	0.47397	0.4737 ± 0.0049
$\boldsymbol{A_{217}^{\mathrm{PS}}}$	96.4	96 ± 10	z_{re}	8.99	$8.82^{+1.2}_{-1.1}$	$\sigma_8(0.57)$	0.6083	0.6076 ± 0.0068
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.46	$10^9 A_{\mathrm{s}}$	2.1467	2.142 ± 0.049	f_{2000}^{143}	29.60	30.0 ± 2.7
$\boldsymbol{A_{100}^{\mathrm{dust}TT}}$	7.43	7.49 ± 1.9	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8749	1.876 ± 0.011	$f_{2000}^{143\times217}$	32.36	32.6 ± 1.9
$\boldsymbol{A_{143}^{\mathrm{dust}TT}}$	9.01	9.04 ± 1.8	D_{40}	1228.2	1230 ± 11	f_{2000}^{217}	105.88	106.1 ± 1.8
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TT}}$	17.62	17.2 ± 4.1	D_{220}	5724.4	5728 ± 38	$\chi^2_{\mathrm{lensing}}$	9.75	10.3 ± 1.8
$\boldsymbol{A_{217}^{\mathrm{dust}TT}}$	81.9	81.6 ± 7.4	D_{810}	2532.8	2534 ± 13	χ^2_{lowTEB}	10495.22	10495.6 ± 1.0
$\boldsymbol{A_{100}^{\mathrm{dust}EE}}$	0.0814	0.0815 ± 0.0057	D_{1420}	814.85	814.9 ± 4.7	χ^2_{plik}	2435.2	2453.5 ± 6.8
$\boldsymbol{A_{100\times143}^{\mathrm{dust}EE}}$	0.04928	0.0491 ± 0.0050	D_{2000}	230.23	230.2 ± 1.5	χ^2_{H070p6}	0.719	0.76 ± 0.24
$\boldsymbol{A_{100\times217}^{\mathrm{dust}EE}}$	0.0986	0.0999 ± 0.032	$n_{\mathrm{s},0.002}$	0.96722	0.9667 ± 0.0040	χ^2_{JLA}	706.661	706.71 ± 0.16
$\boldsymbol{A_{143}^{\mathrm{dust}EE}}$	0.1006	0.1007 ± 0.0069	Y_{P}	0.245365	0.245360 ± 0.000063	χ^2_{6DF}	0.0102	0.040 ± 0.053
$\boldsymbol{A_{143\times217}^{\mathrm{dust}EE}}$	0.2234	0.224 ± 0.046	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246692	0.246686 ± 0.000063	χ^2_{MGS}	1.407	1.42 ± 0.45
$\boldsymbol{A_{217}^{\mathrm{dust}EE}}$	0.654	0.65 ± 0.13	$10^5\mathrm{D/H}$	2.6032	2.605 ± 0.026	$\chi^2_{\mathrm{DR11CMASS}}$	2.411	2.71 ± 0.44
$\boldsymbol{A_{100}^{\mathrm{dust}TE}}$	0.1408	0.141 ± 0.038	Age/Gyr	13.7976	13.799 ± 0.021	$\chi^2_{\mathrm{DR11LOWZ}}$	0.483	0.61 ± 0.45
$\boldsymbol{A_{100\times143}^{\mathrm{dust}TE}}$	0.1308	0.132 ± 0.029	z_*	1089.880	1089.90 ± 0.23	χ^2_{prior}	7.19	19.4 ± 5.4
$\boldsymbol{A_{100\times217}^{\mathrm{dust}TE}}$	0.302	0.302 ± 0.085	r_*	144.829	144.81 ± 0.24	χ^2_{CMB}	12940.2	12959.4 ± 6.6
$\boldsymbol{A_{143}^{\mathrm{dust}TE}}$	0.153	0.154 ± 0.053	$100\theta_*$	1.041128	1.04112 ± 0.00029	χ^2_{BAO}	4.311	4.79 ± 0.64
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TE}}$	0.335	0.336 ± 0.080	$D_{\mathrm{A}}/\mathrm{Gpc}$	13.9108	13.909 ± 0.023			

Best-fit $\chi^2_{\mathrm{eff}} = 13659.04$; $\bar{\chi}^2_{\mathrm{eff}} = 13691.10$; $R - 1 = 0.01658$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.75 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.22 plik_dx11dr2_HM_v18_TTT

2.127 base_plikHM_TTTEEE_lowTEB_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227 ± 0.00015	$\boldsymbol{A_{143}^{dustTE}}$	0.154 ± 0.053	z_*	1089.97 ± 0.28
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0013	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.337 ± 0.080	r_*	144.74 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.04088 ± 0.00032	$\boldsymbol{A_{217}^{dustTE}}$	1.66 ± 0.26	$100\theta_*$	1.04108 ± 0.00031
$\boldsymbol{\tau}$	$0.065^{+0.011}_{-0.015}$	$\boldsymbol{c_{100}}$	0.99813 ± 0.00077	D_A/Gpc	13.903 ± 0.028
$\boldsymbol{\ln(10^{10}A_s)}$	$3.062^{+0.019}_{-0.027}$	$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	z_{drag}	1059.63 ± 0.31
$\boldsymbol{n_s}$	0.9657 ± 0.0046	H_0	67.57 ± 0.61	r_{drag}	147.44 ± 0.29
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0024	Ω_Λ	0.6887 ± 0.0082	k_D	0.14042 ± 0.00031
$\boldsymbol{A_{217}^{CIB}}$	64.6 ± 6.6	Ω_m	0.3113 ± 0.0082	$100\theta_D$	0.16092 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$\Omega_m h^2$	0.1420 ± 0.0013	z_{eq}	3379 ± 30
$\boldsymbol{A_{143}^{tSZ}}$	5.33 ± 1.9	$\Omega_m h^3$	0.09596 ± 0.00030	k_{eq}	0.010313 ± 0.000092
$\boldsymbol{A_{100}^{PS}}$	262 ± 28	σ_8	$0.8161^{+0.0073}_{-0.0089}$	$100\theta_{eq}$	0.8172 ± 0.0058
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4553 ± 0.0068	$100\theta_{s,eq}$	0.4515 ± 0.0029
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6095 ± 0.0066	$r_{drag}/D_V(0.57)$	0.07160 ± 0.00046
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	$\sigma_8/h^{0.5}$	0.9929 ± 0.0098	$H(0.57)$	92.97 ± 0.27
$\boldsymbol{A^{kSZ}}$	< 4.48	$\langle d^2\rangle^{1/2}$	2.458 ± 0.023	$D_A(0.57)$	1388.3 ± 8.1
$\boldsymbol{A_{100}^{dustTT}}$	7.50 ± 1.9	z_{re}	$8.70^{+1.1}_{-1.3}$	$F_{AP}(0.57)$	0.6760 ± 0.0021
$\boldsymbol{A_{143}^{dustTT}}$	9.05 ± 1.8	$10^9 A_s$	$2.138^{+0.040}_{-0.058}$	$f\sigma_8(0.57)$	0.4744 ± 0.0047
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.1	$10^9 A_s e^{-2\tau}$	1.877 ± 0.011	$\sigma_8(0.57)$	$0.6072^{+0.0056}_{-0.0078}$
$\boldsymbol{A_{217}^{dustTT}}$	81.6 ± 7.4	D_{40}	1231 ± 12	f_{2000}^{143}	30.1 ± 2.7
$\boldsymbol{A_{100}^{dustEE}}$	0.0814 ± 0.0057	D_{220}	5725 ± 38	$f_{2000}^{143\times217}$	32.7 ± 1.9
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0489 ± 0.0050	D_{810}	2534 ± 13	f_{2000}^{217}	106.2 ± 1.9
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0998 ± 0.032	D_{1420}	814.6 ± 4.7	$\chi^2_{lensing}$	10.5 ± 1.9
$\boldsymbol{A_{143}^{dustEE}}$	0.1005 ± 0.0069	D_{2000}	230.0 ± 1.6	χ^2_{lowTEB}	10495.8 ± 1.1
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.225 ± 0.046	$n_{s,0.002}$	0.9657 ± 0.0046	χ^2_{plik}	2453.3 ± 6.7
$\boldsymbol{A_{217}^{dustEE}}$	0.65 ± 0.13	Y_P	0.245346 ± 0.000070	χ^2_{prior}	19.4 ± 5.5
$\boldsymbol{A_{100}^{dustTE}}$	0.141 ± 0.038	Y_P^{BBN}	0.246672 ± 0.000070	χ^2_{CMB}	12959.6 ± 6.6
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.132 ± 0.029	10^5D/H	2.611 ± 0.029		
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.302 ± 0.084	Age/Gyr	13.805 ± 0.025		

$\bar{\chi}^2_{eff} = 12978.93$; $R - 1 = 0.01449$

2.128 base_plikHM_TTTEEE_lowTEB_lensing_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.02228 ± 0.00014	$\boldsymbol{A^{{\rm dust}TE}_{143\times217}}$	0.337 ± 0.080	$100\theta_*$	1.04110 ± 0.00030
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1189 ± 0.0010	$\boldsymbol{A^{{\rm dust}TE}_{217}}$	1.66 ± 0.26	$D_{\rm A}$/Gpc	13.907 ± 0.023
$\boldsymbol{100\theta_{\rm MC}}$	1.04091 ± 0.00030	$\boldsymbol{c_{100}}$	0.99813 ± 0.00077	$z_{\rm drag}$	1059.65 ± 0.30
$\boldsymbol{\tau}$	$0.066^{+0.011}_{-0.013}$	$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	$r_{\rm drag}$	147.48 ± 0.24
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	$3.064^{+0.020}_{-0.024}$	H_0	67.66 ± 0.46	$k_{\rm D}$	0.14039 ± 0.00029
$\boldsymbol{n_{\rm s}}$	0.9663 ± 0.0040	Ω_Λ	0.6901 ± 0.0062	$100\theta_{\rm D}$	0.16091 ± 0.00017
$\boldsymbol{y_{\rm cal}}$	1.0001 ± 0.0024	$\Omega_{\rm m}$	0.3099 ± 0.0062	$z_{\rm eq}$	3374 ± 23
$\boldsymbol{A^{\rm CIB}_{217}}$	64.6 ± 6.6	$\Omega_{\rm m}h^2$	0.14184 ± 0.00097	$k_{\rm eq}$	0.010298 ± 0.000071
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	$\Omega_{\rm m}h^3$	0.09597 ± 0.00030	$100\theta_{\rm eq}$	0.8181 ± 0.0044
$\boldsymbol{A^{\rm tSZ}_{143}}$	5.33 ± 1.9	σ_8	$0.8162^{+0.0077}_{-0.0089}$	$100\theta_{\rm s,eq}$	0.4520 ± 0.0023
$\boldsymbol{A^{\rm PS}_{100}}$	262 ± 28	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4543 ± 0.0059	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07167 ± 0.00035
$\boldsymbol{A^{\rm PS}_{143}}$	43 ± 8	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6090 ± 0.0063	$H(0.57)$	93.01 ± 0.21
$\boldsymbol{A^{PS}_{143\times217}}$	39^{+9}_{-10}	$\sigma_8/h^{0.5}$	0.9923 ± 0.0098	$D_{\rm A}(0.57)$	1387.0 ± 6.2
$\boldsymbol{A^{\rm PS}_{217}}$	97 ± 10	$\langle d^2\rangle^{1/2}$	2.456 ± 0.023	$F_{\rm AP}(0.57)$	0.6756 ± 0.0016
$\boldsymbol{A^{\rm kSZ}}$	< 4.47	$z_{\rm re}$	8.80 ± 1.1	$f\sigma_8(0.57)$	0.4741 ± 0.0047
$\boldsymbol{A^{{\rm dust}TT}_{100}}$	7.51 ± 1.9	$10^9A_{\rm s}$	$2.142^{+0.042}_{-0.052}$	$\sigma_8(0.57)$	$0.6076^{+0.0059}_{-0.0073}$
$\boldsymbol{A^{{\rm dust}TT}_{143}}$	9.05 ± 1.8	$10^9A_{\rm s}e^{-2\tau}$	1.877 ± 0.011	f^{143}_{2000}	30.0 ± 2.7
$\boldsymbol{A^{{\rm dust}TT}_{143\times217}}$	17.2 ± 4.1	D_{40}	1230 ± 11	$f^{143\times217}_{2000}$	32.6 ± 1.8
$\boldsymbol{A^{{\rm dust}TT}_{217}}$	81.6 ± 7.4	D_{220}	5726 ± 38	f^{217}_{2000}	106.1 ± 1.8
$\boldsymbol{A^{{\rm dust}EE}_{100}}$	0.0815 ± 0.0057	D_{810}	2534 ± 13	$\chi^2_{\rm lensing}$	10.4 ± 1.8
$\boldsymbol{A^{{\rm dust}EE}_{100\times143}}$	0.0490 ± 0.0050	D_{1420}	814.7 ± 4.7	$\chi^2_{\rm lowTEB}$	10495.7 ± 1.0
$\boldsymbol{A^{{\rm dust}EE}_{100\times217}}$	0.0999 ± 0.032	D_{2000}	230.1 ± 1.5	$\chi^2_{\rm plik}$	2453.2 ± 6.7
$\boldsymbol{A^{{\rm dust}EE}_{143}}$	0.1006 ± 0.0069	$n_{\rm s,0.002}$	0.9663 ± 0.0040	$\chi^2_{\rm 6DF}$	0.047 ± 0.058
$\boldsymbol{A^{{\rm dust}EE}_{143\times217}}$	0.225 ± 0.046	$Y_{\rm P}$	0.245353 ± 0.000063	$\chi^2_{\rm MGS}$	1.35 ± 0.45
$\boldsymbol{A^{{\rm dust}EE}_{217}}$	0.65 ± 0.13	$Y^{\rm BBN}_{\rm P}$	0.246679 ± 0.000063	$\chi^2_{\rm DR11CMASS}$	2.74 ± 0.47
$\boldsymbol{A^{{\rm dust}TE}_{100}}$	0.141 ± 0.038	10^5D/H	2.608 ± 0.026	$\chi^2_{\rm DR11LOWZ}$	0.68 ± 0.48
$\boldsymbol{A^{{\rm dust}TE}_{100\times143}}$	0.132 ± 0.029	Age/Gyr	13.802 ± 0.021	$\chi^2_{\rm prior}$	19.4 ± 5.4
$\boldsymbol{A^{{\rm dust}TE}_{100\times217}}$	0.302 ± 0.084	z_*	1089.94 ± 0.23	$\chi^2_{\rm CMB}$	12959.3 ± 6.6
$\boldsymbol{A^{{\rm dust}TE}_{143}}$	0.154 ± 0.053	r_*	144.78 ± 0.24	$\chi^2_{\rm BAO}$	4.82 ± 0.68

$\bar{\chi}^2_{\rm eff} = 12983.50$; $R - 1 = 0.01640$

2.129 base_plikHM_TTTEEE_lowTEB_lensing_post_reion

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022219	0.02222 ± 0.00015	$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.155	0.155 ± 0.054	z_*	1090.102	1090.09 ± 0.26
$\boldsymbol{\Omega_c h^2}$	0.11991	0.1198 ± 0.0012	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.339	0.341 ± 0.080	r_*	144.570	144.59 ± 0.26
$\boldsymbol{100\theta_{MC}}$	1.040778	1.04079 ± 0.00031	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.672	1.67 ± 0.26	$100\theta_*$	1.040972	1.04099 ± 0.00030
$\boldsymbol{\tau}$	0.0529	$0.0546^{+0.0053}_{-0.0091}$	$\boldsymbol{c_{100}}$	0.99813	0.99814 ± 0.00077	D_A/Gpc	13.8880	13.890 ± 0.025
$\boldsymbol{\ln(10^{10} A_s)}$	3.0405	$3.044^{+0.011}_{-0.016}$	$\boldsymbol{c_{217}}$	0.99611	0.9961 ± 0.0014	z_{drag}	1059.589	1059.58 ± 0.30
$\boldsymbol{n_s}$	0.96377	0.9636 ± 0.0041	H_0	67.21	67.26 ± 0.53	r_{drag}	147.283	147.31 ± 0.27
$\boldsymbol{y_{cal}}$	1.00021	1.0003 ± 0.0024	Ω_Λ	0.6839	0.6845 ± 0.0073	k_D	0.140547	0.14052 ± 0.00030
$\boldsymbol{A^{CIB}_{217}}$	68.1	65.0 ± 6.6	Ω_m	0.3161	0.3155 ± 0.0073	$100\theta_D$	0.160949	0.16095 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14277	0.1427 ± 0.0011	z_{eq}	3396.4	3394 ± 27
$\boldsymbol{A^{tSZ}_{143}}$	7.26	5.25 ± 1.9	$\Omega_m h^3$	0.095960	0.09596 ± 0.00030	k_{eq}	0.010366	0.010360 ± 0.000082
$\boldsymbol{A^{PS}_{100}}$	258.4	264 ± 28	σ_8	0.8095	$0.8104^{+0.0054}_{-0.0063}$	$100\theta_{\mathrm{eq}}$	0.8138	0.8142 ± 0.0050
$\boldsymbol{A^{PS}_{143}}$	39.7	45 ± 8	$\sigma_8 \Omega_m^{0.5}$	0.4551	0.4552 ± 0.0069	$100\theta_{\mathrm{s,eq}}$	0.44975	0.4500 ± 0.0026
$\boldsymbol{A^{PS}_{143\times217}}$	33.2	40^{+10}_{-10}	$\sigma_8 \Omega_m^{0.25}$	0.6070	0.6074 ± 0.0062	$r_{\mathrm{drag}}/D_V(0.57)$	0.071326	0.07136 ± 0.00040
$\boldsymbol{A^{PS}_{217}}$	96.7	97 ± 10	$\sigma_8/h^{0.5}$	0.9874	0.9882 ± 0.0088	$H(0.57)$	92.828	92.85 ± 0.24
$\boldsymbol{A^{kSZ}}$	0.01	< 4.68	$\langle d^2 \rangle^{1/2}$	2.4434	2.447 ± 0.021	$D_A(0.57)$	1393.0	1392.4 ± 7.2
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.46	7.52 ± 1.9	z_{re}	7.57	$7.72^{+0.57}_{-0.89}$	$F_{AP}(0.57)$	0.67718	0.6770 ± 0.0018
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	9.11	9.09 ± 1.8	$10^9 A_s$	2.0917	$2.099^{+0.024}_{-0.035}$	$f\sigma_8(0.57)$	0.47179	0.4722 ± 0.0042
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.85	17.3 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8817	1.882 ± 0.011	$\sigma_8(0.57)$	0.60111	$0.6019^{+0.0035}_{-0.0049}$
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	82.1	81.8 ± 7.3	D_{40}	1232.0	1233 ± 12	f^{143}_{2000}	30.30	30.7 ± 2.6
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0810	0.0812 ± 0.0056	D_{220}	5725.2	5728 ± 38	$f^{143\times217}_{2000}$	32.94	33.1 ± 1.8
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0488	0.0487 ± 0.0050	D_{810}	2536.2	2536 ± 13	f^{217}_{2000}	106.43	106.6 ± 1.8
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0990	0.0997 ± 0.032	D_{1420}	814.99	814.7 ± 4.7	$\chi^2_{\mathrm{lensing}}$	9.26	9.83 ± 1.2
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.0999	0.1003 ± 0.0069	D_{2000}	229.88	229.8 ± 1.6	χ^2_{lowTEB}	10495.58	10495.80 ± 0.99
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2239	0.226 ± 0.046	$n_{\mathrm{s},0.002}$	0.96377	0.9636 ± 0.0041	χ^2_{plik}	2435.9	2453.8 ± 6.6
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.651	0.65 ± 0.13	Y_P	0.245326	0.245325 ± 0.000067	χ^2_{prior}	7.38	20 ± 6
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1417	0.141 ± 0.038	Y_P^{BBN}	0.246652	0.246651 ± 0.000067	χ^2_{CMB}	12940.7	12959.4 ± 6.5
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1322	0.132 ± 0.029	10^5D/H	2.6199	2.620 ± 0.028			
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.301	0.304 ± 0.084	Age/Gyr	13.8168	13.815 ± 0.023			

Best-fit $\chi^2_{\mathrm{eff}} = 12948.08$; $\bar{\chi}^2_{\mathrm{eff}} = 12979.66$; $R - 1 = 0.01869$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.26 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.58 plik_dx11dr2_HM_v18_TTTEEE: 2435.85

2.130 base_CamSpecHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022221	0.02226 ± 0.00023 $(+0.0\sigma)$	H_0	67.76	67.87 ± 0.90 $(+0.1\sigma)$	$100\theta_*$	1.041244	1.04127 ± 0.00045 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11859	0.1184 ± 0.0020 (-0.1σ)	Ω_Λ	0.6919	0.693 ± 0.012 $(+0.1\sigma)$	$z_{\rm drag}$	1059.475	1059.56 ± 0.47 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.041036	1.04106 ± 0.00046 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3081	0.307 ± 0.012 (-0.1σ)	$r_{\rm drag}$	147.632	147.63 ± 0.43 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0675	0.069 ± 0.017 $(+0.2\sigma)$	$\Omega_{\rm m} h^2$	0.14146	0.1414 ± 0.0018 (-0.1σ)	$k_{\rm D}$	0.140201	0.14024 ± 0.00047 (-0.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0635	3.066 ± 0.030 $(+0.1\sigma)$	$\Omega_{\rm m} h^3$	0.095860	0.09592 ± 0.00045 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.161009	0.16096 ± 0.00027 (-0.1σ)
$\boldsymbol{n_s}$	0.9683	0.9697 ± 0.0059 $(+0.3\sigma)$	σ_8	0.8161	0.8168 ± 0.0093 $(+0.2\sigma)$	$z_{\rm eq}$	3365.0	3362 ± 44 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00026	1.0002 ± 0.0025 $(+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4530	0.4526 ± 0.0085 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8197	0.8204 ± 0.0085 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	253.0	247 ± 22 (-0.5σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6080	0.6080 ± 0.0074 $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07179	0.07186 ± 0.00068 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.6	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9914	0.992 ± 0.011 $(+0.2\sigma)$	$H(0.57)$	93.027	93.09 ± 0.41 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	94.0	97 ± 10 $(+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4484	2.447 ± 0.025 (-0.0σ)	$D_{\rm A}(0.57)$	1385.9	1384 ± 12 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	47.6	47 ± 7 (-2.7σ)	$z_{\rm re}$	8.99	9.03 ± 1.5 $(+0.2\sigma)$	$F_{\rm AP}(0.57)$	0.67516	0.6749 ± 0.0031 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	2.55	$3.15^{+1.3}_{-2.6}$ (-1.0σ)	$10^9 A_{\rm s}$	2.140	$2.147^{+0.060}_{-0.069}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4736	0.4737 ± 0.0052 $(+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.389	$0.51^{+0.10}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	1.8701	1.870 ± 0.013 (-0.3σ)	$\sigma_8(0.57)$	0.6080	0.6088 ± 0.0084 $(+0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.590 (-0.2σ)	D_{40}	1221.7	1220 ± 13 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.246237	0.24626 ± 0.00010 (-3.9σ)
$\boldsymbol{A^{kSZ}}$	6.51	$5.56^{+4.3}_{-1.5}$ $(+0.7\sigma)$	D_{220}	5698.0	5697 ± 41 (-0.5σ)	f_{2000}^{143}	30.08	29.2 ± 2.9 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.985	0.99 ± 0.19	D_{810}	2527.7	2529 ± 14 (-0.3σ)	f_{2000}^{217}	107.29	106.6 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.026	1.03 ± 0.18	D_{1420}	813.5	814.4 ± 5.1 (-0.0σ)	$f_{2000}^{143\times217}$	32.36	32.0 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.222	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9683	0.9697 ± 0.0059 $(+0.3\sigma)$	$\chi^2_{\rm lensing}$	9.04	9.79 ± 1.4 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.945	0.98 ± 0.18	$Y_{\rm P}$	0.244908	$0.244929^{+0.000093}_{-0.00011}$ (-3.9σ)	$\chi^2_{\rm lowTEB}$	10494.69	10495.2 ± 1.2 (-0.3σ)
$\boldsymbol{c_{100}}$	0.99662	0.99677 ± 0.00096 (-1.4σ)	Age/Gyr	13.8032	13.797 ± 0.038 (-0.1σ)	$\chi^2_{\rm CamSpec}$	8046.7	8061.2 ± 5.7
$\boldsymbol{c_{217}}$	0.99760	0.9973 ± 0.0018 $(+0.9\sigma)$	z_*	1089.967	1089.90 ± 0.41 (-0.1σ)	$\chi^2_{\rm prior}$	3.83	8.45 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.05	-0.1 ± 1.0	r_*	144.911	144.92 ± 0.43 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18550.4	18566.2 ± 5.8 $(+1329.1\sigma)$

Best-fit $\chi^2_{\rm eff} = 18554.26$; $\Delta\chi^2_{\rm eff} = 7281.83$; $\bar{\chi}^2_{\rm eff} = 18574.65$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.34$; $R - 1 = 0.00808$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.04 (Δ -0.13) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.69 (Δ -0.17) CamSpec like_v9.10CMH_unified: 8046.69

2.131 base_CamSpecHM_TT_lowTEB_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225 ± 0.00020 $(+0.0\sigma)$	Ω_m	0.3077 ± 0.0073 (-0.1σ)	$100\theta_D$	0.16097 ± 0.00026 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.1186 ± 0.0012 (-0.0σ)	$\Omega_m h^2$	0.1415 ± 0.0012 (-0.0σ)	z_{eq}	3365 ± 28 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04105 ± 0.00042 $(+0.1\sigma)$	$\Omega_m h^3$	0.09592 ± 0.00046 $(+0.0\sigma)$	$100\theta_{eq}$	0.8198 ± 0.0052 $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.068 ± 0.013 $(+0.2\sigma)$	σ_8	0.8165 ± 0.0090 $(+0.2\sigma)$	$r_{drag}/D_V(0.57)$	0.07182 ± 0.00041 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.064 ± 0.024 $(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4529 ± 0.0065 $(+0.1\sigma)$	$H(0.57)$	93.06 ± 0.28 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9693 ± 0.0044 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6081 ± 0.0069 $(+0.1\sigma)$	$D_A(0.57)$	1385.1 ± 7.7 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	0.991 ± 0.011 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6751 ± 0.0019 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	248 ± 22 (-0.4σ)	$\langle d^2 \rangle^{1/2}$	2.447 ± 0.025 (-0.1σ)	$f\sigma_8(0.57)$	0.4737 ± 0.0052 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 7 (-0.6σ)	z_{re}	$8.97^{+1.3}_{-1.1}$ $(+0.2\sigma)$	$\sigma_8(0.57)$	0.6083 ± 0.0073 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9 A_s$	2.143 ± 0.052 $(+0.1\sigma)$	Y_P^{BBN}	0.246252 ± 0.000088 (-4.5σ)
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.8σ)	$10^9 A_s e^{-2\tau}$	1.870 ± 0.011 (-0.3σ)	f_{2000}^{143}	29.2 ± 2.8 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.13^{+1.3}_{-2.6}$ (-1.0σ)	D_{40}	1220 ± 12 (-0.5σ)	f_{2000}^{217}	106.6 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{220}	5697 ± 40 (-0.5σ)	$f_{2000}^{143\times217}$	32.0 ± 2.1 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.595 (-0.2σ)	D_{810}	2529 ± 14 (-0.2σ)	$\chi^2_{lensing}$	9.77 ± 1.3 (-0.1σ)
$\boldsymbol{A^{kSZ}}$	$5.56^{+4.3}_{-1.5}$ $(+0.7\sigma)$	D_{1420}	814.4 ± 5.1 (-0.0σ)	χ^2_{lowTEB}	10495.0 ± 1.0 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9693 ± 0.0044 $(+0.4\sigma)$	$\chi^2_{CamSpec}$	8060.9 ± 5.6
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	0.244925 ± 0.000085 (-4.5σ)	χ^2_{6DF}	0.044 ± 0.061 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	13.799 ± 0.029 (-0.0σ)	χ^2_{MGS}	1.54 ± 0.55 $(+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	1089.92 ± 0.31 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.82 ± 0.59 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00096 (-1.4σ)	r_*	144.90 ± 0.30 $(+0.0\sigma)$	$\chi^2_{DR11LOWZ}$	0.55 ± 0.50 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04126 ± 0.00041 $(+0.1\sigma)$	χ^2_{prior}	8.47 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	z_{drag}	1059.55 ± 0.45 (-0.0σ)	χ^2_{CMB}	18565.7 ± 5.6 $(+1349.7\sigma)$
H_0	67.81 ± 0.56 $(+0.1\sigma)$	r_{drag}	147.61 ± 0.33 $(+0.0\sigma)$	χ^2_{BAO}	4.96 ± 0.88 (-0.0σ)
Ω_Λ	0.6923 ± 0.0073 $(+0.1\sigma)$	k_D	0.14025 ± 0.00043 $(+0.0\sigma)$		

$\bar{\chi}^2_{eff} = 18579.11$; $\Delta\bar{\chi}^2_{eff} = 7282.42$; $R - 1 = 0.01472$

2.132 base_CamSpecHM_TT_lowTEB_lensing_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02228 \pm 0.00023 \quad (+0.0\sigma)$	Ω_Λ	$0.694 \pm 0.011 \quad (+0.1\sigma)$	$r_{\rm drag}$	$147.67 \pm 0.41 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1182 \pm 0.0018 \quad (-0.1\sigma)$	$\Omega_{\rm m}$	$0.306 \pm 0.011 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14021 \pm 0.00046 \quad (-0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04109 \pm 0.00046 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1411 \pm 0.0017 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16095 \pm 0.00026 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.070 \pm 0.016 \quad (+0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09593 \pm 0.00046 \quad (+0.0\sigma)$	$z_{\rm eq}$	$3357 \pm 41 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.069 \pm 0.029 \quad (+0.1\sigma)$	σ_8	$0.8172 \pm 0.0093 \quad (+0.2\sigma)$	$100\theta_{\rm eq}$	$0.8214 \pm 0.0080 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9703 \pm 0.0057 \quad (+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4517 \pm 0.0081 \quad (+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07194 \pm 0.00064 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6075 \pm 0.0073 \quad (+0.1\sigma)$	$H(0.57)$	$93.14 \pm 0.39 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$0.991 \pm 0.011 \quad (+0.2\sigma)$	$D_{\rm A}(0.57)$	$1383 \pm 11 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446 \pm 0.025 \quad (-0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6745 \pm 0.0029 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.17 \pm 1.5 \quad (+0.2\sigma)$	$f\sigma_8(0.57)$	$0.4735 \pm 0.0052 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.152^{+0.059}_{-0.067} \quad (+0.1\sigma)$	$\sigma_8(0.57)$	$0.6094 \pm 0.0083 \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.16^{+1.3}_{-2.6} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.869 \pm 0.013 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246264 \pm 0.000098 \quad (-4.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1219 \pm 12 \quad (-0.5\sigma)$	f_{2000}^{143}	$29.1 \pm 2.8 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.596 \quad (-0.2\sigma)$	D_{220}	$5699 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.5 \pm 2.0 \quad (+0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.52^{+4.2}_{-1.6} \quad (+0.7\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.2\sigma)$	$f_{2000}^{143\times217}$	$31.9 \pm 2.1 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.6 \pm 5.1 \quad (-0.0\sigma)$	$\chi^2_{\rm lensing}$	$9.73 \pm 1.3 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9703 \pm 0.0057 \quad (+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.1 \pm 1.2 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$Y_{\rm P}$	$0.244937 \pm 0.000096 \quad (-4.0\sigma)$	$\chi^2_{\rm CamSpec}$	8061.3 ± 5.7
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	$13.793 \pm 0.037 \quad (-0.1\sigma)$	$\chi^2_{\rm JLA}$	$706.71 \pm 0.27 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00095 \quad (-1.4\sigma)$	z_*	$1089.86 \pm 0.39 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.46 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$144.97 \pm 0.41 \quad (+0.1\sigma)$	$\chi^2_{\rm CMB}$	$18566.1 \pm 5.7 \quad (+1332.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04130 \pm 0.00045 \quad (+0.1\sigma)$		
H_0	$67.98 \pm 0.85 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1059.59 \pm 0.47 \quad (-0.0\sigma)$		

$\bar{\chi}^2_{\rm eff} = 19281.30$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.37$; $R - 1 = 0.01071$

2.133 base_CamSpecHM_TT_lowTEB_lensing_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02230 \pm 0.00023 \quad (+0.0\sigma)$	Ω_Λ	$0.695 \pm 0.011 \quad (+0.1\sigma)$	$r_{\rm drag}$	$147.69 \pm 0.42 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1181 \pm 0.0019 \quad (-0.1\sigma)$	$\Omega_{\rm m}$	$0.305 \pm 0.011 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14020 \pm 0.00047 \quad (-0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04112 \pm 0.00046 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1410 \pm 0.0018 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16093 \pm 0.00026 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.071 \pm 0.016 \quad (+0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09595 \pm 0.00046 \quad (+0.0\sigma)$	$z_{\rm eq}$	$3354 \pm 42 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.071 \pm 0.029 \quad (+0.1\sigma)$	σ_8	$0.8175 \pm 0.0093 \quad (+0.2\sigma)$	$100\theta_{\rm eq}$	$0.8221 \pm 0.0082 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9707 \pm 0.0058 \quad (+0.3\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4511 \pm 0.0083 \quad (+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07200 \pm 0.00066 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6072 \pm 0.0073 \quad (+0.1\sigma)$	$H(0.57)$	$93.17 \pm 0.40 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.991 \pm 0.011 \quad (+0.2\sigma)$	$D_{\rm A}(0.57)$	$1382 \pm 12 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446 \pm 0.025 \quad (-0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6743 \pm 0.0029 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.27 \pm 1.5 \quad (+0.2\sigma)$	$f\sigma_8(0.57)$	$0.4734 \pm 0.0052 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.156^{+0.061}_{-0.068} \quad (+0.1\sigma)$	$\sigma_8(0.57)$	$0.6099 \pm 0.0084 \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.17^{+1.3}_{-2.6} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.868 \pm 0.013 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246271 \pm 0.000099 \quad (-4.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1219 \pm 12 \quad (-0.5\sigma)$	f_{2000}^{143}	$29.0 \pm 2.9 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.597 \quad (-0.2\sigma)$	D_{220}	$5700 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.5 \pm 2.0 \quad (+0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.50^{+4.2}_{-1.7} \quad (+0.7\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$31.8 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.8 \pm 5.1 \quad (-0.0\sigma)$	$\chi^2_{\rm lensing}$	$9.71 \pm 1.3 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9707 \pm 0.0058 \quad (+0.3\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.1 \pm 1.2 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$Y_{\rm P}$	$0.244944 \pm 0.000097 \quad (-4.0\sigma)$	$\chi^2_{\rm CamSpec}$	8061.4 ± 5.7
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	$13.790 \pm 0.037 \quad (-0.1\sigma)$	$\chi^2_{\rm H070p6}$	$0.65 \pm 0.40 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00095 \quad (-1.4\sigma)$	z_*	$1089.82 \pm 0.40 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.45 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$144.99 \pm 0.42 \quad (+0.1\sigma)$	$\chi^2_{\rm CMB}$	$18566.2 \pm 5.7 \quad (+1327.1\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04133 \pm 0.00045 \quad (+0.1\sigma)$		
H_0	$68.06 \pm 0.87 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1059.62 \pm 0.47 \quad (-0.0\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18575.32$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.36$; $R - 1 = 0.01041$

2.134 base_CamSpecHM_TT_lowTEB_lensing_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228 ± 0.00020 $(+0.0\sigma)$	$\Omega_m h^2$	0.1412 ± 0.0011 (-0.0σ)	$100\theta_{eq}$	0.8208 ± 0.0051 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1183 ± 0.0012 (-0.0σ)	$\Omega_m h^3$	0.09594 ± 0.00046 $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07190 ± 0.00040 $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04109 ± 0.00041 $(+0.1\sigma)$	σ_8	0.8169 ± 0.0090 $(+0.2\sigma)$	$H(0.57)$	93.12 ± 0.27 $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.069 ± 0.013 $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.4520 ± 0.0064 $(+0.1\sigma)$	$D_A(0.57)$	1383.5 ± 7.4 (-0.0σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.067 ± 0.024 $(+0.1\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.6076 ± 0.0069 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6747 ± 0.0018 (-0.0σ)
$\boldsymbol{n_s}$	0.9699 ± 0.0044 $(+0.4\sigma)$	$\sigma_8/h^{0.5}$	0.991 ± 0.011 $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4736 ± 0.0052 $(+0.2\sigma)$
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\langle d^2\rangle^{1/2}$	2.446 ± 0.025 (-0.1σ)	$\sigma_8(0.57)$	0.6090 ± 0.0073 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	247 ± 22 (-0.4σ)	z_{re}	$9.11^{+1.3}_{-1.1}$ $(+0.2\sigma)$	Y_P^{BBN}	$0.246263^{+0.000096}_{-0.000086}$ (-4.6σ)
$\boldsymbol{A_{143}^{PS}}$	39 ± 7 (-0.6σ)	$10^9 A_s$	2.148 ± 0.052 $(+0.1\sigma)$	f_{2000}^{143}	29.1 ± 2.8 (-0.4σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.869 ± 0.011 (-0.3σ)	f_{2000}^{217}	106.5 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.8σ)	D_{40}	1220 ± 12 (-0.5σ)	$f_{2000}^{143\times217}$	31.9 ± 2.1 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.15^{+1.3}_{-2.6}$ (-1.0σ)	D_{220}	5699 ± 40 (-0.5σ)	$\chi^2_{lensing}$	9.73 ± 1.3 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{810}	2529 ± 14 (-0.2σ)	χ^2_{lowTEB}	10495.0 ± 1.0 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.597 (-0.2σ)	D_{1420}	814.6 ± 5.1 (-0.0σ)	$\chi^2_{CamSpec}$	8061.0 ± 5.6
$\boldsymbol{A^{kSZ}}$	$5.53^{+4.2}_{-1.7}$ $(+0.7\sigma)$	$n_{s,0.002}$	0.9699 ± 0.0044 $(+0.4\sigma)$	χ^2_{H070p6}	0.67 ± 0.26 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	Y_P	0.244935 ± 0.000085 (-4.6σ)	χ^2_{JLA}	706.66 ± 0.16 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Age/Gyr	13.794 ± 0.029 (-0.0σ)	χ^2_{6DF}	0.037 ± 0.052 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	z_*	$1089.87^{+0.29}_{-0.33}$ (-0.1σ)	χ^2_{MGS}	1.65 ± 0.55 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	r_*	144.94 ± 0.30 $(+0.0\sigma)$	$\chi^2_{DR11CMASS}$	2.82 ± 0.58 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00096 (-1.4σ)	$100\theta_*$	1.04129 ± 0.00041 $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.45 ± 0.43 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	z_{drag}	1059.59 ± 0.45 (-0.0σ)	χ^2_{prior}	8.47 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_{drag}	147.64 ± 0.32 $(+0.0\sigma)$	χ^2_{CMB}	18565.7 ± 5.6 $(+1348.8\sigma)$
H_0	67.93 ± 0.54 $(+0.0\sigma)$	k_D	0.14023 ± 0.00042 $(+0.0\sigma)$	χ^2_{BAO}	4.96 ± 0.88 (-0.0σ)
Ω_Λ	0.6938 ± 0.0070 $(+0.0\sigma)$	$100\theta_D$	0.16095 ± 0.00025 (-0.1σ)		
Ω_m	0.3062 ± 0.0070 (-0.0σ)	z_{eq}	3360 ± 27 (-0.0σ)		

$\bar{\chi}^2_{eff} = 19286.43$; $\Delta\bar{\chi}^2_{eff} = 7282.41$; $R - 1 = 0.01426$

2.135 base_CamSpecHM_TT_lowTEB_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228 ± 0.00023 $(+0.0\sigma)$	H_0	67.94 ± 0.86 $(+0.0\sigma)$	$100\theta_*$	1.04129 ± 0.00045 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1183 ± 0.0018 (-0.0σ)	Ω_Λ	0.694 ± 0.011 $(+0.0\sigma)$	$z_{\rm drag}$	1059.58 ± 0.47 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04109 ± 0.00046 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.306 ± 0.011 (-0.0σ)	$r_{\rm drag}$	147.65 ± 0.42 $(+0.0\sigma)$
$\boldsymbol{\tau}$	$0.071^{+0.013}_{-0.018}$ $(+0.2\sigma)$	$\Omega_{\rm m}h^2$	0.1412 ± 0.0017 (-0.0σ)	$k_{\rm D}$	0.14022 ± 0.00046 $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.069^{+0.023}_{-0.032}$ $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09593 ± 0.00046 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.16095 ± 0.00026 (-0.1σ)
$\boldsymbol{n_s}$	$0.9701^{+0.0054}_{-0.0062}$ $(+0.3\sigma)$	σ_8	$0.8177^{+0.0083}_{-0.0094}$ $(+0.2\sigma)$	$z_{\rm eq}$	3359 ± 42 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 $(+0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4523 ± 0.0084 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8210 ± 0.0080 $(+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	247 ± 23 (-0.4σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6081 ± 0.0073 $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07192^{+0.00062}_{-0.00069}$ $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.992 ± 0.010 $(+0.2\sigma)$	$H(0.57)$	$93.12^{+0.38}_{-0.42}$ $(+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.448 ± 0.024 (-0.1σ)	$D_{\rm A}(0.57)$	1383 ± 12 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$z_{\rm re}$	$9.21^{+1.3}_{-1.5}$ $(+0.2\sigma)$	$F_{\rm AP}(0.57)$	0.6746 ± 0.0029 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.15^{+1.3}_{-2.6}$ (-1.0σ)	$10^9A_{\rm s}$	$2.153^{+0.049}_{-0.071}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4739 ± 0.0051 $(+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.869 ± 0.013 (-0.3σ)	$\sigma_8(0.57)$	$0.6097^{+0.0068}_{-0.0091}$ $(+0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.596 (-0.2σ)	D_{40}	1220 ± 12 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.246261 ± 0.000098 (-4.0σ)
$\boldsymbol{A^{kSZ}}$	$5.52^{+4.2}_{-1.7}$ $(+0.7\sigma)$	D_{220}	5698 ± 41 (-0.5σ)	f_{2000}^{143}	29.1 ± 2.8 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	2529 ± 14 (-0.2σ)	f_{2000}^{217}	106.5 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{1420}	814.5 ± 5.1 (-0.0σ)	$f_{2000}^{143\times217}$	31.9 ± 2.1 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$n_{\rm s,0.002}$	$0.9701^{+0.0054}_{-0.0062}$ $(+0.3\sigma)$	$\chi^2_{\rm lensing}$	9.79 ± 1.4 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$Y_{\rm P}$	$0.244934^{+0.000092}_{-0.00010}$ (-4.0σ)	$\chi^2_{\rm lowTEB}$	10495.1 ± 1.1 (-0.3σ)
$\boldsymbol{c_{100}}$	0.99679 ± 0.00095 (-1.4σ)	Age/Gyr	13.794 ± 0.037 (-0.0σ)	$\chi^2_{\rm CamSpec}$	8061.2 ± 5.7
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	z_*	1089.87 ± 0.40 (-0.1σ)	$\chi^2_{\rm prior}$	8.46 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	144.95 ± 0.42 $(+0.0\sigma)$	$\chi^2_{\rm CMB}$	18566.0 ± 5.6 $(+1342.7\sigma)$

$\bar{\chi}^2_{\rm eff} = 18574.51$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.45$; $R - 1 = 0.01130$

2.136 base_CamSpecHM_TT_lowTEB_lensing_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02226 ± 0.00020 $(+0.0\sigma)$	Ω_m	0.3075 ± 0.0072 (-0.0σ)	$100\theta_D$	0.16097 ± 0.00026 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0012 (-0.0σ)	$\Omega_m h^2$	0.1414 ± 0.0011 (-0.0σ)	z_{eq}	3364 ± 27 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04106 ± 0.00041 $(+0.0\sigma)$	$\Omega_m h^3$	0.09592 ± 0.00046 $(+0.0\sigma)$	$100\theta_{eq}$	0.8200 ± 0.0052 $(+0.0\sigma)$
$\boldsymbol{\tau}$	$0.069^{+0.012}_{-0.013}$ $(+0.2\sigma)$	σ_8	0.8170 ± 0.0085 $(+0.2\sigma)$	$r_{drag}/D_V(0.57)$	0.07183 ± 0.00041 $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.066^{+0.022}_{-0.025}$ $(+0.1\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.4530 ± 0.0065 $(+0.1\sigma)$	$H(0.57)$	93.07 ± 0.27 $(+0.0\sigma)$
$\boldsymbol{n_s}$	0.9694 ± 0.0044 $(+0.4\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.6083 ± 0.0067 $(+0.1\sigma)$	$D_A(0.57)$	1384.9 ± 7.5 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	0.992 ± 0.010 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6750 ± 0.0018 (-0.0σ)
$\boldsymbol{A_{100}^{PS}}$	248 ± 22 (-0.4σ)	$\langle d^2\rangle^{1/2}$	2.448 ± 0.024 (-0.1σ)	$f\sigma_8(0.57)$	0.4739 ± 0.0049 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	z_{re}	9.05 ± 1.1 $(+0.2\sigma)$	$\sigma_8(0.57)$	$0.6088^{+0.0066}_{-0.0077}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9 A_s$	$2.146^{+0.046}_{-0.055}$ $(+0.1\sigma)$	Y_P^{BBN}	0.246253 ± 0.000088 (-4.5σ)
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.8σ)	$10^9 A_s e^{-2\tau}$	1.870 ± 0.011 (-0.3σ)	f_{2000}^{143}	29.2 ± 2.8 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.14^{+1.3}_{-2.6}$ (-1.0σ)	D_{40}	1220 ± 12 (-0.5σ)	f_{2000}^{217}	106.6 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{220}	5697 ± 41 (-0.5σ)	$f_{2000}^{143\times217}$	32.0 ± 2.1 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.596 (-0.2σ)	D_{810}	2529 ± 14 (-0.2σ)	$\chi^2_{lensing}$	9.77 ± 1.3 (-0.1σ)
$\boldsymbol{A^{kSZ}}$	$5.55^{+4.3}_{-1.6}$ $(+0.7\sigma)$	D_{1420}	814.4 ± 5.1 (-0.0σ)	χ^2_{lowTEB}	10495.0 ± 1.0 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9694 ± 0.0044 $(+0.4\sigma)$	$\chi^2_{CamSpec}$	8060.9 ± 5.6
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	0.244926 ± 0.000085 (-4.6σ)	χ^2_{6DF}	0.042 ± 0.057 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	13.798 ± 0.029 (-0.0σ)	χ^2_{MGS}	1.56 ± 0.55 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	1089.92 ± 0.30 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.81 ± 0.57 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00096 (-1.4σ)	r_*	144.90 ± 0.30 $(+0.0\sigma)$	$\chi^2_{DR11LOWZ}$	0.53 ± 0.48 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04126 ± 0.00041 $(+0.1\sigma)$	χ^2_{prior}	8.47 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	z_{drag}	1059.55 ± 0.45 (-0.0σ)	χ^2_{CMB}	18565.6 ± 5.5 $(+1360.2\sigma)$
H_0	67.83 ± 0.55 $(+0.0\sigma)$	r_{drag}	147.61 ± 0.33 $(+0.0\sigma)$	χ^2_{BAO}	4.94 ± 0.85 $(+0.0\sigma)$
Ω_Λ	0.6925 ± 0.0072 $(+0.0\sigma)$	k_D	0.14025 ± 0.00043 $(+0.0\sigma)$		

$\bar{\chi}^2_{eff} = 18579.00$; $\Delta\bar{\chi}^2_{eff} = 7282.47$; $R - 1 = 0.01600$

2.137 base_CamSpecHM_TT_lowTEB_lensing_post_reion

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02217^{+0.00020}_{-0.00022}$ (-0.1σ)	H_0	67.29 ± 0.67 (-0.1σ)	$100\theta_*$	$1.04110^{+0.00040}_{-0.00045}$ $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1197 ± 0.0015 $(+0.1\sigma)$	Ω_Λ	0.6852 ± 0.0092 (-0.1σ)	$z_{\rm drag}$	1059.43 ± 0.44 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	$1.04088^{+0.00040}_{-0.00046}$ (-0.0σ)	$\Omega_{\rm m}$	0.3148 ± 0.0092 $(+0.1\sigma)$	$r_{\rm drag}$	147.40 ± 0.36 (-0.1σ)
$\boldsymbol{\tau}$	$0.0551^{+0.0056}_{-0.0090}$ $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.1425 ± 0.0014 $(+0.1\sigma)$	$k_{\rm D}$	0.14040 ± 0.00044 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.042^{+0.012}_{-0.016}$ (-0.0σ)	$\Omega_{\rm m} h^3$	0.09588 ± 0.00044 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.16103 ± 0.00025 (-0.0σ)
$\boldsymbol{n_s}$	0.9662 ± 0.0044 $(+0.3\sigma)$	σ_8	0.8104 ± 0.0061 $(+0.1\sigma)$	$z_{\rm eq}$	3390 ± 34 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0026 $(+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4547 ± 0.0084 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8150 ± 0.0063 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	250 ± 22 (-0.5σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6070 ± 0.0074 $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07142 ± 0.00050 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	40 ± 7 (-0.6σ)	$\sigma_8/h^{0.5}$	0.988 ± 0.010 $(+0.1\sigma)$	$H(0.57)$	92.85 ± 0.31 (-0.1σ)
$\boldsymbol{A_{217}^{PS}}$	96 ± 10 $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.438 ± 0.023 (-0.1σ)	$D_{\rm A}(0.57)$	1392.1 ± 9.1 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.7σ)	$z_{\rm re}$	$7.78^{+0.60}_{-0.89}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6769 ± 0.0023 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.03^{+1.2}_{-2.5}$ (-0.9σ)	$10^9 A_{\rm s}$	$2.095^{+0.025}_{-0.034}$ (-0.0σ)	$f\sigma_8(0.57)$	0.4719 ± 0.0048 $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	1.876 ± 0.011 (-0.2σ)	$\sigma_8(0.57)$	$0.6021^{+0.0038}_{-0.0047}$ $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.585 (-0.2σ)	D_{40}	1223 ± 12 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	$0.246215^{+0.000086}_{-0.000099}$ (-4.4σ)
$\boldsymbol{A^{kSZ}}$	> 4.37 $(+0.7\sigma)$	D_{220}	5697 ± 42 (-0.5σ)	f_{2000}^{143}	$29.9^{+2.9}_{-2.6}$ (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.996 ± 0.19	D_{810}	2532 ± 14 (-0.2σ)	f_{2000}^{217}	107.1 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{1420}	814.3 ± 5.1 (-0.0σ)	$f_{2000}^{143\times217}$	$32.6^{+2.1}_{-1.9}$ (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9662 ± 0.0044 $(+0.3\sigma)$	$\chi^2_{\rm lensing}$	9.57 ± 1.1 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$Y_{\rm P}$	$0.244889^{+0.000078}_{-0.000094}$ (-4.4σ)	$\chi^2_{\rm lowTEB}$	10495.00 ± 0.95 (-0.5σ)
$\boldsymbol{c_{100}}$	0.99679 ± 0.00094 (-1.4σ)	Age/Gyr	13.817 ± 0.031 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8061.5 ± 5.6
$\boldsymbol{c_{217}}$	0.9974 ± 0.0017 $(+0.9\sigma)$	z_*	1090.13 ± 0.34 $(+0.0\sigma)$	$\chi^2_{\rm prior}$	9.61 ± 3.8 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	144.67 ± 0.35 (-0.1σ)	$\chi^2_{\rm CMB}$	18566.1 ± 5.6 $(+1368.3\sigma)$

$\bar{\chi}^2_{\rm eff} = 18575.70$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.58$; $R - 1 = 0.02751$

2.138 base_CamSpecHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022355	0.02237 ± 0.00016 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.03	-0.07 ± 0.98	$100\theta_*$	1.041088	1.04109 ± 0.00030 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11868	0.1187 ± 0.0014 (-0.4σ)	H_0	67.80	67.80 ± 0.63 $(+0.5\sigma)$	$z_{\rm drag}$	1059.780	1059.82 ± 0.32 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040885	1.04089 ± 0.00031 $(+0.1\sigma)$	Ω_Λ	0.6918	0.6916 ± 0.0084 $(+0.4\sigma)$	$r_{\rm drag}$	147.461	147.44 ± 0.30 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0668	0.066 ± 0.014 $(+0.3\sigma)$	$\Omega_{\rm m}$	0.3082	0.3084 ± 0.0084 (-0.4σ)	$k_{\rm D}$	0.140483	0.14051 ± 0.00033 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0624	3.062 ± 0.026 $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.14168	0.1417 ± 0.0013 (-0.3σ)	$100\theta_{\rm D}$	0.160799	0.16078 ± 0.00019 (-0.8σ)
$\boldsymbol{n_s}$	0.96839	0.9686 ± 0.0047 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.096053	0.09608 ± 0.00030 $(+0.4\sigma)$	$z_{\rm eq}$	3370.2	3371 ± 31 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.00008	1.0001 ± 0.0025 (-0.0σ)	σ_8	0.8153	0.8150 ± 0.0089 $(+0.0\sigma)$	$100\theta_{\rm eq}$	0.8190	0.8189 ± 0.0059 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	246.6	245 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4526	0.4525 ± 0.0068 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071750	0.07175 ± 0.00047 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.6	39 ± 7 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6075	0.6073 ± 0.0068 (-0.3σ)	$H(0.57)$	93.084	93.10 ± 0.28 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	96.7	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9901	0.990 ± 0.011 (-0.2σ)	$D_{\rm A}(0.57)$	1385.1	1385.0 ± 8.4 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	48.1	46 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.4472	2.446 ± 0.025 (-0.4σ)	$F_{\rm AP}(0.57)$	0.67520	0.6752 ± 0.0021 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	4.03	$3.29^{+1.5}_{-2.5}$ (-1.0σ)	$z_{\rm re}$	8.89	$8.79^{+1.4}_{-1.2}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4732	0.4730 ± 0.0051 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.440	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	2.138	2.137 ± 0.055 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6073	0.6071 ± 0.0075 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.589 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8707	1.871 ± 0.012 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246296	0.246301 ± 0.000069 (-5.1σ)
$\boldsymbol{A^{kSZ}}$	3.95	$5.43^{+4.0}_{-2.0}$ $(+0.8\sigma)$	D_{40}	1222.3	1222 ± 12 (-0.8σ)	f_{2000}^{143}	29.08	28.8 ± 2.6 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.986	0.99 ± 0.19	D_{220}	5708.9	5709 ± 39 (-0.4σ)	f_{2000}^{217}	106.39	106.2 ± 1.9 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.030	1.03 ± 0.18	D_{810}	2528.6	2529 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.70	31.5 ± 1.9 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.200	1.21 ± 0.12	D_{1420}	814.47	814.7 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lensing}$	9.24	9.90 ± 1.5 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.970	0.99 ± 0.18	$n_{\rm s,0.002}$	0.96839	0.9686 ± 0.0047 $(+0.7\sigma)$	$\chi^2_{\rm lowTEB}$	10494.71	10495.2 ± 1.0 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99670	0.99676 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.244965	$0.244972^{+0.000067}_{-0.000074}$ (-5.2σ)	$\chi^2_{\rm CamSpec}$	12938.0	12953.7 ± 6.0
$\boldsymbol{c_{217}}$	0.99713	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.7943	13.793 ± 0.025 (-0.5σ)	$\chi^2_{\rm prior}$	3.52	9.07 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.00504	1.0052 ± 0.0044	z_*	1089.805	1089.80 ± 0.29 (-0.7σ)	$\chi^2_{\rm CMB}$	23442.0	23458.8 ± 6.0 $(+1572.2\sigma)$
$\boldsymbol{c_{EE}}$	1.00141	1.0013 ± 0.0042	r_*	144.787	144.77 ± 0.31 $(+0.2\sigma)$			

Best-fit $\chi^2_{\rm eff} = 23445.50$; $\Delta\chi^2_{\rm eff} = 10498.32$; $\bar{\chi}^2_{\rm eff} = 23467.87$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.75$; $R - 1 = 0.00689$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.24 (Δ -0.54) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.71 (Δ -0.58) CamSpec like_v9.10CMH_unified: 12938.03

2.139 base_CamSpecHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00014 \quad (+0.6\sigma)$	Ω_Λ	$0.6919 \pm 0.0062 \quad (+0.3\sigma)$	$100\theta_{\rm D}$	$0.16078 \pm 0.00018 \quad (-0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1187 \pm 0.0010 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3081 \pm 0.0062 \quad (-0.3\sigma)$	$z_{\rm eq}$	$3370 \pm 23 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04090 \pm 0.00029 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.14168 \pm 0.00098 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8191 \pm 0.0044 \quad (+0.3\sigma)$
$\boldsymbol{\tau}$	$0.067 \pm 0.012 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.09608 \pm 0.00030 \quad (+0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07176 \pm 0.00035 \quad (+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.062 \pm 0.023 \quad (+0.0\sigma)$	σ_8	$0.8151 \pm 0.0087 \quad (-0.1\sigma)$	$H(0.57)$	$93.10 \pm 0.22 \quad (+0.4\sigma)$
$\boldsymbol{n_s}$	$0.9687 \pm 0.0040 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4524 \pm 0.0060 \quad (-0.3\sigma)$	$D_{\rm A}(0.57)$	$1384.8 \pm 6.3 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6072 \pm 0.0066 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6752 \pm 0.0016 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.990 \pm 0.010 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4730 \pm 0.0050 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 7 \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446 \pm 0.025 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.6072 \pm 0.0070 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$8.82^{+1.3}_{-1.1} \quad (+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246302 \pm 0.000063 \quad (-5.9\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.9\sigma)$	$10^9 A_{\rm s}$	$2.138 \pm 0.049 \quad (+0.0\sigma)$	f_{2000}^{143}	$28.7 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.31^{+1.4}_{-2.6} \quad (-1.1\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.871 \pm 0.011 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.2 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	D_{40}	$1222 \pm 11 \quad (-0.7\sigma)$	$f_{2000}^{143\times217}$	$31.5 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.589 \quad (-0.2\sigma)$	D_{220}	$5709 \pm 39 \quad (-0.4\sigma)$	$\chi^2_{\rm lensing}$	$9.88 \pm 1.5 \quad (-0.3\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.41^{+3.9}_{-2.1} \quad (+0.8\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.06 \pm 0.97 \quad (-0.6\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.8 \pm 4.8 \quad (+0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12953.4 ± 5.9
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9687 \pm 0.0040 \quad (+0.6\sigma)$	$\chi^2_{\rm 6DF}$	$0.037 \pm 0.050 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$Y_{\rm P}$	$0.244973 \pm 0.000063 \quad (-6.0\sigma)$	$\chi^2_{\rm MGS}$	$1.47 \pm 0.46 \quad (+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	$13.792 \pm 0.021 \quad (-0.5\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.72 \pm 0.43 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99676 \pm 0.00097 \quad (-1.8\sigma)$	z_*	$1089.79 \pm 0.23 \quad (-0.7\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.57 \pm 0.44 \quad (-0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.78 \pm 0.24 \quad (+0.0\sigma)$	$\chi^2_{\rm prior}$	$9.05 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0052 ± 0.0043	$100\theta_*$	$1.04109 \pm 0.00028 \quad (-0.0\sigma)$	$\chi^2_{\rm CMB}$	$23458.3 \pm 5.8 \quad (+1581.3\sigma)$
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0042	$z_{\rm drag}$	$1059.82 \pm 0.31 \quad (+0.6\sigma)$	$\chi^2_{\rm BAO}$	$4.80 \pm 0.64 \quad (-0.1\sigma)$
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$r_{\rm drag}$	$147.45 \pm 0.25 \quad (-0.1\sigma)$		
H_0	$67.82 \pm 0.47 \quad (+0.4\sigma)$	$k_{\rm D}$	$0.14050 \pm 0.00031 \quad (+0.4\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23472.18$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.54$; $R - 1 = 0.00759$

2.140 base_CamSpecHM_TTTEEE_lowTEB_lensing_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00016 \quad (+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$100\theta_*$	$1.04110 \pm 0.00030 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1186 \pm 0.0013 \quad (-0.4\sigma)$	H_0	$67.86 \pm 0.61 \quad (+0.4\sigma)$	$z_{\rm drag}$	$1059.83 \pm 0.32 \quad (+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04091 \pm 0.00031 \quad (+0.1\sigma)$	Ω_Λ	$0.6924 \pm 0.0082 \quad (+0.4\sigma)$	$r_{\rm drag}$	$147.46 \pm 0.30 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.067 \pm 0.014 \quad (+0.2\sigma)$	$\Omega_{\rm m}$	$0.3076 \pm 0.0082 \quad (-0.4\sigma)$	$k_{\rm D}$	$0.14049 \pm 0.00033 \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.063 \pm 0.025 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1416 \pm 0.0013 \quad (-0.3\sigma)$	$100\theta_{\rm D}$	$0.16078 \pm 0.00019 \quad (-0.8\sigma)$
$\boldsymbol{n_s}$	$0.9689 \pm 0.0046 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^3$	$0.09608 \pm 0.00030 \quad (+0.4\sigma)$	$z_{\rm eq}$	$3368 \pm 30 \quad (-0.3\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001 \pm 0.0025 \quad (-0.0\sigma)$	σ_8	$0.8152 \pm 0.0089 \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.8195 \pm 0.0058 \quad (+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4521 \pm 0.0067 \quad (-0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07179 \pm 0.00046 \quad (+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 7 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6071 \pm 0.0068 \quad (-0.3\sigma)$	$H(0.57)$	$93.12 \pm 0.27 \quad (+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990 \pm 0.011 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1384.2 \pm 8.2 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446 \pm 0.025 \quad (-0.4\sigma)$	$F_{\rm AP}(0.57)$	$0.6750 \pm 0.0021 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.32^{+1.5}_{-2.6} \quad (-1.1\sigma)$	$z_{\rm re}$	$8.86^{+1.4}_{-1.2} \quad (+0.2\sigma)$	$f\sigma_8(0.57)$	$0.4729 \pm 0.0050 \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	$10^9 A_{\rm s}$	$2.140 \pm 0.054 \quad (+0.1\sigma)$	$\sigma_8(0.57)$	$0.6074 \pm 0.0074 \quad (+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.588 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.012 \quad (-0.6\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246305 \pm 0.000068 \quad (-5.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.40^{+3.9}_{-2.1} \quad (+0.8\sigma)$	D_{40}	$1222 \pm 12 \quad (-0.8\sigma)$	f_{2000}^{143}	$28.7 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5710 \pm 39 \quad (-0.4\sigma)$	f_{2000}^{217}	$106.2 \pm 1.9 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.5 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	D_{1420}	$814.9 \pm 4.8 \quad (+0.0\sigma)$	$\chi^2_{\rm lensing}$	$9.87 \pm 1.5 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$n_{\rm s,0.002}$	$0.9689 \pm 0.0046 \quad (+0.7\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.1 \pm 1.0 \quad (-0.6\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00097 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.244976 \pm 0.000069 \quad (-5.3\sigma)$	$\chi^2_{\rm CamSpec}$	12953.8 ± 6.0
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.791 \pm 0.025 \quad (-0.5\sigma)$	$\chi^2_{\rm JLA}$	$706.70 \pm 0.20 \quad (-0.4\sigma)$
$\boldsymbol{c_{TE}}$	1.0052 ± 0.0043	z_*	$1089.77 \pm 0.28 \quad (-0.7\sigma)$	$\chi^2_{\rm prior}$	$9.06 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0042	r_*	$144.80 \pm 0.30 \quad (+0.2\sigma)$	$\chi^2_{\rm CMB}$	$23458.8 \pm 6.0 \quad (+1564.9\sigma)$

$\bar{\chi}^2_{\rm eff} = 24174.51$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.59$; $R - 1 = 0.00795$

2.141 base_CamSpecHM_TTTEEE_lowTEB_lensing_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02238 ± 0.00016 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$100\theta_*$	1.04111 ± 0.00030 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0014 (-0.4σ)	H_0	67.90 ± 0.62 $(+0.4\sigma)$	$z_{\rm drag}$	1059.85 ± 0.32 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04092 ± 0.00031 $(+0.1\sigma)$	Ω_Λ	0.6929 ± 0.0083 $(+0.4\sigma)$	$r_{\rm drag}$	147.48 ± 0.30 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.068 ± 0.014 $(+0.2\sigma)$	$\Omega_{\rm m}$	0.3071 ± 0.0083 (-0.4σ)	$k_{\rm D}$	0.14049 ± 0.00033 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.064 ± 0.025 $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.1415 ± 0.0013 (-0.3σ)	$100\theta_{\rm D}$	0.16077 ± 0.00019 (-0.8σ)
$\boldsymbol{n_s}$	0.9691 ± 0.0046 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.09609 ± 0.00030 $(+0.4\sigma)$	$z_{\rm eq}$	3367 ± 31 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.0σ)	σ_8	0.8154 ± 0.0089 (-0.0σ)	$100\theta_{\rm eq}$	0.8198 ± 0.0059 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	245 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4518 ± 0.0068 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07182 ± 0.00047 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6069 ± 0.0068 (-0.3σ)	$H(0.57)$	93.14 ± 0.27 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.990 ± 0.011 (-0.2σ)	$D_{\rm A}(0.57)$	1383.8 ± 8.3 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.446 ± 0.025 (-0.4σ)	$F_{\rm AP}(0.57)$	0.6749 ± 0.0021 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.33^{+1.5}_{-2.6}$ (-1.1σ)	$z_{\rm re}$	$8.91^{+1.4}_{-1.2}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4729 ± 0.0051 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	$10^9 A_{\rm s}$	2.142 ± 0.054 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6077 ± 0.0074 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.588 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.870 ± 0.012 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246308 ± 0.000069 (-5.2σ)
$\boldsymbol{A^{kSZ}}$	$5.39^{+3.9}_{-2.1}$ $(+0.8\sigma)$	D_{40}	1222 ± 12 (-0.8σ)	f_{2000}^{143}	28.7 ± 2.6 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5710 ± 39 (-0.4σ)	f_{2000}^{217}	106.1 ± 1.9 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	2529 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.4 ± 1.9 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	D_{1420}	814.9 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lensing}$	9.86 ± 1.5 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$n_{\rm s,0.002}$	0.9691 ± 0.0046 $(+0.7\sigma)$	$\chi^2_{\rm lowTEB}$	10495.1 ± 1.0 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99677 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.244979 ± 0.000069 (-5.3σ)	$\chi^2_{\rm CamSpec}$	12953.8 ± 6.0
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.790 ± 0.025 (-0.5σ)	$\chi^2_{\rm H070p6}$	0.70 ± 0.30 (-0.4σ)
$\boldsymbol{c_{TE}}$	1.0051 ± 0.0043	z_*	1089.76 ± 0.28 (-0.7σ)	$\chi^2_{\rm prior}$	9.06 ± 3.6 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0013 ± 0.0042	r_*	144.81 ± 0.30 $(+0.2\sigma)$	$\chi^2_{\rm CMB}$	23458.8 ± 6.0 $(+1563.4\sigma)$

$\bar{\chi}^2_{\rm eff} = 23468.55$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.55$; $R - 1 = 0.00822$

2.142 base_CamSpecHM_TTTEEE_lowTEB_lensing_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02239 ± 0.00014 $(+0.6\sigma)$	Ω_Λ	0.6930 ± 0.0061 $(+0.3\sigma)$	$100\theta_{\rm D}$	0.16077 ± 0.00018 (-0.8σ)
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0010 (-0.3σ)	$\Omega_{\rm m}$	0.3070 ± 0.0061 (-0.3σ)	$z_{\rm eq}$	3366 ± 23 (-0.2σ)
$\boldsymbol{100\theta_{MC}}$	1.04092 ± 0.00028 (-0.0σ)	$\Omega_{\rm m}h^2$	0.14151 ± 0.00096 (-0.2σ)	$100\theta_{\rm eq}$	0.8198 ± 0.0044 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.068 ± 0.012 $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09609 ± 0.00030 $(+0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07182 ± 0.00034 $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.064 ± 0.023 (-0.0σ)	σ_8	0.8154 ± 0.0087 (-0.1σ)	$H(0.57)$	93.14 ± 0.21 $(+0.4\sigma)$
$\boldsymbol{n_s}$	0.9692 ± 0.0040 $(+0.6\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4518 ± 0.0059 (-0.3σ)	$D_{\rm A}(0.57)$	1383.7 ± 6.1 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6069 ± 0.0066 (-0.2σ)	$F_{\rm AP}(0.57)$	0.6749 ± 0.0015 (-0.3σ)
$\boldsymbol{A_{100}^{PS}}$	245 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	0.990 ± 0.010 (-0.2σ)	$f\sigma_8(0.57)$	0.4729 ± 0.0050 (-0.2σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.446 ± 0.025 (-0.4σ)	$\sigma_8(0.57)$	0.6077 ± 0.0069 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	$8.93^{+1.3}_{-1.1}$ $(+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246309 ± 0.000062 (-6.0σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.9σ)	$10^9A_{\rm s}$	2.142 ± 0.049 (-0.0σ)	f_{2000}^{143}	28.6 ± 2.6 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.33^{+1.5}_{-2.6}$ (-1.1σ)	$10^9A_{\rm s}e^{-2\tau}$	1.870 ± 0.011 (-0.6σ)	f_{2000}^{217}	106.1 ± 1.8 $(+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	D_{40}	1222 ± 11 (-0.7σ)	$f_{2000}^{143\times217}$	31.4 ± 1.9 (-0.6σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.589 (-0.2σ)	D_{220}	5710 ± 39 (-0.5σ)	$\chi^2_{\rm lensing}$	9.84 ± 1.4 (-0.3σ)
$\boldsymbol{A^{kSZ}}$	$5.38^{+3.8}_{-2.2}$ $(+0.8\sigma)$	D_{810}	2529 ± 14 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10495.02 ± 0.97 (-0.6σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	814.9 ± 4.8 (-0.0σ)	$\chi^2_{\rm CamSpec}$	12953.5 ± 5.9
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	0.9692 ± 0.0040 $(+0.6\sigma)$	$\chi^2_{\rm H070p6}$	0.68 ± 0.22 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$Y_{\rm P}$	0.244979 ± 0.000063 (-6.1σ)	$\chi^2_{\rm JLA}$	706.66 ± 0.14 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	13.789 ± 0.021 (-0.5σ)	$\chi^2_{\rm 6DF}$	0.031 ± 0.043 (-0.2σ)
$\boldsymbol{c_{100}}$	0.99676 ± 0.00097 (-1.8σ)	z_*	1089.75 ± 0.23 (-0.7σ)	$\chi^2_{\rm MGS}$	1.55 ± 0.46 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	r_*	144.81 ± 0.24 $(+0.0\sigma)$	$\chi^2_{\rm DR11CMASS}$	2.70 ± 0.41 (-0.0σ)
$\boldsymbol{c_{TE}}$	1.0051 ± 0.0043	$100\theta_*$	1.04112 ± 0.00028 (-0.0σ)	$\chi^2_{\rm DR11LOWZ}$	0.50 ± 0.40 (-0.3σ)
$\boldsymbol{c_{EE}}$	1.0013 ± 0.0042	$z_{\rm drag}$	1059.85 ± 0.31 $(+0.6\sigma)$	$\chi^2_{\rm prior}$	9.05 ± 3.6 (-1.9σ)
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$r_{\rm drag}$	147.48 ± 0.25 (-0.1σ)	$\chi^2_{\rm CMB}$	23458.3 ± 5.8 $(+1580.5\sigma)$
H_0	67.90 ± 0.46 $(+0.4\sigma)$	$k_{\rm D}$	0.14049 ± 0.00030 $(+0.4\sigma)$	$\chi^2_{\rm BAO}$	4.78 ± 0.62 (-0.0σ)

$\bar{\chi}^2_{\rm eff} = 24179.52$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.42$; $R - 1 = 0.00745$

2.143 base_CamSpecHM_TTTEEE_lowTEB_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00016 \quad (+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	$100\theta_*$	$1.04110 \pm 0.00030 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1186 \pm 0.0013 \quad (-0.4\sigma)$	H_0	$67.84 \pm 0.61 \quad (+0.5\sigma)$	$z_{\rm drag}$	$1059.83 \pm 0.32 \quad (+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04090 \pm 0.00030 \quad (+0.1\sigma)$	Ω_Λ	$0.6922 \pm 0.0081 \quad (+0.4\sigma)$	$r_{\rm drag}$	$147.46 \pm 0.30 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.068^{+0.012}_{-0.014} \quad (+0.2\sigma)$	$\Omega_{\rm m}$	$0.3078 \pm 0.0081 \quad (-0.4\sigma)$	$k_{\rm D}$	$0.14050 \pm 0.00033 \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.064^{+0.022}_{-0.027} \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1416 \pm 0.0013 \quad (-0.3\sigma)$	$100\theta_{\rm D}$	$0.16078 \pm 0.00019 \quad (-0.8\sigma)$
$\boldsymbol{n_s}$	$0.9689 \pm 0.0045 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^3$	$0.09608 \pm 0.00030 \quad (+0.4\sigma)$	$z_{\rm eq}$	$3369 \pm 30 \quad (-0.3\sigma)$
$\boldsymbol{y_{cal}}$	$1.0000 \pm 0.0025 \quad (-0.0\sigma)$	σ_8	$0.8158^{+0.0078}_{-0.0092} \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.8193 \pm 0.0058 \quad (+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4526 \pm 0.0068 \quad (-0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07178 \pm 0.00046 \quad (+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 7 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6076 \pm 0.0067 \quad (-0.3\sigma)$	$H(0.57)$	$93.11^{+0.26}_{-0.29} \quad (+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990 \pm 0.010 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1384.5 \pm 8.1 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.448 \pm 0.024 \quad (-0.4\sigma)$	$F_{\rm AP}(0.57)$	$0.6751 \pm 0.0021 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.32^{+1.5}_{-2.6} \quad (-1.1\sigma)$	$z_{\rm re}$	$8.93 \pm 1.2 \quad (+0.2\sigma)$	$f\sigma_8(0.57)$	$0.4733 \pm 0.0049 \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	$10^9 A_{\rm s}$	$2.142^{+0.045}_{-0.058} \quad (+0.1\sigma)$	$\sigma_8(0.57)$	$0.6078^{+0.0063}_{-0.0078} \quad (+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.589 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246303 \pm 0.000068 \quad (-5.3\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.41^{+3.9}_{-2.1} \quad (+0.8\sigma)$	D_{40}	$1222 \pm 11 \quad (-0.8\sigma)$	f_{2000}^{143}	$28.7 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5709 \pm 39 \quad (-0.4\sigma)$	f_{2000}^{217}	$106.2 \pm 1.9 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.5 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	$814.7 \pm 4.8 \quad (+0.0\sigma)$	$\chi^2_{\rm lensing}$	$9.92 \pm 1.5 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$n_{\rm s,0.002}$	$0.9689 \pm 0.0045 \quad (+0.7\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.1 \pm 1.0 \quad (-0.7\sigma)$
$\boldsymbol{c_{100}}$	$0.99676 \pm 0.00097 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.244974 \pm 0.000068 \quad (-5.3\sigma)$	$\chi^2_{\rm CamSpec}$	12953.6 ± 5.9
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.792 \pm 0.025 \quad (-0.5\sigma)$	$\chi^2_{\rm prior}$	$9.06 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0051 ± 0.0043	z_*	$1089.78 \pm 0.28 \quad (-0.7\sigma)$	$\chi^2_{\rm CMB}$	$23458.6 \pm 5.9 \quad (+1580.4\sigma)$
$\boldsymbol{c_{EE}}$	1.0013 ± 0.0042	r_*	$144.79 \pm 0.30 \quad (+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23467.67$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.74$; $R - 1 = 0.00791$

2.144 base_CamSpecHM_TTTEEE_lowTEB_lensing_post_BAO_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00014 \quad (+0.6\sigma)$	Ω_Λ	$0.6921 \pm 0.0061 \quad (+0.3\sigma)$	$100\theta_{\rm D}$	$0.16078 \pm 0.00018 \quad (-0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1186 \pm 0.0010 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3079 \pm 0.0061 \quad (-0.3\sigma)$	$z_{\rm eq}$	$3369 \pm 23 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04090 \pm 0.00028 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.14164 \pm 0.00096 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8192 \pm 0.0044 \quad (+0.3\sigma)$
$\boldsymbol{\tau}$	$0.067 \pm 0.011 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.09608 \pm 0.00030 \quad (+0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07177 \pm 0.00034 \quad (+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.064 \pm 0.022 \quad (-0.0\sigma)$	σ_8	$0.8157^{+0.0080}_{-0.0091} \quad (-0.1\sigma)$	$H(0.57)$	$93.11 \pm 0.21 \quad (+0.4\sigma)$
$\boldsymbol{n_s}$	$0.9688 \pm 0.0040 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4525 \pm 0.0060 \quad (-0.3\sigma)$	$D_{\rm A}(0.57)$	$1384.5 \pm 6.2 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0000 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6076 \pm 0.0065 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6751 \pm 0.0016 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.990 \pm 0.010 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4733 \pm 0.0048 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 7 \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.447 \pm 0.024 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.6077 \pm 0.0065 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$8.91 \pm 1.1 \quad (+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246303 \pm 0.000063 \quad (-5.9\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.9\sigma)$	$10^9 A_{\rm s}$	$2.141^{+0.044}_{-0.052} \quad (-0.0\sigma)$	f_{2000}^{143}	$28.7 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.32^{+1.5}_{-2.6} \quad (-1.1\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.2 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	D_{40}	$1222 \pm 11 \quad (-0.8\sigma)$	$f_{2000}^{143\times217}$	$31.5 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.589 \quad (-0.2\sigma)$	D_{220}	$5709 \pm 39 \quad (-0.5\sigma)$	$\chi^2_{\rm lensing}$	$9.89 \pm 1.5 \quad (-0.3\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.40^{+3.8}_{-2.1} \quad (+0.8\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.03 \pm 0.95 \quad (-0.6\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.7 \pm 4.8 \quad (-0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12953.3 ± 5.9
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9688 \pm 0.0040 \quad (+0.6\sigma)$	$\chi^2_{\rm 6DF}$	$0.035 \pm 0.047 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$Y_{\rm P}$	$0.244974 \pm 0.000063 \quad (-6.0\sigma)$	$\chi^2_{\rm MGS}$	$1.49 \pm 0.46 \quad (+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	$13.792 \pm 0.021 \quad (-0.5\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.70 \pm 0.41 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99676 \pm 0.00097 \quad (-1.8\sigma)$	z_*	$1089.78 \pm 0.23 \quad (-0.7\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.55 \pm 0.42 \quad (-0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.79 \pm 0.24 \quad (+0.0\sigma)$	$\chi^2_{\rm prior}$	$9.04 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0051 ± 0.0043	$100\theta_*$	$1.04110 \pm 0.00028 \quad (-0.0\sigma)$	$\chi^2_{\rm CMB}$	$23458.2 \pm 5.8 \quad (+1587.2\sigma)$
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0042	$z_{\rm drag}$	$1059.83 \pm 0.31 \quad (+0.6\sigma)$	$\chi^2_{\rm BAO}$	$4.78 \pm 0.61 \quad (-0.1\sigma)$
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	$r_{\rm drag}$	$147.46 \pm 0.25 \quad (-0.1\sigma)$		
H_0	$67.84 \pm 0.46 \quad (+0.4\sigma)$	$k_{\rm D}$	$0.14050 \pm 0.00030 \quad (+0.4\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23472.04$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.54$; $R - 1 = 0.00752$

2.145 base_CamSpecHM_TTTEEE_lowTEB_lensing_post_reion

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00015 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.05 ± 0.98	$100\theta_*$	1.04101 ± 0.00029 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1194 ± 0.0012 (-0.4σ)	H_0	67.50 ± 0.53 $(+0.5\sigma)$	$z_{\rm drag}$	$1059.75^{+0.33}_{-0.30}$ $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04081 ± 0.00029 $(+0.0\sigma)$	Ω_Λ	0.6875 ± 0.0072 $(+0.4\sigma)$	$r_{\rm drag}$	147.32 ± 0.27 $(+0.0\sigma)$
$\boldsymbol{\tau}$	$0.0555^{+0.0057}_{-0.0091}$ $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3125 ± 0.0072 (-0.4σ)	$k_{\rm D}$	0.14060 ± 0.00031 $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.042^{+0.012}_{-0.017}$ (-0.1σ)	$\Omega_{\rm m} h^2$	0.1423 ± 0.0011 (-0.3σ)	$100\theta_{\rm D}$	0.16082 ± 0.00018 (-0.8σ)
$\boldsymbol{n_s}$	0.9664 ± 0.0041 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.09606 ± 0.00030 $(+0.4\sigma)$	$z_{\rm eq}$	3386 ± 27 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 $(+0.0\sigma)$	σ_8	$0.8090^{+0.0054}_{-0.0064}$ (-0.3σ)	$100\theta_{\rm eq}$	0.8160 ± 0.0050 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4522 ± 0.0068 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07151 ± 0.00040 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 7 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6048 ± 0.0062 (-0.4σ)	$H(0.57)$	92.97 ± 0.24 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	0.9847 ± 0.0088 (-0.4σ)	$D_{\rm A}(0.57)$	1389.1 ± 7.1 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.434 ± 0.021 (-0.6σ)	$F_{\rm AP}(0.57)$	0.6763 ± 0.0018 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.20^{+1.3}_{-2.6}$ (-1.1σ)	$z_{\rm re}$	$7.79^{+0.62}_{-0.89}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4706 ± 0.0042 (-0.4σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	$10^9 A_{\rm s}$	$2.096^{+0.024}_{-0.036}$ (-0.1σ)	$\sigma_8(0.57)$	$0.6016^{+0.0036}_{-0.0049}$ (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.587 (-0.1σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.875 ± 0.011 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246279 ± 0.000066 (-5.5σ)
$\boldsymbol{A^{kSZ}}$	$5.59^{+4.0}_{-1.8}$ $(+0.8\sigma)$	D_{40}	1224 ± 12 (-0.8σ)	f_{2000}^{143}	29.3 ± 2.6 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5713 ± 39 (-0.4σ)	f_{2000}^{217}	106.6 ± 1.8 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2532 ± 13 (-0.3σ)	$f_{2000}^{143\times217}$	32.0 ± 1.9 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	D_{1420}	815.0 ± 4.8 $(+0.1\sigma)$	$\chi^2_{\rm lensing}$	9.37 ± 0.82 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$n_{\rm s,0.002}$	0.9664 ± 0.0041 $(+0.7\sigma)$	$\chi^2_{\rm lowTEB}$	10495.02 ± 0.89 (-0.8σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00096 (-1.8σ)	$Y_{\rm P}$	0.244950 ± 0.000064 (-5.6σ)	$\chi^2_{\rm CamSpec}$	12954.2 ± 5.8
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.8\sigma)$	Age/Gyr	13.803 ± 0.023 (-0.5σ)	$\chi^2_{\rm prior}$	10.2 ± 3.8 (-1.8σ)
$\boldsymbol{c_{TE}}$	1.0057 ± 0.0044	z_*	1089.92 ± 0.26 (-0.7σ)	$\chi^2_{\rm CMB}$	23458.5 ± 5.7 $(+1609.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0015 ± 0.0042	r_*	144.64 ± 0.27 $(+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23468.74$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.08$; $R - 1 = 0.01871$

2.146 base_lensonly

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02215	0.02228 ± 0.00089	$10^9 A_s$	2.282	$2.16^{+0.28}_{-0.36}$	z_{drag}	1059.09	1059.4 ± 2.4
$\mathbf{\Omega_c h^2}$	0.1155	$0.116^{+0.012}_{-0.015}$	$10^9 A_s e^{-2\tau}$	1.984	$1.88^{+0.24}_{-0.31}$	r_{drag}	148.55	148.4 ± 3.8
$\mathbf{100\theta_{MC}}$	1.062	1.035 ± 0.058	D_{40}	1352	1263^{+200}_{-300}	k_D	0.13918	$0.1395^{+0.0041}_{-0.0046}$
$\mathbf{\ln(10^{10} A_s)}$	3.128	3.06 ± 0.14	D_{220}	6163	5844^{+900}_{-1000}	$100\theta_D$	0.1645	0.1602 ± 0.0088
$\mathbf{n_s}$	0.9595	0.959 ± 0.020	D_{810}	2667	2374^{+300}_{-500}	z_{eq}	3289	3311^{+280}_{-360}
H_0	76.2	—	D_{1420}	840	737^{+100}_{-200}	k_{eq}	0.01004	$0.01011^{+0.00086}_{-0.0011}$
Ω_Λ	0.762	$0.636^{+0.25}_{-0.093}$	D_{2000}	238.5	235^{+40}_{-60}	$100\theta_{eq}$	0.851	0.829 ± 0.053
Ω_m	0.238	$0.364^{+0.093}_{-0.25}$	$n_{s,0.002}$	0.9595	0.959 ± 0.020	$100\theta_{s,eq}$	0.4696	0.457 ± 0.028
$\Omega_m h^2$	0.1383	$0.139^{+0.012}_{-0.015}$	Y_P	0.245295	0.24534 ± 0.00040	$r_{drag}/D_V(0.57)$	0.0782	$0.072^{+0.010}_{-0.018}$
$\Omega_m h^3$	0.1053	$0.095^{+0.023}_{-0.039}$	Y_P^{BBN}	0.246621	0.24667 ± 0.00040	$H(0.57)$	98.9	93^{+10}_{-20}
σ_8	0.845	$0.791^{+0.13}_{-0.095}$	10^5D/H	2.632	$2.62^{+0.16}_{-0.19}$	$D_A(0.57)$	1268	1437^{+200}_{-400}
$\sigma_8 \Omega_m^{0.5}$	0.413	$0.449^{+0.057}_{-0.076}$	Age/Gyr	13.18	$14.1^{+1.5}_{-2.4}$	$F_{AP}(0.57)$	0.6564	$0.684^{+0.027}_{-0.058}$
$\sigma_8 \Omega_m^{0.25}$	0.5904	0.591 ± 0.021	z_*	1089.79	$1089.7^{+1.5}_{-1.6}$	$f\sigma_8(0.57)$	0.4670	$0.451^{+0.033}_{-0.021}$
$\sigma_8/h^{0.5}$	0.9682	$0.969^{+0.023}_{-0.020}$	r_*	145.78	145.6 ± 3.6	$\sigma_8(0.57)$	0.649	$0.59^{+0.14}_{-0.11}$
$\langle d^2 \rangle^{1/2}$	2.460	2.461 ± 0.059	$100\theta_*$	1.063	1.035 ± 0.058	$\chi^2_{lensing}$	8.44	10.6 ± 2.1
z_{re}	9.224	9.16 ± 0.39	D_A/Gpc	13.72	$14.12^{+0.98}_{-1.2}$	χ^2_{prior}	0.00	1.96 ± 1.9

Best-fit $\chi^2_{eff} = 8.44$; $\bar{\chi}^2_{eff} = 12.52$; $R - 1 = 0.00540$
χ^2_{eff}: CMB - smica_g30_ftl_full_pp_lensonly: 8.44

2.147 base_lensonly_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02233	0.02228 ± 0.00088	D_{40}	1237	1219^{+130}_{-160}	$z_{\rm eq}$	3342	3409^{+270}_{-350}
$\mathbf{\Omega_c h^2}$	0.1175	$0.120^{+0.011}_{-0.015}$	D_{220}	5716	5615^{+800}_{-1000}	$k_{\rm eq}$	0.01020	$0.01040^{+0.00082}_{-0.0011}$
$\mathbf{100\theta_{MC}}$	1.0396	1.043 ± 0.016	D_{810}	2490	2437 ± 300	$100\theta_{\rm eq}$	0.8230	0.817 ± 0.041
$\mathbf{ln(10^{10} A_s)}$	3.056	3.04 ± 0.11	D_{1420}	797	775^{+100}_{-90}	$100\theta_{\rm s,eq}$	0.4544	0.451 ± 0.021
$\mathbf{n_s}$	0.9581	0.957 ± 0.020	D_{2000}	224.3	221^{+30}_{-30}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07178	0.07184 ± 0.00056
H_0	67.75	68.0 ± 1.4	$n_{\rm s,0.002}$	0.9581	0.957 ± 0.020	$H(0.57)$	92.87	$93.4^{+2.7}_{-3.2}$
Ω_Λ	0.6938	$0.690^{+0.021}_{-0.018}$	$Y_{\rm P}$	0.245375	0.24534 ± 0.00039	$D_{\rm A}(0.57)$	1387.2	1381 ± 35
$\Omega_{\rm m}$	0.3062	$0.310^{+0.018}_{-0.021}$	$Y_{\rm P}^{\rm BBN}$	0.246701	0.24667 ± 0.00039	$F_{\rm AP}(0.57)$	0.67467	0.6755 ± 0.0048
$\Omega_{\rm m}h^2$	0.1405	$0.143^{+0.011}_{-0.015}$	10^5D/H	2.599	$2.62^{+0.15}_{-0.19}$	$f\sigma_8(0.57)$	0.4663	0.468 ± 0.014
$\Omega_{\rm m}h^3$	0.0952	$0.0976^{+0.0089}_{-0.012}$	Age/Gyr	13.831	13.76 ± 0.45	$\sigma_8(0.57)$	0.5997	0.600 ± 0.013
σ_8	0.8044	0.806 ± 0.019	z_*	1089.76	$1090.1^{+1.4}_{-1.6}$	$\chi^2_{\rm lensing}$	8.55	10.6 ± 2.1
$\sigma_8\Omega_{\rm m}^{0.5}$	0.4451	$0.448^{+0.020}_{-0.023}$	r_*	145.10	144.5 ± 3.4	$\chi^2_{\rm 6DF}$	0.0058	0.07 ± 0.10
$\sigma_8\Omega_{\rm m}^{0.25}$	0.5983	0.601 ± 0.020	$100\theta_*$	1.0398	1.043 ± 0.016	$\chi^2_{\rm MGS}$	1.47	1.56 ± 0.72
$\sigma_8/h^{0.5}$	0.9773	0.978 ± 0.020	$D_{\rm A}$/Gpc	13.96	13.87 ± 0.54	$\chi^2_{\rm DR11CMASS}$	2.45	3.11 ± 1.2
$\langle d^2\rangle^{1/2}$	2.453	2.445 ± 0.055	$z_{\rm drag}$	1059.67	1059.7 ± 2.3	$\chi^2_{\rm DR11LOWZ}$	0.437	0.63 ± 0.66
$z_{\rm re}$	9.175	$9.25^{+0.33}_{-0.38}$	$r_{\rm drag}$	147.79	147.2 ± 3.6	$\chi^2_{\rm prior}$	0.01	1.98 ± 2.0
$10^9 A_{\rm s}$	2.124	$2.10^{+0.21}_{-0.26}$	$k_{\rm D}$	0.14010	$0.1407^{+0.0040}_{-0.0044}$	$\chi^2_{\rm BAO}$	4.37	5.37 ± 1.6
$10^9 A_{\rm s} e^{-2\tau}$	1.846	$1.82^{+0.18}_{-0.23}$	$100\theta_{\rm D}$	0.16069	$0.1612^{+0.0023}_{-0.0026}$			

Best-fit $\chi^2_{\rm eff} = 12.93$; $\bar{\chi}^2_{\rm eff} = 17.98$; $R - 1 = 0.00533$
$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.45 DR11LOWZ: 0.44 CMB - smica_g30_ftl_full_pp_lensonly: 8.55

2.148 base_lensonly_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228	0.02231 ± 0.00089	$10^9 A_s e^{-2\tau}$	1.968	$1.92^{+0.22}_{-0.30}$	$r_{\rm drag}$	149.22	148.5 ± 3.3
$\boldsymbol{\Omega_c h^2}$	0.1125	$0.115^{+0.010}_{-0.012}$	D_{40}	1321	1296^{+200}_{-200}	$k_{\rm D}$	0.13858	0.1394 ± 0.0037
$\boldsymbol{\ln(10^{10} A_s)}$	3.119	3.09 ± 0.13	D_{220}	6190	6040^{+900}_{-1000}	$100\theta_{\rm D}$	0.16112	0.1610 ± 0.0013
$\boldsymbol{n_s}$	0.9634	0.960 ± 0.020	D_{810}	2673	2605^{+300}_{-400}	$z_{\rm eq}$	3221	3291^{+250}_{-300}
H_0	69.96	69.2 ± 4.0	D_{1420}	854	832^{+100}_{-100}	$k_{\rm eq}$	0.00983	$0.01005^{+0.00076}_{-0.00092}$
Ω_Λ	0.723	$0.705^{+0.070}_{-0.045}$	D_{2000}	240.1	234^{+30}_{-40}	$100\theta_{\rm eq}$	0.847	$0.837^{+0.049}_{-0.055}$
$\Omega_{\rm m}$	0.277	$0.295^{+0.045}_{-0.070}$	$n_{\rm s,0.002}$	0.9634	0.960 ± 0.020	$100\theta_{\rm s,eq}$	0.4669	0.462 ± 0.026
$\Omega_{\rm m} h^2$	0.1354	$0.138^{+0.010}_{-0.013}$	$Y_{\rm P}$	0.245352	0.24536 ± 0.00040	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07370	$0.0731^{+0.0034}_{-0.0040}$
$\Omega_{\rm m} h^3$	0.09476	0.0953 ± 0.0027	$Y_{\rm P}^{\rm BBN}$	0.246678	0.24668 ± 0.00040	$H(0.57)$	93.72	$93.7^{+1.1}_{-1.6}$
σ_8	0.8145	0.807 ± 0.021	10^5D/H	2.609	$2.61^{+0.15}_{-0.19}$	$D_{\rm A}(0.57)$	1358.9	1369 ± 49
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4285	0.435 ± 0.035	Age/Gyr	13.775	13.775 ± 0.098	$F_{\rm AP}(0.57)$	0.6670	$0.671^{+0.013}_{-0.017}$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5908	$0.592^{+0.023}_{-0.021}$	z_*	1089.37	$1089.6^{+1.3}_{-1.5}$	$f\sigma_8(0.57)$	0.4638	$0.462^{+0.013}_{-0.010}$
$\sigma_8/h^{0.5}$	0.9738	$0.971^{+0.023}_{-0.020}$	r_*	146.48	145.8 ± 3.1	$\sigma_8(0.57)$	0.6148	$0.606^{+0.030}_{-0.027}$
$\langle d^2 \rangle^{1/2}$	2.467	2.460 ± 0.054	$100\theta_*$	1.041009	1.040998 ± 0.000099	$\chi^2_{\rm lensing}$	8.44	10.4 ± 1.9
$z_{\rm re}$	9.090	$9.14^{+0.28}_{-0.33}$	$D_{\rm A}$/Gpc	14.071	14.00 ± 0.29	$\chi^2_{\rm prior}$	0.00	1.99 ± 2.0
$10^9 A_s$	2.263	$2.21^{+0.25}_{-0.34}$	$z_{\rm drag}$	1059.17	1059.4 ± 2.3			

Best-fit $\chi^2_{\rm eff} = 8.45$; $\bar{\chi}^2_{\rm eff} = 12.43$; $R - 1 = 0.00399$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp_lensonly: 8.44

2.149 base_lensonly_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02234	0.02228 ± 0.00091	D_{220}	5661	5635^{+200}_{-230}	$k_{\rm eq}$	0.010270	0.01027 ± 0.00016
$\boldsymbol{\Omega_c h^2}$	0.11847	0.1185 ± 0.0017	D_{810}	2476	2467^{+87}_{-98}	$100\theta_{\rm eq}$	0.8198	0.8200 ± 0.0081
$\boldsymbol{\ln(10^{10} A_s)}$	3.0506	3.046 ± 0.033	D_{1420}	793.2	790^{+33}_{-37}	$100\theta_{\rm s,eq}$	0.45281	0.4530 ± 0.0046
$\boldsymbol{n_s}$	0.9588	0.959 ± 0.019	D_{2000}	223.4	222^{+11}_{-12}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07179	0.07179 ± 0.00051
H_0	67.83	67.79 ± 0.81	$n_{\rm s,0.002}$	0.9588	0.959 ± 0.019	$H(0.57)$	93.07	93.04 ± 0.65
Ω_Λ	0.6925	0.6922 ± 0.0092	$Y_{\rm P}$	0.245380	$0.24534^{+0.00044}_{-0.00039}$	$D_{\rm A}(0.57)$	1384.9	1386 ± 13
$\Omega_{\rm m}$	0.3075	0.3078 ± 0.0092	$Y_{\rm P}^{\rm BBN}$	0.246706	$0.24667^{+0.00044}_{-0.00039}$	$F_{\rm AP}(0.57)$	0.67501	0.6751 ± 0.0023
$\Omega_{\rm m} h^2$	0.14146	0.1414 ± 0.0022	10^5D/H	2.597	$2.62^{+0.15}_{-0.19}$	$f\sigma_8(0.57)$	0.4680	0.4673 ± 0.0087
$\Omega_{\rm m} h^3$	0.09595	0.0959 ± 0.0018	Age/Gyr	13.798	13.803 ± 0.089	$\sigma_8(0.57)$	0.6011	0.600 ± 0.012
σ_8	0.8067	0.806 ± 0.015	z_*	1089.82	$1089.9^{+1.0}_{-1.2}$	$\chi^2_{\rm lensing}$	8.62	9.73 ± 1.5
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4473	0.4469 ± 0.0099	r_*	144.85	144.90 ± 0.94	$\chi^2_{\rm 6DF}$	0.0074	0.065 ± 0.089
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6007	0.600 ± 0.011	$100\theta_*$	1.040989	1.040995 ± 0.000096	$\chi^2_{\rm MGS}$	1.47	1.54 ± 0.68
$\sigma_8/h^{0.5}$	0.9796	0.978 ± 0.019	$D_{\rm A}$/Gpc	13.915	13.919 ± 0.089	$\chi^2_{\rm DR11CMASS}$	2.41	3.05 ± 0.92
$\langle d^2 \rangle^{1/2}$	2.4511	2.446 ± 0.036	$z_{\rm drag}$	1059.74	1059.6 ± 2.1	$\chi^2_{\rm DR11LOWZ}$	0.448	0.64 ± 0.64
$z_{\rm re}$	9.193	$9.22^{+0.22}_{-0.26}$	$r_{\rm drag}$	147.53	147.6 ± 1.2	$\chi^2_{\rm prior}$	−0.02	1.93 ± 1.9
$10^9 A_{\rm s}$	2.113	$2.105^{+0.067}_{-0.076}$	$k_{\rm D}$	0.14038	0.1402 ± 0.0020	$\chi^2_{\rm BAO}$	4.34	5.30 ± 1.4
$10^9 A_{\rm s} e^{-2\tau}$	1.837	$1.830^{+0.058}_{-0.066}$	$100\theta_{\rm D}$	0.16083	$0.1610^{+0.0012}_{-0.0014}$			
D_{40}	1227	1222^{+48}_{-56}	$z_{\rm eq}$	3365	3364 ± 52			

Best-fit $\chi^2_{\rm eff} = 12.94$; $\bar{\chi}^2_{\rm eff} = 16.95$; $R - 1 = 0.00592$
$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.41 DR11LOWZ: 0.45 CMB - smica_g30_ftl_full_pp_lensonly: 8.62

2.150 base_WLonlyHeymans

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02229	0.02227 ± 0.00089	$10^9 A_s$	1.17	$1.61^{+0.20}_{-1.1}$	z_{drag}	1063.10	1061.8 ± 3.2
$\boldsymbol{\Omega_c h^2}$	0.1701	$0.152^{+0.037}_{-0.043}$	$10^9 A_s e^{-2\tau}$	1.02	$1.40^{+0.17}_{-0.93}$	r_{drag}	135.7	$140.2^{+7.3}_{-10}$
$\boldsymbol{100\theta_{MC}}$	1.128	$1.096^{+0.077}_{-0.045}$	D_{40}	644	932^{+100}_{-700}	k_D	0.1536	$0.149^{+0.011}_{-0.0097}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.458	< 2.80	D_{220}	2551	4057^{+500}_{-3000}	$100\theta_D$	0.1732	$0.169^{+0.011}_{-0.0069}$
$\boldsymbol{n_s}$	0.9598	0.961 ± 0.020	D_{810}	1086	1655^{+200}_{-1000}	z_{eq}	4597	4176^{+900}_{-1000}
H_0	83.3	> 72.2	D_{1420}	290	488^{+80}_{-400}	k_{eq}	0.01403	$0.0127^{+0.0027}_{-0.0031}$
Ω_Λ	0.722	$0.690^{+0.14}_{-0.058}$	D_{2000}	83	145^{+20}_{-100}	$100\theta_{eq}$	0.707	$0.755^{+0.053}_{-0.12}$
Ω_m	0.278	$0.310^{+0.058}_{-0.14}$	$n_{s,0.002}$	0.9598	0.961 ± 0.020	$100\theta_{s,eq}$	0.3950	$0.419^{+0.028}_{-0.065}$
$\Omega_m h^2$	0.1930	$0.175^{+0.037}_{-0.043}$	Y_P	0.245359	0.24534 ± 0.00040	$r_{drag}/D_V(0.57)$	0.0799	$0.0777^{+0.012}_{-0.0078}$
$\Omega_m h^3$	0.1608	$0.140^{+0.042}_{-0.056}$	Y_P^{BBN}	0.246685	0.24666 ± 0.00040	$H(0.57)$	111.7	106^{+20}_{-10}
σ_8	0.788	$0.78^{+0.14}_{-0.17}$	10^5D/H	2.606	$2.62^{+0.15}_{-0.19}$	$D_A(0.57)$	1141	1239^{+99}_{-270}
$\sigma_8 \Omega_m^{0.5}$	0.4155	$0.414^{+0.018}_{-0.016}$	Age/Gyr	11.55	$12.42^{+0.96}_{-2.0}$	$F_{AP}(0.57)$	0.6673	$0.673^{+0.019}_{-0.035}$
$\sigma_8 \Omega_m^{0.25}$	0.572	0.567 ± 0.060	z_*	1094.08	1092.6 ± 3.1	$f\sigma_8(0.57)$	0.449	$0.440^{+0.066}_{-0.050}$
$\sigma_8/h^{0.5}$	0.863	$0.883^{+0.078}_{-0.14}$	r_*	133.3	$137.7^{+7.1}_{-10}$	$\sigma_8(0.57)$	0.594	$0.59^{+0.12}_{-0.16}$
$\langle d^2 \rangle^{1/2}$	1.967	$2.12^{+0.16}_{-0.50}$	$100\theta_*$	1.128	$1.096^{+0.077}_{-0.045}$	$\chi^2_{CFHTLENS}$	95.62	97.4 ± 1.8
z_{re}	10.30	9.92 ± 0.77	D_A/Gpc	11.81	$12.6^{+1.1}_{-1.7}$	χ^2_{prior}	0.00	1.93 ± 1.9

Best-fit $\chi^2_{eff} = 95.62$; $\bar{\chi}^2_{eff} = 99.33$; $R - 1 = 0.00922$
χ^2_{eff}: WL - CFHTLENS_6bin_conservative: 95.62

2.151 base_WLonlyHeymans_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232	0.02231 ± 0.00090	D_{40}	417	624^{+62}_{-270}	$z_{\rm eq}$	4946	4347^{+700}_{-400}
$\boldsymbol{\Omega_c h^2}$	0.1846	$0.160^{+0.031}_{-0.017}$	D_{220}	1654	2686^{+280}_{-1400}	$k_{\rm eq}$	0.01509	$0.0133^{+0.0023}_{-0.0013}$
$\boldsymbol{100\theta_{\rm MC}}$	1.1089	$1.085^{+0.032}_{-0.014}$	D_{810}	774	1219^{+100}_{-600}	$100\theta_{\rm eq}$	0.660	$0.716^{+0.029}_{-0.074}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.060	< 2.44	D_{1420}	224	377^{+60}_{-200}	$100\theta_{\rm s,eq}$	0.3693	$0.399^{+0.016}_{-0.039}$
$\boldsymbol{n_s}$	0.9612	0.961 ± 0.020	D_{2000}	66	110^{+20}_{-60}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07233	0.07221 ± 0.00058
H_0	72.88	$71.1^{+2.6}_{-1.8}$	$n_{\rm s,0.002}$	0.9612	0.961 ± 0.020	$H(0.57)$	106.17	$101.4^{+6.3}_{-3.4}$
Ω_Λ	0.6092	$0.641^{+0.020}_{-0.039}$	$Y_{\rm P}$	0.245371	0.24535 ± 0.00040	$D_{\rm A}(0.57)$	1250	1298^{+34}_{-66}
$\Omega_{\rm m}$	0.3908	$0.359^{+0.039}_{-0.020}$	$Y_{\rm P}^{\rm BBN}$	0.246698	0.24668 ± 0.00040	$F_{\rm AP}(0.57)$	0.6950	$0.6876^{+0.0094}_{-0.0045}$
$\Omega_{\rm m} h^2$	0.2076	$0.183^{+0.031}_{-0.017}$	10^5D/H	2.600	$2.61^{+0.15}_{-0.19}$	$f\sigma_8(0.57)$	0.3915	$0.408^{+0.015}_{-0.023}$
$\Omega_{\rm m} h^3$	0.1513	$0.130^{+0.026}_{-0.016}$	Age/Gyr	11.99	$12.63^{+0.38}_{-0.86}$	$\sigma_8(0.57)$	0.4708	$0.503^{+0.020}_{-0.042}$
σ_8	0.6514	$0.688^{+0.026}_{-0.048}$	z_*	1095.11	$1093.2^{+2.6}_{-1.9}$	$\chi^2_{\rm 6DF}$	0.380	0.24 ± 0.23
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4072	$0.411^{+0.017}_{-0.015}$	r_*	130.5	$135.7^{+3.2}_{-6.8}$	$\chi^2_{\rm MGS}$	0.38	0.89 ± 0.65
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5151	$0.532^{+0.020}_{-0.026}$	$100\theta_*$	1.1090	$1.085^{+0.032}_{-0.014}$	$\chi^2_{\rm DR11CMASS}$	0.86	2.11 ± 1.3
$\sigma_8/h^{0.5}$	0.763	$0.817^{+0.031}_{-0.069}$	$D_{\rm A}$/Gpc	11.77	$12.53^{+0.42}_{-1.0}$	$\chi^2_{\rm DR11LOWZ}$	1.12	0.95 ± 0.82
$\langle d^2 \rangle^{1/2}$	1.707	$1.903^{+0.084}_{-0.25}$	$z_{\rm drag}$	1064.05	$1062.4^{+3.0}_{-2.5}$	$\chi^2_{\rm CFHTLENS}$	95.41	97.0 ± 1.5
$z_{\rm re}$	10.50	$10.03^{+0.64}_{-0.41}$	$r_{\rm drag}$	132.9	$138.2^{+3.4}_{-7.0}$	$\chi^2_{\rm prior}$	0.00	1.97 ± 2.0
$10^9 A_{\rm s}$	0.785	$1.12^{+0.10}_{-0.45}$	$k_{\rm D}$	0.1570	$0.1508^{+0.0081}_{-0.0048}$	$\chi^2_{\rm BAO}$	2.74	4.19 ± 1.6
$10^9 A_{\rm s} e^{-2\tau}$	0.682	$0.978^{+0.089}_{-0.39}$	$100\theta_{\rm D}$	0.17000	$0.1668^{+0.0044}_{-0.0025}$			

Best-fit $\chi^2_{\rm eff} = 98.15$; $\bar{\chi}^2_{\rm eff} = 103.12$; $R - 1 = 0.01769$
$\chi^2_{\rm eff}$: BAO - 6DF: 0.38 MGS: 0.38 DR11CMASS: 0.86 DR11LOWZ: 1.12 WL - CFHTLENS_6bin_conservative: 95.41

2.152 base_WLonlyHeymans_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02213	0.02227 ± 0.00092	D_{220}	4759	4768 ± 500	$k_{\rm eq}$	0.010247	0.01027 ± 0.00016
$\boldsymbol{\Omega_c h^2}$	0.11837	0.1186 ± 0.0018	D_{810}	2106	2101 ± 190	$100\theta_{\rm eq}$	0.8206	0.8196 ± 0.0082
$\boldsymbol{\ln(10^{10} A_s)}$	2.885	$2.88^{+0.10}_{-0.090}$	D_{1420}	677	675 ± 61	$100\theta_{\rm s,eq}$	0.45338	0.4528 ± 0.0046
$\boldsymbol{n_s}$	0.9644	0.963 ± 0.020	D_{2000}	189.5	189 ± 18	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07179	0.07176 ± 0.00053
H_0	67.69	67.75 ± 0.84	$n_{\rm s,0.002}$	0.9644	0.963 ± 0.020	$H(0.57)$	92.93	93.02 ± 0.67
Ω_Λ	0.6920	$0.692^{+0.010}_{-0.0091}$	$Y_{\rm P}$	0.245284	0.24534 ± 0.00041	$D_{\rm A}(0.57)$	1387.3	1386 ± 13
$\Omega_{\rm m}$	0.3080	$0.3084^{+0.0091}_{-0.010}$	$Y_{\rm P}^{\rm BBN}$	0.246610	0.24666 ± 0.00041	$F_{\rm AP}(0.57)$	0.67514	0.6752 ± 0.0024
$\Omega_{\rm m} h^2$	0.14114	0.1415 ± 0.0022	10^5D/H	2.637	$2.62^{+0.16}_{-0.19}$	$f\sigma_8(0.57)$	0.4320	$0.431^{+0.019}_{-0.017}$
$\Omega_{\rm m} h^3$	0.09554	0.0959 ± 0.0018	Age/Gyr	13.818	13.805 ± 0.091	$\sigma_8(0.57)$	0.5546	0.553 ± 0.025
σ_8	0.7445	0.743 ± 0.032	z_*	1090.08	$1090.0^{+1.1}_{-1.2}$	$\chi^2_{\rm 6DF}$	0.0080	0.07 ± 0.10
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4132	$0.412^{+0.018}_{-0.016}$	r_*	145.04	144.88 ± 0.94	$\chi^2_{\rm MGS}$	1.47	1.50 ± 0.68
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5546	$0.553^{+0.024}_{-0.021}$	$100\theta_*$	1.041007	1.040996 ± 0.000098	$\chi^2_{\rm DR11CMASS}$	2.40	3.09 ± 0.99
$\sigma_8/h^{0.5}$	0.9049	$0.902^{+0.040}_{-0.036}$	$D_{\rm A}$/Gpc	13.932	13.918 ± 0.089	$\chi^2_{\rm DR11LOWZ}$	0.450	0.69 ± 0.72
$\langle d^2 \rangle^{1/2}$	2.245	2.25 ± 0.11	$z_{\rm drag}$	1059.25	1059.6 ± 2.2	$\chi^2_{\rm CFHTLENS}$	96.80	98.0 ± 1.6
$z_{\rm re}$	9.245	$9.22^{+0.23}_{-0.25}$	$r_{\rm drag}$	147.79	147.6 ± 1.2	$\chi^2_{\rm prior}$	0.01	2.08 ± 2.1
$10^9 A_{\rm s}$	1.790	1.79 ± 0.17	$k_{\rm D}$	0.13995	0.1402 ± 0.0020	$\chi^2_{\rm BAO}$	4.33	5.36 ± 1.5
$10^9 A_{\rm s} e^{-2\tau}$	1.556	1.55 ± 0.15	$100\theta_{\rm D}$	0.16112	$0.1610^{+0.0012}_{-0.0014}$			
D_{40}	1026	1030 ± 100	$z_{\rm eq}$	3357	3366 ± 53			

Best-fit $\chi^2_{\rm eff} = 101.15$; $\bar{\chi}^2_{\rm eff} = 105.40$; $R - 1 = 0.01167$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.40 DR11LOWZ: 0.45 WL - CFHTLENS_6bin_conservative: 96.81

2.153 base_WLonlyHeymans_H070p6_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02232	0.02230 ± 0.00093	$10^9 A_s e^{-2\tau}$	1.92	$1.91^{+0.39}_{-0.63}$	$r_{\rm drag}$	149.51	149.2 ± 3.1
$\mathbf{\Omega_c h^2}$	0.1113	$0.1128^{+0.0088}_{-0.010}$	D_{40}	1295	1296^{+300}_{-500}	$k_{\rm D}$	0.13830	0.1386 ± 0.0036
$\mathbf{ln(10^{10} A_s)}$	3.097	3.05 ± 0.28	D_{220}	6085	6084^{+1000}_{-2000}	$100\theta_{\rm D}$	0.16111	$0.1612^{+0.0013}_{-0.0015}$
$\boldsymbol{n_s}$	0.9638	0.962 ± 0.020	D_{810}	2618	2597^{+500}_{-900}	$z_{\rm eq}$	3193	3229^{+220}_{-250}
H_0	70.46	70.1 ± 3.5	D_{1420}	836	827^{+200}_{-300}	$k_{\rm eq}$	0.00975	$0.00986^{+0.00066}_{-0.00078}$
Ω_Λ	0.7295	$0.719^{+0.055}_{-0.039}$	D_{2000}	235	232^{+50}_{-80}	$100\theta_{\rm eq}$	0.8526	0.849 ± 0.045
$\Omega_{\rm m}$	0.2705	$0.281^{+0.039}_{-0.055}$	$n_{\rm s,0.002}$	0.9638	0.962 ± 0.020	$100\theta_{\rm s,eq}$	0.4699	0.468 ± 0.024
$\Omega_{\rm m} h^2$	0.1343	$0.1358^{+0.0091}_{-0.011}$	$Y_{\rm P}$	0.245369	$0.24535^{+0.00044}_{-0.00040}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07412	0.0739 ± 0.0032
$\Omega_{\rm m} h^3$	0.09460	0.0948 ± 0.0027	$Y_{\rm P}^{\rm BBN}$	0.246695	$0.24668^{+0.00044}_{-0.00040}$	$H(0.57)$	93.91	$93.9^{+1.0}_{-1.5}$
σ_8	0.800	0.788 ± 0.076	10^5D/H	2.602	$2.61^{+0.16}_{-0.20}$	$D_{\rm A}(0.57)$	1352.7	1358 ± 42
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4163	$0.413^{+0.017}_{-0.015}$	Age/Gyr	13.764	13.765 ± 0.095	$F_{\rm AP}(0.57)$	0.6653	$0.668^{+0.011}_{-0.014}$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5773	0.570 ± 0.034	z_*	1089.22	1089.4 ± 1.3	$f\sigma_8(0.57)$	0.4538	0.446 ± 0.031
$\sigma_8/h^{0.5}$	0.954	0.940 ± 0.070	r_*	146.78	146.5 ± 2.8	$\sigma_8(0.57)$	0.606	0.596 ± 0.069
$\langle d^2 \rangle^{1/2}$	2.426	$2.40^{+0.23}_{-0.27}$	$100\theta_*$	1.041002	1.04100 ± 0.00010	$\chi^2_{\rm H070p6}$	0.00	1.09 ± 1.5
$z_{\rm re}$	9.056	9.09 ± 0.27	$D_{\rm A}$/Gpc	14.100	14.07 ± 0.27	$\chi^2_{\rm CFHTLENS}$	97.01	98.1 ± 1.6
$10^9 A_{\rm s}$	2.21	$2.19^{+0.45}_{-0.72}$	$z_{\rm drag}$	1059.17	1059.2 ± 2.4	$\chi^2_{\rm prior}$	0.04	2.09 ± 2.2

Best-fit $\chi^2_{\rm eff} = 97.05$; $\bar{\chi}^2_{\rm eff} = 101.23$; $R - 1 = 0.00445$
$\chi^2_{\rm eff}$: Hubble - H070p6: 0.00 WL - CFHTLENS_6bin_conservative: 97.00

2.154 base_WLonlyHeymans_H070p6_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02239	0.02237 ± 0.00089	D_{220}	4817	4820 ± 480	$k_{\rm eq}$	0.010273	0.01026 ± 0.00016
$\boldsymbol{\Omega_c h^2}$	0.11846	0.1183 ± 0.0017	D_{810}	2120	2118 ± 190	$100\theta_{\rm eq}$	0.8198	0.8204 ± 0.0080
$\boldsymbol{\ln(10^{10} A_s)}$	2.892	$2.887^{+0.099}_{-0.087}$	D_{1420}	682	681 ± 60	$100\theta_{\rm s,eq}$	0.45275	0.4531 ± 0.0045
$\boldsymbol{n_s}$	0.9625	0.962 ± 0.020	D_{2000}	191.2	191 ± 18	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07180	0.07185 ± 0.00052
H_0	67.87	67.91 ± 0.82	$n_{\rm s,0.002}$	0.9625	0.962 ± 0.020	$H(0.57)$	93.11	93.12 ± 0.65
Ω_Λ	0.6928	0.6933 ± 0.0093	$Y_{\rm P}$	0.245401	$0.24538^{+0.00044}_{-0.00038}$	$D_{\rm A}(0.57)$	1384.2	1384 ± 13
$\Omega_{\rm m}$	0.3072	0.3067 ± 0.0093	$Y_{\rm P}^{\rm BBN}$	0.246727	$0.24671^{+0.00044}_{-0.00038}$	$F_{\rm AP}(0.57)$	0.67493	0.6748 ± 0.0024
$\Omega_{\rm m} h^2$	0.14150	0.1414 ± 0.0021	10^5D/H	2.588	$2.60^{+0.15}_{-0.20}$	$f\sigma_8(0.57)$	0.4327	0.432 ± 0.017
$\Omega_{\rm m} h^3$	0.09603	0.0960 ± 0.0017	Age/Gyr	13.793	13.793 ± 0.088	$\sigma_8(0.57)$	0.5559	0.555 ± 0.024
σ_8	0.7459	0.744 ± 0.031	z_*	1089.76	$1089.8^{+1.0}_{-1.2}$	$\chi^2_{\rm H070p6}$	0.676	0.71 ± 0.40
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4134	$0.412^{+0.017}_{-0.015}$	r_*	144.82	144.86 ± 0.91	$\chi^2_{\rm 6DF}$	0.0065	0.062 ± 0.089
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5553	$0.554^{+0.023}_{-0.021}$	$100\theta_*$	1.040979	1.040986 ± 0.000095	$\chi^2_{\rm MGS}$	1.47	1.61 ± 0.69
$\sigma_8/h^{0.5}$	0.9054	0.903 ± 0.036	$D_{\rm A}$/Gpc	13.912	13.916 ± 0.086	$\chi^2_{\rm DR11CMASS}$	2.42	3.07 ± 0.95
$\langle d^2 \rangle^{1/2}$	2.256	2.25 ± 0.11	$z_{\rm drag}$	1059.86	$1059.8^{+2.3}_{-2.0}$	$\chi^2_{\rm DR11LOWZ}$	0.436	0.58 ± 0.63
$z_{\rm re}$	9.181	$9.19^{+0.22}_{-0.26}$	$r_{\rm drag}$	147.48	$147.5^{+1.2}_{-1.3}$	$\chi^2_{\rm CFHTLENS}$	96.85	97.9 ± 1.4
$10^9 A_{\rm s}$	1.802	1.80 ± 0.16	$k_{\rm D}$	0.14047	$0.1404^{+0.0021}_{-0.0018}$	$\chi^2_{\rm prior}$	-0.01	1.97 ± 1.9
$10^9 A_{\rm s} e^{-2\tau}$	1.567	1.57 ± 0.14	$100\theta_{\rm D}$	0.16076	$0.1608^{+0.0011}_{-0.0014}$	$\chi^2_{\rm BAO}$	4.33	5.33 ± 1.4
D_{40}	1038	1040^{+110}_{-120}	$z_{\rm eq}$	3366	3363 ± 51			

Best-fit $\chi^2_{\rm eff} = 101.85$; $\bar{\chi}^2_{\rm eff} = 105.89$; $R - 1 = 0.00864$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.42 DR11LOWZ: 0.44 Hubble - H070p6: 0.68 WL - CFHTLENS_6bin_conservative: 96.85

2.155 base_WMAP

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.022574	0.02267 ± 0.00049	$z_{\rm re}$	10.55	10.6 ± 1.1	$z_{\rm drag}$	1060.01	1060.2 ± 1.1
$\mathbf{\Omega_c h^2}$	0.11451	0.1137 ± 0.0045	$10^9 A_{\rm s}$	2.204	$2.202^{+0.062}_{-0.072}$	$r_{\rm drag}$	148.34	148.5 ± 1.2
$\mathbf{100\theta_{MC}}$	1.04006	1.0403 ± 0.0023	$10^9 A_{\rm s} e^{-2\tau}$	1.8522	1.844 ± 0.030	$k_{\rm D}$	0.13971	0.1396 ± 0.0013
$\boldsymbol{\tau}$	0.0868	$0.089^{+0.013}_{-0.015}$	D_{40}	1221.5	1219 ± 24	$100\theta_{\rm D}$	0.160529	0.16048 ± 0.00049
$\mathbf{ln(10^{10} A_s)}$	3.0926	3.092 ± 0.031	D_{220}	5751.3	5751 ± 35	$z_{\rm eq}$	3276	3258 ± 100
$\boldsymbol{n_{\rm s}}$	0.9727	0.974 ± 0.013	D_{810}	2517.7	2509 ± 32	$k_{\rm eq}$	0.009998	0.00994 ± 0.00032
$\boldsymbol{A_{\rm tSZ}}$	0.00	—	D_{1420}	811.0	808 ± 16	$100\theta_{\rm eq}$	0.8365	0.841 ± 0.021
H_0	69.21	69.7 ± 2.1	D_{2000}	229.4	228.8 ± 6.0	$100\theta_{\rm s,eq}$	0.4613	0.464 ± 0.011
Ω_Λ	0.7125	$0.717^{+0.028}_{-0.024}$	$n_{\rm s,0.002}$	0.9727	0.974 ± 0.013	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07290	0.0733 ± 0.0017
$\Omega_{\rm m}$	0.2875	$0.283^{+0.024}_{-0.028}$	$Y_{\rm P}$	0.245483	0.24552 ± 0.00022	$H(0.57)$	93.52	$93.8^{+1.0}_{-1.2}$
$\Omega_{\rm m} h^2$	0.13773	0.1370 ± 0.0043	$Y_{\rm P}^{\rm BBN}$	0.246809	0.24685 ± 0.00022	$D_{\rm A}(0.57)$	1367.8	1361 ± 29
$\Omega_{\rm m} h^3$	0.09532	0.0954 ± 0.0018	10^5D/H	2.553	2.538 ± 0.089	$F_{\rm AP}(0.57)$	0.6698	0.6685 ± 0.0067
σ_8	0.8121	0.808 ± 0.023	Age/Gyr	13.777	13.76 ± 0.11	$f\sigma_8(0.57)$	0.4657	0.462 ± 0.019
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4355	0.430 ± 0.029	z_*	1089.19	1089.00 ± 0.81	$\sigma_8(0.57)$	0.6102	0.608 ± 0.014
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5947	0.589 ± 0.028	r_*	145.71	145.9 ± 1.1	$\chi^2_{\rm WMAP}$	7557.94	7564.0 ± 3.5
$\sigma_8/h^{0.5}$	0.9762	0.968 ± 0.038	$100\theta_*$	1.04023	1.0404 ± 0.0022			
$\langle d^2 \rangle^{1/2}$	2.435	2.422 ± 0.076	$D_{\rm A}$/Gpc	14.008	14.02 ± 0.12			

Best-fit $\chi^2_{\rm eff} = 7557.94$; $\bar{\chi}^2_{\rm eff} = 7564.00$; $R - 1 = 0.00785$
$\chi^2_{\rm eff}$: CMB - WMAP: 7557.94

2.156 base_WMAP_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022454	0.02247 ± 0.00042	$10^9 A_s$	2.208	$2.210^{+0.059}_{-0.070}$	k_D	0.14026	0.1403 ± 0.0011
$\boldsymbol{\Omega_c h^2}$	0.11725	0.1172 ± 0.0021	$10^9 A_s e^{-2\tau}$	1.8663	1.863 ± 0.021	$100\theta_D$	0.16052	0.16051 ± 0.00051
$\boldsymbol{100\theta_{MC}}$	1.03953	$1.0395^{+0.0022}_{-0.0019}$	D_{40}	1231.8	1234^{+17}_{-19}	z_{eq}	3338	3337 ± 54
$\boldsymbol{\tau}$	0.0842	$0.085^{+0.012}_{-0.014}$	D_{220}	5741.6	5740 ± 32	k_{eq}	0.010189	0.01019 ± 0.00016
$\boldsymbol{\ln(10^{10} A_s)}$	3.0948	$3.095^{+0.028}_{-0.031}$	D_{810}	2524.3	2519 ± 30	$100\theta_{eq}$	0.8240	0.8244 ± 0.0085
$\boldsymbol{n_s}$	0.9680	0.967 ± 0.010	D_{1420}	812.1	810 ± 15	$100\theta_{s,eq}$	0.45487	0.4551 ± 0.0045
$\boldsymbol{A_{tSZ}}$	0.02	—	D_{2000}	229.8	229.1 ± 5.9	$r_{drag}/D_V(0.57)$	0.071872	0.07191 ± 0.00050
H_0	67.93	67.98 ± 0.73	$n_{s,0.002}$	0.9680	0.967 ± 0.010	$H(0.57)$	92.98	93.01 ± 0.59
Ω_Λ	0.6959	0.6963 ± 0.0086	Y_P	0.245430	0.24543 ± 0.00019	$D_A(0.57)$	1384.5	1384 ± 11
Ω_m	0.3041	0.3037 ± 0.0086	Y_P^{BBN}	0.246757	0.24676 ± 0.00019	$F_{AP}(0.57)$	0.67415	0.6740 ± 0.0022
$\Omega_m h^2$	0.14034	0.1403 ± 0.0023	10^5D/H	2.576	2.575 ± 0.079	$f\sigma_8(0.57)$	0.4758	0.475 ± 0.011
$\Omega_m h^3$	0.09534	0.0954 ± 0.0017	Age/Gyr	13.819	13.816 ± 0.083	$\sigma_8(0.57)$	0.6130	0.613 ± 0.012
σ_8	0.8216	0.821 ± 0.017	z_*	1089.573	1089.56 ± 0.50	χ^2_{WMAP}	7558.4	7563.8 ± 3.2
$\sigma_8 \Omega_m^{0.5}$	0.4531	0.453 ± 0.013	r_*	145.08	145.09 ± 0.72	χ^2_{6DF}	0.0009	0.054 ± 0.077
$\sigma_8 \Omega_m^{0.25}$	0.6102	0.610 ± 0.015	$100\theta_*$	1.03970	$1.0397^{+0.0022}_{-0.0019}$	χ^2_{MGS}	1.61	1.74 ± 0.69
$\sigma_8/h^{0.5}$	0.9969	0.996 ± 0.021	D_A/Gpc	13.954	13.955 ± 0.090	$\chi^2_{DR11CMASS}$	2.48	3.10 ± 0.91
$\langle d^2 \rangle^{1/2}$	2.4769	2.479 ± 0.040	z_{drag}	1059.93	1060.0 ± 1.0	$\chi^2_{DR11LOWZ}$	0.334	0.48 ± 0.53
z_{re}	10.41	10.5 ± 1.1	r_{drag}	147.73	147.74 ± 0.84	χ^2_{BAO}	4.42	5.37 ± 1.4

Best-fit $\chi^2_{eff} = 7562.82$; $\bar{\chi}^2_{eff} = 7569.13$; $R - 1 = 0.01084$
χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.48 DR11LOWZ: 0.33 CMB - WMAP: 7558.39

2.157 base_CamSpecDS_TT_lowTEB

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02223 ± 0.00023 $(+0.0\sigma)$	H_0	67.32 ± 0.95 $(+0.0\sigma)$	$100\theta_*$	1.04110 ± 0.00046 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1198 ± 0.0021 $(+0.0\sigma)$	Ω_Λ	0.685 ± 0.013 $(+0.0\sigma)$	$z_{\rm drag}$	1059.58 ± 0.46 $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04089 ± 0.00046 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.315 ± 0.013 (-0.0σ)	$r_{\rm drag}$	147.31 ± 0.47 (-0.0σ)
$\boldsymbol{\tau}$	0.073 ± 0.019 (-0.3σ)	$\Omega_{\rm m} h^2$	0.1426 ± 0.0020 $(+0.0\sigma)$	$k_{\rm D}$	0.14054 ± 0.00051 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.079 ± 0.037 (-0.3σ)	$\Omega_{\rm m} h^3$	0.09601 ± 0.00044 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.16094 ± 0.00027 (-0.1σ)
$\boldsymbol{n_s}$	0.9663 ± 0.0061 $(+0.1\sigma)$	σ_8	0.826 ± 0.014 (-0.3σ)	$z_{\rm eq}$	3393 ± 48 $(+0.0\sigma)$
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.463 ± 0.013 (-0.2σ)	$100\theta_{\rm eq}$	0.8146 ± 0.0091 (-0.0σ)
$\boldsymbol{A_{100}^{PS}}$	279 ± 22 $(+0.8\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.619 ± 0.013 (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07141 ± 0.00072 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	46 ± 7 $(+0.3\sigma)$	$\sigma_8/h^{0.5}$	1.006 ± 0.019 (-0.2σ)	$H(0.57)$	$92.89^{+0.39}_{-0.44}$ $(+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	88 ± 10 (-0.8σ)	$\langle d^2 \rangle^{1/2}$	2.484 ± 0.044 (-0.3σ)	$D_{\rm A}(0.57)$	1392 ± 13 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	53 ± 6 (-1.7σ)	$z_{\rm re}$	$9.43^{+1.9}_{-1.6}$ (-0.3σ)	$F_{\rm AP}(0.57)$	0.6769 ± 0.0033 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.09^{+1.3}_{-2.6}$ (-1.1σ)	$10^9 A_{\rm s}$	2.176 ± 0.080 (-0.3σ)	$f\sigma_8(0.57)$	0.4809 ± 0.0090 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.552^{+0.096}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	1.879 ± 0.014 (-0.1σ)	$\sigma_8(0.57)$	0.613 ± 0.011 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.620 (-0.2σ)	D_{40}	1233 ± 15 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.246241 ± 0.000099 (-4.0σ)
$\boldsymbol{A^{kSZ}}$	$5.27^{+3.6}_{-2.4}$ $(+0.7\sigma)$	D_{220}	5709 ± 41 (-0.2σ)	f_{2000}^{143}	32.4 ± 2.7 $(+0.9\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.96 ± 0.19	D_{810}	2534 ± 14 (-0.0σ)	f_{2000}^{217}	108.0 ± 1.9 $(+1.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.07 ± 0.18	D_{1420}	815.1 ± 5.1 $(+0.1\sigma)$	$f_{2000}^{143\times217}$	34.9 ± 2.0 $(+1.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.16 ± 0.11	$n_{\rm s,0.002}$	0.9663 ± 0.0061 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10496.7 ± 2.0 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.96 ± 0.18	$Y_{\rm P}$	$0.244915^{+0.000090}_{-0.00010}$ (-4.0σ)	$\chi^2_{\rm CamSpec}$	8154.7 ± 5.7
$\boldsymbol{c_{100}}$	0.99841 ± 0.00096 $(+0.7\sigma)$	Age/Gyr	13.811 ± 0.038 (-0.1σ)	$\chi^2_{\rm prior}$	7.36 ± 3.3 $(+0.0\sigma)$
$\boldsymbol{c_{217}}$	0.9992 ± 0.0018 $(+2.3\sigma)$	z_*	1090.06 ± 0.42 (-0.1σ)	$\chi^2_{\rm CMB}$	18651.3 ± 5.7 $(+1340.0\sigma)$
$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	144.60 ± 0.48 (-0.0σ)		

$\bar{\chi}^2_{\rm eff} = 18658.72$; $\Delta\bar{\chi}^2_{\rm eff} = 7376.90$; $R - 1 = 0.00645$

2.158 base_plikDS_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022277	0.02225 ± 0.00023 $(+0.1\sigma)$	Ω_m	0.3150	0.315 ± 0.013 $(+0.0\sigma)$	$100\theta_*$	1.041037	1.04104 ± 0.00046 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.11981	0.1198 ± 0.0022 $(+0.0\sigma)$	$\Omega_m h^2$	0.14274	0.1427 ± 0.0021 $(+0.1\sigma)$	D_A/Gpc	13.8852	13.887 ± 0.045 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.040840	1.04085 ± 0.00047 (-0.0σ)	$\Omega_m h^3$	0.096086	0.09604 ± 0.00046 $(+0.2\sigma)$	z_{drag}	1059.704	1059.65 ± 0.47 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0746	0.075 ± 0.019 (-0.2σ)	σ_8	0.8272	0.827 ± 0.014 (-0.2σ)	r_{drag}	147.244	147.27 ± 0.49 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0836	3.084 ± 0.036 (-0.2σ)	$\sigma_8 \Omega_m^{0.5}$	0.4642	0.464 ± 0.013 (-0.1σ)	k_D	0.14064	0.14059 ± 0.00052 $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.9657	0.9652 ± 0.0062 (-0.1σ)	$\sigma_8 \Omega_m^{0.25}$	0.6197	0.620 ± 0.013 (-0.1σ)	$100\theta_D$	0.160880	0.16092 ± 0.00027 (-0.2σ)
$\boldsymbol{y_{cal}}$	1.00029	1.0004 ± 0.0025 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	1.0082	1.008 ± 0.019 (-0.1σ)	z_{eq}	3395.5	3395 ± 49 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	70.5	67.5 ± 6.5 $(+0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4911	2.493 ± 0.045 (-0.1σ)	k_{eq}	0.010364	0.01036 ± 0.00015 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	z_{re}	9.67	$9.59^{+1.8}_{-1.7}$ (-0.2σ)	$100\theta_{eq}$	0.8142	0.8143 ± 0.0093 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	6.74	4.71 ± 1.9 (-0.2σ)	$10^9 A_s$	2.184	$2.186^{+0.077}_{-0.085}$ (-0.2σ)	$100\theta_{s,eq}$	0.44991	0.4500 ± 0.0048 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	277.6	283 ± 28 $(+0.9\sigma)$	$10^9 A_s e^{-2\tau}$	1.8810	1.881 ± 0.014 $(+0.1\sigma)$	$r_{drag}/D_V(0.57)$	0.07138	0.07138 ± 0.00074 (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	44.6	49 ± 7 $(+0.6\sigma)$	D_{40}	1235.2	1238 ± 15 $(+0.0\sigma)$	$H(0.57)$	92.899	$92.89^{+0.39}_{-0.46}$ $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{PS}}$	35.6	41 ± 10 $(+0.1\sigma)$	D_{220}	5720.5	5722 ± 41 $(+0.1\sigma)$	$D_A(0.57)$	1391.4	1392 ± 13 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	94.0	93 ± 10 (-0.4σ)	D_{810}	2535.3	2535 ± 14 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.67691	0.6770 ± 0.0034 $(+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	0.02	< 4.95 $(+0.1\sigma)$	D_{1420}	815.3	814.9 ± 5.0 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4818	0.4818 ± 0.0091 (-0.1σ)
$\boldsymbol{A_{100}^{dustTT}}$	7.25	7.33 ± 1.9 (-0.0σ)	D_{2000}	230.60	230.4 ± 1.9 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6145	0.614 ± 0.011 (-0.2σ)
$\boldsymbol{A_{143}^{dustTT}}$	9.09	9.08 ± 1.8 $(+0.1\sigma)$	$n_{s,0.002}$	0.9657	0.9652 ± 0.0062 (-0.1σ)	f_{2000}^{143}	32.66	33.2 ± 2.7 $(+1.1\sigma)$
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.77	17.3 ± 4.2 $(+0.1\sigma)$	Y_P	0.245352	0.24534 ± 0.00010 $(+0.1\sigma)$	$f_{2000}^{143\times217}$	32.83	33.1 ± 1.9 $(+0.4\sigma)$
$\boldsymbol{A_{217}^{dustTT}}$	80.7	80.6 ± 7.4 (-0.2σ)	Y_P^{BBN}	0.246678	0.24667 ± 0.00010 $(+0.1\sigma)$	f_{2000}^{217}	113.61	113.9 ± 1.9 $(+3.9\sigma)$
$\boldsymbol{c_{100}}$	0.99787	0.99791 ± 0.00078 $(+0.0\sigma)$	10^5D/H	2.6088	2.614 ± 0.044 (-0.1σ)	χ^2_{lowTEB}	10496.15	10497.2 ± 2.1 (-0.1σ)
$\boldsymbol{c_{217}}$	0.99629	0.9963 ± 0.0014 $(+0.3\sigma)$	Age/Gyr	13.8083	13.810 ± 0.038 (-0.1σ)	χ^2_{plik}	747.9	761.4 ± 5.5 (-2.8σ)
H_0	67.32	67.30 ± 0.97 (-0.0σ)	z_*	1090.021	1090.06 ± 0.43 (-0.1σ)	χ^2_{prior}	2.05	7.24 ± 3.5 (-0.0σ)
Ω_Λ	0.6850	0.685 ± 0.013 (-0.0σ)	r_*	144.550	144.57 ± 0.49 (-0.1σ)	χ^2_{CMB}	11244.1	11258.6 ± 5.5 (-2.9σ)

Best-fit $\chi^2_{eff} = 11246.11$; $\Delta\chi^2_{eff} = -15.81$; $\bar{\chi}^2_{eff} = 11265.88$; $\Delta\bar{\chi}^2_{eff} = -15.93$; $R - 1 = 0.00679$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.15 (Δ -0.32) plik_dx11dr2_DS_v18_TT: 747.91

2.159 base_plikHM_TT_WMAPTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022226	0.02222 ± 0.00021	Ω_m	0.3162	0.316 ± 0.013	$100\theta_*$	1.041047	1.04105 ± 0.00046
$\boldsymbol{\Omega_c h^2}$	0.11999	0.1199 ± 0.0021	$\Omega_m h^2$	0.14286	0.1428 ± 0.0020	D_A/Gpc	13.8845	13.887 ± 0.044
$\boldsymbol{100\theta_{MC}}$	1.040844	1.04085 ± 0.00047	$\Omega_m h^3$	0.096022	0.09599 ± 0.00044	z_{drag}	1059.589	1059.57 ± 0.44
$\boldsymbol{\tau}$	0.0731	$0.074^{+0.011}_{-0.013}$	σ_8	0.8268	0.827 ± 0.010	r_{drag}	147.256	147.29 ± 0.47
$\boldsymbol{\ln(10^{10} A_s)}$	3.0810	$3.082^{+0.022}_{-0.025}$	$\sigma_8 \Omega_m^{0.5}$	0.4650	0.465 ± 0.013	k_D	0.14058	0.14054 ± 0.00051
$\boldsymbol{n_s}$	0.9655	0.9649 ± 0.0059	$\sigma_8 \Omega_m^{0.25}$	0.6200	0.620 ± 0.012	$100\theta_D$	0.160949	0.16097 ± 0.00026
$\boldsymbol{y_{cal}}$	1.00031	1.0004 ± 0.0026	$\sigma_8/h^{0.5}$	1.0085	1.009 ± 0.017	z_{eq}	3398.5	3396 ± 47
$\boldsymbol{A_{217}^{CIB}}$	66.2	63.8 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.4904	2.493 ± 0.039	k_{eq}	0.010372	0.01037 ± 0.00014
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	z_{re}	9.55	9.59 ± 1.1	$100\theta_{eq}$	0.8135	0.8140 ± 0.0088
$\boldsymbol{A_{143}^{tSZ}}$	7.02	5.13 ± 1.9	$10^9 A_s$	2.178	$2.182^{+0.046}_{-0.054}$	$100\theta_{s,eq}$	0.44960	0.4498 ± 0.0046
$\boldsymbol{A_{100}^{PS}}$	252.6	259 ± 28	$10^9 A_s e^{-2\tau}$	1.8816	1.881 ± 0.014	$r_{drag}/D_V(0.57)$	0.07132	0.07135 ± 0.00070
$\boldsymbol{A_{143}^{PS}}$	41.1	44 ± 8	D_{40}	1234.6	1237 ± 15	$H(0.57)$	92.843	92.85 ± 0.39
$\boldsymbol{A_{143\times217}^{PS}}$	36.4	39 ± 10	D_{220}	5714.8	5718 ± 42	$D_A(0.57)$	1392.8	1393 ± 12
$\boldsymbol{A_{217}^{PS}}$	98.9	98 ± 10	D_{810}	2535.4	2535 ± 14	$F_{AP}(0.57)$	0.67722	0.6772 ± 0.0032
$\boldsymbol{A^{kSZ}}$	0.00	< 4.60	D_{1420}	815.1	814.5 ± 5.1	$f\sigma_8(0.57)$	0.4819	0.4819 ± 0.0079
$\boldsymbol{A_{100}^{dustTT}}$	7.46	7.41 ± 1.9	D_{2000}	230.46	230.2 ± 1.8	$\sigma_8(0.57)$	0.6140	$0.6141^{+0.0067}_{-0.0078}$
$\boldsymbol{A_{143}^{dustTT}}$	9.06	9.00 ± 1.8	$n_{s,0.002}$	0.9655	0.9649 ± 0.0059	f_{2000}^{143}	29.56	30.1 ± 2.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.83	17.2 ± 4.2	Y_P	0.245329	0.245321 ± 0.000098	$f_{2000}^{143\times217}$	32.29	32.5 ± 2.0
$\boldsymbol{A_{217}^{dustTT}}$	82.3	81.9 ± 7.5	Y_P^{BBN}	0.246655	0.246648 ± 0.000098	f_{2000}^{217}	105.84	106.2 ± 2.0
$\boldsymbol{c_{100}}$	0.99793	0.99789 ± 0.00078	10^5D/H	2.6186	2.621 ± 0.041	$\chi^2_{WMAPTEB}$	19734.15	19735.4 ± 2.2
$\boldsymbol{c_{217}}$	0.99597	0.9959 ± 0.0015	Age/Gyr	13.8142	13.814 ± 0.036	χ^2_{plik}	764.1	777.4 ± 5.5
H_0	67.21	67.24 ± 0.91	z_*	1090.101	1090.11 ± 0.40	χ^2_{prior}	1.93	7.34 ± 3.6
Ω_Λ	0.6838	0.684 ± 0.013	r_*	144.545	144.57 ± 0.47	χ^2_{CMB}	20498.2	20512.8 ± 5.5

Best-fit $\chi^2_{eff} = 20500.15$; $\bar{\chi}^2_{eff} = 20520.13$; $R - 1 = 0.01203$
χ^2_{eff}: CMB - bflike_WMAP353ggf_LFI312_nw8: 19734.15 plik_dx11dr2_HM_v18_TT: 764.08

2.160 base_plikHM_TT_WMAPTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228 ± 0.00021	$\Omega_m h^2$	0.1412 ± 0.0015	z_{drag}	1059.60 ± 0.45
$\boldsymbol{\Omega_c h^2}$	0.1183 ± 0.0016	$\Omega_m h^3$	$0.09593^{+0.00041}_{-0.00048}$	r_{drag}	147.65 ± 0.39
$\boldsymbol{100\theta_{MC}}$	$1.04108^{+0.00046}_{-0.00041}$	σ_8	0.8172 ± 0.0072	k_D	0.14021 ± 0.00046
$\boldsymbol{\tau}$	$0.070^{+0.010}_{-0.012}$	$\sigma_8\Omega_m^{0.5}$	0.4520 ± 0.0083	$100\theta_D$	0.16096 ± 0.00026
$\boldsymbol{\ln(10^{10} A_s)}$	$3.070^{+0.019}_{-0.021}$	$\sigma_8\Omega_m^{0.25}$	0.6077 ± 0.0073	z_{eq}	3359 ± 37
$\boldsymbol{n_s}$	0.9686 ± 0.0052	$\sigma_8/h^{0.5}$	0.991 ± 0.010	k_{eq}	0.01025 ± 0.00011
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.452 ± 0.024	$100\theta_{eq}$	0.8211 ± 0.0071
$\boldsymbol{A_{217}^{CIB}}$	64.3 ± 6.6	z_{re}	9.18 ± 0.98	$100\theta_{s,eq}$	0.4535 ± 0.0036
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.154^{+0.039}_{-0.047}$	$r_{drag}/D_V(0.57)$	0.07192 ± 0.00056
$\boldsymbol{A_{143}^{tSZ}}$	5.10 ± 2.0	$10^9 A_s e^{-2\tau}$	1.872 ± 0.012	$H(0.57)$	$93.13^{+0.32}_{-0.37}$
$\boldsymbol{A_{100}^{PS}}$	259 ± 28	D_{40}	1225 ± 13	$D_A(0.57)$	1383.3 ± 9.9
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{220}	5717 ± 42	$F_{AP}(0.57)$	0.6746 ± 0.0025
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{810}	2532 ± 14	$f\sigma_8(0.57)$	0.4737 ± 0.0049
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	D_{1420}	814.7 ± 5.1	$\sigma_8(0.57)$	$0.6094^{+0.0054}_{-0.0063}$
$\boldsymbol{A^{kSZ}}$	< 4.81	D_{2000}	230.2 ± 1.8	f_{2000}^{143}	30.3 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.37 ± 1.8	$n_{s,0.002}$	0.9686 ± 0.0052	$f_{2000}^{143\times217}$	32.6 ± 2.0
$\boldsymbol{A_{143}^{dustTT}}$	9.09 ± 1.8	Y_P	0.245352 ± 0.000096	f_{2000}^{217}	106.1 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.3 ± 4.2	Y_P^{BBN}	0.246678 ± 0.000096	$\chi^2_{lensing}$	9.98 ± 1.6
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.6	10^5D/H	2.608 ± 0.040	$\chi^2_{WMAPTEB}$	19734.0 ± 1.5
$\boldsymbol{c_{100}}$	0.99786 ± 0.00078	Age/Gyr	13.794 ± 0.032	χ^2_{plik}	779.4 ± 9.6
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	z_*	1089.88 ± 0.35	χ^2_{prior}	7.43 ± 3.6
H_0	67.95 ± 0.74	r_*	144.95 ± 0.38	χ^2_{CMB}	20523.3 ± 9.6
Ω_Λ	0.6941 ± 0.0098	$100\theta_*$	$1.04127^{+0.00045}_{-0.00040}$		
Ω_m	0.3059 ± 0.0098	D_A/Gpc	13.921 ± 0.036		

$\bar{\chi}^2_{eff} = 20530.75$; $R - 1 = 0.02755$

2.161 base_plikHM_TT_WMAPTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02226 ± 0.00019	$\Omega_m h^3$	0.09599 ± 0.00044	k_D	0.14040 ± 0.00044
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0012	σ_8	$0.8254^{+0.0097}_{-0.011}$	$100\theta_D$	0.16095 ± 0.00025
$\boldsymbol{100\theta_{MC}}$	1.04097 ± 0.00041	$\sigma_8\Omega_m^{0.5}$	0.4601 ± 0.0087	z_{eq}	3378 ± 29
$\boldsymbol{\tau}$	$0.076^{+0.011}_{-0.012}$	$\sigma_8\Omega_m^{0.25}$	0.6162 ± 0.0091	k_{eq}	0.010309 ± 0.000088
$\boldsymbol{\ln(10^{10}A_s)}$	$3.084^{+0.022}_{-0.025}$	$\sigma_8/h^{0.5}$	1.004 ± 0.014	$100\theta_{eq}$	0.8175 ± 0.0053
$\boldsymbol{n_s}$	0.9669 ± 0.0044	$\langle d^2\rangle^{1/2}$	2.482 ± 0.032	$100\theta_{s,eq}$	0.4516 ± 0.0028
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	z_{re}	9.72 ± 1.0	$r_{drag}/D_V(0.57)$	0.07163 ± 0.00041
$\boldsymbol{A_{217}^{CIB}}$	63.8 ± 6.6	$10^9 A_s$	$2.185^{+0.046}_{-0.056}$	$H(0.57)$	92.99 ± 0.26
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s e^{-2\tau}$	1.878 ± 0.012	$D_A(0.57)$	1387.8 ± 7.4
$\boldsymbol{A_{143}^{tSZ}}$	5.18 ± 1.9	D_{40}	1233 ± 13	$F_{AP}(0.57)$	0.6758 ± 0.0019
$\boldsymbol{A_{100}^{PS}}$	258 ± 28	D_{220}	5721 ± 41	$f\sigma_8(0.57)$	0.4797 ± 0.0065
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{810}	2534 ± 14	$\sigma_8(0.57)$	$0.6142^{+0.0067}_{-0.0080}$
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{1420}	815.0 ± 5.0	f_{2000}^{143}	30.0 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{2000}	230.4 ± 1.7	$f_{2000}^{143\times217}$	32.4 ± 2.0
$\boldsymbol{A^{kSZ}}$	< 4.48	$n_{s,0.002}$	0.9669 ± 0.0044	f_{2000}^{217}	106.0 ± 1.9
$\boldsymbol{A_{100}^{dustTT}}$	7.40 ± 1.8	Y_P	0.245343 ± 0.000087	$\chi^2_{WMAPTEB}$	19735.1 ± 2.2
$\boldsymbol{A_{143}^{dustTT}}$	9.00 ± 1.8	Y_P^{BBN}	0.246669 ± 0.000088	χ^2_{plik}	777 ± 12
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	10^5D/H	2.612 ± 0.036	χ^2_{6DF}	0.064 ± 0.083
$\boldsymbol{A_{217}^{dustTT}}$	81.9 ± 7.5	Age/Gyr	13.803 ± 0.028	χ^2_{MGS}	1.31 ± 0.52
$\boldsymbol{c_{100}}$	0.99789 ± 0.00078	z_*	1089.98 ± 0.29	$\chi^2_{DR11CMASS}$	2.90 ± 0.70
$\boldsymbol{c_{217}}$	0.9959 ± 0.0015	r_*	144.75 ± 0.32	$\chi^2_{DR11LOWZ}$	0.78 ± 0.61
H_0	67.60 ± 0.55	$100\theta_*$	1.04116 ± 0.00041	χ^2_{prior}	7.31 ± 3.6
Ω_Λ	0.6892 ± 0.0074	D_A/Gpc	13.903 ± 0.031	χ^2_{CMB}	20510 ± 12
Ω_m	0.3108 ± 0.0074	z_{drag}	1059.62 ± 0.43	χ^2_{BAO}	5.05 ± 1.0
$\Omega_m h^2$	0.1420 ± 0.0012	r_{drag}	147.46 ± 0.34		

$\bar{\chi}^2_{eff} = 20524.89$; $R - 1 = 0.01550$

2.162 base_plikHM_TT_WMAPTEB_post_BAO_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227 ± 0.00019	$\Omega_m h^3$	0.09593 ± 0.00044	k_D	0.14023 ± 0.00042
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0011	σ_8	0.8171 ± 0.0071	$100\theta_D$	0.16098 ± 0.00025
$\boldsymbol{100\theta_{MC}}$	$1.04106^{+0.00044}_{-0.00037}$	$\sigma_8\Omega_m^{0.5}$	0.4528 ± 0.0064	z_{eq}	3363 ± 26
$\boldsymbol{\tau}$	$0.0689^{+0.0090}_{-0.010}$	$\sigma_8\Omega_m^{0.25}$	0.6083 ± 0.0064	k_{eq}	0.010264 ± 0.000080
$\boldsymbol{\ln(10^{10} A_s)}$	3.068 ± 0.018	$\sigma_8/h^{0.5}$	0.9920 ± 0.0094	$100\theta_{eq}$	0.8202 ± 0.0049
$\boldsymbol{n_s}$	0.9681 ± 0.0042	$\langle d^2\rangle^{1/2}$	2.453 ± 0.022	$100\theta_{s,eq}$	0.4531 ± 0.0025
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	z_{re}	9.09 ± 0.87	$r_{drag}/D_V(0.57)$	0.07185 ± 0.00038
$\boldsymbol{A_{217}^{CIB}}$	64.4 ± 6.7	$10^9 A_s$	2.150 ± 0.038	$H(0.57)$	93.08 ± 0.25
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s e^{-2\tau}$	1.873 ± 0.011	$D_A(0.57)$	1384.5 ± 6.9
$\boldsymbol{A_{143}^{tSZ}}$	5.09 ± 2.0	D_{40}	1226 ± 12	$F_{AP}(0.57)$	0.6749 ± 0.0017
$\boldsymbol{A_{100}^{PS}}$	260 ± 28	D_{220}	5715 ± 41	$f\sigma_8(0.57)$	0.4739 ± 0.0045
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{810}	2531 ± 14	$\sigma_8(0.57)$	0.6090 ± 0.0054
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{1420}	814.4 ± 5.0	f_{2000}^{143}	30.4 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	D_{2000}	230.1 ± 1.7	$f_{2000}^{143\times217}$	32.7 ± 2.0
$\boldsymbol{A^{kSZ}}$	< 4.84	$n_{s,0.002}$	0.9681 ± 0.0042	f_{2000}^{217}	106.2 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.36 ± 1.8	Y_P	0.245345 ± 0.000088	$\chi^2_{lensing}$	9.95 ± 1.4
$\boldsymbol{A_{143}^{dustTT}}$	9.09 ± 1.8	Y_P^{BBN}	0.246671 ± 0.000088	$\chi^2_{WMAPTEB}$	19733.9 ± 1.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.3 ± 4.2	10^5D/H	2.611 ± 0.037	χ^2_{plik}	779 ± 11
$\boldsymbol{A_{217}^{dustTT}}$	81.9 ± 7.6	Age/Gyr	13.797 ± 0.027	χ^2_{6DF}	0.036 ± 0.051
$\boldsymbol{c_{100}}$	0.99785 ± 0.00078	z_*	1089.92 ± 0.29	χ^2_{MGS}	1.58 ± 0.51
$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	r_*	144.91 ± 0.29	$\chi^2_{DR11CMASS}$	2.76 ± 0.52
H_0	67.86 ± 0.51	$100\theta_*$	1.04125 ± 0.00039	$\chi^2_{DR11LOWZ}$	0.50 ± 0.44
Ω_Λ	0.6929 ± 0.0067	D_A/Gpc	13.917 ± 0.029	χ^2_{prior}	7.45 ± 3.6
Ω_m	0.3071 ± 0.0067	z_{drag}	1059.58 ± 0.44	χ^2_{CMB}	20520 ± 11
$\Omega_m h^2$	0.1414 ± 0.0011	r_{drag}	147.62 ± 0.32	χ^2_{BAO}	4.87 ± 0.78

$\bar{\chi}^2_{eff} = 20535.09$; $R - 1 = 0.02637$

3 Alens

3.1 base_Alens_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022709	0.02262 ± 0.00029	Ω_m	0.2920	$0.295^{+0.015}_{-0.016}$	D_A/Gpc	13.9356	13.933 ± 0.048
$\boldsymbol{\Omega_c h^2}$	0.11625	0.1166 ± 0.0025	$\Omega_m h^2$	0.13960	0.1399 ± 0.0023	z_{drag}	1060.47	1060.28 ± 0.56
$\boldsymbol{100\theta_{MC}}$	1.04141	1.04137 ± 0.00053	$\Omega_m h^3$	0.096518	0.09641 ± 0.00050	r_{drag}	147.71	147.71 ± 0.51
$\boldsymbol{\tau}$	0.0636	0.059 ± 0.021	σ_8	0.8047	0.802 ± 0.018	k_D	0.14046	0.14040 ± 0.00052
$\boldsymbol{A_L}$	1.239	$1.224^{+0.096}_{-0.11}$	$\sigma_8\Omega_m^{0.5}$	0.4349	0.436 ± 0.018	$100\theta_D$	0.160496	0.16060 ± 0.00030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0541	3.046 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.5916	0.591 ± 0.018	z_{eq}	3321	3328 ± 56
$\boldsymbol{n_s}$	0.9767	0.9740 ± 0.0073	$\sigma_8/h^{0.5}$	0.9678	0.967 ± 0.027	k_{eq}	0.010135	0.01016 ± 0.00017
$\boldsymbol{y_{cal}}$	0.99997	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.664	2.644 ± 0.075	$100\theta_{eq}$	0.8295	0.828 ± 0.011
$\boldsymbol{A_{217}^{CIB}}$	58.1	61.2 ± 6.7	z_{re}	8.45	$7.95^{+2.3}_{-1.9}$	$100\theta_{s,eq}$	0.4576	0.4569 ± 0.0057
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.877	> 0.405	$10^9 A_s$	2.120	2.105 ± 0.087	$r_{drag}/D_V(0.57)$	0.07268	0.07255 ± 0.00091
$\boldsymbol{A_{143}^{tSZ}}$	6.72	$5.64^{+2.0}_{-1.8}$	$10^9 A_s e^{-2\tau}$	1.8671	1.868 ± 0.015	$H(0.57)$	93.75	$93.64^{+0.54}_{-0.61}$
$\boldsymbol{A_{100}^{PS}}$	236.5	247 ± 30	D_{40}	1208.1	1213 ± 18	$D_A(0.57)$	1366.8	1370 ± 16
$\boldsymbol{A_{143}^{PS}}$	45.0	38 ± 8	D_{220}	5740.6	5740 ± 42	$F_{AP}(0.57)$	0.67102	0.6717 ± 0.0039
$\boldsymbol{A_{143\times217}^{PS}}$	52.9	38 ± 10	D_{810}	2528.6	2527 ± 14	$f\sigma_8(0.57)$	0.4627	0.462 ± 0.013
$\boldsymbol{A_{217}^{PS}}$	107.2	98 ± 10	D_{1420}	816.0	814.3 ± 5.1	$\sigma_8(0.57)$	0.6034	0.601 ± 0.013
$\boldsymbol{A^{kSZ}}$	0.00	< 3.41	D_{2000}	233.36	232.4 ± 2.1	f_{2000}^{143}	25.01	27 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.38	7.42 ± 1.9	$n_{s,0.002}$	0.9767	0.9740 ± 0.0073	$f_{2000}^{143\times217}$	28.79	29.6 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	8.98	8.92 ± 1.9	Y_P	0.245542	0.24550 ± 0.00013	f_{2000}^{217}	102.38	103.5 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.15	16.6 ± 4.2	Y_P^{BBN}	0.246869	0.24683 ± 0.00013	χ^2_{lowTEB}	10493.41	10494.9 ± 1.7
$\boldsymbol{A_{217}^{dustTT}}$	83.0	81.5 ± 7.5	10^5D/H	2.528	2.545 ± 0.053	χ^2_{plik}	760.7	775.1 ± 5.6
$\boldsymbol{c_{100}}$	0.99801	0.99791 ± 0.00078	Age/Gyr	13.732	13.743 ± 0.050	χ^2_{prior}	1.36	7.17 ± 3.5
$\boldsymbol{c_{217}}$	0.99534	0.9956 ± 0.0015	z_*	1089.18	1089.32 ± 0.53	χ^2_{CMB}	11254.1	11270.0 ± 5.7
H_0	69.14	68.9 ± 1.2	r_*	145.15	145.11 ± 0.53			
Ω_Λ	0.7080	$0.705^{+0.016}_{-0.015}$	$100\theta_*$	1.04156	1.04153 ± 0.00051			

Best-fit $\chi^2_{eff} = 11255.51$; $\bar{\chi}^2_{eff} = 11277.18$; $R - 1 = 0.00926$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.41 plik_dx11dr2_HM_v18_TT: 760.74

3.2 base_Alens_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022545	0.02249 ± 0.00022	$\Omega_m h^2$	0.14116	0.1413 ± 0.0013	r_{drag}	147.435	147.44 ± 0.35
$\boldsymbol{\Omega_c h^2}$	0.11797	0.1182 ± 0.0013	$\Omega_m h^3$	0.096393	0.09634 ± 0.00048	k_D	0.140634	0.14059 ± 0.00045
$\boldsymbol{100\theta_{MC}}$	1.041138	1.04115 ± 0.00043	σ_8	0.8089	0.807 ± 0.017	$100\theta_D$	0.160617	0.16069 ± 0.00027
$\boldsymbol{\tau}$	0.0605	0.058 ± 0.021	$\sigma_8\Omega_m^{0.5}$	0.4450	0.445 ± 0.012	z_{eq}	3357.8	3362 ± 30
$\boldsymbol{A_L}$	1.202	1.188 ± 0.087	$\sigma_8\Omega_m^{0.25}$	0.6000	0.599 ± 0.014	k_{eq}	0.010248	0.010262 ± 0.000092
$\boldsymbol{\ln(10^{10}A_s)}$	3.0516	3.046 ± 0.041	$\sigma_8/h^{0.5}$	0.9788	0.978 ± 0.022	$100\theta_{eq}$	0.8220	0.8210 ± 0.0057
$\boldsymbol{n_s}$	0.97201	0.9699 ± 0.0046	$\langle d^2\rangle^{1/2}$	2.651	2.633 ± 0.073	$100\theta_{s,eq}$	0.45378	0.4533 ± 0.0029
$\boldsymbol{y_{cal}}$	0.99999	1.0001 ± 0.0025	z_{re}	8.23	$7.83^{+2.4}_{-1.9}$	$r_{drag}/D_V(0.57)$	0.072053	0.07198 ± 0.00045
$\boldsymbol{A_{217}^{CIB}}$	59.7	61.7 ± 6.7	$10^9 A_s$	2.115	2.104 ± 0.086	$H(0.57)$	93.362	93.30 ± 0.31
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.736	> 0.386	$10^9 A_s e^{-2\tau}$	1.8739	1.874 ± 0.012	$D_A(0.57)$	1378.1	1379.8 ± 8.4
$\boldsymbol{A_{143}^{tSZ}}$	6.80	5.55 ± 1.9	D_{40}	1216.8	1222 ± 14	$F_{AP}(0.57)$	0.67378	0.6742 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	239.6	249 ± 30	D_{220}	5730.8	5732 ± 41	$f\sigma_8(0.57)$	0.4680	0.467 ± 0.011
$\boldsymbol{A_{143}^{PS}}$	44.7	40 ± 8	D_{810}	2530.1	2529 ± 14	$\sigma_8(0.57)$	0.6039	0.602 ± 0.012
$\boldsymbol{A_{143\times217}^{PS}}$	50.6	38 ± 10	D_{1420}	815.0	813.7 ± 5.0	f_{2000}^{143}	26.01	27.4 ± 3.0
$\boldsymbol{A_{217}^{PS}}$	106.0	98 ± 10	D_{2000}	232.54	231.8 ± 1.9	$f_{2000}^{143\times217}$	29.67	30.3 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.01	< 3.71	$n_{s,0.002}$	0.97201	0.9699 ± 0.0046	f_{2000}^{217}	103.16	104.2 ± 2.1
$\boldsymbol{A_{100}^{dustTT}}$	7.61	7.40 ± 1.9	Y_P	0.245470	0.245444 ± 0.000098	χ^2_{lowTEB}	10494.08	10495.5 ± 1.5
$\boldsymbol{A_{143}^{dustTT}}$	9.07	8.93 ± 1.9	Y_P^{BBN}	0.246797	0.246771 ± 0.000099	χ^2_{plik}	760.6	774.2 ± 5.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.00	16.8 ± 4.2	10^5D/H	2.5586	2.570 ± 0.041	χ^2_{6DF}	0.0016	0.046 ± 0.065
$\boldsymbol{A_{217}^{dustTT}}$	82.6	81.7 ± 7.4	Age/Gyr	13.7648	13.771 ± 0.032	χ^2_{MGS}	1.82	1.78 ± 0.64
$\boldsymbol{c_{100}}$	0.99804	0.99791 ± 0.00078	z_*	1089.523	1089.62 ± 0.33	$\chi^2_{DR11CMASS}$	2.582	2.99 ± 0.82
$\boldsymbol{c_{217}}$	0.99539	0.9956 ± 0.0015	r_*	144.825	144.81 ± 0.32	$\chi^2_{DR11LOWZ}$	0.194	0.41 ± 0.45
H_0	68.29	68.16 ± 0.62	$100\theta_*$	1.041299	1.04132 ± 0.00042	χ^2_{prior}	1.41	7.23 ± 3.5
Ω_Λ	0.6973	0.6957 ± 0.0079	D_A/Gpc	13.9081	13.906 ± 0.031	χ^2_{CMB}	11254.7	11269.7 ± 5.6
Ω_m	0.3027	0.3043 ± 0.0079	z_{drag}	1060.200	1060.08 ± 0.49	χ^2_{BAO}	4.60	5.23 ± 1.2

Best-fit $\chi^2_{eff} = 11260.70$; $\bar{\chi}^2_{eff} = 11282.16$; $R - 1 = 0.01751$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.82 DR11CMASS: 2.58 DR11LOWZ: 0.19 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.08 plik_dx11dr2_HM_v18_TT: 760.62

3.3 base_Alens_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022707	0.02263 ± 0.00028	Ω_m	0.2918	0.295 ± 0.014	D_A/Gpc	13.9362	13.933 ± 0.045
$\boldsymbol{\Omega_c h^2}$	0.11621	0.1166 ± 0.0023	$\Omega_m h^2$	0.13957	0.1399 ± 0.0021	z_{drag}	1060.43	1060.28 ± 0.54
$\boldsymbol{100\theta_{MC}}$	1.04144	1.04137 ± 0.00051	$\Omega_m h^3$	0.096521	0.09641 ± 0.00049	r_{drag}	147.726	147.71 ± 0.48
$\boldsymbol{\tau}$	0.0618	0.059 ± 0.021	σ_8	0.8032	0.802 ± 0.018	k_D	0.14045	0.14040 ± 0.00051
$\boldsymbol{A_L}$	1.246	$1.225^{+0.093}_{-0.11}$	$\sigma_8\Omega_m^{0.5}$	0.4339	0.436 ± 0.017	$100\theta_D$	0.160504	0.16060 ± 0.00029
$\boldsymbol{\ln(10^{10}A_s)}$	3.0504	3.046 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.5903	0.591 ± 0.017	z_{eq}	3320	3327 ± 51
$\boldsymbol{n_s}$	0.9769	0.9741 ± 0.0068	$\sigma_8/h^{0.5}$	0.9658	0.966 ± 0.026	k_{eq}	0.010132	0.01016 ± 0.00016
$\boldsymbol{y_{cal}}$	0.99990	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.666	2.644 ± 0.074	$100\theta_{eq}$	0.8297	0.828 ± 0.010
$\boldsymbol{A_{217}^{CIB}}$	57.8	61.1 ± 6.7	z_{re}	8.28	$7.96^{+2.3}_{-1.9}$	$100\theta_{s,eq}$	0.4577	0.4569 ± 0.0052
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.968	> 0.406	$10^9 A_s$	2.112	2.105 ± 0.087	$r_{drag}/D_V(0.57)$	0.07270	0.07256 ± 0.00083
$\boldsymbol{A_{143}^{tSZ}}$	6.59	$5.65^{+2.0}_{-1.8}$	$10^9 A_s e^{-2\tau}$	1.8667	1.867 ± 0.014	$H(0.57)$	93.76	$93.65^{+0.49}_{-0.57}$
$\boldsymbol{A_{100}^{PS}}$	236.1	247 ± 30	D_{40}	1206.9	1213 ± 17	$D_A(0.57)$	1366.5	1370 ± 15
$\boldsymbol{A_{143}^{PS}}$	46.3	38 ± 8	D_{220}	5739.2	5740 ± 42	$F_{AP}(0.57)$	0.67096	0.6717 ± 0.0036
$\boldsymbol{A_{143\times217}^{PS}}$	55.3	38 ± 10	D_{810}	2528.5	2527 ± 14	$f\sigma_8(0.57)$	0.4618	0.462 ± 0.012
$\boldsymbol{A_{217}^{PS}}$	108.0	98 ± 10	D_{1420}	816.0	814.3 ± 5.0	$\sigma_8(0.57)$	0.6023	0.601 ± 0.013
$\boldsymbol{A^{kSZ}}$	0.00	< 3.43	D_{2000}	233.38	232.4 ± 2.0	f_{2000}^{143}	24.88	27 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.33	7.40 ± 1.9	$n_{s,0.002}$	0.9769	0.9741 ± 0.0068	$f_{2000}^{143\times217}$	28.80	29.6 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	8.96	8.93 ± 1.9	Y_P	0.245541	0.24550 ± 0.00012	f_{2000}^{217}	102.33	103.5 ± 2.2
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.09	16.6 ± 4.2	Y_P^{BBN}	0.246868	0.24683 ± 0.00012	χ^2_{lowTEB}	10493.34	10494.8 ± 1.7
$\boldsymbol{A_{217}^{dustTT}}$	82.8	81.5 ± 7.4	10^5D/H	2.529	2.545 ± 0.050	χ^2_{plik}	760.9	775.0 ± 5.5
$\boldsymbol{c_{100}}$	0.99804	0.99791 ± 0.00078	Age/Gyr	13.7314	13.743 ± 0.046	χ^2_{JLA}	706.498	706.66 ± 0.23
$\boldsymbol{c_{217}}$	0.99537	0.9956 ± 0.0015	z_*	1089.18	1089.31 ± 0.49	χ^2_{prior}	1.25	7.21 ± 3.5
H_0	69.16	68.9 ± 1.1	r_*	145.158	145.12 ± 0.49	χ^2_{CMB}	11254.2	11269.8 ± 5.6
Ω_Λ	0.7082	0.705 ± 0.014	$100\theta_*$	1.041589	1.04154 ± 0.00049			

Best-fit $\chi^2_{eff} = 11961.99$; $\bar{\chi}^2_{eff} = 11983.68$; $R - 1 = 0.01216$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.34 plik_dx11dr2_HM_v18_TT: 760.90 SN - JLA December_2013: 706.50

3.4 base_Alens_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022745	0.02266 ± 0.00028	Ω_m	0.2896	$0.293^{+0.014}_{-0.015}$	D_A/Gpc	13.9429	13.939 ± 0.046
$\boldsymbol{\Omega_c h^2}$	0.11583	0.1162 ± 0.0024	$\Omega_m h^2$	0.13922	0.1396 ± 0.0022	z_{drag}	1060.51	1060.33 ± 0.55
$\boldsymbol{100\theta_{MC}}$	1.04146	1.04143 ± 0.00051	$\Omega_m h^3$	0.096532	0.09643 ± 0.00049	r_{drag}	147.785	147.77 ± 0.49
$\boldsymbol{\tau}$	0.0619	0.060 ± 0.021	σ_8	0.8017	0.801 ± 0.018	k_D	0.14041	0.14036 ± 0.00051
$\boldsymbol{A_L}$	1.252	$1.234^{+0.094}_{-0.11}$	$\sigma_8\Omega_m^{0.5}$	0.4314	0.433 ± 0.017	$100\theta_D$	0.160471	0.16057 ± 0.00030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0497	3.046 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.5881	0.589 ± 0.017	z_{eq}	3311	3319 ± 53
$\boldsymbol{n_s}$	0.9778	0.9751 ± 0.0070	$\sigma_8/h^{0.5}$	0.9627	0.964 ± 0.026	k_{eq}	0.010107	0.01013 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00001	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.664	2.648 ± 0.074	$100\theta_{eq}$	0.8314	0.830 ± 0.011
$\boldsymbol{A_{217}^{CIB}}$	57.8	61.0 ± 6.7	z_{re}	8.27	$7.98^{+2.3}_{-1.9}$	$100\theta_{s,eq}$	0.4585	0.4578 ± 0.0054
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.949	> 0.412	$10^9 A_s$	2.111	2.105 ± 0.087	$r_{drag}/D_V(0.57)$	0.07284	0.07270 ± 0.00086
$\boldsymbol{A_{143}^{tSZ}}$	6.72	$5.68^{+2.0}_{-1.8}$	$10^9 A_s e^{-2\tau}$	1.8653	1.866 ± 0.014	$H(0.57)$	93.84	93.73 ± 0.53
$\boldsymbol{A_{100}^{PS}}$	234.7	246 ± 30	D_{40}	1205.3	1211 ± 17	$D_A(0.57)$	1364.2	1367 ± 15
$\boldsymbol{A_{143}^{PS}}$	45.4	38 ± 8	D_{220}	5743.0	5742 ± 42	$F_{AP}(0.57)$	0.67037	0.6711 ± 0.0037
$\boldsymbol{A_{143\times217}^{PS}}$	54.6	38 ± 10	D_{810}	2528.3	2526 ± 14	$f\sigma_8(0.57)$	0.4603	0.461 ± 0.013
$\boldsymbol{A_{217}^{PS}}$	107.7	98 ± 10	D_{1420}	816.2	814.5 ± 5.0	$\sigma_8(0.57)$	0.6018	0.601 ± 0.013
$\boldsymbol{A^{kSZ}}$	0.00	< 3.35	D_{2000}	233.53	232.6 ± 2.0	f_{2000}^{143}	24.69	26 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.34	7.40 ± 1.9	$n_{s,0.002}$	0.9778	0.9751 ± 0.0070	$f_{2000}^{143\times217}$	28.64	29.4 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	9.01	8.93 ± 1.9	Y_P	0.245558	0.24552 ± 0.00012	f_{2000}^{217}	102.23	103.4 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.15	16.6 ± 4.2	Y_P^{BBN}	0.246885	0.24685 ± 0.00012	χ^2_{lowTEB}	10493.22	10494.7 ± 1.7
$\boldsymbol{A_{217}^{dustTT}}$	82.9	81.5 ± 7.4	10^5D/H	2.522	2.538 ± 0.051	χ^2_{plik}	761.0	775.2 ± 5.6
$\boldsymbol{c_{100}}$	0.99802	0.99791 ± 0.00078	Age/Gyr	13.7251	13.736 ± 0.047	χ^2_{H070p6}	0.151	0.32 ± 0.34
$\boldsymbol{c_{217}}$	0.99532	0.9955 ± 0.0015	z_*	1089.09	1089.24 ± 0.50	χ^2_{prior}	1.33	7.20 ± 3.5
H_0	69.34	69.1 ± 1.1	r_*	145.23	145.19 ± 0.51	χ^2_{CMB}	11254.2	11269.9 ± 5.6
Ω_Λ	0.7104	$0.707^{+0.015}_{-0.014}$	$100\theta_*$	1.041609	1.04159 ± 0.00050			

Best-fit $\chi^2_{eff} = 11255.65$; $\bar{\chi}^2_{eff} = 11277.40$; $R - 1 = 0.01240$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.22 plik_dx11dr2_HM_v18_TT: 760.95 Hubble - H070p6: 0.15

3.5 base_Alens_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02263 ± 0.00029	Ω_m	$0.294^{+0.015}_{-0.016}$	D_A/Gpc	13.935 ± 0.048
$\boldsymbol{\Omega_c h^2}$	0.1166 ± 0.0025	$\Omega_m h^2$	0.1398 ± 0.0023	z_{drag}	1060.28 ± 0.56
$\boldsymbol{100\theta_{MC}}$	1.04138 ± 0.00053	$\Omega_m h^3$	0.09640 ± 0.00050	r_{drag}	147.73 ± 0.51
$\boldsymbol{\tau}$	$0.068^{+0.010}_{-0.021}$	σ_8	$0.809^{+0.013}_{-0.017}$	k_D	0.14038 ± 0.00052
$\boldsymbol{A_L}$	1.205 ± 0.095	$\sigma_8\Omega_m^{0.5}$	0.439 ± 0.017	$100\theta_D$	0.16060 ± 0.00030
$\boldsymbol{\ln(10^{10}A_s)}$	$3.063^{+0.023}_{-0.040}$	$\sigma_8\Omega_m^{0.25}$	0.596 ± 0.017	z_{eq}	3326 ± 56
$\boldsymbol{n_s}$	0.9744 ± 0.0073	$\sigma_8/h^{0.5}$	$0.974^{+0.023}_{-0.026}$	k_{eq}	0.01015 ± 0.00017
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.643 ± 0.075	$100\theta_{eq}$	0.828 ± 0.011
$\boldsymbol{A_{217}^{CIB}}$	61.0 ± 6.8	z_{re}	$8.82^{+0.82}_{-2.1}$	$100\theta_{s,eq}$	0.4571 ± 0.0056
$\boldsymbol{\xi^{tSZ\times CIB}}$	> 0.409	10^9A_s	$2.139^{+0.047}_{-0.087}$	$r_{drag}/D_V(0.57)$	0.07258 ± 0.00091
$\boldsymbol{A_{143}^{tSZ}}$	$5.66^{+2.1}_{-1.8}$	$10^9A_se^{-2\tau}$	1.867 ± 0.015	$H(0.57)$	$93.66^{+0.55}_{-0.61}$
$\boldsymbol{A_{100}^{PS}}$	247 ± 30	D_{40}	1215 ± 18	$D_A(0.57)$	1369 ± 16
$\boldsymbol{A_{143}^{PS}}$	38 ± 8	D_{220}	5739 ± 42	$F_{AP}(0.57)$	0.6716 ± 0.0039
$\boldsymbol{A_{143\times217}^{PS}}$	38 ± 10	D_{810}	2527 ± 14	$f\sigma_8(0.57)$	0.466 ± 0.012
$\boldsymbol{A_{217}^{PS}}$	98 ± 10	D_{1420}	814.4 ± 5.1	$\sigma_8(0.57)$	$0.6059^{+0.0077}_{-0.012}$
$\boldsymbol{A^{kSZ}}$	< 3.39	D_{2000}	232.4 ± 2.1	f_{2000}^{143}	27 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.41 ± 1.9	$n_{s,0.002}$	0.9744 ± 0.0073	$f_{2000}^{143\times217}$	29.6 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	8.92 ± 1.9	Y_P	0.24550 ± 0.00013	f_{2000}^{217}	103.5 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	16.7 ± 4.2	Y_P^{BBN}	0.24683 ± 0.00013	χ^2_{lowTEB}	10494.6 ± 1.7
$\boldsymbol{A_{217}^{dustTT}}$	81.6 ± 7.4	10^5D/H	2.545 ± 0.053	χ^2_{plik}	775.1 ± 5.6
$\boldsymbol{c_{100}}$	0.99791 ± 0.00078	Age/Gyr	13.742 ± 0.050	χ^2_{prior}	7.21 ± 3.5
$\boldsymbol{c_{217}}$	0.9955 ± 0.0015	z_*	1089.31 ± 0.53	χ^2_{CMB}	11269.7 ± 5.7
H_0	69.0 ± 1.2	r_*	145.13 ± 0.53		
Ω_Λ	$0.706^{+0.016}_{-0.015}$	$100\theta_*$	1.04154 ± 0.00052		

$\bar{\chi}^2_{eff} = 11276.95$; $R - 1 = 0.01160$

3.6 base_Alens_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022432	0.02240 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.304 ± 0.084	Age/Gyr	13.7840	13.787 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11835	0.1185 ± 0.0016	$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.154 ± 0.054	z_*	1089.700	1089.75 ± 0.33
$\boldsymbol{100\theta_{MC}}$	1.040921	1.04093 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.334	0.335 ± 0.080	r_*	144.812	144.80 ± 0.34
$\boldsymbol{\tau}$	0.0581	0.057 ± 0.020	$\boldsymbol{A^{dustTE}_{217}}$	1.650	1.65 ± 0.26	$100\theta_*$	1.041105	1.04111 ± 0.00032
$\boldsymbol{A_L}$	1.157	1.153 ± 0.077	$\boldsymbol{c_{100}}$	0.99825	0.99820 ± 0.00077	D_A/Gpc	13.9095	13.908 ± 0.031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0479	3.046 ± 0.040	$\boldsymbol{c_{217}}$	0.99562	0.9957 ± 0.0014	z_{drag}	1059.971	1059.90 ± 0.34
$\boldsymbol{n_s}$	0.9692	0.9680 ± 0.0051	H_0	67.99	67.92 ± 0.73	r_{drag}	147.460	147.46 ± 0.32
$\boldsymbol{y_{cal}}$	0.99988	1.0001 ± 0.0025	Ω_Λ	0.6941	0.6931 ± 0.0097	k_D	0.140525	0.14050 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	61.5	62.3 ± 6.6	Ω_m	0.3059	0.3069 ± 0.0097	$100\theta_D$	0.160726	0.16077 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.626	> 0.396	$\Omega_m h^2$	0.14142	0.1415 ± 0.0015	z_{eq}	3364.1	3367 ± 35
$\boldsymbol{A^{tSZ}_{143}}$	6.87	$5.59^{+2.0}_{-1.8}$	$\Omega_m h^3$	0.096154	0.09612 ± 0.00030	k_{eq}	0.010268	0.01028 ± 0.00011
$\boldsymbol{A^{PS}_{100}}$	246.7	254 ± 28	σ_8	0.8081	0.808 ± 0.017	$100\theta_{eq}$	0.8203	0.8199 ± 0.0068
$\boldsymbol{A^{PS}_{143}}$	45.1	41 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4470	0.447 ± 0.013	$100\theta_{s,eq}$	0.45301	0.4528 ± 0.0035
$\boldsymbol{A^{PS}_{143\times217}}$	49.1	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6010	0.601 ± 0.015	$r_{drag}/D_V(0.57)$	0.07187	0.07183 ± 0.00054
$\boldsymbol{A^{PS}_{217}}$	104.8	98.9 ± 11	$\sigma_8/h^{0.5}$	0.9800	0.980 ± 0.023	$H(0.57)$	93.186	93.15 ± 0.32
$\boldsymbol{A^{kSZ}}$	0.00	< 3.39	$\langle d^2\rangle^{1/2}$	2.608	2.602 ± 0.058	$D_A(0.57)$	1382.4	1383.4 ± 9.7
$\boldsymbol{A^{dustTT}_{100}}$	7.29	7.42 ± 1.9	z_{re}	8.02	$7.78^{+2.3}_{-1.9}$	$F_{AP}(0.57)$	0.67461	0.6749 ± 0.0025
$\boldsymbol{A^{dustTT}_{143}}$	8.88	8.82 ± 1.8	$10^9 A_s$	2.107	2.104 ± 0.085	$f\sigma_8(0.57)$	0.4684	0.468 ± 0.011
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.75	16.6 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8757	1.877 ± 0.012	$\sigma_8(0.57)$	0.6025	0.602 ± 0.012
$\boldsymbol{A^{dustTT}_{217}}$	82.1	81.3 ± 7.4	D_{40}	1222.3	1226 ± 15	f^{143}_{2000}	27.06	27.9 ± 2.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0818	0.0816 ± 0.0057	D_{220}	5733.1	5736 ± 39	$f^{143\times217}_{2000}$	30.57	30.8 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04947	0.0492 ± 0.0050	D_{810}	2530.9	2531 ± 14	f^{217}_{2000}	104.05	104.6 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1001	0.099 ± 0.032	D_{1420}	814.20	813.6 ± 4.7	χ^2_{lowTEB}	10494.58	10495.8 ± 1.6
$\boldsymbol{A^{dustEE}_{143}}$	0.1006	0.1005 ± 0.0069	D_{2000}	231.56	231.2 ± 1.6	χ^2_{plik}	2429.3	2448.8 ± 6.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2247	0.223 ± 0.047	$n_{s,0.002}$	0.9692	0.9680 ± 0.0051	χ^2_{prior}	6.63	19.1 ± 5.4
$\boldsymbol{A^{dustEE}_{217}}$	0.648	0.65 ± 0.13	Y_P	0.245420	0.245405 ± 0.000078	χ^2_{CMB}	12923.9	12944.7 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.1407	0.141 ± 0.038	Y_P^{BBN}	0.246747	0.246732 ± 0.000078			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1306	0.132 ± 0.029	10^5D/H	2.5797	2.586 ± 0.033			

Best-fit $\chi^2_{eff} = 12930.56$; $\bar{\chi}^2_{eff} = 12963.80$; $R - 1 = 0.00817$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.58 plik_dx11dr2_HM_v18_TTTEEE: 2429.35

3.7 base_Alens_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022436	0.02239 ± 0.00015	$\boldsymbol{A_{143}^{dustTE}}$	0.152	0.154 ± 0.054	r_*	144.794	144.79 ± 0.25
$\boldsymbol{\Omega_c h^2}$	0.11840	0.1185 ± 0.0011	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.331	0.334 ± 0.080	$100\theta_*$	1.041114	1.04111 ± 0.00030
$\boldsymbol{100\theta_{MC}}$	1.040933	1.04093 ± 0.00030	$\boldsymbol{A_{217}^{dustTE}}$	1.644	1.65 ± 0.26	D_A/Gpc	13.9076	13.907 ± 0.024
$\boldsymbol{\tau}$	0.0581	0.057 ± 0.020	$\boldsymbol{c_{100}}$	0.99829	0.99820 ± 0.00077	z_{drag}	1059.971	1059.89 ± 0.32
$\boldsymbol{A_L}$	1.160	1.151 ± 0.073	$\boldsymbol{c_{217}}$	0.99553	0.9958 ± 0.0014	r_{drag}	147.441	147.45 ± 0.25
$\boldsymbol{\ln(10^{10}A_s)}$	3.0483	3.046 ± 0.040	H_0	67.98	67.89 ± 0.51	k_D	0.140549	0.14051 ± 0.00030
$\boldsymbol{n_s}$	0.96967	0.9678 ± 0.0041	Ω_Λ	0.6938	0.6927 ± 0.0067	$100\theta_D$	0.160720	0.16077 ± 0.00018
$\boldsymbol{y_{cal}}$	0.99992	1.0001 ± 0.0025	Ω_m	0.3062	0.3073 ± 0.0067	z_{eq}	3365.6	3368 ± 25
$\boldsymbol{A_{217}^{CIB}}$	59.7	62.3 ± 6.5	$\Omega_m h^2$	0.14149	0.1416 ± 0.0010	k_{eq}	0.010272	0.010280 ± 0.000076
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.855	> 0.390	$\Omega_m h^3$	0.096176	0.09612 ± 0.00030	$100\theta_{eq}$	0.82008	0.8196 ± 0.0048
$\boldsymbol{A_{143}^{tSZ}}$	6.62	5.57 ± 1.8	σ_8	0.8086	0.808 ± 0.017	$100\theta_{s,eq}$	0.45287	0.4526 ± 0.0024
$\boldsymbol{A_{100}^{PS}}$	245.4	255 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4475	0.448 ± 0.011	$r_{drag}/D_V(0.57)$	0.071855	0.07181 ± 0.00038
$\boldsymbol{A_{143}^{PS}}$	48.4	41 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6015	0.601 ± 0.013	$H(0.57)$	93.185	93.14 ± 0.23
$\boldsymbol{A_{143\times217}^{PS}}$	55.2	40 ± 10	$\sigma_8/h^{0.5}$	0.9808	0.980 ± 0.021	$D_A(0.57)$	1382.5	1383.8 ± 6.8
$\boldsymbol{A_{217}^{PS}}$	107.9	99.0 ± 11	$\langle d^2\rangle^{1/2}$	2.612	2.601 ± 0.058	$F_{AP}(0.57)$	0.67468	0.6749 ± 0.0017
$\boldsymbol{A^{kSZ}}$	0.00	< 3.40	z_{re}	8.02	$7.78^{+2.3}_{-1.9}$	$f\sigma_8(0.57)$	0.4688	0.469 ± 0.010
$\boldsymbol{A_{100}^{dustTT}}$	7.29	7.43 ± 1.9	$10^9 A_s$	2.108	2.104 ± 0.085	$\sigma_8(0.57)$	0.6028	0.602 ± 0.012
$\boldsymbol{A_{143}^{dustTT}}$	8.86	8.82 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8767	1.877 ± 0.011	f_{2000}^{143}	26.65	27.9 ± 2.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.99	16.6 ± 4.1	D_{40}	1221.5	1227 ± 13	$f_{2000}^{143\times217}$	30.35	30.9 ± 2.0
$\boldsymbol{A_{217}^{dustTT}}$	82.4	81.3 ± 7.4	D_{220}	5732.4	5736 ± 39	f_{2000}^{217}	103.76	104.7 ± 1.9
$\boldsymbol{A_{100}^{dustEE}}$	0.0818	0.0815 ± 0.0057	D_{810}	2532.3	2531 ± 14	χ^2_{lowTEB}	10494.50	10495.9 ± 1.5
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04932	0.0492 ± 0.0050	D_{1420}	814.91	813.6 ± 4.7	χ^2_{plik}	2429.5	2448.4 ± 6.5
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0995	0.0996 ± 0.032	D_{2000}	231.85	231.2 ± 1.6	χ^2_{6DF}	0.0029	0.038 ± 0.052
$\boldsymbol{A_{143}^{dustEE}}$	0.1007	0.1005 ± 0.0069	$n_{s,0.002}$	0.96967	0.9678 ± 0.0041	χ^2_{MGS}	1.54	1.53 ± 0.51
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2226	0.223 ± 0.047	Y_P	0.245422	0.245403 ± 0.000067	$\chi^2_{DR11CMASS}$	2.426	2.76 ± 0.50
$\boldsymbol{A_{217}^{dustEE}}$	0.646	0.65 ± 0.13	Y_P^{BBN}	0.246748	0.246729 ± 0.000067	$\chi^2_{DR11LOWZ}$	0.373	0.54 ± 0.45
$\boldsymbol{A_{100}^{dustTE}}$	0.1408	0.141 ± 0.038	10^5D/H	2.5790	2.587 ± 0.028	χ^2_{prior}	6.47	19.1 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1321	0.131 ± 0.029	Age/Gyr	13.7836	13.789 ± 0.023	χ^2_{CMB}	12924.0	12944.2 ± 6.7
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.303	0.304 ± 0.085	z_*	1089.700	1089.76 ± 0.25	χ^2_{BAO}	4.342	4.87 ± 0.74

Best-fit $\chi^2_{eff} = 12934.81$; $\bar{\chi}^2_{eff} = 12968.23$; $R - 1 = 0.00741$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.43 DR11LOWZ: 0.37 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.50 plik_dx11dr2_HM_v18_TTTEEE: 2429.50

3.8 base_Alens_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022465	0.02241 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.306	0.304 ± 0.085	Age/Gyr	13.7783	13.785 ± 0.028
$\boldsymbol{\Omega_c h^2}$	0.11809	0.1183 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.152	0.154 ± 0.054	z_*	1089.635	1089.72 ± 0.32
$\boldsymbol{100\theta_{MC}}$	1.040976	1.04095 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.333	0.334 ± 0.080	r_*	144.853	144.83 ± 0.33
$\boldsymbol{\tau}$	0.0586	0.057 ± 0.020	$\boldsymbol{A^{dustTE}_{217}}$	1.657	1.65 ± 0.26	$100\theta_*$	1.041145	1.04113 ± 0.00032
$\boldsymbol{A_L}$	1.168	$1.156^{+0.074}_{-0.082}$	$\boldsymbol{c_{100}}$	0.99829	0.99820 ± 0.00077	D_A/Gpc	13.9129	13.911 ± 0.030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0482	3.046 ± 0.040	$\boldsymbol{c_{217}}$	0.99551	0.9957 ± 0.0014	z_{drag}	1060.009	1059.91 ± 0.34
$\boldsymbol{n_s}$	0.97058	0.9684 ± 0.0050	H_0	68.12	68.00 ± 0.70	r_{drag}	147.493	147.49 ± 0.32
$\boldsymbol{y_{cal}}$	0.99966	1.0001 ± 0.0025	Ω_Λ	0.6957	0.6940 ± 0.0093	k_D	0.140516	0.14048 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	59.3	62.2 ± 6.5	Ω_m	0.3043	0.3060 ± 0.0093	$100\theta_D$	0.160697	0.16076 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.888	> 0.393	$\Omega_m h^2$	0.14120	0.1414 ± 0.0014	z_{eq}	3358.9	3363 ± 34
$\boldsymbol{A^{tSZ}_{143}}$	6.62	5.59 ± 1.8	$\Omega_m h^3$	0.096190	0.09612 ± 0.00030	k_{eq}	0.010252	0.01026 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	243.9	254 ± 28	σ_8	0.8077	0.807 ± 0.017	$100\theta_{eq}$	0.8214	0.8205 ± 0.0066
$\boldsymbol{A^{PS}_{143}}$	48.2	41 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4455	0.446 ± 0.013	$100\theta_{s,eq}$	0.45355	0.4531 ± 0.0034
$\boldsymbol{A^{PS}_{143\times217}}$	55.7	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.5999	0.600 ± 0.015	$r_{drag}/D_V(0.57)$	0.07196	0.07189 ± 0.00053
$\boldsymbol{A^{PS}_{217}}$	108.1	98.9 ± 11	$\sigma_8/h^{0.5}$	0.9785	0.979 ± 0.022	$H(0.57)$	93.248	93.19 ± 0.31
$\boldsymbol{A^{kSZ}}$	0.00	< 3.36	$\langle d^2\rangle^{1/2}$	2.614	2.603 ± 0.058	$D_A(0.57)$	1380.6	1382.4 ± 9.4
$\boldsymbol{A^{dustTT}_{100}}$	7.37	7.44 ± 1.9	z_{re}	8.06	$7.80^{+2.3}_{-1.9}$	$F_{AP}(0.57)$	0.67419	0.6746 ± 0.0024
$\boldsymbol{A^{dustTT}_{143}}$	8.90	8.81 ± 1.8	$10^9 A_s$	2.108	2.104 ± 0.084	$f\sigma_8(0.57)$	0.4677	0.468 ± 0.011
$\boldsymbol{A^{dustTT}_{143\times217}}$	18.10	16.6 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8745	1.876 ± 0.012	$\sigma_8(0.57)$	0.6026	0.602 ± 0.012
$\boldsymbol{A^{dustTT}_{217}}$	82.6	81.3 ± 7.4	D_{40}	1219.1	1225 ± 15	f^{143}_{2000}	26.35	27.8 ± 2.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0818	0.0816 ± 0.0057	D_{220}	5730.6	5737 ± 39	$f^{143\times217}_{2000}$	30.14	30.8 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0496	0.0492 ± 0.0050	D_{810}	2530.7	2531 ± 14	f^{217}_{2000}	103.54	104.6 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0988	0.099 ± 0.032	D_{1420}	814.67	813.7 ± 4.7	χ^2_{lowTEB}	10494.33	10495.8 ± 1.6
$\boldsymbol{A^{dustEE}_{143}}$	0.1010	0.1005 ± 0.0069	D_{2000}	231.90	231.3 ± 1.6	χ^2_{plik}	2429.7	2448.9 ± 6.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2251	0.223 ± 0.047	$n_{s,0.002}$	0.97058	0.9684 ± 0.0050	χ^2_{JLA}	706.581	706.68 ± 0.22
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	Y_P	0.245434	0.245412 ± 0.000076	χ^2_{prior}	6.44	19.1 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1396	0.140 ± 0.038	Y_P^{BBN}	0.246761	0.246738 ± 0.000077	χ^2_{CMB}	12924.0	12944.6 ± 6.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1310	0.131 ± 0.029	10^5D/H	2.5736	2.583 ± 0.032			

Best-fit $\chi^2_{\rm eff} = 13637.05$; $\bar{\chi}^2_{\rm eff} = 13670.44$; $R-1 = 0.00864$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.33 plik_dx11dr2_HM_v18_TTTEEE: 2429.70 SN - JLA December_2013: 706.58

3.9 base_Alens_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022484	0.02242 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.304 ± 0.084	Age/Gyr	13.7750	13.783 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11791	0.1182 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.150	0.154 ± 0.054	z_*	1089.594	1089.70 ± 0.32
$\boldsymbol{100\theta_{MC}}$	1.040994	1.04096 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.331	0.334 ± 0.080	r_*	144.886	144.85 ± 0.33
$\boldsymbol{\tau}$	0.0582	0.057 ± 0.020	$\boldsymbol{A^{dustTE}_{217}}$	1.647	1.65 ± 0.26	$100\theta_*$	1.041163	1.04114 ± 0.00032
$\boldsymbol{A_L}$	1.177	$1.158^{+0.074}_{-0.083}$	$\boldsymbol{c_{100}}$	0.99829	0.99820 ± 0.00077	D_A/Gpc	13.9158	13.913 ± 0.031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0475	3.046 ± 0.040	$\boldsymbol{c_{217}}$	0.99551	0.9957 ± 0.0014	z_{drag}	1060.047	1059.93 ± 0.34
$\boldsymbol{n_s}$	0.97123	0.9686 ± 0.0050	H_0	68.21	68.05 ± 0.71	r_{drag}	147.520	147.50 ± 0.32
$\boldsymbol{y_{cal}}$	0.99986	1.0001 ± 0.0025	Ω_Λ	0.6969	0.6947 ± 0.0094	k_D	0.140501	0.14047 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	58.5	62.2 ± 6.5	Ω_m	0.3031	0.3053 ± 0.0094	$100\theta_D$	0.160680	0.16075 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.998	> 0.394	$\Omega_m h^2$	0.14104	0.1413 ± 0.0014	z_{eq}	3354.9	3361 ± 34
$\boldsymbol{A^{tSZ}_{143}}$	6.61	5.61 ± 1.8	$\Omega_m h^3$	0.096203	0.09613 ± 0.00030	k_{eq}	0.010240	0.01026 ± 0.00011
$\boldsymbol{A^{PS}_{100}}$	242.4	254 ± 28	σ_8	0.8069	0.807 ± 0.017	$100\theta_{eq}$	0.8222	0.8210 ± 0.0067
$\boldsymbol{A^{PS}_{143}}$	49.5	41 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4443	0.446 ± 0.013	$100\theta_{s,eq}$	0.45395	0.4533 ± 0.0034
$\boldsymbol{A^{PS}_{143\times217}}$	58.6	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.5987	0.600 ± 0.015	$r_{drag}/D_V(0.57)$	0.07203	0.07192 ± 0.00054
$\boldsymbol{A^{PS}_{217}}$	109.3	98.9 ± 11	$\sigma_8/h^{0.5}$	0.9770	0.978 ± 0.022	$H(0.57)$	93.287	93.21 ± 0.32
$\boldsymbol{A^{kSZ}}$	0.00	< 3.34	$\langle d^2\rangle^{1/2}$	2.620	2.604 ± 0.058	$D_A(0.57)$	1379.4	1381.7 ± 9.5
$\boldsymbol{A^{dustTT}_{100}}$	7.31	7.44 ± 1.9	z_{re}	8.02	$7.80^{+2.3}_{-1.9}$	$F_{AP}(0.57)$	0.67390	0.6744 ± 0.0024
$\boldsymbol{A^{dustTT}_{143}}$	8.88	8.81 ± 1.8	$10^9 A_s$	2.106	2.104 ± 0.084	$f\sigma_8(0.57)$	0.4670	0.467 ± 0.011
$\boldsymbol{A^{dustTT}_{143\times217}}$	18.31	16.6 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8747	1.875 ± 0.012	$\sigma_8(0.57)$	0.6023	0.602 ± 0.012
$\boldsymbol{A^{dustTT}_{217}}$	82.8	81.3 ± 7.4	D_{40}	1218.1	1225 ± 15	f^{143}_{2000}	26.09	27.7 ± 2.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0818	0.0816 ± 0.0057	D_{220}	5733.8	5738 ± 39	$f^{143\times217}_{2000}$	29.99	30.7 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0496	0.0493 ± 0.0050	D_{810}	2531.8	2530 ± 14	f^{217}_{2000}	103.35	104.5 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0984	0.099 ± 0.032	D_{1420}	815.22	813.7 ± 4.7	χ^2_{lowTEB}	10494.22	10495.7 ± 1.6
$\boldsymbol{A^{dustEE}_{143}}$	0.1009	0.1006 ± 0.0069	D_{2000}	232.16	231.3 ± 1.6	χ^2_{plik}	2429.8	2448.9 ± 6.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2236	0.223 ± 0.047	$n_{s,0.002}$	0.97123	0.9686 ± 0.0050	χ^2_{H070p6}	0.520	0.64 ± 0.33
$\boldsymbol{A^{dustEE}_{217}}$	0.654	0.65 ± 0.13	Y_P	0.245443	0.245416 ± 0.000077	χ^2_{prior}	6.46	19.2 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1407	0.140 ± 0.038	Y_P^{BBN}	0.246770	0.246743 ± 0.000077	χ^2_{CMB}	12924.0	12944.6 ± 6.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1304	0.131 ± 0.029	10^5D/H	2.5700	2.581 ± 0.032			

Best-fit $\chi^2_{eff} = 12931.01$; $\bar{\chi}^2_{eff} = 12964.42$; $R - 1 = 0.00877$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.22 plik_dx11dr2_HM_v18_TTTEEE: 2429.81 Hubble - H070p6: 0.52

3.10 base_Alens_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02240 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303 ± 0.085	Age/Gyr	13.787 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.1184 ± 0.0016	$\boldsymbol{A^{dustTE}_{143}}$	0.154 ± 0.054	z_*	1089.74 ± 0.33
$\boldsymbol{100\theta_{MC}}$	1.04093 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.334 ± 0.081	r_*	144.82 ± 0.34
$\boldsymbol{\tau}$	$0.0655^{+0.0096}_{-0.020}$	$\boldsymbol{A^{dustTE}_{217}}$	1.65 ± 0.26	$100\theta_*$	1.04111 ± 0.00032
$\boldsymbol{A_L}$	1.133 ± 0.069	$\boldsymbol{c_{100}}$	0.99819 ± 0.00077	D_A/Gpc	13.910 ± 0.031
$\boldsymbol{\ln(10^{10}A_s)}$	$3.063^{+0.021}_{-0.038}$	$\boldsymbol{c_{217}}$	0.9957 ± 0.0014	z_{drag}	1059.90 ± 0.34
$\boldsymbol{n_s}$	0.9683 ± 0.0051	H_0	67.94 ± 0.73	r_{drag}	147.47 ± 0.33
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	Ω_Λ	0.6934 ± 0.0098	k_D	0.14049 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	62.2 ± 6.5	Ω_m	0.3066 ± 0.0098	$100\theta_D$	0.16077 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	> 0.392	$\Omega_m h^2$	0.1415 ± 0.0015	z_{eq}	3365 ± 35
$\boldsymbol{A^{tSZ}_{143}}$	5.59 ± 1.8	$\Omega_m h^3$	0.09611 ± 0.00030	k_{eq}	0.01027 ± 0.00011
$\boldsymbol{A^{PS}_{100}}$	254 ± 28	σ_8	$0.814^{+0.011}_{-0.016}$	$100\theta_{eq}$	0.8201 ± 0.0069
$\boldsymbol{A^{PS}_{143}}$	41 ± 8	$\sigma_8\Omega_m^{0.5}$	0.451 ± 0.012	$100\theta_{s,eq}$	0.4529 ± 0.0035
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_m^{0.25}$	$0.606^{+0.012}_{-0.014}$	$r_{drag}/D_V(0.57)$	0.07185 ± 0.00055
$\boldsymbol{A^{PS}_{217}}$	99.1 ± 11	$\sigma_8/h^{0.5}$	$0.988^{+0.017}_{-0.021}$	$H(0.57)$	93.16 ± 0.32
$\boldsymbol{A^{kSZ}}$	< 3.35	$\langle d^2\rangle^{1/2}$	2.602 ± 0.058	$D_A(0.57)$	1383.1 ± 9.8
$\boldsymbol{A^{dustTT}_{100}}$	7.43 ± 1.8	z_{re}	$8.70^{+0.72}_{-2.1}$	$F_{AP}(0.57)$	0.6748 ± 0.0025
$\boldsymbol{A^{dustTT}_{143}}$	8.79 ± 1.8	$10^9 A_s$	$2.140^{+0.044}_{-0.082}$	$f\sigma_8(0.57)$	$0.4721^{+0.0082}_{-0.010}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	16.6 ± 4.1	$10^9 A_s e^{-2\tau}$	1.876 ± 0.012	$\sigma_8(0.57)$	$0.6070^{+0.0068}_{-0.012}$
$\boldsymbol{A^{dustTT}_{217}}$	81.3 ± 7.4	D_{40}	1228 ± 15	f^{143}_{2000}	27.8 ± 2.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0815 ± 0.0057	D_{220}	5735 ± 39	$f^{143\times217}_{2000}$	30.8 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0492 ± 0.0050	D_{810}	2531 ± 14	f^{217}_{2000}	104.6 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.099 ± 0.032	D_{1420}	813.7 ± 4.7	χ^2_{lowTEB}	10495.6 ± 1.6
$\boldsymbol{A^{dustEE}_{143}}$	0.1005 ± 0.0069	D_{2000}	231.3 ± 1.6	χ^2_{plik}	2448.8 ± 6.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.223 ± 0.047	$n_{s,0.002}$	0.9683 ± 0.0051	χ^2_{prior}	19.1 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.65 ± 0.13	Y_P	0.245406 ± 0.000078	χ^2_{CMB}	12944.4 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.141 ± 0.038	Y_P^{BBN}	0.246733 ± 0.000078		
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.131 ± 0.029	10^5D/H	2.585 ± 0.033		

$\bar{\chi}^2_{eff} = 12963.55$; $R - 1 = 0.01233$

3.11 base_Alens_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022656	0.02265 ± 0.00029 $(+0.1\sigma)$	$\boldsymbol{\beta_1^1}$	-0.06	-0.07 ± 0.99	r_*	145.16	145.18 ± 0.52 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11635	0.1163 ± 0.0025 (-0.1σ)	H_0	69.06	69.1 ± 1.2 $(+0.1\sigma)$	$100\theta_*$	1.04158	1.04159 ± 0.00051 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04140	1.04142 ± 0.00053 $(+0.1\sigma)$	Ω_Λ	0.7071	$0.707^{+0.016}_{-0.014}$ $(+0.1\sigma)$	z_{drag}	1060.31	1060.30 ± 0.57 $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.0616	0.060 ± 0.021 $(+0.0\sigma)$	Ω_m	0.2929	$0.293^{+0.014}_{-0.016}$ (-0.1σ)	r_{drag}	147.745	147.76 ± 0.49 $(+0.1\sigma)$
$\boldsymbol{A_L}$	1.226	1.23 ± 0.10 $(+0.1\sigma)$	$\Omega_m h^2$	0.13965	0.1396 ± 0.0023 (-0.1σ)	k_D	0.14041	0.14038 ± 0.00051 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0480	3.044 ± 0.041 (-0.0σ)	$\Omega_m h^3$	0.09644	0.09642 ± 0.00050 $(+0.0\sigma)$	$100\theta_D$	0.160546	0.16057 ± 0.00030 (-0.1σ)
$\boldsymbol{n_s}$	0.9770	0.9767 ± 0.0073 $(+0.4\sigma)$	σ_8	0.8030	0.801 ± 0.018 (-0.0σ)	z_{eq}	3322	3321 ± 54 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00008	0.99998 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_m^{0.5}$	0.4346	0.434 ± 0.017 (-0.1σ)	$100\theta_{eq}$	0.8291	0.829 ± 0.011 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	231.4	234 ± 23 (-0.5σ)	$\sigma_8 \Omega_m^{0.25}$	0.5908	0.590 ± 0.018 (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07264	0.07267 ± 0.00089 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	31.5	33 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9664	0.965 ± 0.026 (-0.1σ)	$H(0.57)$	93.70	93.71 ± 0.56 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	103.4	101 ± 10 $(+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.643	2.641 ± 0.074 (-0.0σ)	$D_A(0.57)$	1368.0	1368 ± 16 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	44.7	42 ± 7 (-2.8σ)	z_{re}	8.27	$7.99^{+2.3}_{-1.8}$ $(+0.0\sigma)$	$F_{AP}(0.57)$	0.67124	0.6712 ± 0.0038 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	5.57	$3.80^{+1.9}_{-2.3}$ (-1.0σ)	$10^9 A_s$	2.107	2.101 ± 0.087 (-0.0σ)	$f\sigma_8(0.57)$	0.4620	0.461 ± 0.013 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.493	0.53 ± 0.12	$10^9 A_s e^{-2\tau}$	1.8630	1.862 ± 0.015 (-0.4σ)	$\sigma_8(0.57)$	0.6020	0.601 ± 0.013 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	D_{40}	1203.4	1204 ± 18 (-0.5σ)	Y_P^{BBN}	0.246423	0.24642 ± 0.00012 (-3.2σ)
$\boldsymbol{A^{kSZ}}$	0.74	< 5.52 $(+0.7\sigma)$	D_{220}	5720.0	5719 ± 42 (-0.5σ)	f_{2000}^{143}	25.07	25 ± 3 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	1.001	0.99 ± 0.19	D_{810}	2524.3	2523 ± 14 (-0.3σ)	f_{2000}^{217}	103.43	103.7 ± 2.3 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.011	1.02 ± 0.18	D_{1420}	814.9	814.3 ± 5.1 (-0.0σ)	$f_{2000}^{143\times217}$	28.47	28.6 ± 2.5 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.225	1.23 ± 0.12	$n_{s,0.002}$	0.9770	0.9767 ± 0.0073 $(+0.4\sigma)$	χ^2_{lowTEB}	10493.16	10494.3 ± 1.6 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.992	0.96 ± 0.18	Y_P	0.245100	0.24509 ± 0.00012 (-3.2σ)	$\chi^2_{CamSpec}$	8042.9	8057.7 ± 5.6
$\boldsymbol{c_{100}}$	0.99693	0.99685 ± 0.00097 (-1.4σ)	Age/Gyr	13.7381	13.738 ± 0.050 (-0.1σ)	χ^2_{prior}	2.94	8.47 ± 3.5 $(+0.4\sigma)$
$\boldsymbol{c_{217}}$	0.99646	0.9967 ± 0.0018 $(+0.8\sigma)$	z_*	1089.23	1089.24 ± 0.53 (-0.1σ)	χ^2_{CMB}	18536.1	18552.1 ± 5.7 $(+1275.8\sigma)$

Best-fit $\chi^2_{eff} = 18539.04$; $\Delta\chi^2_{eff} = 7283.54$; $\bar{\chi}^2_{eff} = 18560.53$; $\Delta\bar{\chi}^2_{eff} = 7283.35$; $R - 1 = 0.00761$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.16 (Δ -0.24) CamSpec like_v9.10CMH_unified: 8042.94

3.12 base_Alens_CamSpecHM_TT_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02249^{+0.00022}_{-0.00024}$ $(+0.0\sigma)$	Ω_Λ	0.6963 ± 0.0080 $(+0.1\sigma)$	k_D	0.14058 ± 0.00044 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1181 ± 0.0013 (-0.1σ)	Ω_m	0.3037 ± 0.0080 (-0.1σ)	$100\theta_D$	0.16068 ± 0.00027 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04117 ± 0.00043 $(+0.0\sigma)$	$\Omega_m h^2$	0.1412 ± 0.0012 (-0.1σ)	z_{eq}	3360 ± 30 (-0.1σ)
$\boldsymbol{\tau}$	0.057 ± 0.020 (-0.0σ)	$\Omega_m h^3$	0.09633 ± 0.00048 (-0.0σ)	$100\theta_{eq}$	0.8215 ± 0.0057 $(+0.1\sigma)$
$\boldsymbol{A_L}$	1.191 ± 0.088 $(+0.0\sigma)$	σ_8	0.806 ± 0.017 (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07202 ± 0.00046 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.043 ± 0.040 (-0.1σ)	$\sigma_8\Omega_m^{0.5}$	0.444 ± 0.012 (-0.1σ)	$H(0.57)$	93.32 ± 0.31 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9720 ± 0.0048 $(+0.5\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.599 ± 0.014 (-0.1σ)	$D_A(0.57)$	1379.2 ± 8.5 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	0.977 ± 0.022 (-0.0σ)	$F_{AP}(0.57)$	0.6740 ± 0.0020 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	237 ± 23 (-0.4σ)	$\langle d^2 \rangle^{1/2}$	2.627 ± 0.072 (-0.1σ)	$f\sigma_8(0.57)$	0.467 ± 0.010 (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	35 ± 8 (-0.6σ)	z_{re}	$7.82^{+2.3}_{-1.8}$ (-0.0σ)	$\sigma_8(0.57)$	0.602 ± 0.012 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	101 ± 10 $(+0.2\sigma)$	$10^9 A_s$	2.099 ± 0.085 (-0.1σ)	Y_P^{BBN}	0.246353 ± 0.000095 (-4.2σ)
$\boldsymbol{A_{217}^{CIB}}$	43 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.870 ± 0.012 (-0.4σ)	f_{2000}^{143}	26 ± 3 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.69^{+1.9}_{-2.3}$ (-1.0σ)	D_{40}	1214 ± 14 (-0.6σ)	f_{2000}^{217}	$104.5^{+2.3}_{-2.1}$ $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	D_{220}	5711 ± 41 (-0.5σ)	$f_{2000}^{143\times217}$	$29.5^{+2.5}_{-2.2}$ (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{810}	2525 ± 14 (-0.2σ)	χ^2_{lowTEB}	10494.9 ± 1.5 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	< 5.75 $(+0.7\sigma)$	D_{1420}	813.7 ± 5.0 (-0.0σ)	$\chi^2_{CamSpec}$	8056.9 ± 5.4
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	$n_{s,0.002}$	0.9720 ± 0.0048 $(+0.5\sigma)$	χ^2_{6DF}	0.046 ± 0.065 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.19	Y_P	$0.245025^{+0.000094}_{-0.00011}$ (-4.3σ)	χ^2_{MGS}	1.84 ± 0.65 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	Age/Gyr	13.770 ± 0.032 (-0.0σ)	$\chi^2_{DR11CMASS}$	3.03 ± 0.86 $(+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	z_*	1089.59 ± 0.34 (-0.1σ)	$\chi^2_{DR11LOWZ}$	0.38 ± 0.43 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99681 ± 0.00096 (-1.4σ)	r_*	144.83 ± 0.32 $(+0.1\sigma)$	χ^2_{prior}	8.48 ± 3.5 $(+0.4\sigma)$
$\boldsymbol{c_{217}}$	0.9968 ± 0.0018 $(+0.8\sigma)$	$100\theta_*$	1.04135 ± 0.00043 $(+0.1\sigma)$	χ^2_{CMB}	18551.8 ± 5.6 $(+1311.2\sigma)$
$\boldsymbol{\beta_1^1}$	-0.05 ± 0.98	z_{drag}	1060.06 ± 0.48 (-0.0σ)	χ^2_{BAO}	5.30 ± 1.3 $(+0.1\sigma)$
H_0	68.21 ± 0.62 $(+0.1\sigma)$	r_{drag}	147.46 ± 0.34 $(+0.1\sigma)$		

$\bar{\chi}^2_{eff} = 18565.55$; $\Delta\bar{\chi}^2_{eff} = 7283.39$; $R - 1 = 0.01235$

3.13 base_Alens_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02265 \pm 0.00028 \quad (+0.1\sigma)$	H_0	$69.1 \pm 1.1 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1060.29 \pm 0.55 \quad (+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1163 \pm 0.0023 \quad (-0.1\sigma)$	Ω_Λ	$0.707 \pm 0.014 \quad (+0.1\sigma)$	$r_{\rm drag}$	$147.76 \pm 0.47 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04142 \pm 0.00051 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.293 \pm 0.014 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14038 \pm 0.00050 \quad (-0.0\sigma)$
$\boldsymbol{\tau}$	$0.060 \pm 0.021 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1396 \pm 0.0021 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16057 \pm 0.00030 \quad (-0.1\sigma)$
$\boldsymbol{A_L}$	$1.23 \pm 0.10 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.09642 \pm 0.00050 \quad (+0.0\sigma)$	$z_{\rm eq}$	$3322 \pm 50 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.044 \pm 0.041 \quad (-0.0\sigma)$	σ_8	$0.801 \pm 0.018 \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.829 \pm 0.010 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9767 \pm 0.0068 \quad (+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.434 \pm 0.016 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07266 \pm 0.00082 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$0.99997 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.590 \pm 0.017 \quad (-0.1\sigma)$	$H(0.57)$	$93.70^{+0.50}_{-0.55} \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$234 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$0.965 \pm 0.025 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1368 \pm 15 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$33 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.641 \pm 0.074 \quad (-0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6713 \pm 0.0035 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$101 \pm 10 \quad (+0.3\sigma)$	$z_{\rm re}$	$7.98^{+2.3}_{-1.8} \quad (+0.0\sigma)$	$f\sigma_8(0.57)$	$0.461 \pm 0.012 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$42 \pm 7 \quad (-2.8\sigma)$	$10^9 A_{\rm s}$	$2.101 \pm 0.087 \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.601 \pm 0.013 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.82^{+1.9}_{-2.3} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.862 \pm 0.014 \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24642 \pm 0.00012 \quad (-3.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	D_{40}	$1204 \pm 17 \quad (-0.5\sigma)$	f_{2000}^{143}	$25 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	$5719 \pm 42 \quad (-0.5\sigma)$	f_{2000}^{217}	$103.7 \pm 2.3 \quad (+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$< 5.49 \quad (+0.7\sigma)$	D_{810}	$2523 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$28.6 \pm 2.5 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.3 \pm 5.1 \quad (-0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10494.3 \pm 1.6 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.9767 \pm 0.0068 \quad (+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	8057.6 ± 5.6
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	$Y_{\rm P}$	$0.24509 \pm 0.00012 \quad (-3.4\sigma)$	$\chi^2_{\rm JLA}$	$706.65 \pm 0.23 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.96 ± 0.18	Age/Gyr	$13.738 \pm 0.046 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.47 \pm 3.5 \quad (+0.4\sigma)$
$\boldsymbol{c_{100}}$	$0.99686 \pm 0.00097 \quad (-1.3\sigma)$	z_*	$1089.25 \pm 0.49 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18551.9 \pm 5.7 \quad (+1298.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9967 \pm 0.0018 \quad (+0.8\sigma)$	r_*	$145.17 \pm 0.48 \quad (+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$100\theta_*$	$1.04159 \pm 0.00050 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 19267.03$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.35$; $R - 1 = 0.00888$

3.14 base_Alens_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02268 ± 0.00028 $(+0.1\sigma)$	H_0	69.2 ± 1.1 $(+0.1\sigma)$	$z_{\rm drag}$	1060.35 ± 0.55 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1160 ± 0.0023 (-0.1σ)	Ω_Λ	$0.709^{+0.015}_{-0.013}$ $(+0.1\sigma)$	$r_{\rm drag}$	147.82 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04147 ± 0.00051 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.291 ± 0.014 (-0.1σ)	$k_{\rm D}$	0.14034 ± 0.00050 (-0.0σ)
$\boldsymbol{\tau}$	0.060 ± 0.021 $(+0.0\sigma)$	$\Omega_{\rm m} h^2$	0.1393 ± 0.0021 (-0.1σ)	$100\theta_{\rm D}$	0.16054 ± 0.00030 (-0.1σ)
$\boldsymbol{A_L}$	1.24 ± 0.10 $(+0.1\sigma)$	$\Omega_{\rm m} h^3$	0.09644 ± 0.00050 $(+0.0\sigma)$	$z_{\rm eq}$	3314 ± 51 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.044 ± 0.042 (-0.0σ)	σ_8	0.800 ± 0.018 (-0.0σ)	$100\theta_{\rm eq}$	0.831 ± 0.010 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9776 ± 0.0069 $(+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.432 ± 0.016 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07280 ± 0.00085 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	0.99996 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.588 ± 0.017 (-0.1σ)	$H(0.57)$	$93.79^{+0.51}_{-0.57}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	234 ± 23 (-0.5σ)	$\sigma_8/h^{0.5}$	0.962 ± 0.026 (-0.1σ)	$D_{\rm A}(0.57)$	1366 ± 15 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	33 ± 8 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.644 ± 0.073 (-0.0σ)	$F_{\rm AP}(0.57)$	0.6707 ± 0.0036 (-0.1σ)
$\boldsymbol{A_{217}^{PS}}$	102 ± 10 $(+0.3\sigma)$	$z_{\rm re}$	$8.01^{+2.3}_{-1.8}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.460 ± 0.012 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	42 ± 7 (-2.8σ)	$10^9 A_{\rm s}$	2.101 ± 0.088 (-0.0σ)	$\sigma_8(0.57)$	0.601 ± 0.013 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.85^{+1.9}_{-2.3}$ (-1.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.861 ± 0.014 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	0.24643 ± 0.00012 (-3.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.13	D_{40}	1203 ± 17 (-0.5σ)	f_{2000}^{143}	25 ± 3 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	5721 ± 42 (-0.5σ)	f_{2000}^{217}	103.6 ± 2.3 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	< 5.42 $(+0.7\sigma)$	D_{810}	2523 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	28.4 ± 2.5 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	814.4 ± 5.1 (-0.0σ)	$\chi^2_{\rm lowTEB}$	10494.2 ± 1.6 (-0.3σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	0.9776 ± 0.0069 $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	8057.8 ± 5.6
$\boldsymbol{A_{217}^{dust}}$	1.24 ± 0.12	$Y_{\rm P}$	$0.24511^{+0.00013}_{-0.00012}$ (-3.4σ)	$\chi^2_{\rm H070p6}$	0.28 ± 0.32 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.96 ± 0.18	Age/Gyr	13.731 ± 0.047 (-0.1σ)	$\chi^2_{\rm prior}$	8.47 ± 3.5 $(+0.4\sigma)$
$\boldsymbol{c_{100}}$	0.99686 ± 0.00097 (-1.3σ)	z_*	1089.17 ± 0.50 (-0.1σ)	$\chi^2_{\rm CMB}$	18552.0 ± 5.7 $(+1293.1\sigma)$
$\boldsymbol{c_{217}}$	0.9967 ± 0.0018 $(+0.8\sigma)$	r_*	145.24 ± 0.49 $(+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$100\theta_*$	1.04164 ± 0.00050 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18560.75$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.36$; $R - 1 = 0.00876$

3.15 base_Alens_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02266 ± 0.00029 $(+0.1\sigma)$	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	r_*	145.20 ± 0.51 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1162 ± 0.0025 (-0.1σ)	H_0	69.1 ± 1.2 $(+0.1\sigma)$	$100\theta_*$	1.04161 ± 0.00052 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04144 ± 0.00053 $(+0.1\sigma)$	Ω_Λ	$0.708^{+0.016}_{-0.014}$ $(+0.1\sigma)$	$z_{\rm drag}$	1060.31 ± 0.57 $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.068^{+0.010}_{-0.021}$ $(+0.0\sigma)$	$\Omega_{\rm m}$	$0.292^{+0.014}_{-0.016}$ (-0.1σ)	$r_{\rm drag}$	147.79 ± 0.49 $(+0.1\sigma)$
$\boldsymbol{A_L}$	1.216 ± 0.097 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.1395 ± 0.0023 (-0.1σ)	$k_{\rm D}$	0.14036 ± 0.00051 (-0.0σ)
$\boldsymbol{\ln(10^{10}A_s)}$	$3.060^{+0.023}_{-0.040}$ (-0.1σ)	$\Omega_{\rm m}h^3$	0.09642 ± 0.00051 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.16056 ± 0.00030 (-0.1σ)
$\boldsymbol{n_s}$	0.9771 ± 0.0072 $(+0.4\sigma)$	σ_8	$0.807^{+0.014}_{-0.017}$ (-0.1σ)	$z_{\rm eq}$	3319 ± 54 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.437^{+0.016}_{-0.018}$ (-0.1σ)	$100\theta_{\rm eq}$	0.830 ± 0.011 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	234 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.594^{+0.015}_{-0.017}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07271 ± 0.00089 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	33 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	$0.971^{+0.022}_{-0.025}$ (-0.1σ)	$H(0.57)$	$93.73^{+0.54}_{-0.60}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	101 ± 10 $(+0.3\sigma)$	$\langle d^2\rangle^{1/2}$	2.642 ± 0.074 (-0.0σ)	$D_{\rm A}(0.57)$	1367 ± 16 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	42 ± 7 (-2.8σ)	$z_{\rm re}$	$8.83^{+0.83}_{-2.1}$ $(+0.0\sigma)$	$F_{\rm AP}(0.57)$	0.6711 ± 0.0038 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.83^{+1.9}_{-2.4}$ (-1.0σ)	$10^9A_{\rm s}$	$2.134^{+0.048}_{-0.086}$ (-0.1σ)	$f\sigma_8(0.57)$	0.464 ± 0.011 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9A_{\rm s}e^{-2\tau}$	1.862 ± 0.015 (-0.4σ)	$\sigma_8(0.57)$	$0.6055^{+0.0080}_{-0.012}$ (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1206 ± 18 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.24642 ± 0.00012 (-3.2σ)
$\boldsymbol{A^{kSZ}}$	< 5.48 $(+0.7\sigma)$	D_{220}	5719 ± 42 (-0.5σ)	f_{2000}^{143}	25 ± 3 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	2523 ± 14 (-0.3σ)	f_{2000}^{217}	103.7 ± 2.3 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	814.4 ± 5.1 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	28.5 ± 2.5 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	$n_{\rm s,0.002}$	0.9771 ± 0.0072 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10494.0 ± 1.6 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.96 ± 0.18	$Y_{\rm P}$	0.24510 ± 0.00012 (-3.2σ)	$\chi^2_{\rm CamSpec}$	8057.7 ± 5.7
$\boldsymbol{c_{100}}$	0.99685 ± 0.00097 (-1.3σ)	Age/Gyr	13.736 ± 0.050 (-0.1σ)	$\chi^2_{\rm prior}$	8.47 ± 3.5 $(+0.4\sigma)$
$\boldsymbol{c_{217}}$	0.9967 ± 0.0018 $(+0.8\sigma)$	z_*	1089.22 ± 0.53 (-0.2σ)	$\chi^2_{\rm CMB}$	18551.7 ± 5.7 $(+1284.7\sigma)$

$\bar{\chi}^2_{\rm eff} = 18560.21$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.26$; $R-1 = 0.01476$

3.16 base_Alens_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022504	0.02252 ± 0.00018 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.00029	1.0001 ± 0.0042	r_*	144.868	144.87 ± 0.33 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11793	0.1179 ± 0.0015 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.04	-0.1 ± 1.0	$100\theta_*$	1.041143	1.04115 ± 0.00031 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040959	1.04097 ± 0.00032 $(+0.1\sigma)$	H_0	68.21	68.25 ± 0.72 $(+0.4\sigma)$	$z_{\rm drag}$	1060.085	1060.11 ± 0.36 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.0597	0.058 ± 0.020 $(+0.1\sigma)$	Ω_Λ	0.6968	$0.6970^{+0.0099}_{-0.0090}$ $(+0.4\sigma)$	$r_{\rm drag}$	147.493	147.49 ± 0.32 $(+0.1\sigma)$
$\boldsymbol{A_L}$	1.135	1.140 ± 0.080 (-0.2σ)	$\Omega_{\rm m}$	0.3032	0.3030 ± 0.0093 (-0.4σ)	$k_{\rm D}$	0.140560	0.14057 ± 0.00034 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0474	3.044 ± 0.041 (-0.0σ)	$\Omega_{\rm m}h^2$	0.14108	0.1410 ± 0.0014 (-0.3σ)	$100\theta_{\rm D}$	0.160630	0.16062 ± 0.00020 (-0.8σ)
$\boldsymbol{n_s}$	0.9713	0.9714 ± 0.0051 $(+0.7\sigma)$	$\Omega_{\rm m}h^3$	0.096229	0.09625 ± 0.00031 $(+0.4\sigma)$	$z_{\rm eq}$	3355.9	3355 ± 34 (-0.3σ)
$\boldsymbol{y_{cal}}$	0.999997	0.99997 ± 0.0025 (-0.1σ)	σ_8	0.8069	0.806 ± 0.017 (-0.1σ)	$100\theta_{\rm eq}$	0.8221	0.8223 ± 0.0067 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	238.4	238 ± 23 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4443	0.443 ± 0.013 (-0.3σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07202	0.07204 ± 0.00054 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	33.3	36 ± 8 (-0.7σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.5988	0.598 ± 0.014 (-0.2σ)	$H(0.57)$	93.293	93.32 ± 0.32 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	100.9	101 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9770	0.975 ± 0.022 (-0.2σ)	$D_{\rm A}(0.57)$	1379.4	1378.9 ± 9.5 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	46.1	44 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.572	2.571 ± 0.061 (-0.5σ)	$F_{\rm AP}(0.57)$	0.67392	0.6738 ± 0.0024 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	4.85	$3.69^{+1.8}_{-2.4}$ (-1.0σ)	$z_{\rm re}$	8.16	$7.89^{+2.3}_{-1.8}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4670	0.466 ± 0.011 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.465	0.53 ± 0.12	$10^9A_{\rm s}$	2.106	2.101 ± 0.086 (-0.0σ)	$\sigma_8(0.57)$	0.6023	0.601 ± 0.012 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$10^9A_{\rm s}e^{-2\tau}$	1.8689	1.868 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246362	0.246365 ± 0.000076 (-4.7σ)
$\boldsymbol{A^{kSZ}}$	2.08	$4.49^{+1.6}_{-4.4}$ $(+0.8\sigma)$	D_{40}	1214.8	1215 ± 15 (-0.7σ)	f_{2000}^{143}	26.75	26.6 ± 2.8 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.979	0.99 ± 0.19	D_{220}	5717.7	5718 ± 39 (-0.5σ)	f_{2000}^{217}	104.76	104.7 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.002	1.02 ± 0.18	D_{810}	2526.2	2526 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	29.82	29.8 ± 2.1 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.214	1.23 ± 0.12	D_{1420}	814.07	814.0 ± 4.8 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10494.01	10495.0 ± 1.5 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.966	0.97 ± 0.18	$n_{\rm s,0.002}$	0.9713	0.9714 ± 0.0051 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12935.0	12951.6 ± 5.9
$\boldsymbol{c_{100}}$	0.99684	0.99684 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.245032	0.245037 ± 0.000079 (-4.7σ)	$\chi^2_{\rm prior}$	3.06	8.74 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99681	0.9968 ± 0.0018 $(+0.8\sigma)$	Age/Gyr	13.7739	13.772 ± 0.029 (-0.5σ)	$\chi^2_{\rm CMB}$	23429.1	23446.7 ± 6.0 $(+1558.5\sigma)$
$\boldsymbol{c_{TE}}$	1.00158	1.0017 ± 0.0046	z_*	1089.554	1089.54 ± 0.33 (-0.7σ)			

Best-fit $\chi^2_{\rm eff} = 23432.12$; $\Delta\chi^2_{\rm eff} = 10501.56$; $\bar{\chi}^2_{\rm eff} = 23455.40$; $\Delta\bar{\chi}^2_{\rm eff} = 10491.60$; $R - 1 = 0.01013$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.01 (Δ -0.57) CamSpec like_v9.10CMH_unified: 12935.05

3.17 base_Alens_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02249 \pm 0.00016 \quad (+0.6\sigma)$	H_0	$68.07 \pm 0.50 \quad (+0.4\sigma)$	k_D	$0.14061 \pm 0.00031 \quad (+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1182 \pm 0.0011 \quad (-0.3\sigma)$	Ω_Λ	$0.6948 \pm 0.0066 \quad (+0.3\sigma)$	$100\theta_D$	$0.16064 \pm 0.00019 \quad (-0.7\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04093 \pm 0.00029 \quad (+0.0\sigma)$	Ω_m	$0.3052 \pm 0.0066 \quad (-0.3\sigma)$	z_{eq}	$3363 \pm 24 \quad (-0.2\sigma)$
$\boldsymbol{\tau}$	$0.058 \pm 0.020 \quad (+0.1\sigma)$	$\Omega_m h^2$	$0.1414 \pm 0.0010 \quad (-0.2\sigma)$	$100\theta_{eq}$	$0.8207 \pm 0.0047 \quad (+0.2\sigma)$
$\boldsymbol{A_L}$	$1.131 \pm 0.076 \quad (-0.3\sigma)$	$\Omega_m h^3$	$0.09623 \pm 0.00031 \quad (+0.4\sigma)$	$r_{drag}/D_V(0.57)$	$0.07191 \pm 0.00037 \quad (+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.044 \pm 0.041 \quad (-0.0\sigma)$	σ_8	$0.807 \pm 0.017 \quad (-0.1\sigma)$	$H(0.57)$	$93.24 \pm 0.23 \quad (+0.4\sigma)$
$\boldsymbol{n_s}$	$0.9705 \pm 0.0042 \quad (+0.7\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.446 \pm 0.011 \quad (-0.2\sigma)$	$D_A(0.57)$	$1381.2 \pm 6.8 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$0.99996 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.600 \pm 0.013 \quad (-0.1\sigma)$	$F_{AP}(0.57)$	$0.6744 \pm 0.0017 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$239 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.978 \pm 0.021 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.467 \pm 0.010 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$36 \pm 8 \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.568 \pm 0.060 \quad (-0.6\sigma)$	$\sigma_8(0.57)$	$0.602 \pm 0.012 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$101 \pm 10 \quad (+0.2\sigma)$	z_{re}	$7.85^{+2.3}_{-1.9} \quad (+0.0\sigma)$	Y_P^{BBN}	$0.246352 \pm 0.000066 \quad (-5.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.9\sigma)$	$10^9 A_s$	$2.101 \pm 0.085 \quad (-0.0\sigma)$	f_{2000}^{143}	$26.8 \pm 2.7 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.69^{+1.8}_{-2.4} \quad (-1.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	f_{2000}^{217}	$104.9 \pm 1.9 \quad (+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	D_{40}	$1217 \pm 13 \quad (-0.7\sigma)$	$f_{2000}^{143\times217}$	$30.0 \pm 2.0 \quad (-0.5\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	$5716 \pm 38 \quad (-0.5\sigma)$	χ^2_{lowTEB}	$10495.2 \pm 1.5 \quad (-0.5\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.54^{+1.7}_{-4.3} \quad (+0.8\sigma)$	D_{810}	$2526 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{CamSpec}$	12951.0 ± 5.7
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$813.9 \pm 4.7 \quad (+0.1\sigma)$	χ^2_{6DF}	$0.032 \pm 0.045 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{s,0.002}$	$0.9705 \pm 0.0042 \quad (+0.7\sigma)$	χ^2_{MGS}	$1.68 \pm 0.52 \quad (+0.3\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.11	Y_P	$0.245024 \pm 0.000069 \quad (-5.7\sigma)$	$\chi^2_{DR11CMASS}$	$2.79 \pm 0.53 \quad (+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.778 \pm 0.023 \quad (-0.5\sigma)$	$\chi^2_{DR11LOWZ}$	$0.42 \pm 0.39 \quad (-0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99684 \pm 0.00097 \quad (-1.8\sigma)$	z_*	$1089.61 \pm 0.25 \quad (-0.6\sigma)$	χ^2_{prior}	$8.77 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{217}}$	$0.9968 \pm 0.0018 \quad (+0.8\sigma)$	r_*	$144.80 \pm 0.25 \quad (+0.0\sigma)$	χ^2_{CMB}	$23446.2 \pm 5.8 \quad (+1568.5\sigma)$
$\boldsymbol{c_{TE}}$	1.0019 ± 0.0046	$100\theta_*$	$1.04111 \pm 0.00028 \quad (+0.0\sigma)$	χ^2_{BAO}	$4.93 \pm 0.80 \quad (+0.1\sigma)$
$\boldsymbol{c_{EE}}$	1.0001 ± 0.0043	z_{drag}	$1060.06 \pm 0.33 \quad (+0.6\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	r_{drag}	$147.43 \pm 0.26 \quad (-0.1\sigma)$		

$\bar{\chi}^2_{eff} = 23459.87$; $\Delta\bar{\chi}^2_{eff} = 10491.64$; $R - 1 = 0.00987$

3.18 base_Alens_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02253 ± 0.00018 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.0001 ± 0.0043	r_*	144.89 ± 0.32 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1178 ± 0.0015 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	$100\theta_*$	1.04116 ± 0.00031 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04098 ± 0.00031 $(+0.1\sigma)$	H_0	68.29 ± 0.69 $(+0.4\sigma)$	$z_{\rm drag}$	1060.12 ± 0.35 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.058 ± 0.020 $(+0.1\sigma)$	Ω_Λ	0.6977 ± 0.0089 $(+0.4\sigma)$	$r_{\rm drag}$	147.51 ± 0.31 $(+0.1\sigma)$
$\boldsymbol{A_L}$	1.142 ± 0.079 (-0.2σ)	$\Omega_{\rm m}$	0.3023 ± 0.0089 (-0.4σ)	$k_{\rm D}$	0.14056 ± 0.00033 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.044 ± 0.041 (-0.0σ)	$\Omega_{\rm m} h^2$	0.1409 ± 0.0014 (-0.3σ)	$100\theta_{\rm D}$	0.16061 ± 0.00020 (-0.8σ)
$\boldsymbol{n_s}$	0.9717 ± 0.0049 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.09625 ± 0.00031 $(+0.4\sigma)$	$z_{\rm eq}$	3353 ± 33 (-0.3σ)
$\boldsymbol{y_{cal}}$	0.99996 ± 0.0025 (-0.1σ)	σ_8	0.805 ± 0.017 (-0.1σ)	$100\theta_{\rm eq}$	0.8228 ± 0.0064 $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	238 ± 23 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.443 ± 0.013 (-0.3σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07208 ± 0.00052 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	36 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.597 ± 0.014 (-0.2σ)	$H(0.57)$	93.34 ± 0.31 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	101 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.974 ± 0.022 (-0.2σ)	$D_{\rm A}(0.57)$	1378.3 ± 9.2 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	44 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.572 ± 0.060 (-0.5σ)	$F_{\rm AP}(0.57)$	0.6737 ± 0.0023 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.71^{+1.8}_{-2.4}$ (-1.0σ)	$z_{\rm re}$	$7.89^{+2.3}_{-1.9}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.466 ± 0.011 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9 A_{\rm s}$	2.101 ± 0.086 (-0.0σ)	$\sigma_8(0.57)$	0.601 ± 0.012 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	1.868 ± 0.012 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246368 ± 0.000075 (-4.8σ)
$\boldsymbol{A^{kSZ}}$	< 5.89 $(+0.8\sigma)$	D_{40}	1215 ± 14 (-0.7σ)	f_{2000}^{143}	26.6 ± 2.8 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5718 ± 39 (-0.5σ)	f_{2000}^{217}	104.7 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2526 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	29.7 ± 2.1 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	D_{1420}	814.0 ± 4.8 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10495.0 ± 1.5 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$n_{\rm s,0.002}$	0.9717 ± 0.0049 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12951.6 ± 5.9
$\boldsymbol{c_{100}}$	0.99684 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.245041 ± 0.000078 (-4.8σ)	$\chi^2_{\rm JLA}$	706.62 ± 0.16 (-0.3σ)
$\boldsymbol{c_{217}}$	0.9968 ± 0.0018 $(+0.8\sigma)$	Age/Gyr	13.770 ± 0.028 (-0.5σ)	$\chi^2_{\rm prior}$	8.77 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0017 ± 0.0046	z_*	1089.52 ± 0.32 (-0.6σ)	$\chi^2_{\rm CMB}$	23446.6 ± 5.9 $(+1558.5\sigma)$

$\bar{\chi}^2_{\rm eff} = 24161.96$; $\Delta\bar{\chi}^2_{\rm eff} = 10491.52$; $R - 1 = 0.01052$

3.19 base_Alens_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02254 ± 0.00018 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.0001 ± 0.0043	r_*	144.91 ± 0.32 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1177 ± 0.0015 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	$100\theta_*$	1.04118 ± 0.00031 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04100 ± 0.00031 $(+0.1\sigma)$	H_0	68.35 ± 0.70 $(+0.4\sigma)$	$z_{\rm drag}$	1060.14 ± 0.35 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.059 ± 0.020 $(+0.1\sigma)$	Ω_Λ	0.6983 ± 0.0091 $(+0.4\sigma)$	$r_{\rm drag}$	147.53 ± 0.32 $(+0.1\sigma)$
$\boldsymbol{A_L}$	1.145 ± 0.080 (-0.2σ)	$\Omega_{\rm m}$	0.3017 ± 0.0091 (-0.4σ)	$k_{\rm D}$	0.14055 ± 0.00034 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.044 ± 0.041 (-0.0σ)	$\Omega_{\rm m} h^2$	0.1408 ± 0.0014 (-0.3σ)	$100\theta_{\rm D}$	0.16060 ± 0.00020 (-0.8σ)
$\boldsymbol{n_s}$	0.9720 ± 0.0050 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.09626 ± 0.00031 $(+0.4\sigma)$	$z_{\rm eq}$	3350 ± 33 (-0.3σ)
$\boldsymbol{y_{cal}}$	0.99997 ± 0.0025 (-0.1σ)	σ_8	0.805 ± 0.017 (-0.1σ)	$100\theta_{\rm eq}$	0.8233 ± 0.0065 $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	238 ± 23 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.442 ± 0.013 (-0.3σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07212 ± 0.00052 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	36 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.597 ± 0.014 (-0.2σ)	$H(0.57)$	93.36 ± 0.32 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	101 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.974 ± 0.022 (-0.2σ)	$D_{\rm A}(0.57)$	1377.5 ± 9.3 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	44 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.573 ± 0.060 (-0.5σ)	$F_{\rm AP}(0.57)$	0.6735 ± 0.0023 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.72^{+1.8}_{-2.4}$ (-1.0σ)	$z_{\rm re}$	$7.91^{+2.3}_{-1.9}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.465 ± 0.011 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9 A_{\rm s}$	2.101 ± 0.086 (-0.0σ)	$\sigma_8(0.57)$	0.601 ± 0.012 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	1.868 ± 0.012 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246373 ± 0.000075 (-4.8σ)
$\boldsymbol{A^{kSZ}}$	< 5.87 $(+0.8\sigma)$	D_{40}	1214 ± 14 (-0.7σ)	f_{2000}^{143}	26.5 ± 2.8 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5719 ± 39 (-0.5σ)	f_{2000}^{217}	104.6 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2525 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	29.7 ± 2.1 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	D_{1420}	814.1 ± 4.8 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10494.9 ± 1.5 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$n_{\rm s,0.002}$	0.9720 ± 0.0050 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12951.7 ± 5.9
$\boldsymbol{c_{100}}$	0.99684 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.245046 ± 0.000078 (-4.8σ)	$\chi^2_{\rm H070p6}$	0.51 ± 0.29 (-0.4σ)
$\boldsymbol{c_{217}}$	0.9968 ± 0.0018 $(+0.8\sigma)$	Age/Gyr	13.768 ± 0.028 (-0.5σ)	$\chi^2_{\rm prior}$	8.77 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0016 ± 0.0046	z_*	1089.49 ± 0.32 (-0.6σ)	$\chi^2_{\rm CMB}$	23446.6 ± 6.0 $(+1559.3\sigma)$

$\bar{\chi}^2_{\rm eff} = 23455.91$; $\Delta\bar{\chi}^2_{\rm eff} = 10491.49$; $R - 1 = 0.01072$

3.20 base_Alens_CamSpecHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02240 ± 0.00014	Ω_Λ	0.6942 ± 0.0063	$z_{\rm eq}$	3362 ± 24
$\boldsymbol{\Omega_c h^2}$	0.1183 ± 0.0010	$\Omega_{\rm m}$	0.3058 ± 0.0063	$100\theta_{\rm eq}$	0.8207 ± 0.0045
$\boldsymbol{100\theta_{MC}}$	1.04095 ± 0.00029	$\Omega_{\rm m}h^2$	0.14133 ± 0.00099	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07189 ± 0.00036
$\boldsymbol{\tau}$	0.058 ± 0.020	$\Omega_{\rm m}h^3$	$0.09609^{+0.00032}_{-0.00027}$	$H(0.57)$	93.17 ± 0.22
$\boldsymbol{A_L}$	$1.032^{+0.044}_{-0.061}$	σ_8	0.806 ± 0.016	$D_{\rm A}(0.57)$	1382.5 ± 6.3
$\boldsymbol{\ln(10^{10}A_s)}$	3.043 ± 0.039	$\sigma_8\Omega_{\rm m}^{0.5}$	0.446 ± 0.011	$F_{\rm AP}(0.57)$	0.6746 ± 0.0016
$\boldsymbol{n_s}$	0.9698 ± 0.0039	$\sigma_8\Omega_{\rm m}^{0.25}$	0.600 ± 0.013	$f\sigma_8(0.57)$	0.4674 ± 0.0097
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0026	$\sigma_8/h^{0.5}$	0.978 ± 0.020	$\sigma_8(0.57)$	0.601 ± 0.012
$\boldsymbol{A_{100}^{PS}}$	244 ± 22	$\langle d^2\rangle^{1/2}$	2.453 ± 0.028	$Y_{\rm P}^{\rm BBN}$	0.246314 ± 0.000062
$\boldsymbol{A_{143}^{PS}}$	38 ± 7	$z_{\rm re}$	$7.85^{+2.3}_{-1.8}$	f_{2000}^{143}	28.5 ± 2.5
$\boldsymbol{A_{217}^{PS}}$	98 ± 10	$10^9A_{\rm s}$	2.098 ± 0.082	f_{2000}^{217}	106.0 ± 1.8
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7	$10^9A_{\rm s}e^{-2\tau}$	1.869 ± 0.011	$f_{2000}^{143\times217}$	31.4 ± 1.8
$\boldsymbol{A_{143}^{tSZ}}$	$3.47^{+1.7}_{-2.3}$	D_{40}	1217^{+12}_{-14}	$\chi^2_{\rm lensing}$	10.4 ± 2.0
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	D_{220}	5709^{+36}_{-42}	$\chi^2_{\rm lowTEB}$	10495.1 ± 1.4
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.599	D_{810}	2528 ± 14	$\chi^2_{\rm CamSpec}$	12953.5 ± 5.8
$\boldsymbol{A^{kSZ}}$	5.22 ± 2.6	D_{1420}	814.8 ± 4.8	$\chi^2_{\rm H070p6}$	0.64 ± 0.22
$\boldsymbol{A_{100}^{dust}}$	0.997 ± 0.18	$n_{\rm s,0.002}$	0.9698 ± 0.0039	$\chi^2_{\rm JLA}$	706.64 ± 0.13
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.19	$Y_{\rm P}$	0.244985 ± 0.000063	$\chi^2_{\rm 6DF}$	0.029 ± 0.041
$\boldsymbol{A_{217}^{dust}}$	$1.21^{+0.13}_{-0.12}$	Age/Gyr	13.786 ± 0.021	$\chi^2_{\rm MGS}$	1.65 ± 0.49
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	1089.72 ± 0.24	$\chi^2_{\rm DR11CMASS}$	2.74 ± 0.47
$\boldsymbol{c_{100}}$	0.99681 ± 0.00096	r_*	$144.86^{+0.26}_{-0.23}$	$\chi^2_{\rm DR11LOWZ}$	0.43 ± 0.38
$\boldsymbol{c_{217}}$	$0.9970^{+0.0016}_{-0.0018}$	$100\theta_*$	1.04114 ± 0.00029	$\chi^2_{\rm prior}$	9.14 ± 3.7
$\boldsymbol{c_{TE}}$	1.0051 ± 0.0047	$z_{\rm drag}$	1059.86 ± 0.31	$\chi^2_{\rm CMB}$	23459.1 ± 5.9
$\boldsymbol{c_{EE}}$	$1.0013^{+0.0038}_{-0.0047}$	$r_{\rm drag}$	$147.52^{+0.27}_{-0.24}$	$\chi^2_{\rm BAO}$	4.85 ± 0.71
$\boldsymbol{\beta_1^1}$	-0.05 ± 0.99	$k_{\rm D}$	0.14045 ± 0.00030		
H_0	67.99 ± 0.47	$100\theta_{\rm D}$	0.16076 ± 0.00018		

$\bar{\chi}^2_{\rm eff} = 24180.36$; $R - 1 = 0.07499$

3.21 base_Alens_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02252 \pm 0.00018 \quad (+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.0002 ± 0.0043	r_*	$144.88 \pm 0.33 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1178 \pm 0.0015 \quad (-0.4\sigma)$	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	$100\theta_*$	$1.04116 \pm 0.00031 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04098 \pm 0.00031 \quad (+0.1\sigma)$	H_0	$68.27 \pm 0.71 \quad (+0.4\sigma)$	$z_{\rm drag}$	$1060.11 \pm 0.36 \quad (+0.6\sigma)$
$\boldsymbol{\tau}$	$0.0668^{+0.0094}_{-0.020} \quad (+0.1\sigma)$	Ω_Λ	$0.6973 \pm 0.0093 \quad (+0.4\sigma)$	$r_{\rm drag}$	$147.51 \pm 0.32 \quad (+0.1\sigma)$
$\boldsymbol{A_L}$	$1.122 \pm 0.073 \quad (-0.2\sigma)$	$\Omega_{\rm m}$	$0.3027 \pm 0.0093 \quad (-0.4\sigma)$	$k_{\rm D}$	$0.14056 \pm 0.00033 \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.061^{+0.022}_{-0.039} \quad (-0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1410 \pm 0.0014 \quad (-0.3\sigma)$	$100\theta_{\rm D}$	$0.16062 \pm 0.00020 \quad (-0.8\sigma)$
$\boldsymbol{n_s}$	$0.9717 \pm 0.0050 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^3$	$0.09624 \pm 0.00031 \quad (+0.4\sigma)$	$z_{\rm eq}$	$3354 \pm 34 \quad (-0.3\sigma)$
$\boldsymbol{y_{cal}}$	$0.99997 \pm 0.0025 \quad (-0.1\sigma)$	σ_8	$0.812^{+0.011}_{-0.016} \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8226 \pm 0.0067 \quad (+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$238 \pm 23 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.447^{+0.011}_{-0.013} \quad (-0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07206 \pm 0.00053 \quad (+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$36 \pm 8 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.602^{+0.011}_{-0.014} \quad (-0.3\sigma)$	$H(0.57)$	$93.32 \pm 0.32 \quad (+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$101 \pm 10 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.016}_{-0.021} \quad (-0.3\sigma)$	$D_{\rm A}(0.57)$	$1378.6 \pm 9.5 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.571 \pm 0.061 \quad (-0.5\sigma)$	$F_{\rm AP}(0.57)$	$0.6738 \pm 0.0024 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.70^{+1.8}_{-2.4} \quad (-1.0\sigma)$	$z_{\rm re}$	$8.78^{+0.85}_{-2.0} \quad (+0.1\sigma)$	$f\sigma_8(0.57)$	$0.4699^{+0.0079}_{-0.010} \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9 A_{\rm s}$	$2.136^{+0.044}_{-0.084} \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.6064^{+0.0068}_{-0.012} \quad (-0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	$1.868 \pm 0.012 \quad (-0.6\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246365 \pm 0.000076 \quad (-4.7\sigma)$
$\boldsymbol{A^{kSZ}}$	$< 5.92 \quad (+0.8\sigma)$	D_{40}	$1217 \pm 14 \quad (-0.7\sigma)$	f_{2000}^{143}	$26.6 \pm 2.8 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5717 \pm 39 \quad (-0.5\sigma)$	f_{2000}^{217}	$104.7 \pm 2.0 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2526 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$29.7 \pm 2.1 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.11	D_{1420}	$814.1 \pm 4.8 \quad (+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	$10494.8 \pm 1.5 \quad (-0.5\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9717 \pm 0.0050 \quad (+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12951.6 ± 5.9
$\boldsymbol{c_{100}}$	$0.99683 \pm 0.00097 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.245038 \pm 0.000079 \quad (-4.7\sigma)$	$\chi^2_{\rm prior}$	$8.81 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{217}}$	$0.9968 \pm 0.0018 \quad (+0.8\sigma)$	Age/Gyr	$13.771 \pm 0.029 \quad (-0.5\sigma)$	$\chi^2_{\rm CMB}$	$23446.4 \pm 6.0 \quad (+1561.1\sigma)$
$\boldsymbol{c_{TE}}$	1.0016 ± 0.0047	z_*	$1089.53 \pm 0.33 \quad (-0.6\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23455.19$; $\Delta\bar{\chi}^2_{\rm eff} = 10491.64$; $R - 1 = 0.01100$

3.22 base_Alens_plikHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022552	0.02253 ± 0.00032	σ_8	0.8074	0.808 ± 0.020	$100\theta_*$	1.04127	1.04128 ± 0.00052
$\boldsymbol{\Omega_c h^2}$	0.11699	0.1172 ± 0.0022	$\sigma_8\Omega_m^{0.5}$	0.4404	0.442 ± 0.016	D_A/Gpc	13.9325	13.930 ± 0.046
$\boldsymbol{100\theta_{MC}}$	1.04110	1.04111 ± 0.00053	$\sigma_8\Omega_m^{0.25}$	0.5963	0.597 ± 0.017	z_{drag}	1060.12	1060.10 ± 0.66
$\boldsymbol{\tau}$	0.0597	0.059 ± 0.021	$\sigma_8/h^{0.5}$	0.9745	0.976 ± 0.026	r_{drag}	147.692	147.67 ± 0.50
$\boldsymbol{A_L}$	1.122	1.13 ± 0.20	$\langle d^2\rangle^{1/2}$	2.527	$2.53^{+0.22}_{-0.18}$	k_D	0.14037	0.14037 ± 0.00059
$\boldsymbol{\ln(10^{10}A_s)}$	3.0489	3.049 ± 0.045	z_{re}	8.13	$7.97^{+2.4}_{-1.9}$	$100\theta_D$	0.160635	$0.16067^{+0.00036}_{-0.00041}$
$\boldsymbol{n_s}$	0.9819	0.981 ± 0.015	$10^9 A_s$	2.109	$2.111^{+0.092}_{-0.10}$	z_{eq}	3334.6	3338 ± 49
$\boldsymbol{y_{cal}}$	0.99975	1.0001 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8717	1.873 ± 0.023	k_{eq}	0.010177	0.01019 ± 0.00015
$\boldsymbol{A_{100}^{dustTE}}$	0.1281	0.136 ± 0.038	D_{40}	1192.6	1195 ± 27	$100\theta_{eq}$	0.8262	0.8256 ± 0.0097
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1332	0.133 ± 0.029	D_{220}	5696	5696 ± 59	$100\theta_{s,eq}$	0.45600	0.4557 ± 0.0049
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.310	0.303 ± 0.084	D_{810}	2541.4	2542 ± 34	$r_{drag}/D_V(0.57)$	0.07235	0.07231 ± 0.00078
$\boldsymbol{A_{143}^{dustTE}}$	0.152	0.151 ± 0.054	D_{1420}	823.3	823 ± 16	$H(0.57)$	93.47	93.44 ± 0.49
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.355	0.335 ± 0.081	D_{2000}	234.7	234.7 ± 7.2	$D_A(0.57)$	1373.8	1375 ± 14
$\boldsymbol{A_{217}^{dustTE}}$	1.687	1.65 ± 0.26	$n_{s,0.002}$	0.9819	0.981 ± 0.015	$F_{AP}(0.57)$	0.67246	0.6728 ± 0.0034
$\boldsymbol{c_{100}}$	0.99952	0.99926 ± 0.00099	Y_P	0.245473	0.24546 ± 0.00014	$f\sigma_8(0.57)$	0.4658	0.466 ± 0.012
H_0	68.64	68.6 ± 1.0	Y_P^{BBN}	0.246800	0.24679 ± 0.00014	$\sigma_8(0.57)$	0.6040	0.604 ± 0.015
Ω_Λ	0.7024	0.701 ± 0.013	10^5D/H	2.557	2.563 ± 0.059	χ^2_{lowTEB}	10492.62	10494.1 ± 2.0
Ω_m	0.2976	0.299 ± 0.013	Age/Gyr	13.7606	13.763 ± 0.047	χ^2_{plikTE}	931.99	939.8 ± 4.3
$\Omega_m h^2$	0.14019	0.1403 ± 0.0021	z_*	1089.43	1089.48 ± 0.52	χ^2_{prior}	2.17	7.85 ± 3.7
$\Omega_m h^3$	0.09622	0.09621 ± 0.00058	r_*	145.075	145.05 ± 0.49	χ^2_{CMB}	11424.61	11433.9 ± 4.5

Best-fit $\chi^2_{eff} = 11426.78$; $\bar{\chi}^2_{eff} = 11441.75$; $R - 1 = 0.00876$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.62 plik_dx11dr2_HM_v18_TE: 931.99

3.23 base_Alens_plikHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02494	0.0251 ± 0.0014	$\sigma_8\Omega_m^{0.5}$	0.3926	$0.391^{+0.029}_{-0.034}$	D_A/Gpc	13.957	13.956 ± 0.063
$\boldsymbol{\Omega_c h^2}$	0.10965	0.1093 ± 0.0046	$\sigma_8\Omega_m^{0.25}$	0.5533	0.551 ± 0.030	z_{drag}	1064.93	1065.1 ± 2.7
$\boldsymbol{100\theta_{MC}}$	1.04009	1.04015 ± 0.00094	$\sigma_8/h^{0.5}$	0.9124	0.909 ± 0.045	r_{drag}	147.04	147.00 ± 0.81
$\boldsymbol{\tau}$	0.0612	0.061 ± 0.022	$\langle d^2\rangle^{1/2}$	2.870	$2.87^{+0.26}_{-0.24}$	k_D	0.14257	0.1426 ± 0.0014
$\boldsymbol{A_L}$	1.563	$1.59^{+0.28}_{-0.33}$	z_{re}	7.64	$7.48^{+2.2}_{-1.8}$	$100\theta_D$	0.15787	$0.1579^{+0.0012}_{-0.0014}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0690	3.069 ± 0.045	$10^9 A_s$	2.152	2.154 ± 0.097	z_{eq}	3216	3212^{+79}_{-89}
$\boldsymbol{n_s}$	0.9963	0.999 ± 0.015	$10^9 A_s e^{-2\tau}$	1.9040	1.904 ± 0.027	k_{eq}	0.009817	$0.00980^{+0.00024}_{-0.00027}$
$\boldsymbol{y_{cal}}$	0.99996	1.0000 ± 0.0025	D_{40}	1217.7	1214 ± 29	$100\theta_{eq}$	0.8551	0.857 ± 0.020
$\boldsymbol{A_{100}^{dustEE}}$	0.0823	0.0828 ± 0.0059	D_{220}	6106	6112 ± 220	$100\theta_{s,eq}$	0.4690	0.4698 ± 0.0094
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0493	0.0500 ± 0.0054	D_{810}	2598.5	2600 ± 40	$r_{drag}/D_V(0.57)$	0.07488	0.0751 ± 0.0019
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0975	0.099 ± 0.032	D_{1420}	848.7	850 ± 19	$H(0.57)$	96.02	$96.3^{+1.7}_{-2.0}$
$\boldsymbol{A_{143}^{dustEE}}$	0.1007	0.1012 ± 0.0072	D_{2000}	248.8	249.6 ± 8.0	$D_A(0.57)$	1313.8	1310 ± 39
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2222	0.221 ± 0.047	$n_{s,0.002}$	0.9963	0.999 ± 0.015	$F_{AP}(0.57)$	0.6606	$0.6602^{+0.0069}_{-0.0081}$
$\boldsymbol{A_{217}^{dustEE}}$	0.636	0.64 ± 0.13	Y_P	0.24646	0.24649 ± 0.00054	$f\sigma_8(0.57)$	0.4365	0.435 ± 0.022
H_0	73.05	73.4 ± 3.0	Y_P^{BBN}	0.24779	0.24782 ± 0.00054	$\sigma_8(0.57)$	0.5949	0.594 ± 0.015
Ω_Λ	0.7466	$0.747^{+0.030}_{-0.024}$	10^5D/H	2.177	$2.17^{+0.18}_{-0.21}$	χ^2_{lowTEB}	10493.00	10494.1 ± 1.8
Ω_m	0.2534	$0.253^{+0.024}_{-0.030}$	Age/Gyr	13.514	13.50 ± 0.17	χ^2_{plikEE}	747.40	755.8 ± 4.6
$\Omega_m h^2$	0.13524	$0.1351^{+0.0033}_{-0.0037}$	z_*	1086.17	$1086.1^{+1.6}_{-1.9}$	χ^2_{prior}	4.11	8.48 ± 3.6
$\Omega_m h^3$	0.09879	$0.0990^{+0.0020}_{-0.0022}$	r_*	145.16	145.15 ± 0.66	χ^2_{CMB}	11240.40	11250.0 ± 4.8
σ_8	0.7798	0.778 ± 0.026	$100\theta_*$	1.04001	1.04006 ± 0.00091			

Best-fit $\chi^2_{eff} = 11244.51$; $\bar{\chi}^2_{eff} = 11258.43$; $R-1 = 0.00674$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.00 plik_dx11dr2_HM_v18_EE: 747.40

3.24 base_Alens_CamSpecHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.022491	0.02251 ± 0.00032 (-0.0σ)	$\sigma_8/h^{0.5}$	0.9667	0.966 ± 0.026 (-0.4σ)	$k_{\rm D}$	0.13993	0.13992 ± 0.00060 (-0.8σ)
$\mathbf{\Omega_c h^2}$	0.11579	0.1156 ± 0.0022 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.453	$2.46^{+0.21}_{-0.18}$ (-0.3σ)	$100\theta_{\rm D}$	0.160779	0.16077 ± 0.00039 $(+0.3\sigma)$
$\mathbf{100\theta_{MC}}$	1.04134	1.04139 ± 0.00050 $(+0.5\sigma)$	$z_{\rm re}$	8.48	$8.34^{+2.3}_{-1.9}$ $(+0.2\sigma)$	$z_{\rm eq}$	3304.5	3301 ± 49 (-0.8σ)
$\boldsymbol{\tau}$	0.0635	0.063 ± 0.022 $(+0.2\sigma)$	$10^9 A_{\rm s}$	2.102	$2.103^{+0.094}_{-0.11}$ (-0.1σ)	$100\theta_{\rm eq}$	0.8319	0.8328 ± 0.0098 $(+0.7\sigma)$
$\boldsymbol{A_L}$	1.080	1.10 ± 0.20 (-0.1σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8514	1.851 ± 0.030 (-0.9σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07279	0.07287 ± 0.00079 $(+0.7\sigma)$
$\mathbf{\ln(10^{10} A_s)}$	3.0454	3.045 ± 0.047 (-0.1σ)	D_{40}	1173.9	1172 ± 28 (-0.8σ)	$H(0.57)$	93.62	$93.68^{+0.48}_{-0.55}$ $(+0.5\sigma)$
$\boldsymbol{n_s}$	0.9860	0.987 ± 0.015 $(+0.4\sigma)$	D_{220}	5637	5635 ± 82 (-1.0σ)	$D_{\rm A}(0.57)$	1368.1	1367 ± 14 (-0.6σ)
$\boldsymbol{y_{cal}}$	0.99999	0.9999 ± 0.0025 (-0.1σ)	D_{810}	2522.9	2523 ± 43 (-0.6σ)	$F_{\rm AP}(0.57)$	0.67073	0.6705 ± 0.0034 (-0.7σ)
$\boldsymbol{c_{TE}}$	0.9987	0.9985 ± 0.0099	D_{1420}	818.8	819 ± 18 (-0.3σ)	$f\sigma_8(0.57)$	0.4618	0.461 ± 0.012 (-0.4σ)
H_0	69.10	69.2 ± 1.1 $(+0.6\sigma)$	$n_{\rm s,0.002}$	0.9860	0.987 ± 0.015 $(+0.4\sigma)$	$\sigma_8(0.57)$	0.6029	$0.603^{+0.015}_{-0.016}$ (-0.1σ)
Ω_Λ	0.7091	0.710 ± 0.013 $(+0.7\sigma)$	$Y_{\rm P}$	0.245026	0.24504 ± 0.00014 (-3.0σ)	$Y_{\rm P}^{\rm BBN}$	0.246356	0.24636 ± 0.00014 (-3.0σ)
$\Omega_{\rm m}$	0.2909	0.290 ± 0.013 (-0.7σ)	Age/Gyr	13.7538	13.749 ± 0.047 (-0.3σ)	$\chi^2_{\rm lowTEB}$	10491.90	10493.3 ± 1.6 (-0.4σ)
$\Omega_{\rm m} h^2$	0.13893	0.1388 ± 0.0020 (-0.8σ)	z_*	1089.38	1089.35 ± 0.53 (-0.3σ)	$\chi^2_{\rm CamSpec}$	2694.70	2700.3 ± 3.4
$\Omega_{\rm m} h^3$	0.09600	0.09603 ± 0.00058 (-0.3σ)	r_*	145.439	145.47 ± 0.49 $(+0.9\sigma)$	$\chi^2_{\rm prior}$	10.04	12.0 ± 2.0 $(+1.1\sigma)$
σ_8	0.8036	0.803 ± 0.020 (-0.2σ)	$100\theta_*$	1.041536	1.04157 ± 0.00049 $(+0.6\sigma)$	$\chi^2_{\rm CMB}$	13186.60	13193.6 ± 3.8 $(+391.7\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4334	0.432 ± 0.015 (-0.6σ)	$z_{\rm drag}$	1059.89	1059.94 ± 0.67 (-0.2σ)			
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5902	0.589 ± 0.017 (-0.5σ)	$r_{\rm drag}$	148.08	148.11 ± 0.50 $(+0.9\sigma)$			

Best-fit $\chi^2_{\rm eff} = 13196.65$; $\Delta\chi^2_{\rm eff} = 1769.86$; $\bar{\chi}^2_{\rm eff} = 13205.59$; $\Delta\bar{\chi}^2_{\rm eff} = 1763.84$; $R - 1 = 0.00889$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10491.90 (Δ -0.72) CamSpec like_v9.10CMH_unified: 2694.70

3.25 base_Alens_CamSpecHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02455	0.0246 ± 0.0011 (-0.3σ)	$\sigma_8/h^{0.5}$	0.9295	0.927 ± 0.041 $(+0.4\sigma)$	$k_{\rm D}$	0.14290	0.1429 ± 0.0011 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11304	0.1129 ± 0.0041 $(+0.8\sigma)$	$\langle d^2\rangle^{1/2}$	2.614	$2.61^{+0.21}_{-0.18}$ (-1.1σ)	$100\theta_{\rm D}$	0.15812	$0.1581^{+0.0010}_{-0.0012}$ $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.03990	1.03993 ± 0.00073 (-0.2σ)	$z_{\rm re}$	7.41	$7.19^{+2.3}_{-1.8}$ (-0.1σ)	$z_{\rm eq}$	3288	3287 ± 76 $(+0.9\sigma)$
$\boldsymbol{\tau}$	0.0574	0.056 ± 0.021 (-0.2σ)	$10^9 A_{\rm s}$	2.122	$2.120^{+0.090}_{-0.10}$ (-0.3σ)	$100\theta_{\rm eq}$	0.8398	0.841 ± 0.017 (-0.8σ)
$\boldsymbol{A_L}$	1.243	$1.26^{+0.20}_{-0.23}$ (-1.1σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8917	1.892 ± 0.028 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07362	0.0737 ± 0.0016 (-0.7σ)
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0548	3.053 ± 0.043 (-0.3σ)	D_{40}	1232.9	1234 ± 27 $(+0.7\sigma)$	$H(0.57)$	95.18	$95.3^{+1.4}_{-1.6}$ (-0.5σ)
$\boldsymbol{n_{\rm s}}$	0.9814	0.982 ± 0.012 (-1.1σ)	D_{220}	6031	6042 ± 190 (-0.3σ)	$D_{\rm A}(0.57)$	1335.2	1334 ± 34 $(+0.6\sigma)$
$\boldsymbol{y_{\rm cal}}$	0.99999	0.99998 ± 0.0026 (-0.0σ)	D_{810}	2573.8	2574 ± 41 (-0.6σ)	$F_{\rm AP}(0.57)$	0.6656	$0.6655^{+0.0065}_{-0.0073}$ $(+0.7\sigma)$
$\boldsymbol{c_{EE}}$	0.9964	0.9967 ± 0.0098	D_{1420}	837.7	838 ± 17 (-0.6σ)	$f\sigma_8(0.57)$	0.4455	0.444 ± 0.019 $(+0.4\sigma)$
H_0	71.35	71.5 ± 2.5 (-0.6σ)	$n_{\rm s,0.002}$	0.9814	0.982 ± 0.012 (-1.1σ)	$\sigma_8(0.57)$	0.5940	0.593 ± 0.014 (-0.1σ)
Ω_Λ	0.7285	$0.728^{+0.028}_{-0.023}$ (-0.7σ)	$Y_{\rm P}$	0.245864	0.24588 ± 0.00044 (-1.1σ)	$Y_{\rm P}^{\rm BBN}$	0.247187	0.24721 ± 0.00044 (-1.1σ)
$\Omega_{\rm m}$	0.2715	$0.272^{+0.023}_{-0.028}$ $(+0.7\sigma)$	Age/Gyr	13.578	13.57 ± 0.14 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10494.28	10495.5 ± 2.1 $(+0.8\sigma)$
$\Omega_{\rm m} h^2$	0.13823	0.1382 ± 0.0032 $(+0.9\sigma)$	z_*	1086.83	$1086.8^{+1.4}_{-1.6}$ $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	2185.72	2191.5 ± 3.8
$\Omega_{\rm m} h^3$	0.09863	0.0988 ± 0.0016 (-0.1σ)	r_*	144.57	144.54 ± 0.55 (-0.9σ)	$\chi^2_{\rm prior}$	10.16	12.1 ± 2.1 $(+1.0\sigma)$
σ_8	0.7852	0.783 ± 0.024 $(+0.2\sigma)$	$100\theta_*$	1.03986	1.03989 ± 0.00071 (-0.2σ)	$\chi^2_{\rm CMB}$	12679.99	12687.0 ± 3.7 $(+297.9\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4091	$0.408^{+0.027}_{-0.031}$ $(+0.6\sigma)$	$z_{\rm drag}$	1064.32	1064.4 ± 2.2 (-0.3σ)			
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5668	0.565 ± 0.028 $(+0.5\sigma)$	$r_{\rm drag}$	146.56	146.51 ± 0.62 (-0.6σ)			

Best-fit $\chi^2_{\rm eff} = 12690.15$; $\Delta\chi^2_{\rm eff} = 1445.65$; $\bar{\chi}^2_{\rm eff} = 12699.13$; $\Delta\bar{\chi}^2_{\rm eff} = 1440.70$; $R - 1 = 0.00797$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.27 (Δ 1.28) CamSpec like_v9.10CMH_unified: 2185.72

3.26 base_Alens_plikHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022240	0.02224 ± 0.00037	σ_8	0.8016	0.801 ± 0.018	$100\theta_*$	1.04116	1.04112 ± 0.00053
$\boldsymbol{\Omega_c h^2}$	0.11909	0.1188 ± 0.0025	$\sigma_8\Omega_m^{0.5}$	0.4469	0.446 ± 0.017	D_A/Gpc	13.9043	13.912 ± 0.048
$\boldsymbol{100\theta_{MC}}$	1.04096	1.04093 ± 0.00054	$\sigma_8\Omega_m^{0.25}$	0.5986	0.597 ± 0.017	z_{drag}	1059.55	1059.55 ± 0.76
$\boldsymbol{\tau}$	0.0523	0.053 ± 0.019	$\sigma_8/h^{0.5}$	0.9751	0.974 ± 0.025	r_{drag}	147.48	147.56 ± 0.51
$\boldsymbol{A_L}$	0.957	$0.98^{+0.21}_{-0.24}$	$\langle d^2\rangle^{1/2}$	2.372	$2.38^{+0.26}_{-0.22}$	k_D	0.14036	0.14027 ± 0.00059
$\boldsymbol{\ln(10^{10}A_s)}$	3.0289	3.030 ± 0.042	z_{re}	7.49	$7.40^{+2.4}_{-1.8}$	$100\theta_D$	0.160973	0.16098 ± 0.00045
$\boldsymbol{n_s}$	0.9619	0.963 ± 0.020	$10^9 A_s$	2.068	2.071 ± 0.086	z_{eq}	3377	3370 ± 55
$\boldsymbol{y_{cal}}$	0.99979	0.99997 ± 0.0026	$10^9 A_s e^{-2\tau}$	1.8620	1.862 ± 0.024	k_{eq}	0.010308	0.01029 ± 0.00017
$\boldsymbol{A_{100}^{dustTE}}$	0.1441	0.137 ± 0.038	D_{40}	1226.6	1228 ± 38	$100\theta_{eq}$	0.8174	0.819 ± 0.011
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1340	0.134 ± 0.029	D_{220}	5697	5703 ± 60	$100\theta_{s,eq}$	0.4516	0.4524 ± 0.0055
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.307	0.304 ± 0.085	D_{810}	2513.2	2514 ± 38	$r_{drag}/D_V(0.57)$	0.07162	0.07172 ± 0.00088
$\boldsymbol{A_{143}^{dustTE}}$	0.158	0.155 ± 0.054	D_{1420}	807.0	807 ± 19	$H(0.57)$	92.97	93.01 ± 0.57
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.332	0.335 ± 0.081	D_{2000}	226.9	227.2 ± 8.6	$D_A(0.57)$	1388.1	1387 ± 17
$\boldsymbol{A_{217}^{dustTE}}$	1.637	1.65 ± 0.26	$n_{s,0.002}$	0.9619	0.963 ± 0.020	$F_{AP}(0.57)$	0.67587	0.6755 ± 0.0041
$\boldsymbol{c_{100}}$	0.99923	0.99927 ± 0.00099	Y_P	0.245336	0.24533 ± 0.00017	$f\sigma_8(0.57)$	0.4659	0.465 ± 0.012
H_0	67.58	67.7 ± 1.2	Y_P^{BBN}	0.246662	0.24666 ± 0.00017	$\sigma_8(0.57)$	0.5965	0.596 ± 0.014
Ω_Λ	0.6891	$0.690^{+0.017}_{-0.015}$	10^5D/H	2.616	2.616 ± 0.071	χ^2_{lowEB}	5430.77	5431.7 ± 1.2
Ω_m	0.3109	$0.310^{+0.015}_{-0.017}$	Age/Gyr	13.806	13.804 ± 0.054	χ^2_{plikTE}	931.45	939.3 ± 4.3
$\Omega_m h^2$	0.14197	0.1417 ± 0.0023	z_*	1090.01	1089.98 ± 0.64	χ^2_{prior}	1.64	7.85 ± 3.6
$\Omega_m h^3$	0.09595	0.09588 ± 0.00061	r_*	144.77	144.84 ± 0.52	χ^2_{CMB}	6362.22	6371.1 ± 4.5

Best-fit $\chi^2_{eff} = 6363.86$; $\bar{\chi}^2_{eff} = 6378.92$; $R - 1 = 0.00925$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.77 plik_dx11dr2_HM_v18_TE: 931.45

3.27 base_Alens_plikHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02485	0.0248 ± 0.0014	$\sigma_8\Omega_m^{0.5}$	0.4008	$0.401^{+0.033}_{-0.037}$	D_A/Gpc	13.921	13.924 ± 0.067
$\boldsymbol{\Omega_c h^2}$	0.1115	0.1114 ± 0.0051	$\sigma_8\Omega_m^{0.25}$	0.5597	0.559 ± 0.032	z_{drag}	1064.85	1064.8 ± 2.7
$\boldsymbol{100\theta_{MC}}$	1.03984	1.03994 ± 0.00097	$\sigma_8/h^{0.5}$	0.9200	0.919 ± 0.047	r_{drag}	146.66	146.71 ± 0.80
$\boldsymbol{\tau}$	0.0564	0.055 ± 0.021	$\langle d^2\rangle^{1/2}$	2.872	$2.86^{+0.26}_{-0.23}$	k_D	0.14294	0.1428 ± 0.0014
$\boldsymbol{A_L}$	1.514	$1.54^{+0.28}_{-0.33}$	z_{re}	7.24	$7.01^{+2.3}_{-1.7}$	$100\theta_D$	0.15787	$0.1580^{+0.0012}_{-0.0015}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0640	3.061 ± 0.044	$10^9 A_s$	2.141	2.136 ± 0.094	z_{eq}	3257	3256 ± 95
$\boldsymbol{n_s}$	0.9833	0.987 ± 0.019	$10^9 A_s e^{-2\tau}$	1.9131	1.911 ± 0.027	k_{eq}	0.009942	0.00994 ± 0.00029
$\boldsymbol{y_{cal}}$	1.00013	0.9999 ± 0.0025	D_{40}	1249.1	1239 ± 37	$100\theta_{eq}$	0.8465	0.847 ± 0.022
$\boldsymbol{A_{100}^{dustEE}}$	0.0804	0.0811 ± 0.0061	D_{220}	6154	6128 ± 210	$100\theta_{s,eq}$	0.4647	0.465 ± 0.011
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0486	0.0482 ± 0.0056	D_{810}	2597.1	2596 ± 40	$r_{drag}/D_V(0.57)$	0.07418	0.0743 ± 0.0020
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0988	0.098 ± 0.032	D_{1420}	843.6	844 ± 19	$H(0.57)$	95.62	$95.7^{+1.7}_{-2.1}$
$\boldsymbol{A_{143}^{dustEE}}$	0.0999	0.0992 ± 0.0074	D_{2000}	246.3	246.7 ± 8.4	$D_A(0.57)$	1324.5	1324 ± 42
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2236	0.221 ± 0.047	$n_{s,0.002}$	0.9833	0.987 ± 0.019	$F_{AP}(0.57)$	0.6632	$0.6634^{+0.0078}_{-0.0091}$
$\boldsymbol{A_{217}^{dustEE}}$	0.615	0.64 ± 0.13	Y_P	0.24642	0.24639 ± 0.00054	$f\sigma_8(0.57)$	0.4407	0.440 ± 0.023
H_0	72.18	72.3 ± 3.2	Y_P^{BBN}	0.24775	0.24772 ± 0.00055	$\sigma_8(0.57)$	0.5936	0.593 ± 0.015
Ω_Λ	0.7371	$0.736^{+0.034}_{-0.027}$	10^5D/H	2.190	$2.21^{+0.18}_{-0.23}$	χ^2_{lowEB}	5430.70	5431.7 ± 1.2
Ω_m	0.2629	$0.264^{+0.027}_{-0.034}$	Age/Gyr	13.541	13.54 ± 0.18	χ^2_{plikEE}	747.38	756.0 ± 4.7
$\Omega_m h^2$	0.13696	0.1369 ± 0.0040	z_*	1086.42	$1086.5^{+1.7}_{-2.0}$	χ^2_{prior}	3.52	8.02 ± 3.6
$\Omega_m h^3$	0.09886	$0.0988^{+0.0019}_{-0.0022}$	r_*	144.75	144.79 ± 0.72	χ^2_{CMB}	6178.08	6187.6 ± 4.8
σ_8	0.7816	0.780 ± 0.026	$100\theta_*$	1.03978	1.03988 ± 0.00093			

Best-fit $\chi^2_{eff} = 6181.60$; $\bar{\chi}^2_{eff} = 6195.67$; $R - 1 = 0.00929$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.70 plik_dx11dr2_HM_v18_EE: 747.38

3.28 base_Alens_CamSpecHM_TE_lowEB

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02236 \pm 0.00039 \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.961 \pm 0.025 \quad (-0.5\sigma)$	k_D	$0.13989 \pm 0.00060 \quad (-0.6\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1166 \pm 0.0026 \quad (-0.9\sigma)$	$\langle d^2\rangle^{1/2}$	$2.38^{+0.26}_{-0.20} \quad (+0.0\sigma)$	$100\theta_D$	$0.16093 \pm 0.00046 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04128 \pm 0.00051 \quad (+0.7\sigma)$	z_{re}	$7.46^{+2.4}_{-1.8} \quad (+0.0\sigma)$	z_{eq}	$3320 \pm 56 \quad (-0.9\sigma)$
$\boldsymbol{\tau}$	$0.054 \pm 0.020 \quad (+0.1\sigma)$	$10^9 A_s$	$2.062 \pm 0.090 \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.829 \pm 0.011 \quad (+0.9\sigma)$
$\boldsymbol{A_L}$	$1.03 \pm 0.23 \quad (+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.849 \pm 0.031 \quad (-0.5\sigma)$	$r_{drag}/D_V(0.57)$	$0.07252 \pm 0.00091 \quad (+0.9\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.025 \pm 0.044 \quad (-0.1\sigma)$	D_{40}	$1190 \pm 39 \quad (-1.0\sigma)$	$H(0.57)$	$93.43 \pm 0.60 \quad (+0.7\sigma)$
$\boldsymbol{n_s}$	$0.977 \pm 0.020 \quad (+0.7\sigma)$	D_{220}	$5647 \pm 83 \quad (-0.9\sigma)$	$D_A(0.57)$	$1374 \pm 17 \quad (-0.8\sigma)$
$\boldsymbol{y_{cal}}$	$0.99998 \pm 0.0025 \quad (+0.0\sigma)$	D_{810}	$2514 \pm 47 \quad (-0.0\sigma)$	$F_{AP}(0.57)$	$0.6721 \pm 0.0040 \quad (-0.8\sigma)$
$\boldsymbol{c_{TE}}$	0.9998 ± 0.010	D_{1420}	$813 \pm 21 \quad (+0.3\sigma)$	$f\sigma_8(0.57)$	$0.459 \pm 0.012 \quad (-0.5\sigma)$
H_0	$68.7 \pm 1.3 \quad (+0.8\sigma)$	$n_{s,0.002}$	$0.977 \pm 0.020 \quad (+0.7\sigma)$	$\sigma_8(0.57)$	$0.596 \pm 0.014 \quad (-0.0\sigma)$
Ω_Λ	$0.704 \pm 0.016 \quad (+0.8\sigma)$	Y_P	$0.24497 \pm 0.00017 \quad (-2.2\sigma)$	Y_P^{BBN}	$0.24630 \pm 0.00017 \quad (-2.2\sigma)$
Ω_m	$0.296 \pm 0.016 \quad (-0.8\sigma)$	Age/Gyr	$13.772 \pm 0.056 \quad (-0.6\sigma)$	χ^2_{lowEB}	$5431.7 \pm 1.2 \quad (-0.0\sigma)$
$\Omega_m h^2$	$0.1396 \pm 0.0023 \quad (-0.9\sigma)$	z_*	$1089.63 \pm 0.66 \quad (-0.5\sigma)$	$\chi^2_{CamSpec}$	2700.4 ± 3.4
$\Omega_m h^3$	$0.09587 \pm 0.00061 \quad (-0.0\sigma)$	r_*	$145.33 \pm 0.52 \quad (+0.9\sigma)$	χ^2_{prior}	$12.0 \pm 2.0 \quad (+1.2\sigma)$
σ_8	$0.796 \pm 0.019 \quad (-0.3\sigma)$	$100\theta_*$	$1.04148 \pm 0.00049 \quad (+0.7\sigma)$	χ^2_{CMB}	$8132.1 \pm 3.6 \quad (+394.9\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.433 \pm 0.017 \quad (-0.7\sigma)$	z_{drag}	$1059.64 \pm 0.79 \quad (+0.1\sigma)$		
$\sigma_8 \Omega_m^{0.25}$	$0.587 \pm 0.017 \quad (-0.6\sigma)$	r_{drag}	$148.02 \pm 0.51 \quad (+0.9\sigma)$		

$\bar{\chi}^2_{eff} = 8144.13$; $\Delta\bar{\chi}^2_{eff} = 1765.21$; $R - 1 = 0.00558$

3.29 base_Alens_CamSpecHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02430	0.0244 ± 0.0011 (-0.3σ)	$\sigma_8/h^{0.5}$	0.9437	0.940 ± 0.041 $(+0.4\sigma)$	$k_{\rm D}$	0.14309	0.1431 ± 0.0011 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11517	0.1150 ± 0.0043 $(+0.7\sigma)$	$\langle d^2\rangle^{1/2}$	2.590	$2.59^{+0.22}_{-0.20}$ (-1.1σ)	$100\theta_{\rm D}$	0.15829	$0.1583^{+0.0010}_{-0.0013}$ $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.03971	1.03973 ± 0.00074 (-0.2σ)	$z_{\rm re}$	7.23	$6.97^{+2.3}_{-1.7}$ (-0.0σ)	$z_{\rm eq}$	3333	3331 ± 81 $(+0.8\sigma)$
$\boldsymbol{\tau}$	0.0546	0.053 ± 0.020 (-0.1σ)	$10^9 A_{\rm s}$	2.126	2.121 ± 0.089 (-0.2σ)	$100\theta_{\rm eq}$	0.8304	0.832 ± 0.018 (-0.7σ)
$\boldsymbol{A_L}$	1.170	$1.19^{+0.20}_{-0.24}$ (-1.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.9060	1.905 ± 0.029 (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07284	0.0730 ± 0.0016 (-0.7σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0567	3.054 ± 0.042 (-0.2σ)	D_{40}	1265.5	1263 ± 32 $(+0.6\sigma)$	$H(0.57)$	94.68	$94.8^{+1.3}_{-1.6}$ (-0.5σ)
$\boldsymbol{n_s}$	0.9690	0.971 ± 0.014 (-0.9σ)	D_{220}	6072	6075 ± 190 (-0.3σ)	$D_{\rm A}(0.57)$	1348.8	1347 ± 34 $(+0.5\sigma)$
$\boldsymbol{y_{cal}}$	0.99992	0.9999 ± 0.0025 (-0.0σ)	D_{810}	2580.1	2579 ± 41 (-0.4σ)	$F_{\rm AP}(0.57)$	0.6688	$0.6686^{+0.0068}_{-0.0077}$ $(+0.6\sigma)$
$\boldsymbol{c_{EE}}$	1.0005	0.9999 ± 0.010	D_{1420}	835.2	835 ± 17 (-0.5σ)	$f\sigma_8(0.57)$	0.4525	0.450 ± 0.020 $(+0.5\sigma)$
H_0	70.29	70.5 ± 2.5 (-0.6σ)	$n_{\rm s,0.002}$	0.9690	0.971 ± 0.014 (-0.9σ)	$\sigma_8(0.57)$	0.5954	0.594 ± 0.014 $(+0.1\sigma)$
Ω_Λ	0.7164	$0.717^{+0.030}_{-0.025}$ (-0.6σ)	$Y_{\rm P}$	0.245770	0.24579 ± 0.00044 (-1.1σ)	$Y_{\rm P}^{\rm BBN}$	0.247090	0.24712 ± 0.00044 (-1.1σ)
$\Omega_{\rm m}$	0.2836	$0.283^{+0.025}_{-0.030}$ $(+0.6\sigma)$	Age/Gyr	13.618	13.61 ± 0.14 $(+0.4\sigma)$	$\chi^2_{\rm lowEB}$	5430.71	5431.7 ± 1.2 (-0.0σ)
$\Omega_{\rm m} h^2$	0.14011	0.1400 ± 0.0034 $(+0.8\sigma)$	z_*	1087.26	$1087.2^{+1.4}_{-1.6}$ $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	2184.61	2190.7 ± 3.5
$\Omega_{\rm m} h^3$	0.09849	$0.0986^{+0.0015}_{-0.0018}$ (-0.1σ)	r_*	144.20	144.19 ± 0.59 (-0.8σ)	$\chi^2_{\rm prior}$	10.03	12.0 ± 2.0 $(+1.1\sigma)$
σ_8	0.7912	0.789 ± 0.023 $(+0.3\sigma)$	$100\theta_*$	1.03971	1.03972 ± 0.00072 (-0.2σ)	$\chi^2_{\rm CMB}$	7615.32	7622.4 ± 3.7 $(+297.6\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4213	$0.420^{+0.029}_{-0.032}$ $(+0.5\sigma)$	$z_{\rm drag}$	1063.94	1064.1 ± 2.2 (-0.3σ)			
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5773	0.575 ± 0.028 $(+0.5\sigma)$	$r_{\rm drag}$	146.25	146.22 ± 0.63 (-0.6σ)			

Best-fit $\chi^2_{\rm eff} = 7625.35$; $\Delta\chi^2_{\rm eff} = 1443.75$; $\bar{\chi}^2_{\rm eff} = 7634.39$; $\Delta\bar{\chi}^2_{\rm eff} = 1438.72$; $R - 1 = 0.00573$
$\chi^2_{\rm eff}$: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.71 (Δ 0.01) CamSpec like_v9.10CMH_unified: 2184.61

3.30 base_Alens_plikHM_TT_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022614	0.02250 ± 0.00030	Ω_m	0.2994	$0.304^{+0.016}_{-0.018}$	D_A/Gpc	13.914	13.907 ± 0.051
$\boldsymbol{\Omega_c h^2}$	0.11746	0.1181 ± 0.0027	$\Omega_m h^2$	0.14072	0.1413 ± 0.0025	z_{drag}	1060.31	1060.11 ± 0.57
$\boldsymbol{100\theta_{MC}}$	1.04124	1.04115 ± 0.00054	$\Omega_m h^3$	0.096483	0.09635 ± 0.00050	r_{drag}	147.49	147.44 ± 0.53
$\boldsymbol{\tau}$	0.0578	0.054 ± 0.020	σ_8	0.8047	0.804 ± 0.018	k_D	0.14063	0.14059 ± 0.00053
$\boldsymbol{A_L}$	1.224	$1.198^{+0.099}_{-0.11}$	$\sigma_8\Omega_m^{0.5}$	0.4403	0.443 ± 0.019	$100\theta_D$	0.160557	0.16068 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0457	3.039 ± 0.039	$\sigma_8\Omega_m^{0.25}$	0.5953	0.597 ± 0.019	z_{eq}	3347	3361 ± 60
$\boldsymbol{n_s}$	0.9727	0.9691 ± 0.0079	$\sigma_8/h^{0.5}$	0.9719	0.973 ± 0.027	k_{eq}	0.010217	0.01026 ± 0.00018
$\boldsymbol{y_{cal}}$	1.00001	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.660	2.635 ± 0.076	$100\theta_{eq}$	0.8242	0.822 ± 0.012
$\boldsymbol{A_{217}^{CIB}}$	58.9	62.2 ± 6.7	z_{re}	7.94	$7.49^{+2.3}_{-1.8}$	$100\theta_{s,eq}$	0.4549	0.4536 ± 0.0060
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.83	—	$10^9 A_s$	2.103	2.091 ± 0.082	$r_{drag}/D_V(0.57)$	0.07225	0.07202 ± 0.00096
$\boldsymbol{A_{143}^{tSZ}}$	6.67	5.45 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8729	1.875 ± 0.016	$H(0.57)$	93.50	93.34 ± 0.58
$\boldsymbol{A_{100}^{PS}}$	239.6	252 ± 30	D_{40}	1215.8	1223 ± 20	$D_A(0.57)$	1374.3	1379 ± 17
$\boldsymbol{A_{143}^{PS}}$	45.9	40 ± 8	D_{220}	5742.2	5742 ± 42	$F_{AP}(0.57)$	0.67292	0.6741 ± 0.0043
$\boldsymbol{A_{143\times217}^{PS}}$	52.9	38 ± 10	D_{810}	2530.4	2529 ± 14	$f\sigma_8(0.57)$	0.4647	0.465 ± 0.013
$\boldsymbol{A_{217}^{PS}}$	107.1	98 ± 10	D_{1420}	815.3	813.4 ± 5.1	$\sigma_8(0.57)$	0.6016	0.600 ± 0.012
$\boldsymbol{A^{kSZ}}$	0.00	< 3.85	D_{2000}	232.78	231.6 ± 2.1	f_{2000}^{143}	25.77	28 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.34	7.39 ± 1.9	$n_{s,0.002}$	0.9727	0.9691 ± 0.0079	$f_{2000}^{143\times217}$	29.49	30.5 ± 2.5
$\boldsymbol{A_{143}^{dustTT}}$	9.00	8.94 ± 1.9	Y_P	0.245500	0.24545 ± 0.00013	f_{2000}^{217}	102.98	104.3 ± 2.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.99	16.7 ± 4.2	Y_P^{BBN}	0.246827	0.24678 ± 0.00014	χ^2_{lowEB}	5430.77	5431.7 ± 1.2
$\boldsymbol{A_{217}^{dustTT}}$	82.6	81.5 ± 7.4	10^5D/H	2.546	2.567 ± 0.056	χ^2_{plik}	760.6	775.1 ± 5.5
$\boldsymbol{c_{100}}$	0.99802	0.99794 ± 0.00078	Age/Gyr	13.752	13.768 ± 0.052	χ^2_{prior}	1.32	7.15 ± 3.5
$\boldsymbol{c_{217}}$	0.99538	0.9957 ± 0.0015	z_*	1089.40	1089.59 ± 0.57	χ^2_{CMB}	6191.4	6206.9 ± 5.7
H_0	68.56	68.2 ± 1.3	r_*	144.90	144.82 ± 0.56			
Ω_Λ	0.7006	$0.696^{+0.018}_{-0.016}$	$100\theta_*$	1.04140	1.04133 ± 0.00053			

Best-fit $\chi^2_{eff} = 6192.67$; $\bar{\chi}^2_{eff} = 6214.01$; $R - 1 = 0.00725$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.77 plik_dx11dr2_HM_v18_TT: 760.58

3.31 base_Alens_plikHM_TTTEEE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022396	0.02236 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.302 ± 0.084	Age/Gyr	13.7917	13.796 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11893	0.1192 ± 0.0016	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.154 ± 0.054	z_*	1089.792	1089.86 ± 0.33
$\boldsymbol{100\theta_{MC}}$	1.040873	1.04086 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335	0.335 ± 0.081	r_*	144.688	144.65 ± 0.34
$\boldsymbol{\tau}$	0.0551	0.054 ± 0.019	$\boldsymbol{A^{dustTE}_{217}}$	1.647	1.65 ± 0.25	$100\theta_*$	1.041058	1.04105 ± 0.00033
$\boldsymbol{A_L}$	1.153	$1.143^{+0.071}_{-0.082}$	$\boldsymbol{c_{100}}$	0.99829	0.99820 ± 0.00077	D_A/Gpc	13.8982	13.895 ± 0.032
$\boldsymbol{\ln(10^{10}A_s)}$	3.0435	3.041 ± 0.039	$\boldsymbol{c_{217}}$	0.99565	0.9958 ± 0.0014	z_{drag}	1059.933	1059.86 ± 0.34
$\boldsymbol{n_s}$	0.9668	0.9651 ± 0.0052	H_0	67.74	67.62 ± 0.74	r_{drag}	147.345	147.32 ± 0.33
$\boldsymbol{y_{cal}}$	0.99985	0.99997 ± 0.0025	Ω_Λ	0.6906	0.689 ± 0.010	k_D	0.140618	0.14061 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	62.0	63.0 ± 6.6	Ω_m	0.3094	0.311 ± 0.010	$100\theta_D$	0.160750	0.16079 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.56	—	$\Omega_m h^2$	0.14197	0.1422 ± 0.0015	z_{eq}	3377.2	3382 ± 36
$\boldsymbol{A^{tSZ}_{143}}$	6.84	5.46 ± 1.9	$\Omega_m h^3$	0.096167	0.09614 ± 0.00030	k_{eq}	0.010308	0.01032 ± 0.00011
$\boldsymbol{A^{PS}_{100}}$	249.2	257 ± 28	σ_8	0.8077	0.807 ± 0.017	$100\theta_{eq}$	0.8178	0.8169 ± 0.0069
$\boldsymbol{A^{PS}_{143}}$	45.1	42 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4493	0.450 ± 0.013	$100\theta_{s,eq}$	0.45172	0.4513 ± 0.0035
$\boldsymbol{A^{PS}_{143\times217}}$	47.8	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6024	0.603 ± 0.015	$r_{drag}/D_V(0.57)$	0.07167	0.07160 ± 0.00055
$\boldsymbol{A^{PS}_{217}}$	104.7	98 ± 10	$\sigma_8/h^{0.5}$	0.9814	0.982 ± 0.022	$H(0.57)$	93.085	93.04 ± 0.32
$\boldsymbol{A^{kSZ}}$	0.00	< 3.78	$\langle d^2\rangle^{1/2}$	2.609	2.598 ± 0.057	$D_A(0.57)$	1385.7	1387.3 ± 9.9
$\boldsymbol{A^{dustTT}_{100}}$	7.32	7.38 ± 1.9	z_{re}	7.73	$7.47^{+2.4}_{-1.8}$	$F_{AP}(0.57)$	0.67550	0.6759 ± 0.0025
$\boldsymbol{A^{dustTT}_{143}}$	8.83	8.86 ± 1.8	$10^9 A_s$	2.098	2.094 ± 0.082	$f\sigma_8(0.57)$	0.4691	0.469 ± 0.011
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.74	16.7 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8791	1.879 ± 0.012	$\sigma_8(0.57)$	0.6013	0.601 ± 0.012
$\boldsymbol{A^{dustTT}_{217}}$	82.1	81.2 ± 7.4	D_{40}	1227.7	1232 ± 15	f^{143}_{2000}	27.58	28.6 ± 2.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0812 ± 0.0056	D_{220}	5738.9	5741 ± 39	$f^{143\times217}_{2000}$	30.93	31.4 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04901	0.0487 ± 0.0050	D_{810}	2532.0	2531 ± 14	f^{217}_{2000}	104.44	105.1 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0995	0.099 ± 0.032	D_{1420}	813.74	812.8 ± 4.8	χ^2_{lowEB}	5430.76	5431.7 ± 1.2
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1001 ± 0.0069	D_{2000}	231.24	230.7 ± 1.7	χ^2_{plik}	2429.4	2448.8 ± 6.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2220	0.223 ± 0.047	$n_{s,0.002}$	0.9668	0.9651 ± 0.0052	χ^2_{prior}	6.43	19.2 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	Y_P	0.245404	0.245388 ± 0.000078	χ^2_{CMB}	7860.1	7880.5 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1413	0.141 ± 0.038	Y_P^{BBN}	0.246731	0.246715 ± 0.000079			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1320	0.131 ± 0.029	10^5D/H	2.5864	2.593 ± 0.033			

Best-fit $\chi^2_{eff} = 7866.54$; $\bar{\chi}^2_{eff} = 7899.69$; $R - 1 = 0.00830$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.76 plik_dx11dr2_HM_v18_TTTEEE: 2429.35

3.32 base_Alens_CamSpecHM_TT_lowEB

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02255 \pm 0.00031 \quad (+0.2\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	$144.95 \pm 0.56 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1175 \pm 0.0027 \quad (-0.2\sigma)$	H_0	$68.5 \pm 1.3 \quad (+0.2\sigma)$	$100\theta_*$	$1.04144 \pm 0.00053 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04126 \pm 0.00055 \quad (+0.2\sigma)$	Ω_Λ	$0.700^{+0.018}_{-0.016} \quad (+0.2\sigma)$	$z_{\rm drag}$	$1060.16 \pm 0.59 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.055 \pm 0.020 \quad (+0.0\sigma)$	$\Omega_{\rm m}$	$0.300^{+0.016}_{-0.018} \quad (-0.2\sigma)$	$r_{\rm drag}$	$147.56 \pm 0.53 \quad (+0.2\sigma)$
$\boldsymbol{A_L}$	$1.21^{+0.10}_{-0.12} \quad (+0.2\sigma)$	$\Omega_{\rm m} h^2$	$0.1407 \pm 0.0025 \quad (-0.2\sigma)$	$k_{\rm D}$	$0.14052 \pm 0.00053 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.037 \pm 0.040 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.09638 \pm 0.00050 \quad (+0.1\sigma)$	$100\theta_{\rm D}$	$0.16063 \pm 0.00032 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9728 \pm 0.0079 \quad (+0.5\sigma)$	σ_8	$0.801 \pm 0.018 \quad (-0.1\sigma)$	$z_{\rm eq}$	$3346 \pm 59 \quad (-0.2\sigma)$
$\boldsymbol{y_{cal}}$	$0.9999 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.439 \pm 0.019 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.824 \pm 0.012 \quad (+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$237 \pm 23 \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.593 \pm 0.019 \quad (-0.2\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07226 \pm 0.00096 \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$35 \pm 8 \quad (-0.7\sigma)$	$\sigma_8/h^{0.5}$	$0.968 \pm 0.028 \quad (-0.2\sigma)$	$H(0.57)$	$93.47 \pm 0.59 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.633 \pm 0.078 \quad (-0.0\sigma)$	$D_{\rm A}(0.57)$	$1375 \pm 17 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$43 \pm 7 \quad (-2.8\sigma)$	$z_{\rm re}$	$7.53^{+2.4}_{-1.8} \quad (+0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6731 \pm 0.0042 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.66^{+1.8}_{-2.4} \quad (-0.9\sigma)$	$10^9 A_{\rm s}$	$2.085 \pm 0.083 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.463 \pm 0.013 \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s} e^{-2\tau}$	$1.867 \pm 0.015 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.599 \pm 0.012 \quad (-0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	$1212 \pm 19 \quad (-0.6\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24638 \pm 0.00013 \quad (-2.9\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.51^{+1.5}_{-4.5} \quad (+0.6\sigma)$	D_{220}	$5720 \pm 42 \quad (-0.5\sigma)$	f_{2000}^{143}	$26 \pm 3 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	$2524 \pm 14 \quad (-0.4\sigma)$	f_{2000}^{217}	$104.3 \pm 2.4 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	$813.3 \pm 5.0 \quad (-0.0\sigma)$	$f_{2000}^{143\times217}$	$29.3 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	$n_{\rm s,0.002}$	$0.9728 \pm 0.0079 \quad (+0.5\sigma)$	$\chi^2_{\rm lowEB}$	$5431.7 \pm 1.2 \quad (+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$Y_{\rm P}$	$0.24505 \pm 0.00013 \quad (-3.0\sigma)$	$\chi^2_{\rm CamSpec}$	8057.8 ± 5.7
$\boldsymbol{c_{100}}$	$0.99687 \pm 0.00096 \quad (-1.4\sigma)$	Age/Gyr	$13.757 \pm 0.053 \quad (-0.2\sigma)$	$\chi^2_{\rm prior}$	$8.30 \pm 3.4 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9968 \pm 0.0018 \quad (+0.8\sigma)$	z_*	$1089.46 \pm 0.57 \quad (-0.2\sigma)$	$\chi^2_{\rm CMB}$	$13489.5 \pm 5.8 \quad (+1286.1\sigma)$

$\bar{\chi}^2_{\rm eff} = 13497.81$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.79$; $R - 1 = 0.01106$

3.33 base_Alens_CamSpecHM_TTTEEE_lowEB

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02248 ± 0.00018 $(+0.7\sigma)$	H_0	68.01 ± 0.74 $(+0.5\sigma)$	$100\theta_*$	1.04111 ± 0.00031 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1184 ± 0.0016 (-0.5σ)	Ω_Λ	0.6939 ± 0.0097 $(+0.5\sigma)$	D_A/Gpc	13.905 ± 0.031 $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04094 ± 0.00032 $(+0.2\sigma)$	Ω_m	0.3061 ± 0.0097 (-0.5σ)	z_{drag}	1060.07 ± 0.36 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.054 ± 0.020 $(+0.0\sigma)$	$\Omega_m h^2$	0.1415 ± 0.0015 (-0.4σ)	r_{drag}	147.40 ± 0.33 $(+0.2\sigma)$
$\boldsymbol{A_L}$	1.135 ± 0.079 (-0.1σ)	$\Omega_m h^3$	0.09625 ± 0.00031 $(+0.4\sigma)$	k_D	0.14063 ± 0.00034 $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.037 ± 0.040 (-0.1σ)	σ_8	0.804 ± 0.017 (-0.2σ)	$100\theta_D$	0.16067 ± 0.00020 (-0.6σ)
$\boldsymbol{n_s}$	0.9693 ± 0.0052 $(+0.8\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.445 ± 0.013 (-0.4σ)	z_{eq}	3367 ± 35 (-0.4σ)
$\boldsymbol{y_{cal}}$	0.9999 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_m^{0.25}$	0.598 ± 0.015 (-0.3σ)	k_{eq}	0.01028 ± 0.00011 (-0.4σ)
$\boldsymbol{A_{100}^{PS}}$	241 ± 23 (-0.6σ)	$\sigma_8/h^{0.5}$	0.975 ± 0.023 (-0.3σ)	$100\theta_{eq}$	0.8201 ± 0.0069 $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	37 ± 8 (-0.7σ)	$\langle d^2 \rangle^{1/2}$	2.566 ± 0.062 (-0.6σ)	$100\theta_{s,eq}$	0.4528 ± 0.0035 $(+0.4\sigma)$
$\boldsymbol{A_{217}^{PS}}$	100 ± 10 $(+0.1\sigma)$	z_{re}	$7.46^{+2.4}_{-1.8}$ (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07186 ± 0.00055 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	44 ± 7 (-2.8σ)	$10^9 A_s$	2.086 ± 0.083 (-0.1σ)	$H(0.57)$	93.22 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.56^{+1.7}_{-2.4}$ (-1.0σ)	$10^9 A_s e^{-2\tau}$	1.871 ± 0.012 (-0.7σ)	$D_A(0.57)$	1382.0 ± 9.8 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	D_{40}	1219 ± 15 (-0.8σ)	$F_{AP}(0.57)$	0.6746 ± 0.0025 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	5722 ± 39 (-0.5σ)	$f\sigma_8(0.57)$	0.466 ± 0.011 (-0.3σ)
$\boldsymbol{A^{kSZ}}$	$4.77^{+2.7}_{-3.5}$ $(+0.8\sigma)$	D_{810}	2526 ± 14 (-0.3σ)	$\sigma_8(0.57)$	0.599 ± 0.012 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	813.3 ± 4.8 $(+0.1\sigma)$	f_{2000}^{143}	27.3 ± 2.8 (-0.5σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{2000}	231.1 ± 1.7 $(+0.2\sigma)$	f_{2000}^{217}	105.2 ± 2.0 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.11	$n_{s,0.002}$	0.9693 ± 0.0052 $(+0.8\sigma)$	$f_{2000}^{143\times217}$	30.3 ± 2.1 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Y_P	0.245440 ± 0.000081 $(+0.7\sigma)$	χ^2_{lowEB}	5431.7 ± 1.2 $(+0.0\sigma)$
$\boldsymbol{c_{100}}$	0.99687 ± 0.00098 (-1.7σ)	Y_P^{BBN}	0.246766 ± 0.000081 $(+0.7\sigma)$	$\chi^2_{CamSpec}$	12951.7 ± 5.9
$\boldsymbol{c_{217}}$	0.9969 ± 0.0018 $(+0.7\sigma)$	10^5D/H	2.572 ± 0.034 (-0.7σ)	χ^2_{prior}	8.71 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0021 ± 0.0047	Age/Gyr	13.779 ± 0.029 (-0.6σ)	χ^2_{CMB}	18383.4 ± 6.0 $(+1553.1\sigma)$
$\boldsymbol{c_{EE}}$	1.0005 ± 0.0042	z_*	1089.65 ± 0.34 (-0.6σ)		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	144.76 ± 0.34 $(+0.3\sigma)$		

$\bar{\chi}^2_{eff} = 18392.15$; $\Delta\bar{\chi}^2_{eff} = 10492.46$; $R - 1 = 0.01144$

3.34 base_Alens_plikHM_TT_tau07

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022581	0.02252 ± 0.00030	Ω_Λ	0.6990	$0.697^{+0.018}_{-0.016}$	r_*	144.86	144.84 ± 0.55
$\boldsymbol{\Omega_c h^2}$	0.11773	0.1180 ± 0.0026	Ω_m	0.3010	$0.303^{+0.016}_{-0.018}$	$100\theta_*$	1.04139	1.04135 ± 0.00052
$\boldsymbol{100\theta_{MC}}$	1.04123	1.04118 ± 0.00054	$\Omega_m h^2$	0.14096	0.1412 ± 0.0024	D_A/Gpc	13.910	13.909 ± 0.050
$\boldsymbol{\tau}$	0.0722	0.071 ± 0.020	$\Omega_m h^3$	0.096465	0.09636 ± 0.00050	z_{drag}	1060.28	1060.13 ± 0.56
$\boldsymbol{A_L}$	1.175	$1.162^{+0.099}_{-0.11}$	σ_8	0.8174	0.817 ± 0.019	r_{drag}	147.46	147.46 ± 0.53
$\boldsymbol{\ln(10^{10} A_s)}$	3.0750	3.073 ± 0.040	$\sigma_8 \Omega_m^{0.5}$	0.4484	0.450 ± 0.019	k_D	0.14064	0.14058 ± 0.00053
$\boldsymbol{n_s}$	0.9717	0.9697 ± 0.0077	$\sigma_8 \Omega_m^{0.25}$	0.6054	0.606 ± 0.019	$100\theta_D$	0.160591	0.16067 ± 0.00031
$\boldsymbol{A_{217}^{CIB}}$	60.8	62.0 ± 6.7	$\sigma_8/h^{0.5}$	0.9880	0.989 ± 0.028	z_{eq}	3353	3358 ± 59
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.57	—	$\langle d^2 \rangle^{1/2}$	2.650	2.635 ± 0.077	k_{eq}	0.010234	0.01025 ± 0.00018
$\boldsymbol{A_{143}^{tSZ}}$	6.93	$5.50^{+2.1}_{-1.9}$	z_{re}	9.32	$9.14^{+2.1}_{-1.7}$	$100\theta_{eq}$	0.8230	0.822 ± 0.012
$\boldsymbol{A_{100}^{PS}}$	241.1	251 ± 30	$10^9 A_s$	2.165	2.161 ± 0.086	$100\theta_{s,eq}$	0.4543	0.4539 ± 0.0059
$\boldsymbol{A_{143}^{PS}}$	42.1	40 ± 8	$10^9 A_s e^{-2\tau}$	1.8737	1.874 ± 0.015	$r_{drag}/D_V(0.57)$	0.07215	0.07207 ± 0.00094
$\boldsymbol{A_{143\times217}^{PS}}$	45.7	38 ± 10	D_{40}	1222.9	1228 ± 20	$H(0.57)$	93.44	$93.37^{+0.55}_{-0.61}$
$\boldsymbol{A_{217}^{PS}}$	103.9	97.8 ± 11	D_{220}	5741.1	5741 ± 42	$D_A(0.57)$	1376.0	1378 ± 17
$\boldsymbol{A^{kSZ}}$	0.02	< 3.69	D_{810}	2530.3	2528 ± 14	$F_{AP}(0.57)$	0.67334	0.6739 ± 0.0042
$\boldsymbol{A_{100}^{dustTT}}$	7.19	7.38 ± 1.9	D_{1420}	815.0	813.5 ± 5.0	$f\sigma_8(0.57)$	0.4725	0.473 ± 0.014
$\boldsymbol{A_{143}^{dustTT}}$	8.93	8.92 ± 1.8	D_{2000}	232.52	231.7 ± 2.1	$\sigma_8(0.57)$	0.6106	0.610 ± 0.013
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.05	16.8 ± 4.2	$n_{s,0.002}$	0.9717	0.9697 ± 0.0077	f_{2000}^{143}	26.20	28 ± 3
$\boldsymbol{A_{217}^{dustTT}}$	82.8	81.5 ± 7.4	Y_P	0.245486	0.24546 ± 0.00013	$f_{2000}^{143\times217}$	29.66	30.4 ± 2.5
$\boldsymbol{c_{100}}$	0.99802	0.99793 ± 0.00077	Y_P^{BBN}	0.246812	0.24678 ± 0.00013	f_{2000}^{217}	103.41	104.2 ± 2.3
$\boldsymbol{c_{217}}$	0.99553	0.9956 ± 0.0015	10^5D/H	2.552	2.565 ± 0.055	χ^2_{plik}	760.3	774.8 ± 5.5
$\boldsymbol{y_{cal}}$	1.00005	1.0000 ± 0.0025	Age/Gyr	13.757	13.766 ± 0.051	χ^2_{prior}	1.47	8.09 ± 3.7
H_0	68.44	68.3 ± 1.3	z_*	1089.46	1089.57 ± 0.55			

Best-fit $\chi^2_{eff} = 761.79$; $\bar{\chi}^2_{eff} = 782.92$; $R - 1 = 0.00510$
χ^2_{eff}: CMB - plik_dx11dr2_HM_v18_TT: 760.32

3.35 base_Alens_plikHM_TTTEEE_tau07

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022394	0.02235 ± 0.00018	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.304 ± 0.084	Y_P^{BBN}	0.246730	0.246711 ± 0.000081
$\boldsymbol{\Omega_c h^2}$	0.11889	0.1192 ± 0.0016	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.154 ± 0.053	10^5D/H	2.5868	2.595 ± 0.034
$\boldsymbol{100\theta_{MC}}$	1.040886	1.04086 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.334	0.334 ± 0.080	Age/Gyr	13.7915	13.797 ± 0.030
$\boldsymbol{\tau}$	0.0708	0.070 ± 0.020	$\boldsymbol{A^{dustTE}_{217}}$	1.654	1.66 ± 0.26	z_*	1089.792	1089.87 ± 0.34
$\boldsymbol{A_L}$	1.117	1.107 ± 0.075	$\boldsymbol{c_{100}}$	0.99828	0.99821 ± 0.00077	r_*	144.701	144.66 ± 0.35
$\boldsymbol{\ln(10^{10}A_s)}$	3.0749	3.074 ± 0.040	$\boldsymbol{c_{217}}$	0.99568	0.9958 ± 0.0014	$100\theta_*$	1.041065	1.04105 ± 0.00033
$\boldsymbol{n_s}$	0.9672	0.9652 ± 0.0053	$\boldsymbol{y_{cal}}$	0.99987	1.0001 ± 0.0025	D_A/Gpc	13.8993	13.895 ± 0.032
$\boldsymbol{A^{CIB}_{217}}$	62.0	62.9 ± 6.6	H_0	67.75	67.61 ± 0.75	z_{drag}	1059.895	1059.84 ± 0.35
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.58	—	Ω_Λ	0.6908	0.689 ± 0.010	r_{drag}	147.361	147.33 ± 0.33
$\boldsymbol{A^{tSZ}_{143}}$	6.83	5.46 ± 1.9	Ω_m	0.3092	0.311 ± 0.010	k_D	0.140602	0.14060 ± 0.00034
$\boldsymbol{A^{PS}_{100}}$	249.1	257 ± 28	$\Omega_m h^2$	0.14193	0.1422 ± 0.0015	$100\theta_D$	0.160755	0.16080 ± 0.00020
$\boldsymbol{A^{PS}_{143}}$	45.3	42 ± 8	$\Omega_m h^3$	0.096158	0.09612 ± 0.00031	z_{eq}	3376.2	3382 ± 36
$\boldsymbol{A^{PS}_{143\times217}}$	48.2	40 ± 10	σ_8	0.8204	0.821 ± 0.017	k_{eq}	0.010305	0.01032 ± 0.00011
$\boldsymbol{A^{PS}_{217}}$	104.4	98 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4562	0.458 ± 0.014	$100\theta_{eq}$	0.8180	0.8168 ± 0.0070
$\boldsymbol{A^{kSZ}}$	0.00	< 3.75	$\sigma_8\Omega_m^{0.25}$	0.6118	0.613 ± 0.015	$100\theta_{s,eq}$	0.45182	0.4512 ± 0.0036
$\boldsymbol{A^{dustTT}_{100}}$	7.27	7.36 ± 1.9	$\sigma_8/h^{0.5}$	0.9968	0.998 ± 0.024	$r_{drag}/D_V(0.57)$	0.07169	0.07159 ± 0.00056
$\boldsymbol{A^{dustTT}_{143}}$	8.85	8.85 ± 1.8	$\langle d^2\rangle^{1/2}$	2.607	2.600 ± 0.058	$H(0.57)$	93.089	93.03 ± 0.33
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.80	16.7 ± 4.1	z_{re}	9.27	$9.14^{+2.1}_{-1.7}$	$D_A(0.57)$	1385.5	1387 ± 10
$\boldsymbol{A^{dustTT}_{217}}$	82.2	81.3 ± 7.4	$10^9 A_s$	2.165	2.165 ± 0.086	$F_{AP}(0.57)$	0.67545	0.6759 ± 0.0026
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0812 ± 0.0057	$10^9 A_s e^{-2\tau}$	1.8787	1.880 ± 0.012	$f\sigma_8(0.57)$	0.4764	0.477 ± 0.011
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0490	0.0487 ± 0.0050	D_{40}	1232.0	1238 ± 16	$\sigma_8(0.57)$	0.6109	0.611 ± 0.012
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0990	0.099 ± 0.032	D_{220}	5736.7	5741 ± 39	f^{143}_{2000}	27.53	28.6 ± 2.8
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.09997 ± 0.0069	D_{810}	2531.9	2531 ± 14	$f^{143\times217}_{2000}$	30.90	31.4 ± 2.0
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2238	0.223 ± 0.047	D_{1420}	813.89	813.0 ± 4.8	f^{217}_{2000}	104.34	105.1 ± 2.0
$\boldsymbol{A^{dustEE}_{217}}$	0.649	0.65 ± 0.13	D_{2000}	231.32	230.8 ± 1.7	χ^2_{plik}	2429.2	2448.9 ± 6.6
$\boldsymbol{A^{dustTE}_{100}}$	0.1406	0.141 ± 0.038	$n_{s,0.002}$	0.9672	0.9652 ± 0.0053	χ^2_{prior}	6.46	20 ± 6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1309	0.131 ± 0.029	Y_P	0.245403	0.245384 ± 0.000080			

Best-fit $\chi^2_{eff} = 2435.69$; $\bar{\chi}^2_{eff} = 2468.93$; $R - 1 = 0.00687$
χ^2_{eff}: CMB - plik_dx11dr2_HM_v18_TTTEEE: 2429.23

3.36 base_Alens_CamSpecHM_TT_tau07

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02254 ± 0.00030 $(+0.1\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	144.93 ± 0.56 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1176 ± 0.0027 (-0.2σ)	H_0	68.5 ± 1.3 $(+0.2\sigma)$	$100\theta_*$	1.04144 ± 0.00052 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04126 ± 0.00054 $(+0.1\sigma)$	Ω_Λ	0.699 ± 0.016 $(+0.2\sigma)$	z_{drag}	1060.14 ± 0.57 $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.071 ± 0.020 (-0.0σ)	Ω_m	0.301 ± 0.016 (-0.2σ)	r_{drag}	147.55 ± 0.53 $(+0.2\sigma)$
$\boldsymbol{A_L}$	$1.173^{+0.098}_{-0.11}$ $(+0.1\sigma)$	$\Omega_m h^2$	0.1408 ± 0.0025 (-0.2σ)	k_D	0.14053 ± 0.00052 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.069 ± 0.040 (-0.1σ)	$\Omega_m h^3$	0.09637 ± 0.00049 $(+0.0\sigma)$	$100\theta_D$	0.16064 ± 0.00031 (-0.1σ)
$\boldsymbol{n_s}$	0.9727 ± 0.0078 $(+0.4\sigma)$	σ_8	0.815 ± 0.019 (-0.1σ)	z_{eq}	3348 ± 59 (-0.2σ)
$\boldsymbol{A_{100}^{PS}}$	238 ± 23 (-0.5σ)	$\sigma_8 \Omega_m^{0.5}$	0.447 ± 0.019 (-0.2σ)	$100\theta_{eq}$	0.824 ± 0.012 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35 ± 8 (-0.6σ)	$\sigma_8 \Omega_m^{0.25}$	0.603 ± 0.019 (-0.2σ)	$r_{drag}/D_V(0.57)$	0.07222 ± 0.00095 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	100 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.985 ± 0.029 (-0.1σ)	$H(0.57)$	$93.45^{+0.54}_{-0.63}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	43 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.630 ± 0.076 (-0.1σ)	$D_A(0.57)$	1376 ± 17 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.66^{+1.8}_{-2.4}$ (-1.0σ)	z_{re}	$9.10^{+2.1}_{-1.7}$ (-0.0σ)	$F_{AP}(0.57)$	0.6732 ± 0.0042 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9 A_s$	2.153 ± 0.086 (-0.1σ)	$f\sigma_8(0.57)$	0.471 ± 0.014 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s e^{-2\tau}$	1.868 ± 0.015 (-0.4σ)	$\sigma_8(0.57)$	0.609 ± 0.013 (-0.1σ)
$\boldsymbol{A^{kSZ}}$	$4.53^{+1.6}_{-4.4}$ $(+0.7\sigma)$	D_{40}	1217 ± 20 (-0.5σ)	Y_P^{BBN}	0.24637 ± 0.00013 (-3.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	5719 ± 42 (-0.5σ)	f_{2000}^{143}	26 ± 3 (-0.4σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2524 ± 14 (-0.3σ)	f_{2000}^{217}	104.4 ± 2.4 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	D_{1420}	813.4 ± 5.1 (-0.0σ)	$f_{2000}^{143\times217}$	29.4 ± 2.6 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$n_{s,0.002}$	0.9727 ± 0.0078 $(+0.4\sigma)$	$\chi^2_{CamSpec}$	8057.5 ± 5.6
$\boldsymbol{y_{cal}}$	0.9999 ± 0.0025 (-0.0σ)	Y_P	0.24505 ± 0.00013 (-3.1σ)	χ^2_{prior}	9.30 ± 3.7 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99689 ± 0.00097 (-1.4σ)	Age/Gyr	$13.759^{+0.055}_{-0.050}$ (-0.1σ)		
$\boldsymbol{c_{217}}$	0.9968 ± 0.0018 $(+0.8\sigma)$	z_*	1089.48 ± 0.56 (-0.2σ)		

$\bar{\chi}^2_{eff} = 8066.84$; $\Delta\bar{\chi}^2_{eff} = 7283.92$; $R - 1 = 0.00680$

3.37 base_Alens_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022329	0.02233 ± 0.00026	Ω_m	0.3027	0.302 ± 0.015	D_A/Gpc	13.9284	13.931 ± 0.047
$\boldsymbol{\Omega_c h^2}$	0.11777	0.1177 ± 0.0024	$\Omega_m h^2$	0.14074	0.1406 ± 0.0022	z_{drag}	1059.67	1059.66 ± 0.50
$\boldsymbol{100\theta_{MC}}$	1.04115	1.04116 ± 0.00051	$\Omega_m h^3$	0.095969	0.09594 ± 0.00046	r_{drag}	147.732	147.76 ± 0.50
$\boldsymbol{\tau}$	0.0596	0.058 ± 0.020	σ_8	0.8069	0.805 ± 0.018	k_D	0.14016	0.14012 ± 0.00050
$\boldsymbol{A_L}$	1.033	$1.039^{+0.057}_{-0.066}$	$\sigma_8\Omega_m^{0.5}$	0.4439	0.443 ± 0.017	$100\theta_D$	0.160921	0.16094 ± 0.00028
$\boldsymbol{\ln(10^{10}A_s)}$	3.0476	3.045 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.5985	0.597 ± 0.017	z_{eq}	3348	3345 ± 53
$\boldsymbol{n_s}$	0.9699	0.9699 ± 0.0069	$\sigma_8/h^{0.5}$	0.9771	0.975 ± 0.026	k_{eq}	0.010218	0.01021 ± 0.00016
$\boldsymbol{y_{cal}}$	0.99994	1.0000 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4569	2.457 ± 0.030	$100\theta_{eq}$	0.8232	0.824 ± 0.011
$\boldsymbol{A_{217}^{CIB}}$	67.3	64.2 ± 6.7	z_{re}	8.18	$7.94^{+2.3}_{-1.9}$	$100\theta_{s,eq}$	0.4546	0.4549 ± 0.0054
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.107	2.103 ± 0.085	$r_{drag}/D_V(0.57)$	0.07209	0.07214 ± 0.00085
$\boldsymbol{A_{143}^{tSZ}}$	7.23	5.13 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8699	1.870 ± 0.014	$H(0.57)$	93.23	$93.25^{+0.48}_{-0.54}$
$\boldsymbol{A_{100}^{PS}}$	253.0	259 ± 28	D_{40}	1218.1	1219 ± 17	$D_A(0.57)$	1380.1	1380 ± 15
$\boldsymbol{A_{143}^{PS}}$	38.4	43 ± 8	D_{220}	5717.7	5720 ± 41	$F_{AP}(0.57)$	0.67378	0.6737 ± 0.0038
$\boldsymbol{A_{143\times217}^{PS}}$	32.2	38^{+10}_{-10}	D_{810}	2530.5	2530 ± 14	$f\sigma_8(0.57)$	0.4669	0.466 ± 0.012
$\boldsymbol{A_{217}^{PS}}$	96.8	96 ± 10	D_{1420}	814.8	814.6 ± 5.1	$\sigma_8(0.57)$	0.6024	0.601 ± 0.012
$\boldsymbol{A^{kSZ}}$	0.00	< 4.83	D_{2000}	230.37	230.3 ± 1.9	f_{2000}^{143}	29.64	30.0 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.48 ± 1.9	$n_{s,0.002}$	0.9699	0.9699 ± 0.0069	$f_{2000}^{143\times217}$	32.29	32.4 ± 2.2
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.07 ± 1.8	Y_P	0.245375	0.24537 ± 0.00012	f_{2000}^{217}	105.86	106.0 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.67	17.2 ± 4.2	Y_P^{BBN}	0.246701	0.24670 ± 0.00012	$\chi^2_{lensing}$	9.58	10.4 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	10^5D/H	2.5991	2.600 ± 0.049	χ^2_{lowTEB}	10494.28	10495.4 ± 1.8
$\boldsymbol{c_{100}}$	0.99790	0.99788 ± 0.00078	Age/Gyr	13.7850	13.784 ± 0.045	χ^2_{plik}	766.1	779.7 ± 5.7
$\boldsymbol{c_{217}}$	0.99597	0.9959 ± 0.0015	z_*	1089.778	1089.77 ± 0.49	χ^2_{prior}	2.14	7.40 ± 3.6
H_0	68.19	68.2 ± 1.1	r_*	145.04	145.07 ± 0.52	χ^2_{CMB}	11269.9	11285.5 ± 5.6
Ω_Λ	0.6973	0.698 ± 0.015	$100\theta_*$	1.041343	1.04135 ± 0.00050			

Best-fit $\chi^2_{eff} = 11272.06$; $\bar{\chi}^2_{eff} = 11292.95$; $R - 1 = 0.00683$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.58 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.28 plik_dx11dr2_HM_v18_TT: 766.06

3.38 base_Alens_plikHM_TT_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022267	0.02227 ± 0.00020	$\Omega_m h^3$	0.095910	0.09592 ± 0.00045	$100\theta_D$	0.160973	0.16098 ± 0.00026
$\boldsymbol{\Omega_c h^2}$	0.11838	0.1184 ± 0.0013	σ_8	0.8075	0.808 ± 0.017	z_{eq}	3361.0	3361 ± 30
$\boldsymbol{100\theta_{MC}}$	1.041043	1.04106 ± 0.00042	$\sigma_8\Omega_m^{0.5}$	0.4472	0.447 ± 0.012	k_{eq}	0.010258	0.010257 ± 0.000090
$\boldsymbol{\tau}$	0.0577	0.058 ± 0.020	$\sigma_8\Omega_m^{0.25}$	0.6009	0.601 ± 0.014	$100\theta_{eq}$	0.8205	0.8207 ± 0.0056
$\boldsymbol{A_L}$	1.027	1.028 ± 0.051	$\sigma_8/h^{0.5}$	0.9801	0.980 ± 0.022	$100\theta_{s,eq}$	0.45325	0.4533 ± 0.0029
$\boldsymbol{\ln(10^{10}A_s)}$	3.0447	3.045 ± 0.040	$\langle d^2\rangle^{1/2}$	2.4554	2.456 ± 0.029	$r_{drag}/D_V(0.57)$	0.071865	0.07188 ± 0.00045
$\boldsymbol{n_s}$	0.96847	0.9681 ± 0.0046	z_{re}	8.02	$7.88^{+2.3}_{-1.9}$	$H(0.57)$	93.086	93.10 ± 0.29
$\boldsymbol{y_{cal}}$	0.99977	1.0001 ± 0.0025	$10^9 A_s$	2.100	2.103 ± 0.085	$D_A(0.57)$	1384.2	1384.0 ± 8.2
$\boldsymbol{A_{217}^{CIB}}$	67.6	64.5 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8715	1.873 ± 0.012	$F_{AP}(0.57)$	0.67479	0.6748 ± 0.0020
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1219.9	1223 ± 14	$f\sigma_8(0.57)$	0.4683	0.468 ± 0.010
$\boldsymbol{A_{143}^{tSZ}}$	7.19	5.08 ± 1.9	D_{220}	5710.4	5717 ± 40	$\sigma_8(0.57)$	0.6019	0.602 ± 0.012
$\boldsymbol{A_{100}^{PS}}$	254.6	259 ± 28	D_{810}	2529.9	2531 ± 14	f_{2000}^{143}	30.09	30.4 ± 2.8
$\boldsymbol{A_{143}^{PS}}$	39.4	44 ± 8	D_{1420}	814.1	814.3 ± 5.0	$f_{2000}^{143\times217}$	32.62	32.7 ± 2.0
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39^{+10}_{-10}	D_{2000}	230.01	230.0 ± 1.7	f_{2000}^{217}	106.08	106.2 ± 2.0
$\boldsymbol{A_{217}^{PS}}$	96.7	96 ± 10	$n_{s,0.002}$	0.96847	0.9681 ± 0.0046	$\chi^2_{lensing}$	9.57	10.4 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.01	< 4.89	Y_P	0.245347	0.245346 ± 0.000092	χ^2_{lowTEB}	10494.51	10495.6 ± 1.6
$\boldsymbol{A_{100}^{dustTT}}$	7.48	7.44 ± 1.9	Y_P^{BBN}	0.246674	0.246672 ± 0.000093	χ^2_{plik}	766.0	778.9 ± 5.4
$\boldsymbol{A_{143}^{dustTT}}$	9.16	9.08 ± 1.8	10^5D/H	2.6108	2.611 ± 0.039	χ^2_{6DF}	0.0029	0.046 ± 0.065
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.84	17.2 ± 4.1	Age/Gyr	13.7974	13.796 ± 0.030	χ^2_{MGS}	1.54	1.64 ± 0.61
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.7 ± 7.3	z_*	1089.907	1089.90 ± 0.32	$\chi^2_{DR11CMASS}$	2.413	2.90 ± 0.71
$\boldsymbol{c_{100}}$	0.99790	0.99787 ± 0.00078	r_*	144.931	144.94 ± 0.32	$\chi^2_{DR11LOWZ}$	0.369	0.50 ± 0.50
$\boldsymbol{c_{217}}$	0.99602	0.9960 ± 0.0014	$100\theta_*$	1.041239	1.04126 ± 0.00041	χ^2_{prior}	2.13	7.40 ± 3.6
H_0	67.88	67.90 ± 0.60	D_A/Gpc	13.9191	13.919 ± 0.031	χ^2_{CMB}	11270.0	11284.9 ± 5.5
Ω_Λ	0.6934	0.6935 ± 0.0079	z_{drag}	1059.589	1059.58 ± 0.45	χ^2_{BAO}	4.32	5.09 ± 1.1
Ω_m	0.3066	0.3065 ± 0.0079	r_{drag}	147.637	147.64 ± 0.34			
$\Omega_m h^2$	0.14129	0.1413 ± 0.0012	k_D	0.140212	0.14021 ± 0.00043			

Best-fit $\chi^2_{eff} = 11276.49$; $\bar{\chi}^2_{eff} = 11297.40$; $R - 1 = 0.00707$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.41 DR11LOWZ: 0.37 CMB - smica_g30_ftl_full_pp: 9.57 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.51 plik_dx11dr2_HM_v18_TT: 765.96

3.39 base_Alens_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022293	0.02229 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.303 ± 0.084	Age/Gyr	13.8011	13.802 ± 0.028
$\boldsymbol{\Omega_c h^2}$	0.11891	0.1189 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.154 ± 0.054	z_*	1089.921	1089.93 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040905	1.04090 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.337 ± 0.080	r_*	144.773	144.78 ± 0.33
$\boldsymbol{\tau}$	0.0576	0.056 ± 0.020	$\boldsymbol{A^{dustTE}_{217}}$	1.656	1.66 ± 0.26	$100\theta_*$	1.041097	1.04109 ± 0.00032
$\boldsymbol{A_L}$	1.022	$1.025^{+0.051}_{-0.058}$	$\boldsymbol{c_{100}}$	0.99816	0.99813 ± 0.00077	D_A/Gpc	13.9058	13.906 ± 0.031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0469	3.044 ± 0.041	$\boldsymbol{c_{217}}$	0.99605	0.9961 ± 0.0014	z_{drag}	1059.666	1059.67 ± 0.32
$\boldsymbol{n_s}$	0.96646	0.9660 ± 0.0050	H_0	67.67	67.66 ± 0.70	r_{drag}	147.468	147.47 ± 0.32
$\boldsymbol{y_{cal}}$	0.99992	0.9999 ± 0.0025	Ω_Λ	0.6902	0.6900 ± 0.0094	k_D	0.140412	0.14040 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	67.6	64.6 ± 6.5	Ω_m	0.3098	0.3100 ± 0.0094	$100\theta_D$	0.160897	0.16091 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	$\Omega_m h^2$	0.14185	0.1419 ± 0.0014	z_{eq}	3374.2	3374 ± 34
$\boldsymbol{A^{tSZ}_{143}}$	7.32	5.27 ± 1.9	$\Omega_m h^3$	0.095985	0.09597 ± 0.00030	k_{eq}	0.010299	0.01030 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	256.6	262 ± 27	σ_8	0.8093	0.808 ± 0.017	$100\theta_{eq}$	0.8181	0.8181 ± 0.0066
$\boldsymbol{A^{PS}_{143}}$	38.8	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4505	0.450 ± 0.013	$100\theta_{s,eq}$	0.45194	0.4520 ± 0.0034
$\boldsymbol{A^{PS}_{143\times217}}$	33.4	39^{+10}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6038	0.603 ± 0.015	$r_{drag}/D_V(0.57)$	0.07167	0.07167 ± 0.00052
$\boldsymbol{A^{PS}_{217}}$	96.8	96 ± 10	$\sigma_8/h^{0.5}$	0.9839	0.982 ± 0.023	$H(0.57)$	93.017	93.02 ± 0.30
$\boldsymbol{A^{kSZ}}$	0.00	< 4.65	$\langle d^2\rangle^{1/2}$	2.4612	2.461 ± 0.028	$D_A(0.57)$	1386.9	1387.0 ± 9.3
$\boldsymbol{A^{dustTT}_{100}}$	7.45	7.49 ± 1.9	z_{re}	8.01	$7.72^{+2.4}_{-1.9}$	$F_{AP}(0.57)$	0.67559	0.6756 ± 0.0024
$\boldsymbol{A^{dustTT}_{143}}$	9.06	9.05 ± 1.8	$10^9 A_s$	2.105	2.100 ± 0.085	$f\sigma_8(0.57)$	0.4701	0.469 ± 0.011
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.60	17.2 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8760	1.876 ± 0.012	$\sigma_8(0.57)$	0.6025	0.601 ± 0.012
$\boldsymbol{A^{dustTT}_{217}}$	81.7	81.7 ± 7.4	D_{40}	1226.5	1228 ± 15	f^{143}_{2000}	29.66	30.1 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0814 ± 0.0056	D_{220}	5724.0	5725 ± 39	$f^{143\times217}_{2000}$	32.46	32.6 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04910	0.0491 ± 0.0050	D_{810}	2532.8	2532 ± 14	f^{217}_{2000}	105.98	106.1 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0984	0.0999 ± 0.032	D_{1420}	814.58	814.2 ± 4.8	$\chi^2_{lensing}$	10.22	10.9 ± 2.4
$\boldsymbol{A^{dustEE}_{143}}$	0.1008	0.1004 ± 0.0069	D_{2000}	230.13	230.0 ± 1.6	χ^2_{lowTEB}	10495.01	10496.1 ± 1.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2240	0.224 ± 0.047	$n_{s,0.002}$	0.96646	0.9660 ± 0.0050	χ^2_{plik}	2434.6	2453.4 ± 6.8
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	Y_P	0.245359	0.245355 ± 0.000075	χ^2_{prior}	7.18	19.6 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1407	0.141 ± 0.038	Y_P^{BBN}	0.246685	0.246681 ± 0.000075	χ^2_{CMB}	12939.8	12960.5 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1302	0.132 ± 0.029	10^5D/H	2.6059	2.607 ± 0.031			

Best-fit $\chi^2_{eff} = 12947.00$; $\bar{\chi}^2_{eff} = 12980.03$; $R - 1 = 0.01280$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 10.22 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.01 plik_dx11dr2_HM_v18_TTTEEE: 2434.59

3.40 base_Alens_plikHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022295	0.02230 ± 0.00014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.337 ± 0.080	D_A/Gpc	13.9083	13.909 ± 0.024
$\boldsymbol{\Omega_c h^2}$	0.11879	0.1188 ± 0.0011	$\boldsymbol{A^{dustTE}_{217}}$	1.658	1.66 ± 0.26	z_{drag}	1059.666	1059.68 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040918	1.04092 ± 0.00030	$\boldsymbol{c_{100}}$	0.99815	0.99813 ± 0.00078	r_{drag}	147.496	147.50 ± 0.25
$\boldsymbol{\tau}$	0.0577	0.056 ± 0.020	$\boldsymbol{c_{217}}$	0.99606	0.9960 ± 0.0015	k_D	0.140384	0.14038 ± 0.00029
$\boldsymbol{A_L}$	1.023	1.027 ± 0.051	H_0	67.717	67.73 ± 0.50	$100\theta_D$	0.160901	0.16090 ± 0.00018
$\boldsymbol{\ln(10^{10}A_s)}$	3.0469	3.044 ± 0.041	Ω_Λ	0.6909	0.6911 ± 0.0067	z_{eq}	3371.5	3371 ± 25
$\boldsymbol{n_s}$	0.96658	0.9664 ± 0.0041	Ω_m	0.3091	0.3089 ± 0.0067	k_{eq}	0.010290	0.010288 ± 0.000075
$\boldsymbol{y_{cal}}$	0.99996	0.99997 ± 0.0025	$\Omega_m h^2$	0.14173	0.1417 ± 0.0010	$100\theta_{eq}$	0.81860	0.8188 ± 0.0047
$\boldsymbol{A^{CIB}_{217}}$	67.9	64.5 ± 6.5	$\Omega_m h^3$	0.095976	0.09598 ± 0.00030	$100\theta_{s,eq}$	0.45221	0.4523 ± 0.0024
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	σ_8	0.8090	0.808 ± 0.017	$r_{drag}/D_V(0.57)$	0.071712	0.07173 ± 0.00037
$\boldsymbol{A^{tSZ}_{143}}$	7.36	5.26 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4498	0.449 ± 0.011	$H(0.57)$	93.034	93.04 ± 0.23
$\boldsymbol{A^{PS}_{100}}$	256.2	262 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6032	0.602 ± 0.014	$D_A(0.57)$	1386.3	1386.1 ± 6.7
$\boldsymbol{A^{PS}_{143}}$	38.3	43 ± 8	$\sigma_8/h^{0.5}$	0.9831	0.981 ± 0.022	$F_{AP}(0.57)$	0.67542	0.6754 ± 0.0017
$\boldsymbol{A^{PS}_{143\times217}}$	32.6	39^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4612	2.461 ± 0.028	$f\sigma_8(0.57)$	0.4698	0.469 ± 0.010
$\boldsymbol{A^{PS}_{217}}$	96.3	96 ± 10	z_{re}	8.02	$7.74^{+2.4}_{-1.9}$	$\sigma_8(0.57)$	0.6024	0.601 ± 0.012
$\boldsymbol{A^{kSZ}}$	0.00	< 4.60	$10^9 A_s$	2.105	2.100 ± 0.086	f^{143}_{2000}	29.69	30.0 ± 2.6
$\boldsymbol{A^{dustTT}_{100}}$	7.49	7.48 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8755	1.875 ± 0.011	$f^{143\times217}_{2000}$	32.51	32.6 ± 1.9
$\boldsymbol{A^{dustTT}_{143}}$	9.03	9.07 ± 1.8	D_{40}	1226.3	1227 ± 14	f^{217}_{2000}	106.02	106.1 ± 1.8
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.57	17.2 ± 4.1	D_{220}	5725.0	5726 ± 38	$\chi^2_{lensing}$	10.16	10.9 ± 2.4
$\boldsymbol{A^{dustTT}_{217}}$	81.7	81.7 ± 7.3	D_{810}	2532.6	2532 ± 14	χ^2_{lowTEB}	10494.98	10496.0 ± 1.6
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0816 ± 0.0056	D_{1420}	814.51	814.3 ± 4.8	χ^2_{plik}	2434.7	2453.1 ± 6.8
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0490	0.0491 ± 0.0049	D_{2000}	230.11	230.0 ± 1.6	χ^2_{6DF}	0.0154	0.045 ± 0.059
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0996	0.0996 ± 0.032	$n_{s,0.002}$	0.96658	0.9664 ± 0.0041	χ^2_{MGS}	1.34	1.42 ± 0.49
$\boldsymbol{A^{dustEE}_{143}}$	0.1005	0.1004 ± 0.0068	Y_P	0.245360	0.245361 ± 0.000065	$\chi^2_{DR11CMASS}$	2.424	2.76 ± 0.49
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2233	0.223 ± 0.047	Y_P^{BBN}	0.246686	0.246687 ± 0.000065	$\chi^2_{DR11LOWZ}$	0.543	0.63 ± 0.49
$\boldsymbol{A^{dustEE}_{217}}$	0.656	0.65 ± 0.13	10^5D/H	2.6055	2.605 ± 0.027	χ^2_{prior}	7.19	19.6 ± 5.4
$\boldsymbol{A^{dustTE}_{100}}$	0.1398	0.141 ± 0.038	Age/Gyr	13.8000	13.799 ± 0.022	χ^2_{CMB}	12939.8	12960.0 ± 6.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1309	0.132 ± 0.029	z_*	1089.907	1089.90 ± 0.24	χ^2_{BAO}	4.325	4.86 ± 0.73
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.304 ± 0.083	r_*	144.801	144.81 ± 0.25			
$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.154 ± 0.054	$100\theta_*$	1.041112	1.04111 ± 0.00030			

Best-fit $\chi^2_{eff} = 12951.33$; $\bar{\chi}^2_{eff} = 12984.50$; $R - 1 = 0.01770$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.42 DR11LOWZ: 0.54 CMB - smica_g30_ftl_full_pp: 10.16 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.98

plik_dx11dr2_HM_v18_TTTEEE: 2434.67

3.41 base_Alens_CamSpecHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022295	0.02236 ± 0.00026 $(+0.1\sigma)$	H_0	68.20	68.4 ± 1.1 $(+0.1\sigma)$	$z_{\rm drag}$	1059.59	1059.71 ± 0.50 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11767	0.1174 ± 0.0024 (-0.1σ)	Ω_Λ	0.6977	$0.699^{+0.016}_{-0.014}$ $(+0.1\sigma)$	$r_{\rm drag}$	147.80	147.79 ± 0.50 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04115	1.04123 ± 0.00052 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3023	$0.301^{+0.014}_{-0.016}$ (-0.1σ)	$k_{\rm D}$	0.140086	0.14014 ± 0.00051 $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.0600	0.059 ± 0.021 $(+0.0\sigma)$	$\Omega_{\rm m} h^2$	0.14061	0.1404 ± 0.0023 (-0.1σ)	$100\theta_{\rm D}$	0.160953	0.16089 ± 0.00028 (-0.2σ)
$\boldsymbol{A_L}$	1.036	$1.049^{+0.060}_{-0.068}$ $(+0.2\sigma)$	$\Omega_{\rm m} h^3$	0.095890	0.09600 ± 0.00046 $(+0.1\sigma)$	$z_{\rm eq}$	3345	3341 ± 54 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0462	3.043 ± 0.041 (-0.0σ)	σ_8	0.8064	0.805 ± 0.018 (-0.0σ)	$100\theta_{\rm eq}$	0.8237	0.825 ± 0.011 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9705	0.9723 ± 0.0069 $(+0.3\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4434	0.441 ± 0.017 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07212	0.07223 ± 0.00087 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.00015	0.9999 ± 0.0026 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5979	0.596 ± 0.017 (-0.1σ)	$H(0.57)$	93.21	93.32 ± 0.52 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	250.9	245 ± 22 (-0.5σ)	$\sigma_8/h^{0.5}$	0.9765	0.973 ± 0.026 (-0.1σ)	$D_{\rm A}(0.57)$	1380.1	1378 ± 15 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	35.0	38 ± 8 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.4560	2.458 ± 0.030 $(+0.0\sigma)$	$F_{\rm AP}(0.57)$	0.67369	0.6733 ± 0.0038 (-0.1σ)
$\boldsymbol{A_{217}^{PS}}$	94.5	97 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	8.23	$7.95^{+2.4}_{-1.9}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.4665	0.465 ± 0.012 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	47.4	46 ± 7 (-2.7σ)	$10^9 A_{\rm s}$	2.103	2.099 ± 0.087 (-0.0σ)	$\sigma_8(0.57)$	0.6021	0.601 ± 0.013 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	2.84	$3.24^{+1.4}_{-2.6}$ (-1.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8657	1.865 ± 0.015 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.246270	$0.24630^{+0.00012}_{-0.00011}$ (-3.4σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.397	$0.51^{+0.11}_{-0.12}$	D_{40}	1214.1	1211 ± 18 (-0.5σ)	f_{2000}^{143}	29.72	28.6 ± 2.9 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.586 (-0.2σ)	D_{220}	5701.6	5700 ± 43 (-0.5σ)	f_{2000}^{217}	107.02	106.2 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	6.17	$5.47^{+4.1}_{-1.8}$ $(+0.7\sigma)$	D_{810}	2525.9	2526 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	32.14	31.5 ± 2.2 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.993	0.996 ± 0.19	D_{1420}	813.5	814.4 ± 5.2 (-0.0σ)	$\chi^2_{\rm lensing}$	9.25	10.4 ± 2.1 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.028	1.03 ± 0.18	$n_{\rm s,0.002}$	0.9705	0.9723 ± 0.0069 $(+0.3\sigma)$	$\chi^2_{\rm lowTEB}$	10494.01	10494.9 ± 1.7 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.224	1.22 ± 0.12	$Y_{\rm P}$	0.244939	0.24497 ± 0.00011 (-3.5σ)	$\chi^2_{\rm CamSpec}$	8046.8	8061.6 ± 5.9
$\boldsymbol{A_{143\times217}^{dust}}$	0.951	0.98 ± 0.18	Age/Gyr	13.7880	13.778 ± 0.046 (-0.1σ)	$\chi^2_{\rm prior}$	3.81	8.50 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99664	0.99678 ± 0.00096 (-1.4σ)	z_*	1089.79	1089.69 ± 0.50 (-0.2σ)	$\chi^2_{\rm CMB}$	18550.0	18566.9 ± 5.9 $(+1288.8\sigma)$
$\boldsymbol{c_{217}}$	0.99755	0.9972 ± 0.0018 $(+0.9\sigma)$	r_*	145.10	145.11 ± 0.52 $(+0.1\sigma)$			
$\boldsymbol{\beta_1^1}$	-0.15	-0.05 ± 0.99	$100\theta_*$	1.04136	1.04143 ± 0.00050 $(+0.2\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18553.83$; $\Delta\chi^2_{\rm eff} = 7281.77$; $\bar{\chi}^2_{\rm eff} = 18575.39$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.44$; $R - 1 = 0.00680$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.25 (Δ -0.33) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.01 (Δ -0.27) CamSpec like_v9.10CMH_unified: 8046.75

3.42 base_Alens_CamSpecHM_TT_lowTEB_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02229 ± 0.00021 $(+0.1\sigma)$	Ω_Λ	0.6941 ± 0.0080 $(+0.1\sigma)$	k_D	0.14024 ± 0.00043 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1183 ± 0.0013 (-0.0σ)	Ω_m	0.3059 ± 0.0080 (-0.1σ)	$100\theta_D$	0.16094 ± 0.00026 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04110 ± 0.00043 $(+0.1\sigma)$	$\Omega_m h^2$	0.1412 ± 0.0013 (-0.0σ)	z_{eq}	3359 ± 30 (-0.0σ)
$\boldsymbol{\tau}$	0.057 ± 0.020 (-0.0σ)	$\Omega_m h^3$	0.09596 ± 0.00045 $(+0.1\sigma)$	$100\theta_{eq}$	0.8210 ± 0.0057 $(+0.1\sigma)$
$\boldsymbol{A_L}$	1.036 ± 0.054 $(+0.2\sigma)$	σ_8	0.807 ± 0.017 (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07192 ± 0.00045 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.043 ± 0.041 (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.446 ± 0.012 (-0.1σ)	$H(0.57)$	93.13 ± 0.30 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9701 ± 0.0046 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.600 ± 0.014 (-0.0σ)	$D_A(0.57)$	1383.2 ± 8.3 (-0.1σ)
$\boldsymbol{y_{cal}}$	0.99996 ± 0.0026 (-0.0σ)	$\sigma_8/h^{0.5}$	0.979 ± 0.022 (-0.0σ)	$F_{AP}(0.57)$	0.6746 ± 0.0020 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	247 ± 22 (-0.5σ)	$\langle d^2 \rangle^{1/2}$	2.456 ± 0.029 $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.468 ± 0.011 (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	z_{re}	$7.86^{+2.4}_{-1.8}$ (-0.0σ)	$\sigma_8(0.57)$	0.602 ± 0.012 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9 A_s$	2.098 ± 0.086 (-0.1σ)	Y_P^{BBN}	0.246266 ± 0.000089 (-4.4σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.868 ± 0.012 (-0.4σ)	f_{2000}^{143}	29.1 ± 2.8 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.17^{+1.4}_{-2.6}$ (-1.0σ)	D_{40}	1215 ± 14 (-0.5σ)	f_{2000}^{217}	106.4 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	5696 ± 42 (-0.5σ)	$f_{2000}^{143\times217}$	31.9 ± 2.1 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.591 (-0.2σ)	D_{810}	2527 ± 14 (-0.3σ)	$\chi^2_{lensing}$	10.4 ± 2.0 (-0.0σ)
$\boldsymbol{A^{kSZ}}$	$5.55^{+4.3}_{-1.5}$ $(+0.7\sigma)$	D_{1420}	814.1 ± 5.1 (-0.0σ)	χ^2_{lowTEB}	10495.1 ± 1.5 (-0.3σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9701 ± 0.0046 $(+0.4\sigma)$	$\chi^2_{CamSpec}$	8060.8 ± 5.7
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	0.244939 ± 0.000087 (-4.4σ)	χ^2_{6DF}	0.046 ± 0.064 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	13.793 ± 0.030 (-0.1σ)	χ^2_{MGS}	1.68 ± 0.62 $(+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	1089.86 ± 0.32 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.93 ± 0.74 $(+0.0\sigma)$
$\boldsymbol{c_{100}}$	0.99676 ± 0.00096 (-1.4σ)	r_*	144.94 ± 0.32 $(+0.0\sigma)$	$\chi^2_{DR11LOWZ}$	0.47 ± 0.49 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04131 ± 0.00042 $(+0.1\sigma)$	χ^2_{prior}	8.51 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	z_{drag}	1059.61 ± 0.45 $(+0.1\sigma)$	χ^2_{CMB}	18566.3 ± 5.8 $(+1326.1\sigma)$
H_0	67.95 ± 0.61 $(+0.1\sigma)$	r_{drag}	147.64 ± 0.34 (-0.0σ)	χ^2_{BAO}	5.13 ± 1.1 $(+0.0\sigma)$

$\bar{\chi}^2_{eff} = 18579.96$; $\Delta\bar{\chi}^2_{eff} = 7282.56$; $R - 1 = 0.01399$

3.43 base_Alens_CamSpecHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022369	0.02239 ± 0.00017 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.00145	1.0014 ± 0.0042	r_*	144.823	144.85 ± 0.33 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11850	0.1184 ± 0.0015 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.06	-0.1 ± 1.0	$100\theta_*$	1.041114	1.04113 ± 0.00031 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040915	1.04094 ± 0.00032 $(+0.1\sigma)$	H_0	67.88	67.96 ± 0.70 $(+0.4\sigma)$	z_{drag}	1059.818	1059.85 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.0580	0.057 ± 0.020 $(+0.1\sigma)$	Ω_Λ	0.6929	0.6937 ± 0.0093 $(+0.4\sigma)$	r_{drag}	147.492	147.51 ± 0.32 $(+0.1\sigma)$
$\boldsymbol{A_L}$	1.026	1.032 ± 0.052 $(+0.1\sigma)$	Ω_m	0.3071	0.3063 ± 0.0093 (-0.4σ)	k_D	0.140459	0.14046 ± 0.00033 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0445	3.042 ± 0.040 (-0.0σ)	$\Omega_m h^2$	0.14151	0.1414 ± 0.0014 (-0.3σ)	$100\theta_D$	0.160790	0.16077 ± 0.00019 (-0.7σ)
$\boldsymbol{n_s}$	0.96851	0.9694 ± 0.0049 $(+0.7\sigma)$	$\Omega_m h^3$	0.096059	0.09608 ± 0.00030 $(+0.4\sigma)$	z_{eq}	3366.2	3363 ± 34 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.00011	0.9999 ± 0.0025 (-0.0σ)	σ_8	0.8074	0.806 ± 0.017 (-0.1σ)	$100\theta_{eq}$	0.8198	0.8204 ± 0.0066 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	247.3	245 ± 22 (-0.6σ)	$\sigma_8 \Omega_m^{0.5}$	0.4474	0.446 ± 0.013 (-0.3σ)	$r_{drag}/D_V(0.57)$	0.07181	0.07187 ± 0.00052 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.0	38 ± 7 (-0.7σ)	$\sigma_8 \Omega_m^{0.25}$	0.6011	0.600 ± 0.014 (-0.2σ)	$H(0.57)$	93.120	93.16 ± 0.31 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	96.0	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9800	0.978 ± 0.022 (-0.2σ)	$D_A(0.57)$	1384.0	1382.9 ± 9.3 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	47.6	46 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.4544	2.454 ± 0.028 (-0.2σ)	$F_{AP}(0.57)$	0.67491	0.6747 ± 0.0024 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.67	$3.34^{+1.5}_{-2.5}$ (-1.0σ)	z_{re}	8.03	$7.82^{+2.3}_{-1.8}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.4683	0.467 ± 0.011 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.419	$0.51^{+0.11}_{-0.12}$	$10^9 A_s$	2.100	2.097 ± 0.084 (-0.0σ)	$\sigma_8(0.57)$	0.6017	0.601 ± 0.012 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.588 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.8700	1.869 ± 0.012 (-0.6σ)	Y_P^{BBN}	0.246302	0.246311 ± 0.000072 (-4.9σ)
$\boldsymbol{A^{kSZ}}$	4.69	$5.38^{+4.0}_{-2.0}$ $(+0.7\sigma)$	D_{40}	1219.2	1218 ± 14 (-0.7σ)	f_{2000}^{143}	29.11	28.6 ± 2.7 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.987	0.99 ± 0.19	D_{220}	5711.2	5708 ± 39 (-0.4σ)	f_{2000}^{217}	106.46	106.1 ± 1.9 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.031	1.03 ± 0.18	D_{810}	2528.0	2527 ± 13 (-0.3σ)	$f_{2000}^{143\times217}$	31.60	31.4 ± 2.0 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.218	1.21 ± 0.12	D_{1420}	814.20	814.4 ± 4.7 $(+0.0\sigma)$	$\chi^2_{lensing}$	9.55	10.4 ± 2.0 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.989	0.99 ± 0.18	$n_{s,0.002}$	0.96851	0.9694 ± 0.0049 $(+0.7\sigma)$	χ^2_{lowTEB}	10494.41	10495.3 ± 1.5 (-0.5σ)
$\boldsymbol{c_{100}}$	0.99668	0.99676 ± 0.00097 (-1.8σ)	Y_P	0.244971	0.244982 ± 0.000073 (-5.0σ)	$\chi^2_{CamSpec}$	12937.5	12953.9 ± 6.1
$\boldsymbol{c_{217}}$	0.99726	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.7913	13.788 ± 0.028 (-0.5σ)	χ^2_{prior}	3.78	9.03 ± 3.6 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.00488	1.0049 ± 0.0044	z_*	1089.773	1089.73 ± 0.31 (-0.6σ)	χ^2_{CMB}	23441.4	23459.5 ± 6.1 $(+1552.9\sigma)$

Best-fit $\chi^2_{eff} = 23445.21$; $\Delta\chi^2_{eff} = 10498.21$; $\bar{\chi}^2_{eff} = 23468.58$; $\Delta\bar{\chi}^2_{eff} = 10488.55$; $R - 1 = 0.00725$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.55 (Δ -0.67) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.41 (Δ -0.60) CamSpec like_v9.10CMH_unified: 12937.47

3.44 base_Alens_CamSpecHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02238 ± 0.00015 $(+0.6\sigma)$	H_0	67.90 ± 0.50 $(+0.3\sigma)$	k_D	0.14047 ± 0.00030 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0011 (-0.3σ)	Ω_Λ	0.6930 ± 0.0066 $(+0.3\sigma)$	$100\theta_D$	0.16078 ± 0.00018 (-0.7σ)
$\boldsymbol{100\theta_{MC}}$	1.04093 ± 0.00029 $(+0.0\sigma)$	Ω_m	0.3070 ± 0.0066 (-0.3σ)	z_{eq}	3366 ± 24 (-0.2σ)
$\boldsymbol{\tau}$	0.057 ± 0.020 $(+0.0\sigma)$	$\Omega_m h^2$	0.1415 ± 0.0010 (-0.2σ)	$100\theta_{eq}$	0.8199 ± 0.0047 $(+0.2\sigma)$
$\boldsymbol{A_L}$	1.030 ± 0.050 $(+0.1\sigma)$	$\Omega_m h^3$	0.09608 ± 0.00030 $(+0.4\sigma)$	$r_{drag}/D_V(0.57)$	0.07183 ± 0.00037 $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.042 ± 0.040 (-0.0σ)	σ_8	0.807 ± 0.017 (-0.1σ)	$H(0.57)$	93.14 ± 0.23 $(+0.4\sigma)$
$\boldsymbol{n_s}$	0.9691 ± 0.0041 $(+0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.447 ± 0.011 (-0.2σ)	$D_A(0.57)$	1383.7 ± 6.7 (-0.4σ)
$\boldsymbol{y_{cal}}$	0.9999 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_m^{0.25}$	0.600 ± 0.013 (-0.1σ)	$F_{AP}(0.57)$	0.6749 ± 0.0017 (-0.3σ)
$\boldsymbol{A_{100}^{PS}}$	245 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	0.979 ± 0.021 (-0.1σ)	$f\sigma_8(0.57)$	0.468 ± 0.010 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.454 ± 0.028 (-0.3σ)	$\sigma_8(0.57)$	0.601 ± 0.012 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	z_{re}	$7.81^{+2.3}_{-1.8}$ $(+0.0\sigma)$	Y_P^{BBN}	0.246306 ± 0.000064 (-5.8σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.8σ)	$10^9 A_s$	2.097 ± 0.084 (-0.0σ)	f_{2000}^{143}	28.7 ± 2.6 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.32^{+1.5}_{-2.5}$ (-1.0σ)	$10^9 A_s e^{-2\tau}$	1.869 ± 0.011 (-0.5σ)	f_{2000}^{217}	106.1 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	1218 ± 13 (-0.7σ)	$f_{2000}^{143\times217}$	31.5 ± 1.9 (-0.6σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.587 (-0.2σ)	D_{220}	5707 ± 38 (-0.5σ)	$\chi^2_{lensing}$	10.4 ± 2.0 (-0.2σ)
$\boldsymbol{A^{kSZ}}$	$5.41^{+4.0}_{-2.0}$ $(+0.7\sigma)$	D_{810}	2528 ± 13 (-0.3σ)	χ^2_{lowTEB}	10495.3 ± 1.5 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	814.3 ± 4.7 $(+0.0\sigma)$	$\chi^2_{CamSpec}$	12953.4 ± 5.9
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{s,0.002}$	0.9691 ± 0.0041 $(+0.6\sigma)$	χ^2_{6DF}	0.035 ± 0.049 (-0.2σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Y_P	$0.244977^{+0.000061}_{-0.000070}$ (-5.9σ)	χ^2_{MGS}	1.56 ± 0.50 $(+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	13.790 ± 0.022 (-0.4σ)	$\chi^2_{DR11CMASS}$	2.75 ± 0.48 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99675 ± 0.00096 (-1.8σ)	z_*	1089.76 ± 0.24 (-0.6σ)	$\chi^2_{DR11LOWZ}$	0.51 ± 0.43 (-0.2σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	r_*	144.82 ± 0.25 $(+0.1\sigma)$	χ^2_{prior}	9.06 ± 3.6 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0050 ± 0.0044	$100\theta_*$	1.04112 ± 0.00029 $(+0.1\sigma)$	χ^2_{CMB}	23459.1 ± 6.0 $(+1556.6\sigma)$
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0042	z_{drag}	1059.83 ± 0.31 $(+0.5\sigma)$	χ^2_{BAO}	4.86 ± 0.72 (-0.0σ)
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_{drag}	147.49 ± 0.25 (-0.1σ)		

$\bar{\chi}^2_{eff} = 23473.00$; $\Delta\bar{\chi}^2_{eff} = 10488.50$; $R - 1 = 0.00768$

3.45 base_Alens_CamSpecDS_TT_lowTEB

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02254 \pm 0.00028 \quad (-0.3\sigma)$	$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	$144.99 \pm 0.52 \quad (-0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1174 \pm 0.0024 \quad (+0.3\sigma)$	H_0	$68.6 \pm 1.2 \quad (-0.3\sigma)$	$100\theta_*$	$1.04144 \pm 0.00049 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04127 \pm 0.00050 \quad (-0.2\sigma)$	Ω_Λ	$0.701 \pm 0.015 \quad (-0.3\sigma)$	$z_{\rm drag}$	$1060.12 \pm 0.54 \quad (-0.3\sigma)$
$\boldsymbol{\tau}$	$0.058 \pm 0.020 \quad (-0.1\sigma)$	$\Omega_{\rm m}$	$0.299 \pm 0.015 \quad (+0.3\sigma)$	$r_{\rm drag}$	$147.61 \pm 0.50 \quad (-0.2\sigma)$
$\boldsymbol{A_L}$	$1.173 \pm 0.097 \quad (-0.5\sigma)$	$\Omega_{\rm m}h^2$	$0.1406 \pm 0.0023 \quad (+0.3\sigma)$	$k_{\rm D}$	$0.14046 \pm 0.00051 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.044 \pm 0.040 \quad (-0.0\sigma)$	$\Omega_{\rm m}h^3$	$0.09633 \pm 0.00048 \quad (-0.2\sigma)$	$100\theta_{\rm D}$	$0.16066 \pm 0.00029 \quad (+0.2\sigma)$
$\boldsymbol{n_s}$	$0.9730 \pm 0.0070 \quad (-0.1\sigma)$	σ_8	$0.804 \pm 0.018 \quad (+0.1\sigma)$	$z_{\rm eq}$	$3343 \pm 54 \quad (+0.3\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.440 \pm 0.017 \quad (+0.2\sigma)$	$100\theta_{\rm eq}$	$0.825 \pm 0.011 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$271 \pm 23 \quad (+0.8\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.595 \pm 0.017 \quad (+0.2\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07229 \pm 0.00087 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$43 \pm 7 \quad (+0.5\sigma)$	$\sigma_8/h^{0.5}$	$0.972 \pm 0.026 \quad (+0.2\sigma)$	$H(0.57)$	$93.47 \pm 0.53 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$91 \pm 10 \quad (-0.6\sigma)$	$\langle d^2\rangle^{1/2}$	$2.597 \pm 0.072 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1375 \pm 15 \quad (+0.3\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$50 \pm 7 \quad (-1.6\sigma)$	$z_{\rm re}$	$7.86^{+2.3}_{-1.8} \quad (-0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6729 \pm 0.0038 \quad (+0.3\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.54^{+1.7}_{-2.3} \quad (-1.1\sigma)$	$10^9A_{\rm s}$	$2.101 \pm 0.085 \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.464 \pm 0.012 \quad (+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.57^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	$1.869 \pm 0.014 \quad (+0.1\sigma)$	$\sigma_8(0.57)$	$0.601 \pm 0.012 \quad (+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	$1213 \pm 17 \quad (+0.0\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24637 \pm 0.00012 \quad (-3.6\sigma)$
$\boldsymbol{A^{kSZ}}$	$< 5.74 \quad (+0.7\sigma)$	D_{220}	$5725 \pm 42 \quad (-0.3\sigma)$	f_{2000}^{143}	$29.9 \pm 3.0 \quad (+1.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.97 ± 0.19	D_{810}	$2528 \pm 14 \quad (+0.1\sigma)$	f_{2000}^{217}	$106.1 \pm 2.1 \quad (+1.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.07 ± 0.18	D_{1420}	$815.0 \pm 5.1 \quad (+0.1\sigma)$	$f_{2000}^{143\times217}$	$32.8 \pm 2.2 \quad (+1.3\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.17 ± 0.12	$n_{\rm s,0.002}$	$0.9730 \pm 0.0070 \quad (-0.1\sigma)$	$\chi^2_{\rm lowTEB}$	$10494.9 \pm 1.7 \quad (+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.95 ± 0.18	$Y_{\rm P}$	$0.24505 \pm 0.00012 \quad (-3.6\sigma)$	$\chi^2_{\rm CamSpec}$	8154.2 ± 5.6
$\boldsymbol{c_{100}}$	$0.99845 \pm 0.00097 \quad (+0.7\sigma)$	Age/Gyr	$13.759 \pm 0.047 \quad (+0.3\sigma)$	$\chi^2_{\rm prior}$	$7.25 \pm 3.3 \quad (+0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9988 \pm 0.0018 \quad (+2.2\sigma)$	z_*	$1089.47 \pm 0.51 \quad (+0.3\sigma)$	$\chi^2_{\rm CMB}$	$18649.1 \pm 5.7 \quad (+1292.9\sigma)$

$\bar{\chi}^2_{\rm eff} = 18656.35$; $\Delta\bar{\chi}^2_{\rm eff} = 7379.17$; $R - 1 = 0.00731$

3.46 base_Alens_plikDS_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022693	0.02258 ± 0.00028 (-0.2σ)	Ω_m	0.2948	$0.299^{+0.014}_{-0.016}$ $(+0.3\sigma)$	D_A/Gpc	13.9255	13.921 ± 0.048 (-0.2σ)
$\boldsymbol{\Omega_c h^2}$	0.11673	0.1173 ± 0.0025 $(+0.3\sigma)$	$\Omega_m h^2$	0.14007	0.1405 ± 0.0023 $(+0.3\sigma)$	z_{drag}	1060.43	1060.22 ± 0.55 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04134	1.04124 ± 0.00051 (-0.2σ)	$\Omega_m h^3$	0.096546	0.09638 ± 0.00049 (-0.1σ)	r_{drag}	147.60	147.58 ± 0.50 (-0.2σ)
$\boldsymbol{\tau}$	0.0606	0.058 ± 0.021 (-0.1σ)	σ_8	0.8044	0.804 ± 0.018 $(+0.1\sigma)$	k_D	0.14057	0.14050 ± 0.00052 $(+0.2\sigma)$
$\boldsymbol{A_L}$	1.211	$1.182^{+0.094}_{-0.11}$ (-0.4σ)	$\sigma_8\Omega_m^{0.5}$	0.4368	0.440 ± 0.018 $(+0.2\sigma)$	$100\theta_D$	0.160492	0.16062 ± 0.00030 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0498	3.045 ± 0.041 (-0.0σ)	$\sigma_8\Omega_m^{0.25}$	0.5928	0.594 ± 0.018 $(+0.2\sigma)$	z_{eq}	3332	3343 ± 55 $(+0.3\sigma)$
$\boldsymbol{n_s}$	0.9757	0.9721 ± 0.0070 (-0.3σ)	$\sigma_8/h^{0.5}$	0.9689	0.971 ± 0.027 $(+0.2\sigma)$	k_{eq}	0.010169	0.01020 ± 0.00017 $(+0.3\sigma)$
$\boldsymbol{y_{cal}}$	1.00018	1.0001 ± 0.0025 $(+0.0\sigma)$	$\langle d^2\rangle^{1/2}$	2.635	2.609 ± 0.075 (-0.5σ)	$100\theta_{eq}$	0.8274	0.825 ± 0.011 (-0.3σ)
$\boldsymbol{A_{217}^{CIB}}$	61.5	65.2 ± 6.5 $(+0.6\sigma)$	z_{re}	8.18	$7.87^{+2.4}_{-1.9}$ (-0.0σ)	$100\theta_{s,eq}$	0.4565	0.4554 ± 0.0055 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.898	> 0.403 (-0.0σ)	$10^9 A_s$	2.111	2.104 ± 0.087 (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07251	0.07231 ± 0.00088 (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	6.36	5.21 ± 1.8 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.8700	1.870 ± 0.015 $(+0.2\sigma)$	$H(0.57)$	93.66	93.50 ± 0.54 (-0.3σ)
$\boldsymbol{A_{100}^{PS}}$	261.1	274 ± 28 $(+0.9\sigma)$	D_{40}	1210.0	1217 ± 18 $(+0.2\sigma)$	$D_A(0.57)$	1369.5	1374 ± 16 $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	51.6	45 ± 8 $(+0.8\sigma)$	D_{220}	5742.2	5739 ± 43 (-0.0σ)	$F_{AP}(0.57)$	0.67174	0.6728 ± 0.0039 $(+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{PS}}$	56.3	41 ± 9 $(+0.3\sigma)$	D_{810}	2531.6	2529 ± 14 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4633	0.464 ± 0.013 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	104.5	94.7 ± 10 (-0.3σ)	D_{1420}	817.0	814.6 ± 5.1 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6025	0.601 ± 0.013 $(+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	0.02	< 3.73 $(+0.1\sigma)$	D_{2000}	233.38	232.0 ± 2.0 (-0.2σ)	f_{2000}^{143}	28.57	30.6 ± 2.9 $(+1.2\sigma)$
$\boldsymbol{A_{100}^{dustTT}}$	7.39	7.35 ± 1.9 (-0.0σ)	$n_{s,0.002}$	0.9757	0.9721 ± 0.0070 (-0.3σ)	$f_{2000}^{143\times217}$	29.75	31.0 ± 2.2 $(+0.6\sigma)$
$\boldsymbol{A_{143}^{dustTT}}$	9.11	9.00 ± 1.8 $(+0.0\sigma)$	Y_P	0.245535	0.24548 ± 0.00013 (-0.2σ)	f_{2000}^{217}	110.45	111.9 ± 2.1 $(+3.7\sigma)$
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.49	16.9 ± 4.1 $(+0.1\sigma)$	Y_P^{BBN}	0.246862	0.24681 ± 0.00013 (-0.2σ)	χ^2_{lowTEB}	10493.52	10495.2 ± 1.7 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{dustTT}}$	81.9	80.3 ± 7.3 (-0.2σ)	10^5D/H	2.531	2.554 ± 0.052 $(+0.2\sigma)$	χ^2_{plik}	746.6	760.5 ± 5.5 (-2.6σ)
$\boldsymbol{c_{100}}$	0.99804	0.99794 ± 0.00078 $(+0.0\sigma)$	Age/Gyr	13.7380	13.755 ± 0.048 $(+0.2\sigma)$	χ^2_{prior}	1.24	7.00 ± 3.5 (-0.0σ)
$\boldsymbol{c_{217}}$	0.99573	0.9960 ± 0.0014 $(+0.3\sigma)$	z_*	1089.23	1089.43 ± 0.52 $(+0.2\sigma)$	χ^2_{CMB}	11240.1	11255.7 ± 5.6 (-2.5σ)
H_0	68.93	68.6 ± 1.2 (-0.3σ)	r_*	145.03	144.98 ± 0.52 (-0.3σ)			
Ω_Λ	0.7052	$0.701^{+0.016}_{-0.014}$ (-0.3σ)	$100\theta_*$	1.041498	1.04141 ± 0.00049 (-0.2σ)			

Best-fit $\chi^2_{eff} = 11241.37$; $\Delta\chi^2_{eff} = -14.14$; $\bar{\chi}^2_{eff} = 11262.68$; $\Delta\bar{\chi}^2_{eff} = -14.51$; $R - 1 = 0.00713$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.52 (Δ 0.11) plik_dx11dr2_DS_v18_TT: 746.61

3.47 base_Alens_plikHM_TT_WMAPTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022694	0.02264 ± 0.00030	Ω_m	0.2928	0.294 ± 0.015	D_A/Gpc	13.9341	13.935 ± 0.049
$\boldsymbol{\Omega_c h^2}$	0.11636	0.1165 ± 0.0025	$\Omega_m h^2$	0.13970	0.1398 ± 0.0024	z_{drag}	1060.43	1060.30 ± 0.57
$\boldsymbol{100\theta_{MC}}$	1.04138	1.04137 ± 0.00052	$\Omega_m h^3$	0.096500	0.09641 ± 0.00050	r_{drag}	147.70	147.73 ± 0.52
$\boldsymbol{\tau}$	0.0686	0.069 ± 0.011	σ_8	0.8089	0.810 ± 0.013	k_D	0.14047	0.14039 ± 0.00053
$\boldsymbol{A_L}$	1.224	1.205 ± 0.094	$\sigma_8\Omega_m^{0.5}$	0.4377	0.439 ± 0.017	$100\theta_D$	0.160508	0.16059 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0638	3.065 ± 0.023	$\sigma_8\Omega_m^{0.25}$	0.5950	0.596 ± 0.016	z_{eq}	3323	3325 ± 56
$\boldsymbol{n_s}$	0.9761	0.9745 ± 0.0072	$\sigma_8/h^{0.5}$	0.9733	0.975 ± 0.022	k_{eq}	0.010142	0.01015 ± 0.00017
$\boldsymbol{y_{cal}}$	0.99993	1.0000 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.663	2.646 ± 0.077	$100\theta_{eq}$	0.8290	0.829 ± 0.011
$\boldsymbol{A_{217}^{CIB}}$	59.7	61.1 ± 6.7	z_{re}	8.92	8.97 ± 1.1	$100\theta_{s,eq}$	0.4573	0.4571 ± 0.0057
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.642	> 0.397	$10^9 A_s$	2.1408	2.144 ± 0.050	$r_{drag}/D_V(0.57)$	0.07264	0.07260 ± 0.00092
$\boldsymbol{A_{143}^{tSZ}}$	6.87	5.71 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8665	1.867 ± 0.015	$H(0.57)$	93.72	$93.67^{+0.55}_{-0.61}$
$\boldsymbol{A_{100}^{PS}}$	237.7	247 ± 30	D_{40}	1210.6	1215 ± 17	$D_A(0.57)$	1367.6	1369 ± 16
$\boldsymbol{A_{143}^{PS}}$	41.4	38 ± 8	D_{220}	5738.3	5739 ± 42	$F_{AP}(0.57)$	0.67122	0.6716 ± 0.0040
$\boldsymbol{A_{143\times217}^{PS}}$	46.4	38 ± 10	D_{810}	2527.2	2526 ± 14	$f\sigma_8(0.57)$	0.4653	0.466 ± 0.011
$\boldsymbol{A_{217}^{PS}}$	104.3	98.1 ± 11	D_{1420}	815.3	814.3 ± 5.0	$\sigma_8(0.57)$	0.6064	0.6065 ± 0.0076
$\boldsymbol{A^{kSZ}}$	0.00	< 3.29	D_{2000}	233.12	232.4 ± 2.1	f_{2000}^{143}	25.25	26 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.33	7.44 ± 1.9	$n_{s,0.002}$	0.9761	0.9745 ± 0.0072	$f_{2000}^{143\times217}$	28.88	29.5 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	8.91	8.94 ± 1.8	Y_P	0.245535	0.24551 ± 0.00013	f_{2000}^{217}	102.60	103.4 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.74	16.6 ± 4.2	Y_P^{BBN}	0.246863	0.24684 ± 0.00013	$\chi^2_{WMAPTEB}$	19731.87	19733.3 ± 1.9
$\boldsymbol{A_{217}^{dustTT}}$	82.6	81.5 ± 7.4	10^5D/H	2.531	2.543 ± 0.054	χ^2_{plik}	760.5	775.1 ± 5.6
$\boldsymbol{c_{100}}$	0.99797	0.99792 ± 0.00078	Age/Gyr	13.7350	13.741 ± 0.050	χ^2_{prior}	1.55	7.16 ± 3.5
$\boldsymbol{c_{217}}$	0.99541	0.9955 ± 0.0015	z_*	1089.20	1089.29 ± 0.54	χ^2_{CMB}	20492.4	20508.3 ± 5.7
H_0	69.07	69.0 ± 1.2	r_*	145.13	145.14 ± 0.54			
Ω_Λ	0.7072	0.706 ± 0.015	$100\theta_*$	1.041537	1.04153 ± 0.00050			

Best-fit $\chi^2_{eff} = 20493.97$; $\bar{\chi}^2_{eff} = 20515.50$; $R - 1 = 0.01119$

χ^2_{eff}: CMB - bflike_WMAP353ggf_LFI312_nw8: 19731.87 plik_dx11dr2_HM_v18_TT: 760.54

3.48 base_Alens_plikHM_TT_WMAPTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02249 ± 0.00023	$\Omega_m h^2$	0.1413 ± 0.0013	r_{drag}	147.43 ± 0.35
$\boldsymbol{\Omega_c h^2}$	0.1182 ± 0.0013	$\Omega_m h^3$	0.09635 ± 0.00049	k_D	0.14060 ± 0.00046
$\boldsymbol{100\theta_{MC}}$	1.04116 ± 0.00043	σ_8	$0.8152^{+0.0099}_{-0.012}$	$100\theta_D$	0.16069 ± 0.00028
$\boldsymbol{\tau}$	0.068 ± 0.011	$\sigma_8\Omega_m^{0.5}$	$0.4497^{+0.0095}_{-0.011}$	z_{eq}	3362 ± 30
$\boldsymbol{A_L}$	1.165 ± 0.077	$\sigma_8\Omega_m^{0.25}$	$0.6055^{+0.0097}_{-0.011}$	k_{eq}	0.010262 ± 0.000091
$\boldsymbol{\ln(10^{10}A_s)}$	$3.066^{+0.022}_{-0.025}$	$\sigma_8/h^{0.5}$	$0.987^{+0.014}_{-0.016}$	$100\theta_{eq}$	0.8211 ± 0.0057
$\boldsymbol{n_s}$	$0.9702^{+0.0049}_{-0.0044}$	$\langle d^2\rangle^{1/2}$	$2.634^{+0.083}_{-0.073}$	$100\theta_{s,eq}$	0.4533 ± 0.0029
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	z_{re}	8.91 ± 1.1	$r_{drag}/D_V(0.57)$	0.07198 ± 0.00045
$\boldsymbol{A_{217}^{CIB}}$	61.7 ± 6.7	$10^9 A_s$	$2.146^{+0.046}_{-0.054}$	$H(0.57)$	93.31 ± 0.31
$\boldsymbol{\xi^{tSZ\times CIB}}$	> 0.380	$10^9 A_s e^{-2\tau}$	1.874 ± 0.012	$D_A(0.57)$	1379.7 ± 8.3
$\boldsymbol{A_{143}^{tSZ}}$	5.60 ± 1.8	D_{40}	1223 ± 14	$F_{AP}(0.57)$	0.6742 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	249 ± 27	D_{220}	5730 ± 41	$f\sigma_8(0.57)$	$0.4721^{+0.0069}_{-0.0079}$
$\boldsymbol{A_{143}^{PS}}$	40 ± 8	D_{810}	2529 ± 14	$\sigma_8(0.57)$	$0.6082^{+0.0069}_{-0.0079}$
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{1420}	813.8 ± 5.0	f_{2000}^{143}	27.3 ± 3.0
$\boldsymbol{A_{217}^{PS}}$	98 ± 10	D_{2000}	231.8 ± 1.9	$f_{2000}^{143\times217}$	30.2 ± 2.2
$\boldsymbol{A^{kSZ}}$	< 3.45	$n_{s,0.002}$	$0.9702^{+0.0049}_{-0.0044}$	f_{2000}^{217}	104.1 ± 2.1
$\boldsymbol{A_{100}^{dustTT}}$	7.40 ± 1.8	Y_P	0.24545 ± 0.00010	$\chi^2_{WMAPTEB}$	19733.9 ± 1.8
$\boldsymbol{A_{143}^{dustTT}}$	8.94 ± 1.9	Y_P^{BBN}	0.24677 ± 0.00010	χ^2_{plik}	774.2 ± 5.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	16.8 ± 4.2	10^5D/H	2.569 ± 0.042	χ^2_{6DF}	0.045 ± 0.064
$\boldsymbol{A_{217}^{dustTT}}$	81.6 ± 7.5	Age/Gyr	13.770 ± 0.032	χ^2_{MGS}	1.79 ± 0.63
$\boldsymbol{c_{100}}$	0.99792 ± 0.00078	z_*	1089.61 ± 0.34	$\chi^2_{DR11CMASS}$	2.99 ± 0.82
$\boldsymbol{c_{217}}$	0.9956 ± 0.0015	r_*	144.80 ± 0.32	$\chi^2_{DR11LOWZ}$	0.40 ± 0.44
H_0	68.17 ± 0.61	$100\theta_*$	1.04133 ± 0.00042	χ^2_{prior}	7.14 ± 3.5
Ω_Λ	0.6957 ± 0.0079	D_A/Gpc	13.906 ± 0.032	χ^2_{CMB}	20508.1 ± 6.1
Ω_m	0.3043 ± 0.0079	z_{drag}	1060.09 ± 0.50	χ^2_{BAO}	5.22 ± 1.2

$\bar{\chi}^2_{eff} = 20520.50$; $R - 1 = 0.02623$

4 Alensf

4.1 base_Alensf_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022700	0.02262 ± 0.00029	Ω_m	0.2925	$0.296^{+0.014}_{-0.016}$	D_A/Gpc	13.9343	13.929 ± 0.048
$\boldsymbol{\Omega_c h^2}$	0.11633	0.1168 ± 0.0025	$\Omega_m h^2$	0.13967	0.1401 ± 0.0023	z_{drag}	1060.43	1060.28 ± 0.56
$\boldsymbol{100\theta_{MC}}$	1.04141	1.04133 ± 0.00052	$\Omega_m h^3$	0.09651	0.09641 ± 0.00049	r_{drag}	147.70	147.66 ± 0.51
$\boldsymbol{\tau}$	0.0617	0.060 ± 0.021	σ_8	0.8035	0.804 ± 0.018	k_D	0.14047	0.14045 ± 0.00051
$\boldsymbol{A_L^{fid}}$	1.182	1.167 ± 0.065	$\sigma_8\Omega_m^{0.5}$	0.4346	0.437 ± 0.018	$100\theta_D$	0.160504	0.16059 ± 0.00030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0505	3.048 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.5909	0.593 ± 0.018	z_{eq}	3322	3332 ± 56
$\boldsymbol{n_s}$	0.9763	0.9738 ± 0.0072	$\sigma_8/h^{0.5}$	0.9666	0.969 ± 0.026	k_{eq}	0.010140	0.01017 ± 0.00017
$\boldsymbol{y_{cal}}$	1.00006	1.0000 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.390	2.399 ± 0.063	$100\theta_{eq}$	0.8292	0.827 ± 0.011
$\boldsymbol{A_{217}^{CIB}}$	59.2	61.2 ± 6.7	z_{re}	8.27	$8.05^{+2.4}_{-1.8}$	$100\theta_{s,eq}$	0.4574	0.4565 ± 0.0056
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.731	> 0.405	$10^9 A_s$	2.113	2.110 ± 0.087	$r_{drag}/D_V(0.57)$	0.07266	0.07249 ± 0.00091
$\boldsymbol{A_{143}^{tSZ}}$	6.81	5.67 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8675	1.868 ± 0.015	$H(0.57)$	93.73	93.61 ± 0.56
$\boldsymbol{A_{100}^{PS}}$	237.3	246 ± 30	D_{40}	1208.3	1214 ± 18	$D_A(0.57)$	1367.3	1371 ± 16
$\boldsymbol{A_{143}^{PS}}$	42.4	38 ± 8	D_{220}	5741.0	5739 ± 42	$F_{AP}(0.57)$	0.67115	0.6720 ± 0.0039
$\boldsymbol{A_{143\times217}^{PS}}$	48.5	38 ± 10	D_{810}	2528.7	2527 ± 14	$f\sigma_8(0.57)$	0.4622	0.463 ± 0.013
$\boldsymbol{A_{217}^{PS}}$	105.0	97.7 ± 11	D_{1420}	815.91	814.4 ± 5.0	$\sigma_8(0.57)$	0.6024	0.602 ± 0.013
$\boldsymbol{A^{kSZ}}$	0.00	< 3.33	D_{2000}	233.43	232.6 ± 2.0	f_{2000}^{143}	25.04	26 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.35	7.45 ± 1.9	$n_{s,0.002}$	0.9763	0.9738 ± 0.0072	$f_{2000}^{143\times217}$	28.70	29.4 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	9.01	8.89 ± 1.8	Y_P	0.245538	0.24550 ± 0.00013	f_{2000}^{217}	102.40	103.3 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.90	16.6 ± 4.1	Y_P^{BBN}	0.246865	0.24683 ± 0.00013	χ^2_{lowTEB}	10493.41	10494.9 ± 1.7
$\boldsymbol{A_{217}^{dustTT}}$	82.7	81.5 ± 7.3	10^5D/H	2.530	2.546 ± 0.053	χ^2_{plik}	760.7	775.0 ± 5.5
$\boldsymbol{c_{100}}$	0.99798	0.99793 ± 0.00078	Age/Gyr	13.7337	13.746 ± 0.050	χ^2_{prior}	1.47	7.08 ± 3.4
$\boldsymbol{c_{217}}$	0.99538	0.9956 ± 0.0015	z_*	1089.19	1089.34 ± 0.53	χ^2_{CMB}	11254.1	11269.9 ± 5.7
H_0	69.10	68.8 ± 1.2	r_*	145.13	145.07 ± 0.53			
Ω_Λ	0.7075	$0.704^{+0.016}_{-0.014}$	$100\theta_*$	1.04156	1.04149 ± 0.00051			

Best-fit $\chi^2_{eff} = 11255.58$; $\bar{\chi}^2_{eff} = 11277.01$; $R - 1 = 0.00509$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.41 plik_dx11dr2_HM_v18_TT: 760.69

4.2 base_Alensf_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022450	0.02240 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.301 ± 0.084	Age/Gyr	13.7812	13.788 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11824	0.1185 ± 0.0016	$\boldsymbol{A^{dustTE}_{143}}$	0.152	0.154 ± 0.053	z_*	1089.667	1089.75 ± 0.33
$\boldsymbol{100\theta_{MC}}$	1.040939	1.04092 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335	0.334 ± 0.080	r_*	144.826	144.79 ± 0.33
$\boldsymbol{\tau}$	0.0582	0.057 ± 0.020	$\boldsymbol{A^{dustTE}_{217}}$	1.649	1.65 ± 0.25	$100\theta_*$	1.041118	1.04110 ± 0.00032
$\boldsymbol{A^{fid}_L}$	1.145	1.132 ± 0.051	$\boldsymbol{c_{100}}$	0.99832	0.99820 ± 0.00077	D_A/Gpc	13.9107	13.908 ± 0.031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0482	3.047 ± 0.040	$\boldsymbol{c_{217}}$	0.99554	0.9958 ± 0.0015	z_{drag}	1060.009	1059.91 ± 0.34
$\boldsymbol{n_s}$	0.9704	0.9680 ± 0.0051	H_0	68.05	67.91 ± 0.73	r_{drag}	147.468	147.45 ± 0.32
$\boldsymbol{y_{cal}}$	0.99994	1.0001 ± 0.0025	Ω_Λ	0.6948	0.6929 ± 0.0097	k_D	0.140530	0.14051 ± 0.00032
$\boldsymbol{A^{CIB}_{217}}$	59.0	62.4 ± 6.6	Ω_m	0.3052	0.3071 ± 0.0097	$100\theta_D$	0.160707	0.16076 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.902	> 0.390	$\Omega_m h^2$	0.14133	0.1416 ± 0.0015	z_{eq}	3362.0	3367 ± 35
$\boldsymbol{A^{tSZ}_{143}}$	6.66	$5.59^{+2.0}_{-1.8}$	$\Omega_m h^3$	0.096176	0.09613 ± 0.00030	k_{eq}	0.010261	0.01028 ± 0.00011
$\boldsymbol{A^{PS}_{100}}$	243.0	254 ± 28	σ_8	0.8082	0.808 ± 0.017	$100\theta_{eq}$	0.8208	0.8197 ± 0.0068
$\boldsymbol{A^{PS}_{143}}$	48.3	41 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4465	0.448 ± 0.013	$100\theta_{s,eq}$	0.45323	0.4527 ± 0.0035
$\boldsymbol{A^{PS}_{143\times217}}$	56.1	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6007	0.601 ± 0.015	$r_{drag}/D_V(0.57)$	0.07191	0.07182 ± 0.00055
$\boldsymbol{A^{PS}_{217}}$	108.5	98 ± 10	$\sigma_8/h^{0.5}$	0.9797	0.981 ± 0.023	$H(0.57)$	93.215	93.15 ± 0.32
$\boldsymbol{A^{kSZ}}$	0.00	< 3.33	$\langle d^2\rangle^{1/2}$	2.421	2.428 ± 0.055	$D_A(0.57)$	1381.6	1383.5 ± 9.7
$\boldsymbol{A^{dustTT}_{100}}$	7.30	7.43 ± 1.9	z_{re}	8.02	$7.84^{+2.4}_{-1.8}$	$F_{AP}(0.57)$	0.67443	0.6749 ± 0.0025
$\boldsymbol{A^{dustTT}_{143}}$	8.78	8.83 ± 1.8	$10^9 A_s$	2.108	2.106 ± 0.084	$f\sigma_8(0.57)$	0.4683	0.469 ± 0.011
$\boldsymbol{A^{dustTT}_{143\times217}}$	18.10	16.6 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8764	1.877 ± 0.012	$\sigma_8(0.57)$	0.6027	0.602 ± 0.012
$\boldsymbol{A^{dustTT}_{217}}$	82.8	81.3 ± 7.4	D_{40}	1220.1	1226 ± 15	f^{143}_{2000}	26.25	27.7 ± 2.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0819	0.0816 ± 0.0056	D_{220}	5732.5	5736 ± 40	$f^{143\times217}_{2000}$	30.07	30.7 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04955	0.0492 ± 0.0050	D_{810}	2532.4	2531 ± 14	f^{217}_{2000}	103.49	104.5 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0994	0.099 ± 0.032	D_{1420}	815.11	813.6 ± 4.8	χ^2_{lowTEB}	10494.37	10495.8 ± 1.6
$\boldsymbol{A^{dustEE}_{143}}$	0.1009	0.1006 ± 0.0068	D_{2000}	232.11	231.3 ± 1.7	χ^2_{plik}	2429.6	2448.8 ± 6.7
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2221	0.223 ± 0.047	$n_{s,0.002}$	0.9704	0.9680 ± 0.0051	χ^2_{prior}	6.48	19.1 ± 5.4
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	Y_P	0.245428	0.245407 ± 0.000078	χ^2_{CMB}	12924.0	12944.6 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1417	0.140 ± 0.038	Y_P^{BBN}	0.246755	0.246734 ± 0.000078			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1306	0.131 ± 0.029	10^5D/H	2.5763	2.585 ± 0.033			

Best-fit $\chi^2_{eff} = 12930.49$; $\bar{\chi}^2_{eff} = 12963.78$; $R - 1 = 0.01020$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.37 plik_dx11dr2_HM_v18_TTTEEE: 2429.63

4.3 base_Alensf_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022672	0.02265 ± 0.00029 $(+0.1\sigma)$	$\boldsymbol{\beta_1^1}$	-0.08	-0.1 ± 1.0	r_*	145.15	145.15 ± 0.52 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11634	0.1164 ± 0.0025 (-0.2σ)	H_0	69.07	69.0 ± 1.2 $(+0.2\sigma)$	$100\theta_*$	1.041580	1.04159 ± 0.00050 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04142	1.04142 ± 0.00052 $(+0.2\sigma)$	Ω_Λ	0.7073	$0.707^{+0.016}_{-0.014}$ $(+0.2\sigma)$	z_{drag}	1060.35	1060.32 ± 0.57 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0616	0.062 ± 0.022 $(+0.1\sigma)$	Ω_m	0.2927	$0.293^{+0.014}_{-0.016}$ (-0.2σ)	r_{drag}	147.73	147.74 ± 0.50 $(+0.1\sigma)$
$\boldsymbol{A_L^{fid}}$	1.168	1.163 ± 0.066 (-0.1σ)	$\Omega_m h^2$	0.13966	0.1397 ± 0.0023 (-0.2σ)	k_D	0.14043	0.14041 ± 0.00052 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0478	3.048 ± 0.043 (-0.0σ)	$\Omega_m h^3$	0.09647	0.09644 ± 0.00050 $(+0.1\sigma)$	$100\theta_D$	0.160526	0.16056 ± 0.00031 (-0.1σ)
$\boldsymbol{n_s}$	0.9773	0.9768 ± 0.0072 $(+0.4\sigma)$	σ_8	0.8030	0.803 ± 0.019 (-0.0σ)	z_{eq}	3322	3323 ± 54 (-0.2σ)
$\boldsymbol{y_{cal}}$	0.99989	0.9999 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_m^{0.5}$	0.4344	0.435 ± 0.017 (-0.1σ)	$100\theta_{eq}$	0.8292	0.829 ± 0.011 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	229.8	234 ± 23 (-0.5σ)	$\sigma_8 \Omega_m^{0.25}$	0.5906	0.591 ± 0.018 (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07265	0.07264 ± 0.00089 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	30.4	33 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9661	0.967 ± 0.026 (-0.1σ)	$H(0.57)$	93.71	93.70 ± 0.55 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	103.1	100 ± 10 $(+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.385	2.388 ± 0.062 (-0.2σ)	$D_A(0.57)$	1367.7	1368 ± 16 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	45.3	43 ± 7 (-2.8σ)	z_{re}	8.27	$8.17^{+2.4}_{-1.9}$ $(+0.1\sigma)$	$F_{AP}(0.57)$	0.67119	0.6714 ± 0.0038 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	5.97	$3.82^{+1.9}_{-2.3}$ (-1.0σ)	$10^9 A_s$	2.107	2.110 ± 0.091 (-0.0σ)	$f\sigma_8(0.57)$	0.4619	0.462 ± 0.013 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.496	0.53 ± 0.13	$10^9 A_s e^{-2\tau}$	1.8628	1.863 ± 0.014 (-0.4σ)	$\sigma_8(0.57)$	0.6020	0.602 ± 0.013 $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1202.5	1205 ± 17 (-0.5σ)	Y_P^{BBN}	0.246429	0.24642 ± 0.00012 (-3.2σ)
$\boldsymbol{A^{kSZ}}$	0.02	< 5.58 $(+0.7\sigma)$	D_{220}	5718.6	5718 ± 42 (-0.5σ)	f_{2000}^{143}	24.55	25 ± 3 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.987	0.99 ± 0.19	D_{810}	2523.8	2523 ± 14 (-0.3σ)	f_{2000}^{217}	103.14	103.5 ± 2.3 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.013	1.02 ± 0.18	D_{1420}	814.9	814.4 ± 5.1 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	28.15	28.4 ± 2.5 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.213	1.23 ± 0.12	$n_{s,0.002}$	0.9773	0.9768 ± 0.0072 $(+0.4\sigma)$	χ^2_{lowTEB}	10493.13	10494.4 ± 1.7 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.982	0.96 ± 0.18	Y_P	0.245107	0.24510 ± 0.00012 (-3.2σ)	$\chi^2_{CamSpec}$	8043.1	8057.8 ± 5.7
$\boldsymbol{c_{100}}$	0.99696	0.99684 ± 0.00098 (-1.4σ)	Age/Gyr	13.7363	13.738 ± 0.049 (-0.2σ)	χ^2_{prior}	2.78	8.43 ± 3.5 $(+0.4\sigma)$
$\boldsymbol{c_{217}}$	0.99648	0.9967 ± 0.0018 $(+0.8\sigma)$	z_*	1089.21	1089.24 ± 0.52 (-0.2σ)	χ^2_{CMB}	18536.2	18552.2 ± 5.8 $(+1281.2\sigma)$

Best-fit $\chi^2_{eff} = 18538.96$; $\Delta\chi^2_{eff} = 7283.38$; $\bar{\chi}^2_{eff} = 18560.58$; $\Delta\bar{\chi}^2_{eff} = 7283.57$; $R - 1 = 0.00542$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.13 (Δ -0.29) CamSpec like_v9.10CMH_unified: 8043.05

4.4 base_Alensf_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022528	0.02251 ± 0.00018 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.00019	1.0002 ± 0.0043	r_*	144.871	144.87 ± 0.33 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11784	0.1179 ± 0.0015 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.07	-0.1 ± 1.0	$100\theta_*$	1.041165	1.04116 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040988	1.04098 ± 0.00031 $(+0.2\sigma)$	H_0	68.27	68.24 ± 0.70 $(+0.5\sigma)$	$z_{\rm drag}$	1060.123	1060.10 ± 0.36 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.0593	0.059 ± 0.021 $(+0.1\sigma)$	Ω_Λ	0.6974	$0.6970^{+0.0099}_{-0.0089}$ $(+0.4\sigma)$	$r_{\rm drag}$	147.490	147.49 ± 0.32 $(+0.1\sigma)$
$\boldsymbol{A_L^{fid}}$	1.109	1.107 ± 0.051 (-0.5σ)	$\Omega_{\rm m}$	0.3026	$0.3030^{+0.0089}_{-0.0099}$ (-0.4σ)	$k_{\rm D}$	0.140583	0.14057 ± 0.00034 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0467	3.046 ± 0.041 (-0.0σ)	$\Omega_{\rm m}h^2$	0.14102	0.1410 ± 0.0014 (-0.3σ)	$100\theta_{\rm D}$	0.160604	0.16062 ± 0.00020 (-0.7σ)
$\boldsymbol{n_s}$	0.97194	0.9715 ± 0.0048 $(+0.7\sigma)$	$\Omega_{\rm m}h^3$	0.096270	0.09625 ± 0.00031 $(+0.4\sigma)$	$z_{\rm eq}$	3354.4	3355 ± 34 (-0.3σ)
$\boldsymbol{y_{cal}}$	0.99999	0.9998 ± 0.0025 (-0.1σ)	σ_8	0.8065	0.806 ± 0.017 (-0.1σ)	$100\theta_{\rm eq}$	0.8224	0.8223 ± 0.0066 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	234.8	238 ± 23 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4436	0.444 ± 0.013 (-0.3σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07205	0.07204 ± 0.00053 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	33.2	35 ± 8 (-0.7σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.5981	0.598 ± 0.015 (-0.2σ)	$H(0.57)$	93.327	93.31 ± 0.32 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	102.4	100 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9761	0.976 ± 0.023 (-0.2σ)	$D_{\rm A}(0.57)$	1378.5	1378.9 ± 9.4 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	46.3	44 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.411	2.412 ± 0.055 (-0.3σ)	$F_{\rm AP}(0.57)$	0.67375	0.6739 ± 0.0024 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	5.66	$3.68^{+1.8}_{-2.4}$ (-1.0σ)	$z_{\rm re}$	8.11	$7.98^{+2.4}_{-1.9}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4666	0.467 ± 0.011 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.492	0.52 ± 0.12	$10^9A_{\rm s}$	2.104	2.105 ± 0.087 (-0.0σ)	$\sigma_8(0.57)$	0.6021	0.602 ± 0.013 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9A_{\rm s}e^{-2\tau}$	1.8692	1.868 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246372	$0.246364^{+0.000081}_{-0.000073}$ (-4.7σ)
$\boldsymbol{A^{kSZ}}$	0.68	$4.53^{+2.0}_{-3.9}$ $(+0.9\sigma)$	D_{40}	1213.5	1215 ± 14 (-0.8σ)	f_{2000}^{143}	26.22	26.5 ± 2.8 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.985	0.99 ± 0.19	D_{220}	5718.7	5715 ± 39 (-0.5σ)	f_{2000}^{217}	104.29	104.6 ± 2.0 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.018	1.02 ± 0.18	D_{810}	2526.8	2525 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	29.47	29.6 ± 2.1 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.205	1.23 ± 0.12	D_{1420}	814.54	813.6 ± 4.7 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10493.91	10495.0 ± 1.6 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.986	0.98 ± 0.18	$n_{\rm s,0.002}$	0.97194	0.9715 ± 0.0048 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12935.3	12951.6 ± 5.9
$\boldsymbol{c_{100}}$	0.99694	0.99683 ± 0.00098 (-1.8σ)	$Y_{\rm P}$	0.245043	0.245036 ± 0.000079 (-4.8σ)	$\chi^2_{\rm prior}$	2.76	8.75 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99656	0.9968 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.7704	13.772 ± 0.029 (-0.5σ)	$\chi^2_{\rm CMB}$	23429.2	23446.6 ± 6.1 $(+1541.2\sigma)$
$\boldsymbol{c_{TE}}$	1.00154	1.0016 ± 0.0046	z_*	1089.516	1089.54 ± 0.32 (-0.6σ)			

Best-fit $\chi^2_{\rm eff} = 23432.00$; $\Delta\chi^2_{\rm eff} = 10501.51$; $\bar{\chi}^2_{\rm eff} = 23455.37$; $\Delta\bar{\chi}^2_{\rm eff} = 10491.59$; $R - 1 = 0.01370$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.91 (Δ -0.47) CamSpec like_v9.10CMH_unified: 12935.33

4.5 base_Alensf_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022664	0.02256 ± 0.00026	Ω_m	0.2963	0.300 ± 0.012	D_A/Gpc	13.9230	13.920 ± 0.041
$\boldsymbol{\Omega_c h^2}$	0.11695	0.1174 ± 0.0020	$\Omega_m h^2$	0.14026	0.1406 ± 0.0019	z_{drag}	1060.39	1060.19 ± 0.53
$\boldsymbol{100\theta_{MC}}$	1.041276	1.04119 ± 0.00047	$\Omega_m h^3$	0.096499	0.09635 ± 0.00049	r_{drag}	147.575	147.57 ± 0.44
$\boldsymbol{\tau}$	0.0719	0.069 ± 0.017	σ_8	0.8144	0.8132 ± 0.0096	k_D	0.140575	0.14051 ± 0.00048
$\boldsymbol{A_L^{fid}}$	1.103	1.088 ± 0.060	$\sigma_8\Omega_m^{0.5}$	0.4433	0.4450 ± 0.0092	$100\theta_D$	0.160513	0.16063 ± 0.00029
$\boldsymbol{\ln(10^{10}A_s)}$	3.0728	3.068 ± 0.030	$\sigma_8\Omega_m^{0.25}$	0.6009	0.6016 ± 0.0080	z_{eq}	3336.3	3345 ± 45
$\boldsymbol{n_s}$	0.9752	0.9722 ± 0.0063	$\sigma_8/h^{0.5}$	0.9819	0.982 ± 0.012	k_{eq}	0.010183	0.01021 ± 0.00014
$\boldsymbol{y_{cal}}$	1.00020	1.0002 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4260	2.431 ± 0.027	$100\theta_{eq}$	0.8264	0.8246 ± 0.0089
$\boldsymbol{A_{217}^{CIB}}$	58.1	61.3 ± 6.7	z_{re}	9.25	$8.96^{+1.7}_{-1.4}$	$100\theta_{s,eq}$	0.45598	0.4551 ± 0.0045
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.904	> 0.399	$10^9 A_s$	2.160	2.150 ± 0.066	$r_{drag}/D_V(0.57)$	0.07242	0.07226 ± 0.00072
$\boldsymbol{A_{143}^{tSZ}}$	6.70	$5.61^{+2.1}_{-1.8}$	$10^9 A_s e^{-2\tau}$	1.8709	1.871 ± 0.013	$H(0.57)$	93.600	93.46 ± 0.45
$\boldsymbol{A_{100}^{PS}}$	236.3	248 ± 30	D_{40}	1215.0	1220 ± 13	$D_A(0.57)$	1371.2	1375 ± 13
$\boldsymbol{A_{143}^{PS}}$	45.2	39 ± 8	D_{220}	5740.1	5738 ± 41	$F_{AP}(0.57)$	0.67213	0.6730 ± 0.0032
$\boldsymbol{A_{143\times217}^{PS}}$	53.7	38 ± 10	D_{810}	2531.1	2528 ± 14	$f\sigma_8(0.57)$	0.4695	0.4696 ± 0.0056
$\boldsymbol{A_{217}^{PS}}$	107.6	98.1 ± 11	D_{1420}	816.5	814.3 ± 5.1	$\sigma_8(0.57)$	0.6096	0.6079 ± 0.0086
$\boldsymbol{A^{kSZ}}$	0.00	< 3.39	D_{2000}	233.42	232.3 ± 2.0	f_{2000}^{143}	24.90	27 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.37	7.45 ± 1.9	$n_{s,0.002}$	0.9752	0.9722 ± 0.0063	$f_{2000}^{143\times217}$	28.81	29.7 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	8.97	8.91 ± 1.8	Y_P	0.245522	0.24548 ± 0.00012	f_{2000}^{217}	102.46	103.7 ± 2.2
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.98	16.7 ± 4.1	Y_P^{BBN}	0.246849	0.24680 ± 0.00012	$\chi^2_{lensing}$	8.83	9.69 ± 1.3
$\boldsymbol{A_{217}^{dustTT}}$	82.7	81.6 ± 7.4	10^5D/H	2.5366	2.556 ± 0.048	χ^2_{lowTEB}	10494.05	10495.1 ± 1.3
$\boldsymbol{c_{100}}$	0.99805	0.99792 ± 0.00078	Age/Gyr	13.7440	13.758 ± 0.042	χ^2_{plik}	760.6	774.4 ± 5.4
$\boldsymbol{c_{217}}$	0.99535	0.9956 ± 0.0015	z_*	1089.289	1089.46 ± 0.45	χ^2_{prior}	1.28	7.10 ± 3.4
H_0	68.80	68.53 ± 0.97	r_*	144.998	144.96 ± 0.44	χ^2_{CMB}	11263.5	11279.1 ± 5.7
Ω_Λ	0.7037	0.700 ± 0.012	$100\theta_*$	1.041431	1.04136 ± 0.00046			

Best-fit $\chi^2_{eff} = 11264.76$; $\bar{\chi}^2_{eff} = 11286.25$; $R - 1 = 0.00753$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 8.83 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.05 plik_dx11dr2_HM_v18_TT: 760.60

4.6 base_Alensf_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022432	0.02240 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.303 ± 0.085	Age/Gyr	13.7837	13.789 ± 0.027
$\boldsymbol{\Omega_c h^2}$	0.11834	0.1185 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.152	0.153 ± 0.053	z_*	1089.699	1089.76 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040937	1.04090 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335	0.335 ± 0.080	r_*	144.813	144.79 ± 0.31
$\boldsymbol{\tau}$	0.0616	0.059 ± 0.014	$\boldsymbol{A^{dustTE}_{217}}$	1.651	1.65 ± 0.26	$100\theta_*$	1.041111	1.04109 ± 0.00032
$\boldsymbol{A^{fid}_L}$	1.0671	1.059 ± 0.048	$\boldsymbol{c_{100}}$	0.99825	0.99818 ± 0.00077	D_A/Gpc	13.9095	13.908 ± 0.028
$\boldsymbol{\ln(10^{10}A_s)}$	3.0550	3.051 ± 0.026	$\boldsymbol{c_{217}}$	0.99561	0.9957 ± 0.0014	z_{drag}	1059.971	1059.90 ± 0.33
$\boldsymbol{n_s}$	0.96940	0.9680 ± 0.0048	H_0	68.00	67.89 ± 0.67	r_{drag}	147.461	147.45 ± 0.30
$\boldsymbol{y_{cal}}$	0.99993	1.0001 ± 0.0025	Ω_Λ	0.6941	0.6927 ± 0.0088	k_D	0.140524	0.14051 ± 0.00031
$\boldsymbol{A^{CIB}_{217}}$	61.4	62.3 ± 6.5	Ω_m	0.3059	0.3073 ± 0.0088	$100\theta_D$	0.160726	0.16077 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.620	> 0.402	$\Omega_m h^2$	0.14142	0.1416 ± 0.0013	z_{eq}	3364.0	3368 ± 32
$\boldsymbol{A^{tSZ}_{143}}$	6.85	$5.58^{+2.0}_{-1.8}$	$\Omega_m h^3$	0.096157	0.09611 ± 0.00030	k_{eq}	0.010267	0.010279 ± 0.000098
$\boldsymbol{A^{PS}_{100}}$	245.3	254 ± 27	σ_8	0.8110	0.8097 ± 0.0091	$100\theta_{eq}$	0.8204	0.8196 ± 0.0062
$\boldsymbol{A^{PS}_{143}}$	44.3	41 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4485	0.4488 ± 0.0073	$100\theta_{s,eq}$	0.45302	0.4527 ± 0.0032
$\boldsymbol{A^{PS}_{143\times217}}$	48.5	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6031	0.6028 ± 0.0073	$r_{drag}/D_V(0.57)$	0.07187	0.07181 ± 0.00050
$\boldsymbol{A^{PS}_{217}}$	104.6	98.7 ± 11	$\sigma_8/h^{0.5}$	0.9835	0.983 ± 0.011	$H(0.57)$	93.188	93.14 ± 0.30
$\boldsymbol{A^{kSZ}}$	0.00	< 3.38	$\langle d^2\rangle^{1/2}$	2.4323	2.433 ± 0.027	$D_A(0.57)$	1382.3	1383.7 ± 8.9
$\boldsymbol{A^{dustTT}_{100}}$	7.29	7.41 ± 1.9	z_{re}	8.36	$8.11^{+1.5}_{-1.3}$	$F_{AP}(0.57)$	0.67460	0.6749 ± 0.0023
$\boldsymbol{A^{dustTT}_{143}}$	8.90	8.82 ± 1.8	$10^9 A_s$	2.122	2.115 ± 0.055	$f\sigma_8(0.57)$	0.4701	0.4696 ± 0.0053
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.67	16.6 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8761	1.877 ± 0.012	$\sigma_8(0.57)$	0.6047	0.6034 ± 0.0075
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.2 ± 7.3	D_{40}	1223.2	1226 ± 12	f^{143}_{2000}	26.77	27.7 ± 2.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0817	0.0816 ± 0.0056	D_{220}	5733.4	5736 ± 39	$f^{143\times217}_{2000}$	30.35	30.7 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04940	0.0492 ± 0.0050	D_{810}	2531.5	2531 ± 14	f^{217}_{2000}	103.89	104.5 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0988	0.0998 ± 0.032	D_{1420}	814.51	813.8 ± 4.9	$\chi^2_{lensing}$	8.77	9.62 ± 1.2
$\boldsymbol{A^{dustEE}_{143}}$	0.1008	0.1006 ± 0.0069	D_{2000}	231.75	231.3 ± 1.7	χ^2_{lowTEB}	10494.61	10495.4 ± 1.1
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2222	0.223 ± 0.047	$n_{s,0.002}$	0.96940	0.9680 ± 0.0048	χ^2_{plik}	2429.3	2448.6 ± 6.6
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	Y_P	0.245420	0.245405 ± 0.000075	χ^2_{prior}	6.63	19.2 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1418	0.141 ± 0.038	Y_P^{BBN}	0.246747	0.246732 ± 0.000075	χ^2_{CMB}	12932.7	12953.5 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1311	0.131 ± 0.029	10^5D/H	2.5796	2.586 ± 0.031			

Best-fit $\chi^2_{eff} = 12939.35$; $\bar{\chi}^2_{eff} = 12972.78$; $R - 1 = 0.01140$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 8.78 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.61 plik_dx11dr2_HM_v18_TTTEEE: 2429.34

4.7 base_Alensf_CamSpecHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022571	0.02257 ± 0.00027 $(+0.0\sigma)$	H_0	68.60	68.59 ± 0.98 $(+0.1\sigma)$	$z_{\rm drag}$	1060.20	1060.18 ± 0.53 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.11727	0.1173 ± 0.0020 (-0.1σ)	Ω_Λ	0.7014	0.701 ± 0.012 $(+0.1\sigma)$	$r_{\rm drag}$	147.594	147.59 ± 0.43 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.041232	1.04124 ± 0.00047 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.2986	0.299 ± 0.012 (-0.1σ)	$k_{\rm D}$	0.140504	0.14050 ± 0.00048 (-0.0σ)
$\boldsymbol{\tau}$	0.0721	0.072 ± 0.017 $(+0.2\sigma)$	$\Omega_{\rm m}h^2$	0.14048	0.1405 ± 0.0019 (-0.1σ)	$100\theta_{\rm D}$	0.160602	0.16061 ± 0.00030 (-0.0σ)
$\boldsymbol{A_L^{fid}}$	1.087	1.080 ± 0.061 (-0.1σ)	$\Omega_{\rm m}h^3$	0.096366	0.09636 ± 0.00048 $(+0.0\sigma)$	$z_{\rm eq}$	3341.7	3342 ± 45 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0715	3.072 ± 0.030 $(+0.1\sigma)$	σ_8	0.8155	0.8154 ± 0.0096 $(+0.2\sigma)$	$100\theta_{\rm eq}$	0.8251	0.8251 ± 0.0089 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9748	0.9743 ± 0.0065 $(+0.3\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4456	0.4457 ± 0.0092 $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07230	0.07230 ± 0.00073 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.00018	1.0002 ± 0.0025 $(+0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6028	0.6028 ± 0.0080 $(+0.2\sigma)$	$H(0.57)$	93.484	$93.49^{+0.44}_{-0.50}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	232.4	235 ± 23 (-0.4σ)	$\sigma_8/h^{0.5}$	0.9846	0.985 ± 0.012 $(+0.2\sigma)$	$D_{\rm A}(0.57)$	1374.1	1374 ± 13 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	32.1	34 ± 8 (-0.6σ)	$\langle d^2\rangle^{1/2}$	2.4288	2.431 ± 0.027 (-0.0σ)	$F_{\rm AP}(0.57)$	0.67272	0.6728 ± 0.0032 (-0.1σ)
$\boldsymbol{A_{217}^{PS}}$	103.4	101 ± 10 $(+0.2\sigma)$	$z_{\rm re}$	9.31	$9.26^{+1.6}_{-1.4}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4707	0.4706 ± 0.0056 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	45.4	43 ± 7 (-2.8σ)	$10^9A_{\rm s}$	2.157	2.159 ± 0.066 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6098	0.6098 ± 0.0086 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	5.61	$3.74^{+1.9}_{-2.3}$ (-1.0σ)	$10^9A_{\rm s}e^{-2\tau}$	1.8675	1.867 ± 0.013 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.246389	0.24639 ± 0.00011 (-3.6σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.497	0.53 ± 0.12	D_{40}	1212.0	1214 ± 13 (-0.5σ)	f_{2000}^{143}	25.24	26 ± 3 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	D_{220}	5715.8	5717 ± 41 (-0.5σ)	f_{2000}^{217}	103.74	104.0 ± 2.3 $(+0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	0.46	< 5.66 $(+0.7\sigma)$	D_{810}	2526.3	2526 ± 14 (-0.2σ)	$f_{2000}^{143\times217}$	28.72	28.9 ± 2.5 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.992	0.99 ± 0.19	D_{1420}	815.0	814.6 ± 5.1 $(+0.1\sigma)$	$\chi^2_{\rm lensing}$	8.87	9.74 ± 1.4 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.008	1.02 ± 0.18	$n_{\rm s,0.002}$	0.9748	0.9743 ± 0.0065 $(+0.3\sigma)$	$\chi^2_{\rm lowTEB}$	10493.93	10494.7 ± 1.3 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.218	1.23 ± 0.12	$Y_{\rm P}$	0.245062	0.24506 ± 0.00011 (-3.6σ)	$\chi^2_{\rm CamSpec}$	8042.7	8057.0 ± 5.5
$\boldsymbol{A_{143\times217}^{dust}}$	0.986	0.97 ± 0.18	Age/Gyr	13.7560	13.756 ± 0.042 (-0.1σ)	$\chi^2_{\rm prior}$	2.86	8.41 ± 3.5 $(+0.4\sigma)$
$\boldsymbol{c_{100}}$	0.99695	0.99684 ± 0.00097 (-1.4σ)	z_*	1089.418	1089.43 ± 0.46 (-0.1σ)	$\chi^2_{\rm CMB}$	18545.5	18561.4 ± 5.9 $(+1268.0\sigma)$
$\boldsymbol{c_{217}}$	0.99660	0.9968 ± 0.0018 $(+0.8\sigma)$	r_*	144.988	144.99 ± 0.44 $(+0.1\sigma)$			
$\boldsymbol{\beta_1^1}$	−0.05	-0.1 ± 1.0	$100\theta_*$	1.041412	1.04142 ± 0.00046 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18548.40$; $\Delta\chi^2_{\rm eff} = 7283.64$; $\bar{\chi}^2_{\rm eff} = 18569.82$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.56$; $R - 1 = 0.00769$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 8.87 (Δ 0.04) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.93 (Δ -0.12) CamSpec like_v9.10CMH_unified: 8042.74

4.8 base_Alensf_CamSpecHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022508	0.02250 ± 0.00018 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.00010	1.0002 ± 0.0042	r_*	144.850	144.84 ± 0.30 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11799	0.1180 ± 0.0014 (-0.3σ)	$\boldsymbol{\beta_1^1}$	-0.07	-0.06 ± 0.99	$100\theta_*$	1.041131	1.04114 ± 0.00031 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040947	1.04096 ± 0.00031 $(+0.2\sigma)$	H_0	68.19	68.17 ± 0.65 $(+0.4\sigma)$	$z_{\rm drag}$	1060.085	1060.07 ± 0.35 $(+0.5\sigma)$
$\boldsymbol{\tau}$	0.0648	0.065 ± 0.014 $(+0.4\sigma)$	Ω_Λ	0.6965	0.6960 ± 0.0085 $(+0.4\sigma)$	$r_{\rm drag}$	147.475	147.47 ± 0.30 $(+0.1\sigma)$
$\boldsymbol{A_L^{fid}}$	1.0380	1.036 ± 0.048 (-0.5σ)	$\Omega_{\rm m}$	0.3035	0.3040 ± 0.0085 (-0.4σ)	$k_{\rm D}$	0.140584	0.14058 ± 0.00032 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0578	3.057 ± 0.025 $(+0.2\sigma)$	$\Omega_{\rm m}h^2$	0.14114	0.1412 ± 0.0013 (-0.3σ)	$100\theta_{\rm D}$	0.160621	0.16064 ± 0.00020 (-0.7σ)
$\boldsymbol{n_s}$	0.97154	0.9710 ± 0.0049 $(+0.6\sigma)$	$\Omega_{\rm m}h^3$	0.096241	0.09623 ± 0.00032 $(+0.4\sigma)$	$z_{\rm eq}$	3357.3	3358 ± 31 (-0.3σ)
$\boldsymbol{y_{cal}}$	0.99998	1.0000 ± 0.0025 (-0.1σ)	σ_8	0.8114	0.8112 ± 0.0089 $(+0.2\sigma)$	$100\theta_{\rm eq}$	0.8218	0.8216 ± 0.0060 $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	236.1	239 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4470	0.4472 ± 0.0071 (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071998	0.07198 ± 0.00048 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	33.5	36 ± 8 (-0.7σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6023	0.6023 ± 0.0070 (-0.1σ)	$H(0.57)$	93.287	93.28 ± 0.30 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	102.7	100 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9826	0.983 ± 0.011 (-0.0σ)	$D_{\rm A}(0.57)$	1379.6	1380.0 ± 8.7 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	46.0	44 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.4272	2.428 ± 0.026 (-0.2σ)	$F_{\rm AP}(0.57)$	0.67400	0.6741 ± 0.0022 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	5.40	$3.68^{+1.8}_{-2.4}$ (-1.0σ)	$z_{\rm re}$	8.64	$8.58^{+1.4}_{-1.2}$ $(+0.3\sigma)$	$f\sigma_8(0.57)$	0.4697	0.4697 ± 0.0052 $(+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.485	0.53 ± 0.12	$10^9A_{\rm s}$	2.128	2.127 ± 0.054 $(+0.2\sigma)$	$\sigma_8(0.57)$	0.6056	0.6053 ± 0.0073 $(+0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9A_{\rm s}e^{-2\tau}$	1.8696	1.869 ± 0.012 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246364	0.246356 ± 0.000075 (-5.0σ)
$\boldsymbol{A^{kSZ}}$	1.04	$4.55^{+1.8}_{-4.2}$ $(+0.8\sigma)$	D_{40}	1216.1	1217 ± 12 (-0.8σ)	f_{2000}^{143}	26.39	26.7 ± 2.9 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.984	0.99 ± 0.19	D_{220}	5717.2	5717 ± 39 (-0.5σ)	f_{2000}^{217}	104.50	104.7 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.008	1.02 ± 0.18	D_{810}	2526.8	2526 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	29.59	29.8 ± 2.1 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.215	1.22 ± 0.12	D_{1420}	814.44	814.0 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lensing}$	8.76	9.55 ± 1.2 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.990	0.97 ± 0.18	$n_{\rm s,0.002}$	0.97154	0.9710 ± 0.0049 $(+0.6\sigma)$	$\chi^2_{\rm lowTEB}$	10494.11	10494.66 ± 0.98 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99693	0.99683 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.245034	0.245028 ± 0.000077 (-5.0σ)	$\chi^2_{\rm CamSpec}$	12935.1	12951.3 ± 5.9
$\boldsymbol{c_{217}}$	0.99665	0.9968 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.7741	13.775 ± 0.027 (-0.5σ)	$\chi^2_{\rm prior}$	2.89	8.77 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.00171	1.0018 ± 0.0046	z_*	1089.554	1089.58 ± 0.31 (-0.6σ)	$\chi^2_{\rm CMB}$	23438.0	23455.5 ± 6.1 $(+1539.6\sigma)$

Best-fit $\chi^2_{\rm eff} = 23440.85$; $\Delta\chi^2_{\rm eff} = 10501.50$; $\bar{\chi}^2_{\rm eff} = 23464.24$; $\Delta\bar{\chi}^2_{\rm eff} = 10491.46$; $R - 1 = 0.01679$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 8.76 (Δ -0.02) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.11 (Δ -0.50) CamSpec like_v9.10CMH_unified: 12935.10

5 Aphiphi

5.1 base_Aphiphi_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022264	0.02224 ± 0.00023	Ω_m	0.3127	0.313 ± 0.013	D_A/Gpc	13.8952	13.896 ± 0.045
$\boldsymbol{\Omega_c h^2}$	0.11942	0.1195 ± 0.0021	$\Omega_m h^2$	0.14233	0.1424 ± 0.0020	z_{drag}	1059.666	1059.60 ± 0.47
$\boldsymbol{100\theta_{MC}}$	1.040904	1.04087 ± 0.00047	$\Omega_m h^3$	0.096020	0.09598 ± 0.00046	r_{drag}	147.362	147.37 ± 0.49
$\boldsymbol{\tau}$	0.0796	0.078 ± 0.019	σ_8	0.8298	0.829 ± 0.014	k_D	0.14050	0.14047 ± 0.00053
$\boldsymbol{\ln(10^{10} A_s)}$	3.0922	3.089 ± 0.036	$\sigma_8 \Omega_m^{0.5}$	0.4640	0.464 ± 0.013	$100\theta_D$	0.160920	0.16095 ± 0.00027
$\boldsymbol{n_s}$	0.9665	0.9661 ± 0.0062	$\sigma_8 \Omega_m^{0.25}$	0.6205	0.620 ± 0.013	z_{eq}	3385.8	3387 ± 49
$\boldsymbol{A_L^{\phi\phi}}$	0.9471	0.950 ± 0.040	$\sigma_8/h^{0.5}$	1.0103	1.009 ± 0.019	k_{eq}	0.010334	0.01034 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00024	1.0004 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.4961	2.495 ± 0.045	$100\theta_{eq}$	0.8159	0.8158 ± 0.0092
$\boldsymbol{A_{217}^{CIB}}$	66.8	63.8 ± 6.6	z_{re}	10.12	$9.90^{+1.8}_{-1.6}$	$100\theta_{s,eq}$	0.45084	0.4508 ± 0.0047
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.04	—	$10^9 A_s$	2.203	2.198 ± 0.080	$r_{drag}/D_V(0.57)$	0.07151	0.07150 ± 0.00073
$\boldsymbol{A_{143}^{tSZ}}$	7.18	5.15 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8786	1.879 ± 0.014	$H(0.57)$	92.942	92.92 ± 0.41
$\boldsymbol{A_{100}^{PS}}$	252.0	258 ± 28	D_{40}	1234.7	1236 ± 15	$D_A(0.57)$	1389.5	1390 ± 13
$\boldsymbol{A_{143}^{PS}}$	38.9	44 ± 8	D_{220}	5717.2	5719 ± 41	$F_{AP}(0.57)$	0.67634	0.6765 ± 0.0033
$\boldsymbol{A_{143\times217}^{PS}}$	33.2	39^{+10}_{-10}	D_{810}	2533.6	2534 ± 14	$f\sigma_8(0.57)$	0.4828	0.4822 ± 0.0092
$\boldsymbol{A_{217}^{PS}}$	97.6	97 ± 10	D_{1420}	814.8	814.6 ± 5.0	$\sigma_8(0.57)$	0.6170	0.616 ± 0.011
$\boldsymbol{A^{kSZ}}$	0.00	< 4.50	D_{2000}	230.49	230.4 ± 1.8	f_{2000}^{143}	29.47	29.8 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.42 ± 1.9	$n_{s,0.002}$	0.9665	0.9661 ± 0.0062	$f_{2000}^{143\times217}$	32.14	32.3 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.01 ± 1.9	Y_P	0.245346	0.24533 ± 0.00010	f_{2000}^{217}	105.77	105.9 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.57	17.1 ± 4.2	Y_P^{BBN}	0.246672	0.24666 ± 0.00010	$\chi^2_{lensing}$	8.83	9.87 ± 1.4
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.8 ± 7.3	10^5D/H	2.6114	2.616 ± 0.044	χ^2_{lowTEB}	10496.47	10497.3 ± 2.3
$\boldsymbol{c_{100}}$	0.99791	0.99790 ± 0.00078	Age/Gyr	13.8063	13.809 ± 0.038	χ^2_{plik}	763.4	777.3 ± 5.7
$\boldsymbol{c_{217}}$	0.99591	0.9959 ± 0.0015	z_*	1090.005	1090.04 ± 0.42	χ^2_{prior}	2.06	7.25 ± 3.5
H_0	67.46	67.43 ± 0.96	r_*	144.663	144.66 ± 0.49	χ^2_{CMB}	11268.7	11284.5 ± 5.7
Ω_Λ	0.6873	0.687 ± 0.013	$100\theta_*$	1.041097	1.04107 ± 0.00047			

Best-fit $\chi^2_{\rm eff} = 11270.78$; $\bar{\chi}^2_{\rm eff} = 11291.72$; $R - 1 = 0.00620$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 8.83 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.47 plik_dx11dr2_HM_v18_TT: 763.43

5.2 base_Aphiphi_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022262	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.303 ± 0.084	Age/Gyr	13.8114	13.812 ± 0.026
$\boldsymbol{\Omega_c h^2}$	0.11970	0.1198 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.155 ± 0.054	z_*	1090.031	1090.04 ± 0.29
$\boldsymbol{100\theta_{MC}}$	1.040783	1.04078 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.339 ± 0.081	r_*	144.591	144.58 ± 0.32
$\boldsymbol{\tau}$	0.0805	0.079 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.669	1.67 ± 0.26	$100\theta_*$	1.040973	1.04097 ± 0.00032
$\boldsymbol{\ln(10^{10}A_s)}$	3.0959	3.093 ± 0.033	$\boldsymbol{c_{100}}$	0.99822	0.99816 ± 0.00077	D_A/Gpc	13.8900	13.889 ± 0.030
$\boldsymbol{n_s}$	0.96547	0.9647 ± 0.0048	$\boldsymbol{c_{217}}$	0.99595	0.9960 ± 0.0014	z_{drag}	1059.666	1059.66 ± 0.31
$\boldsymbol{A^{\phi\phi}_L}$	0.9376	0.940 ± 0.035	H_0	67.32	67.30 ± 0.65	r_{drag}	147.291	147.28 ± 0.31
$\boldsymbol{y_{cal}}$	1.00037	1.0004 ± 0.0025	Ω_Λ	0.6853	0.6849 ± 0.0090	k_D	0.140574	0.14058 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	65.4	63.8 ± 6.5	Ω_m	0.3147	0.3151 ± 0.0090	$100\theta_D$	0.160896	0.16090 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.24	—	$\Omega_m h^2$	0.14261	0.1427 ± 0.0014	z_{eq}	3392.5	3394 ± 33
$\boldsymbol{A^{tSZ}_{143}}$	7.06	5.37 ± 1.9	$\Omega_m h^3$	0.096006	0.09601 ± 0.00030	k_{eq}	0.010354	0.01036 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	254.2	259 ± 28	σ_8	0.8319	0.831 ± 0.013	$100\theta_{eq}$	0.8146	0.8144 ± 0.0062
$\boldsymbol{A^{PS}_{143}}$	41.8	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4666	0.4662 ± 0.0095	$100\theta_{s,eq}$	0.45015	0.4500 ± 0.0032
$\boldsymbol{A^{PS}_{143\times217}}$	39.5	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6230	0.622 ± 0.010	$r_{drag}/D_V(0.57)$	0.071396	0.07138 ± 0.00049
$\boldsymbol{A^{PS}_{217}}$	100.2	98 ± 10	$\sigma_8/h^{0.5}$	1.0138	1.013 ± 0.016	$H(0.57)$	92.882	92.88 ± 0.28
$\boldsymbol{A^{kSZ}}$	0.00	< 4.03	$\langle d^2\rangle^{1/2}$	2.5062	2.505 ± 0.038	$D_A(0.57)$	1391.5	1391.7 ± 8.8
$\boldsymbol{A^{dustTT}_{100}}$	7.37	7.43 ± 1.9	z_{re}	10.20	$10.0^{+1.7}_{-1.4}$	$F_{AP}(0.57)$	0.67683	0.6769 ± 0.0023
$\boldsymbol{A^{dustTT}_{143}}$	8.92	8.90 ± 1.8	$10^9 A_s$	2.211	2.206 ± 0.072	$f\sigma_8(0.57)$	0.4845	0.4838 ± 0.0077
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.64	17.0 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8821	1.882 ± 0.012	$\sigma_8(0.57)$	0.6181	0.617 ± 0.010
$\boldsymbol{A^{dustTT}_{217}}$	82.1	81.6 ± 7.4	D_{40}	1239.2	1241 ± 13	f^{143}_{2000}	28.91	29.4 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0812 ± 0.0057	D_{220}	5726.6	5729 ± 39	$f^{143\times217}_{2000}$	31.97	32.1 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0487	0.0488 ± 0.0050	D_{810}	2536.4	2536 ± 14	f^{217}_{2000}	105.53	105.8 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0993	0.0996 ± 0.033	D_{1420}	815.32	814.8 ± 4.8	$\chi^2_{lensing}$	8.84	9.85 ± 1.4
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.1002 ± 0.0068	D_{2000}	230.67	230.5 ± 1.6	χ^2_{lowTEB}	10496.95	10497.7 ± 2.2
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2241	0.224 ± 0.047	$n_{s,0.002}$	0.96547	0.9647 ± 0.0048	χ^2_{plik}	2431.9	2450.5 ± 6.8
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	Y_P	0.245345	0.245342 ± 0.000071	χ^2_{prior}	6.70	19.4 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1405	0.141 ± 0.038	Y_P^{BBN}	0.246671	0.246668 ± 0.000071	χ^2_{CMB}	12937.7	12958.1 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1316	0.131 ± 0.029	10^5D/H	2.6118	2.612 ± 0.029			

Best-fit $\chi^2_{eff} = 12944.37$; $\bar{\chi}^2_{eff} = 12977.44$; $R - 1 = 0.01215$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 8.84 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.95 plik_dx11dr2_HM_v18_TTTEEE: 2431.88

6 alpha1

6.1 base_alpha1_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022343	0.02239 ± 0.00025	Ω_m	0.3177	0.319 ± 0.014	D_A/Gpc	13.8728	13.868 ± 0.047
$\boldsymbol{\Omega_c h^2}$	0.12025	0.1204 ± 0.0023	$\Omega_m h^2$	0.14324	0.1434 ± 0.0022	z_{drag}	1059.89	1060.01 ± 0.52
$\boldsymbol{100\theta_{MC}}$	1.04061	1.04051 ± 0.00053	$\Omega_m h^3$	0.096171	0.09622 ± 0.00048	r_{drag}	147.06	146.98 ± 0.53
$\boldsymbol{\tau}$	0.0854	0.088 ± 0.021	σ_8	0.8346	0.835 ± 0.016	k_D	0.14088	0.14100 ± 0.00059
$\boldsymbol{\alpha_{-1}}$	−0.00081	$-0.0025^{+0.0025}_{-0.0011}$	$\sigma_8\Omega_m^{0.5}$	0.4705	0.472 ± 0.014	$100\theta_D$	0.160741	0.16066 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.1079	3.115 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.6266	0.628 ± 0.014	z_{eq}	3408	3411 ± 52
$\boldsymbol{n_s}$	0.9619	0.9597 ± 0.0073	$\sigma_8/h^{0.5}$	1.0186	1.020 ± 0.020	k_{eq}	0.010400	0.01041 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00029	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.5194	2.526 ± 0.049	$100\theta_{eq}$	0.8120	0.8115 ± 0.0097
$\boldsymbol{A_{217}^{CIB}}$	66.1	63.8 ± 6.6	z_{re}	10.63	$10.8^{+2.0}_{-1.7}$	$100\theta_{s,eq}$	0.44874	0.4484 ± 0.0050
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	$10^9 A_s$	2.237	$2.255^{+0.090}_{-0.10}$	$r_{drag}/D_V(0.57)$	0.07120	0.07116 ± 0.00077
$\boldsymbol{A_{143}^{tSZ}}$	7.11	5.11 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8860	1.888 ± 0.015	$H(0.57)$	92.849	$92.86^{+0.40}_{-0.46}$
$\boldsymbol{A_{100}^{PS}}$	252.3	258 ± 28	D_{40}	1222.0	1216^{+17}_{-20}	$D_A(0.57)$	1393.6	1394 ± 13
$\boldsymbol{A_{143}^{PS}}$	39.0	43 ± 8	D_{220}	5722.2	5727 ± 41	$F_{AP}(0.57)$	0.67761	0.6778 ± 0.0036
$\boldsymbol{A_{143\times217}^{PS}}$	33.7	38 ± 10	D_{810}	2536.5	2537 ± 14	$f\sigma_8(0.57)$	0.4868	0.4874 ± 0.0098
$\boldsymbol{A_{217}^{PS}}$	98.4	97 ± 10	D_{1420}	814.6	814.1 ± 5.1	$\sigma_8(0.57)$	0.6193	0.620 ± 0.012
$\boldsymbol{A^{kSZ}}$	0.00	< 4.71	D_{2000}	230.53	230.4 ± 1.9	f_{2000}^{143}	29.26	29.8 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.48	7.49 ± 1.9	$n_{s,0.002}$	0.9619	0.9597 ± 0.0073	$f_{2000}^{143\times217}$	31.98	32.2 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.00	9.02 ± 1.8	Y_P	0.245381	0.24540 ± 0.00011	f_{2000}^{217}	105.62	105.8 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.40	17.1 ± 4.2	Y_P^{BBN}	0.246707	0.24673 ± 0.00011	χ^2_{lowTEB}	10494.52	10495.0 ± 2.6
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	10^5D/H	2.5965	2.588 ± 0.047	χ^2_{plik}	764.3	779.7 ± 6.0
$\boldsymbol{c_{100}}$	0.99796	0.99791 ± 0.00077	Age/Gyr	13.8105	13.809 ± 0.040	χ^2_{prior}	1.91	7.28 ± 3.5
$\boldsymbol{c_{217}}$	0.99583	0.9959 ± 0.0015	z_*	1089.976	1089.93 ± 0.44	χ^2_{CMB}	11258.8	11274.7 ± 5.7
H_0	67.14	67.1 ± 1.0	r_*	144.39	144.33 ± 0.52			
Ω_Λ	0.6823	0.681 ± 0.014	$100\theta_*$	1.04080	1.04069 ± 0.00053			

Best-fit $\chi^2_{eff} = 11260.72$; $\bar{\chi}^2_{eff} = 11282.01$; $R - 1 = 0.00523$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.52 plik_dx11dr2_HM_v18_TT: 764.30

6.2 base_alpha1_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022397	0.02246 ± 0.00023	$\Omega_m h^2$	0.14199	0.1422 ± 0.0012	r_{drag}	147.338	147.23 ± 0.37
$\boldsymbol{\Omega_c h^2}$	0.11895	0.1191 ± 0.0013	$\Omega_m h^3$	0.096148	0.09623 ± 0.00049	k_D	0.140627	0.14079 ± 0.00050
$\boldsymbol{100\theta_{MC}}$	1.040817	1.04069 ± 0.00046	σ_8	0.8326	0.835 ± 0.016	$100\theta_D$	0.160740	0.16064 ± 0.00031
$\boldsymbol{\tau}$	0.0884	0.093 ± 0.020	$\sigma_8\Omega_m^{0.5}$	0.4634	0.465 ± 0.010	z_{eq}	3377.8	3383 ± 30
$\boldsymbol{\alpha_{-1}}$	-0.00060	$-0.0023^{+0.0024}_{-0.0011}$	$\sigma_8\Omega_m^{0.25}$	0.6211	0.623 ± 0.012	k_{eq}	0.010309	0.010326 ± 0.000091
$\boldsymbol{\ln(10^{10}A_s)}$	3.1105	3.121 ± 0.041	$\sigma_8/h^{0.5}$	1.0119	1.015 ± 0.019	$100\theta_{eq}$	0.8177	0.8168 ± 0.0055
$\boldsymbol{n_s}$	0.9654	0.9631 ± 0.0053	$\langle d^2\rangle^{1/2}$	2.5034	2.515 ± 0.047	$100\theta_{s,eq}$	0.45165	0.4511 ± 0.0028
$\boldsymbol{y_{cal}}$	1.00032	1.0004 ± 0.0025	z_{re}	10.85	11.1 ± 1.7	$r_{drag}/D_V(0.57)$	0.071653	0.07158 ± 0.00043
$\boldsymbol{A_{217}^{CIB}}$	66.3	63.5 ± 6.5	$10^9 A_s$	2.243	$2.269^{+0.090}_{-0.10}$	$H(0.57)$	93.071	93.07 ± 0.28
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	$10^9 A_s e^{-2\tau}$	1.8795	1.882 ± 0.012	$D_A(0.57)$	1386.0	1386.6 ± 7.8
$\boldsymbol{A_{143}^{tSZ}}$	7.09	5.17 ± 1.9	D_{40}	1219.1	1213^{+16}_{-19}	$F_{AP}(0.57)$	0.67557	0.6758 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	251.9	257 ± 28	D_{220}	5724.9	5731 ± 41	$f\sigma_8(0.57)$	0.4836	0.4853 ± 0.0093
$\boldsymbol{A_{143}^{PS}}$	38.4	42 ± 8	D_{810}	2534.9	2536 ± 14	$\sigma_8(0.57)$	0.6199	0.621 ± 0.012
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	38 ± 10	D_{1420}	815.14	814.8 ± 5.0	f_{2000}^{143}	29.19	29.4 ± 2.9
$\boldsymbol{A_{217}^{PS}}$	97.5	97 ± 10	D_{2000}	230.77	230.7 ± 1.8	$f_{2000}^{143\times217}$	31.81	31.8 ± 2.1
$\boldsymbol{A^{kSZ}}$	0.02	< 4.55	$n_{s,0.002}$	0.9654	0.9631 ± 0.0053	f_{2000}^{217}	105.46	105.5 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.47 ± 1.9	Y_P	0.245405	0.24543 ± 0.00010	χ^2_{lowTEB}	10494.69	10495.3 ± 2.7
$\boldsymbol{A_{143}^{dustTT}}$	8.94	9.02 ± 1.9	Y_P^{BBN}	0.246731	0.24676 ± 0.00010	χ^2_{plik}	764.4	779.2 ± 9.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.36	17.0 ± 4.2	10^5D/H	2.5862	2.575 ± 0.043	χ^2_{6DF}	0.0219	0.073 ± 0.091
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	Age/Gyr	13.7932	13.792 ± 0.030	χ^2_{MGS}	1.28	1.27 ± 0.54
$\boldsymbol{c_{100}}$	0.99793	0.99790 ± 0.00077	z_*	1089.793	1089.74 ± 0.33	$\chi^2_{DR11CMASS}$	2.468	3.00 ± 0.80
$\boldsymbol{c_{217}}$	0.99588	0.9958 ± 0.0015	r_*	144.681	144.59 ± 0.34	$\chi^2_{DR11LOWZ}$	0.61	0.85 ± 0.66
H_0	67.71	67.66 ± 0.58	$100\theta_*$	1.041006	1.04087 ± 0.00046	χ^2_{prior}	1.96	7.31 ± 3.6
Ω_Λ	0.6903	0.6892 ± 0.0077	D_A/Gpc	13.8982	13.892 ± 0.032	χ^2_{CMB}	11259.1	11274.5 ± 9.6
Ω_m	0.3097	0.3108 ± 0.0077	z_{drag}	1059.93	1060.07 ± 0.52	χ^2_{BAO}	4.38	5.20 ± 1.2

Best-fit $\chi^2_{eff} = 11265.42$; $\bar{\chi}^2_{eff} = 11286.95$; $R - 1 = 0.00775$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.47 DR11LOWZ: 0.61 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.69 plik_dx11dr2_HM_v18_TT: 764.38

6.3 base_alpha1_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022369	0.02243 ± 0.00025	Ω_m	0.3142	0.315 ± 0.013	D_A/Gpc	13.8833	13.879 ± 0.045
$\boldsymbol{\Omega_c h^2}$	0.11969	0.1198 ± 0.0021	$\Omega_m h^2$	0.14271	0.1429 ± 0.0020	z_{drag}	1059.89	1060.05 ± 0.52
$\boldsymbol{100\theta_{MC}}$	1.04072	1.04059 ± 0.00052	$\Omega_m h^3$	0.096172	0.09623 ± 0.00048	r_{drag}	147.17	147.09 ± 0.51
$\boldsymbol{\tau}$	0.0874	0.091 ± 0.021	σ_8	0.8342	0.835 ± 0.016	k_D	0.14078	0.14091 ± 0.00058
$\boldsymbol{\alpha_{-1}}$	-0.00077	$-0.0024^{+0.0025}_{-0.0011}$	$\sigma_8\Omega_m^{0.5}$	0.4676	0.469 ± 0.013	$100\theta_D$	0.160736	0.16064 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.1103	3.118 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.6246	0.626 ± 0.014	z_{eq}	3394.9	3399 ± 48
$\boldsymbol{n_s}$	0.9633	0.9613 ± 0.0070	$\sigma_8/h^{0.5}$	1.0162	1.018 ± 0.020	k_{eq}	0.010362	0.01037 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00032	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.5138	2.521 ± 0.049	$100\theta_{eq}$	0.8144	0.8139 ± 0.0091
$\boldsymbol{A_{217}^{CIB}}$	66.5	63.7 ± 6.6	z_{re}	10.78	$11.0^{+1.9}_{-1.7}$	$100\theta_{s,eq}$	0.44997	0.4497 ± 0.0047
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.06	—	10^9A_s	2.243	2.262 ± 0.094	$r_{drag}/D_V(0.57)$	0.07140	0.07135 ± 0.00072
$\boldsymbol{A_{143}^{tSZ}}$	7.15	5.13 ± 1.9	$10^9A_se^{-2\tau}$	1.8833	1.886 ± 0.014	$H(0.57)$	92.947	$92.96^{+0.39}_{-0.44}$
$\boldsymbol{A_{100}^{PS}}$	252.0	257 ± 28	D_{40}	1220.2	1215^{+17}_{-20}	$D_A(0.57)$	1390.3	1390 ± 13
$\boldsymbol{A_{143}^{PS}}$	39.0	43 ± 8	D_{220}	5723.2	5729 ± 41	$F_{AP}(0.57)$	0.67672	0.6769 ± 0.0033
$\boldsymbol{A_{143\times217}^{PS}}$	33.8	38 ± 10	D_{810}	2535.8	2536 ± 14	$f\sigma_8(0.57)$	0.4857	0.4865 ± 0.0098
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	D_{1420}	814.8	814.5 ± 5.1	$\sigma_8(0.57)$	0.6199	0.621 ± 0.012
$\boldsymbol{A^{kSZ}}$	0.00	< 4.65	D_{2000}	230.63	230.6 ± 1.9	f_{2000}^{143}	29.29	29.6 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.48 ± 1.9	$n_{s,0.002}$	0.9633	0.9613 ± 0.0070	$f_{2000}^{143\times217}$	32.00	32.0 ± 2.2
$\boldsymbol{A_{143}^{dustTT}}$	9.05	9.03 ± 1.8	Y_P	0.245392	0.24542 ± 0.00011	f_{2000}^{217}	105.62	105.7 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.57	17.0 ± 4.2	Y_P^{BBN}	0.246719	0.24674 ± 0.00011	χ^2_{lowTEB}	10494.57	10495.1 ± 2.7
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	10^5D/H	2.5915	2.581 ± 0.046	χ^2_{plik}	764.2	780 ± 13
$\boldsymbol{c_{100}}$	0.99793	0.99791 ± 0.00078	Age/Gyr	13.8025	13.801 ± 0.038	χ^2_{JLA}	706.834	707.00 ± 0.50
$\boldsymbol{c_{217}}$	0.99591	0.9959 ± 0.0014	z_*	1089.895	1089.84 ± 0.42	χ^2_{prior}	2.02	7.30 ± 3.8
H_0	67.39	67.37 ± 0.94	r_*	144.511	144.44 ± 0.49	χ^2_{CMB}	11258.8	11270 ± 13
Ω_Λ	0.6858	0.685 ± 0.013	$100\theta_*$	1.04089	1.04077 ± 0.00051			

Best-fit $\chi^2_{eff} = 11967.60$; $\bar{\chi}^2_{eff} = 11989.25$; $R - 1 = 0.00412$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.57 plik_dx11dr2_HM_v18_TT: 764.18 SN - JLA December_2013: 706.83

6.4 base_alpha1_plikHM_TT_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022335	0.02238 ± 0.00025	Ω_m	0.3090	0.310 ± 0.013	D_A/Gpc	13.9061	13.901 ± 0.043
$\boldsymbol{\Omega_c h^2}$	0.11880	0.1189 ± 0.0021	$\Omega_m h^2$	0.14178	0.1419 ± 0.0020	z_{drag}	1059.78	1059.89 ± 0.53
$\boldsymbol{100\theta_{MC}}$	1.04087	1.04077 ± 0.00052	$\Omega_m h^3$	0.096026	0.09609 ± 0.00047	r_{drag}	147.449	147.37 ± 0.48
$\boldsymbol{\tau}$	0.0694	$0.071^{+0.017}_{-0.020}$	σ_8	0.8166	0.8167 ± 0.0098	k_D	0.14046	0.14058 ± 0.00054
$\boldsymbol{\alpha_{-1}}$	−0.00039	$-0.0018^{+0.0020}_{-0.0010}$	$\sigma_8\Omega_m^{0.5}$	0.4540	0.4545 ± 0.0091	$100\theta_D$	0.160838	0.16076 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0710	$3.076^{+0.032}_{-0.035}$	$\sigma_8\Omega_m^{0.25}$	0.6089	0.6092 ± 0.0078	z_{eq}	3372.6	3376 ± 48
$\boldsymbol{n_s}$	0.9656	0.9632 ± 0.0071	$\sigma_8/h^{0.5}$	0.9923	0.992 ± 0.011	k_{eq}	0.010293	0.01030 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00009	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4554	2.460 ± 0.027	$100\theta_{eq}$	0.8185	$0.8180^{+0.0087}_{-0.0098}$
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.4 ± 6.4	z_{re}	9.14	9.24 ± 1.6	$100\theta_{s,eq}$	0.45212	0.4518 ± 0.0047
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.156	$2.169^{+0.066}_{-0.079}$	$r_{drag}/D_V(0.57)$	0.07170	$0.07167^{+0.00069}_{-0.00079}$
$\boldsymbol{A_{143}^{tSZ}}$	7.19	4.97 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8769	1.879 ± 0.014	$H(0.57)$	93.051	$93.07^{+0.38}_{-0.49}$
$\boldsymbol{A_{100}^{PS}}$	254.2	261 ± 28	D_{40}	1213.5	1207^{+15}_{-21}	$D_A(0.57)$	1386.0	1386^{+14}_{-12}
$\boldsymbol{A_{143}^{PS}}$	39.2	44 ± 8	D_{220}	5718.7	5724 ± 40	$F_{AP}(0.57)$	0.67541	0.6756 ± 0.0033
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	38^{+10}_{-10}	D_{810}	2533.7	2534 ± 14	$f\sigma_8(0.57)$	0.4742	0.4743 ± 0.0055
$\boldsymbol{A_{217}^{PS}}$	97.0	96 ± 10	D_{1420}	814.8	814.2 ± 5.1	$\sigma_8(0.57)$	0.6081	0.6080 ± 0.0089
$\boldsymbol{A^{kSZ}}$	0.01	< 5.28	D_{2000}	230.16	229.9 ± 1.9	f_{2000}^{143}	29.99	30.5 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.51 ± 1.9	$n_{s,0.002}$	0.9656	0.9632 ± 0.0071	$f_{2000}^{143\times217}$	32.55	32.7 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.10	9.13 ± 1.9	Y_P	0.245377	0.24540 ± 0.00011	f_{2000}^{217}	106.08	106.2 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.65	$17.2^{+4.5}_{-4.1}$	Y_P^{BBN}	0.246704	0.24672 ± 0.00011	$\chi^2_{lensing}$	9.43	10.2 ± 1.8
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.7 ± 7.5	10^5D/H	2.5980	2.589 ± 0.048	χ^2_{lowTEB}	10493.35	10493.7 ± 2.0
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00077	Age/Gyr	13.7975	$13.795^{+0.043}_{-0.038}$	χ^2_{plik}	766.9	782.1 ± 6.1
$\boldsymbol{c_{217}}$	0.99596	$0.9959^{+0.0014}_{-0.0016}$	z_*	1089.858	1089.81 ± 0.44	χ^2_{prior}	2.07	7.44 ± 3.7
H_0	67.73	$67.71^{+0.90}_{-1.1}$	r_*	144.770	144.71 ± 0.48	χ^2_{CMB}	11269.7	11286.0 ± 6.0
Ω_Λ	0.6910	0.690 ± 0.013	$100\theta_*$	1.04106	1.04096 ± 0.00051			

Best-fit $\chi^2_{eff} = 11271.77$; $\bar{\chi}^2_{eff} = 11293.45$; $R - 1 = 0.01968$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.43 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.35 plik_dx11dr2_HM_v18_TT: 766.92

6.5 base_alpha1_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022385	0.02243 ± 0.00025	Ω_m	0.3131	0.315 ± 0.014	D_A/Gpc	13.8862	13.879 ± 0.046
$\boldsymbol{\Omega_c h^2}$	0.11952	0.1197 ± 0.0022	$\Omega_m h^2$	0.14255	0.1428 ± 0.0021	z_{drag}	1059.93	1060.06 ± 0.53
$\boldsymbol{100\theta_{MC}}$	1.04074	1.04060 ± 0.00053	$\Omega_m h^3$	0.096183	0.09624 ± 0.00048	r_{drag}	147.20	147.09 ± 0.51
$\boldsymbol{\tau}$	0.0879	0.091 ± 0.021	σ_8	0.8340	0.835 ± 0.016	k_D	0.14076	0.14091 ± 0.00058
$\boldsymbol{\alpha_{-1}}$	-0.00076	$-0.0024^{+0.0025}_{-0.0011}$	$\sigma_8\Omega_m^{0.5}$	0.4667	0.469 ± 0.013	$100\theta_D$	0.160725	0.16063 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.1110	3.119 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.6239	0.626 ± 0.014	z_{eq}	3391.1	3398 ± 50
$\boldsymbol{n_s}$	0.9637	0.9614 ± 0.0072	$\sigma_8/h^{0.5}$	1.0153	1.018 ± 0.020	k_{eq}	0.010350	0.01037 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00027	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.5121	2.521 ± 0.049	$100\theta_{eq}$	0.8152	0.8142 ± 0.0094
$\boldsymbol{A_{217}^{CIB}}$	66.9	63.6 ± 6.5	z_{re}	10.82	$11.0^{+1.9}_{-1.7}$	$100\theta_{s,eq}$	0.45035	0.4498 ± 0.0048
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.09	—	10^9A_s	2.244	2.263 ± 0.094	$r_{drag}/D_V(0.57)$	0.07146	0.07138 ± 0.00074
$\boldsymbol{A_{143}^{tSZ}}$	7.16	5.15 ± 1.9	$10^9A_se^{-2\tau}$	1.8825	1.885 ± 0.015	$H(0.57)$	92.983	$92.98^{+0.40}_{-0.46}$
$\boldsymbol{A_{100}^{PS}}$	251.4	257 ± 28	D_{40}	1220.0	1215^{+17}_{-20}	$D_A(0.57)$	1389.1	1390 ± 13
$\boldsymbol{A_{143}^{PS}}$	39.1	43 ± 8	D_{220}	5724.9	5729 ± 41	$F_{AP}(0.57)$	0.67644	0.6768 ± 0.0034
$\boldsymbol{A_{143\times217}^{PS}}$	34.1	38 ± 10	D_{810}	2535.7	2536 ± 14	$f\sigma_8(0.57)$	0.4853	0.4864 ± 0.0098
$\boldsymbol{A_{217}^{PS}}$	97.0	97 ± 10	D_{1420}	814.9	814.6 ± 5.0	$\sigma_8(0.57)$	0.6200	0.621 ± 0.012
$\boldsymbol{A^{kSZ}}$	0.00	< 4.60	D_{2000}	230.68	230.6 ± 1.9	f_{2000}^{143}	29.16	29.5 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.48 ± 1.9	$n_{s,0.002}$	0.9637	0.9614 ± 0.0072	$f_{2000}^{143\times217}$	31.90	31.9 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.02 ± 1.8	Y_P	0.245399	0.24542 ± 0.00011	f_{2000}^{217}	105.45	105.6 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.67	17.0 ± 4.2	Y_P^{BBN}	0.246726	0.24675 ± 0.00011	χ^2_{lowTEB}	10494.61	10495.2 ± 2.7
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.7 ± 7.4	10^5D/H	2.5886	2.580 ± 0.047	χ^2_{plik}	764.2	779.6 ± 8.4
$\boldsymbol{c_{100}}$	0.99791	0.99791 ± 0.00077	Age/Gyr	13.7994	13.799 ± 0.039	χ^2_{H070p6}	0.88	1.00 ± 0.56
$\boldsymbol{c_{217}}$	0.99590	0.9959 ± 0.0014	z_*	1089.859	1089.82 ± 0.43	χ^2_{prior}	2.04	7.26 ± 3.6
H_0	67.47	67.40 ± 0.97	r_*	144.54	144.45 ± 0.51	χ^2_{CMB}	11258.8	11274.8 ± 8.3
Ω_Λ	0.6869	0.685 ± 0.014	$100\theta_*$	1.04092	1.04078 ± 0.00052			

Best-fit $\chi^2_{eff} = 11261.72$; $\bar{\chi}^2_{eff} = 11283.07$; $R - 1 = 0.00545$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.61 plik_dx11dr2_HM_v18_TT: 764.18 Hubble - H070p6: 0.88

6.6 base_alpha1_plikHM_TT_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022360	0.02242 ± 0.00023	$\Omega_m h^3$	0.096034	0.09610 ± 0.00047	$100\theta_D$	0.160829	$0.16073^{+0.00029}_{-0.00033}$
$\boldsymbol{\Omega_c h^2}$	0.11837	0.1184 ± 0.0012	σ_8	0.8171	0.8173 ± 0.0094	z_{eq}	3363.0	3366 ± 28
$\boldsymbol{100\theta_{MC}}$	1.040946	1.04083 ± 0.00045	$\sigma_8\Omega_m^{0.5}$	0.4523	0.4527 ± 0.0067	k_{eq}	0.010264	0.010273 ± 0.000085
$\boldsymbol{\tau}$	0.0718	0.074 ± 0.014	$\sigma_8\Omega_m^{0.25}$	0.6079	0.6082 ± 0.0072	$100\theta_{eq}$	0.8204	0.8200 ± 0.0052
$\boldsymbol{\alpha_{-1}}$	-0.00043	$-0.0017^{+0.0020}_{-0.0011}$	$\sigma_8/h^{0.5}$	0.9914	0.992 ± 0.011	$100\theta_{s,eq}$	0.45308	0.4528 ± 0.0027
$\boldsymbol{\ln(10^{10}A_s)}$	3.0754	3.081 ± 0.028	$\langle d^2\rangle^{1/2}$	2.4540	2.458 ± 0.027	$r_{drag}/D_V(0.57)$	0.071858	0.07182 ± 0.00041
$\boldsymbol{n_s}$	0.9664	$0.9645^{+0.0051}_{-0.0057}$	z_{re}	9.36	$9.53^{+1.4}_{-1.2}$	$H(0.57)$	93.134	$93.15^{+0.26}_{-0.30}$
$\boldsymbol{y_{cal}}$	1.00019	1.0001 ± 0.0025	$10^9 A_s$	2.166	2.179 ± 0.060	$D_A(0.57)$	1383.4	1383.4 ± 7.5
$\boldsymbol{A_{217}^{CIB}}$	67.6	64.3 ± 6.5	$10^9 A_s e^{-2\tau}$	1.8760	1.877 ± 0.012	$F_{AP}(0.57)$	0.67473	0.6748 ± 0.0018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1212.5	1206^{+15}_{-21}	$f\sigma_8(0.57)$	0.4737	0.4740 ± 0.0054
$\boldsymbol{A_{143}^{tSZ}}$	7.22	4.98 ± 2.0	D_{220}	5723.0	5726 ± 41	$\sigma_8(0.57)$	0.6091	0.6092 ± 0.0075
$\boldsymbol{A_{100}^{PS}}$	253.9	261 ± 28	D_{810}	2534.1	2533 ± 14	f_{2000}^{143}	29.91	30.3 ± 2.9
$\boldsymbol{A_{143}^{PS}}$	39.0	43^{+8}_{-8}	D_{1420}	815.1	814.4 ± 5.2	$f_{2000}^{143\times217}$	32.44	32.6 ± 2.1
$\boldsymbol{A_{143\times217}^{PS}}$	32.3	38^{+10}_{-10}	D_{2000}	230.31	230.1 ± 1.8	f_{2000}^{217}	106.03	106.1 ± 2.1
$\boldsymbol{A_{217}^{PS}}$	96.7	96 ± 10	$n_{s,0.002}$	0.9664	$0.9645^{+0.0051}_{-0.0057}$	$\chi^2_{lensing}$	9.27	10.0 ± 1.6
$\boldsymbol{A^{kSZ}}$	0.00	< 5.34	Y_P	0.245388	0.24541 ± 0.00010	χ^2_{lowTEB}	10493.30	10493.6 ± 1.9
$\boldsymbol{A_{100}^{dustTT}}$	7.49	7.54 ± 1.9	Y_P^{BBN}	0.246715	0.24674 ± 0.00010	χ^2_{plik}	767.2	783 ± 22
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.14 ± 1.9	10^5D/H	2.5933	2.582 ± 0.042	χ^2_{H070p6}	0.647	0.68 ± 0.26
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.79	17.2 ± 4.2	Age/Gyr	13.7908	13.788 ± 0.029	χ^2_{JLA}	706.621	706.67 ± 0.17
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.5	z_*	1089.790	1089.72 ± 0.33	χ^2_{6DF}	0.0029	0.042 ± 0.058
$\boldsymbol{c_{100}}$	0.99793	0.99790 ± 0.00076	r_*	144.862	144.80 ± 0.32	χ^2_{MGS}	1.54	1.57 ± 0.56
$\boldsymbol{c_{217}}$	0.99602	0.9960 ± 0.0014	$100\theta_*$	1.041134	1.04101 ± 0.00045	$\chi^2_{DR11CMASS}$	2.421	2.84 ± 0.60
H_0	67.93	67.92 ± 0.55	D_A/Gpc	13.9139	13.910 ± 0.031	$\chi^2_{DR11LOWZ}$	0.372	0.53 ± 0.48
Ω_Λ	0.6936	0.6932 ± 0.0072	z_{drag}	1059.78	1059.93 ± 0.51	χ^2_{prior}	2.09	7.53 ± 3.9
Ω_m	0.3064	0.3068 ± 0.0072	r_{drag}	147.537	147.46 ± 0.36	χ^2_{CMB}	11269.7	11290 ± 22
$\Omega_m h^2$	0.14137	0.1415 ± 0.0012	k_D	0.140391	0.14052 ± 0.00048	χ^2_{BAO}	4.34	4.98 ± 0.90

Best-fit $\chi^2_{eff} = 11983.43$; $\bar{\chi}^2_{eff} = 12006.07$; $R - 1 = 0.02161$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.42 DR11LOWZ: 0.37 CMB - smica_g30_ftl_full_pp: 9.27 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.30 plik_dx11dr2_HM_v18_TT: 767.16 Hubble - H070p6: 0.65 SN - JLA December_2013: 706.62

6.7 base_alpha1_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02239 ± 0.00025	Ω_m	0.319 ± 0.014	D_A/Gpc	13.868 ± 0.047
$\boldsymbol{\Omega_c h^2}$	0.1203 ± 0.0023	$\Omega_m h^2$	0.1434 ± 0.0022	z_{drag}	1060.01 ± 0.52
$\boldsymbol{100\theta_{MC}}$	1.04051 ± 0.00053	$\Omega_m h^3$	0.09623 ± 0.00048	r_{drag}	146.98 ± 0.53
$\boldsymbol{\tau}$	$0.089^{+0.020}_{-0.022}$	σ_8	0.836 ± 0.015	k_D	0.14100 ± 0.00059
$\boldsymbol{\alpha_{-1}}$	$-0.0025^{+0.0026}_{-0.0011}$	$\sigma_8\Omega_m^{0.5}$	0.472 ± 0.014	$100\theta_D$	0.16066 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.116 ± 0.040	$\sigma_8\Omega_m^{0.25}$	0.628 ± 0.014	z_{eq}	3411 ± 51
$\boldsymbol{n_s}$	0.9598 ± 0.0073	$\sigma_8/h^{0.5}$	1.020 ± 0.020	k_{eq}	0.01041 ± 0.00016
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.527 ± 0.048	$100\theta_{eq}$	0.8116 ± 0.0096
$\boldsymbol{A_{217}^{CIB}}$	63.7 ± 6.5	z_{re}	10.9 ± 1.7	$100\theta_{s,eq}$	0.4485 ± 0.0050
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.258^{+0.085}_{-0.10}$	$r_{drag}/D_V(0.57)$	0.07117 ± 0.00077
$\boldsymbol{A_{143}^{tSZ}}$	5.12 ± 1.9	$10^9 A_s e^{-2\tau}$	1.888 ± 0.015	$H(0.57)$	$92.86^{+0.40}_{-0.46}$
$\boldsymbol{A_{100}^{PS}}$	258 ± 28	D_{40}	1216 ± 18	$D_A(0.57)$	1394 ± 13
$\boldsymbol{A_{143}^{PS}}$	43 ± 8	D_{220}	5727 ± 41	$F_{AP}(0.57)$	0.6778 ± 0.0035
$\boldsymbol{A_{143\times217}^{PS}}$	38 ± 10	D_{810}	2537 ± 14	$f\sigma_8(0.57)$	0.4877 ± 0.0096
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{1420}	814.1 ± 5.1	$\sigma_8(0.57)$	$0.620^{+0.011}_{-0.013}$
$\boldsymbol{A^{kSZ}}$	< 4.67	D_{2000}	230.4 ± 1.9	f_{2000}^{143}	29.7 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.48 ± 1.9	$n_{s,0.002}$	0.9598 ± 0.0073	$f_{2000}^{143\times217}$	32.1 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.02 ± 1.9	Y_P	0.24540 ± 0.00011	f_{2000}^{217}	105.8 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.0 ± 4.2	Y_P^{BBN}	0.24673 ± 0.00011	χ^2_{lowTEB}	10495.0 ± 2.6
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.5	10^5D/H	2.587 ± 0.047	χ^2_{plik}	779.7 ± 8.1
$\boldsymbol{c_{100}}$	0.99791 ± 0.00077	Age/Gyr	13.808 ± 0.040	χ^2_{prior}	7.24 ± 3.5
$\boldsymbol{c_{217}}$	0.9959 ± 0.0014	z_*	1089.92 ± 0.44	χ^2_{CMB}	11274.7 ± 7.9
H_0	67.1 ± 1.0	r_*	144.33 ± 0.52		
Ω_Λ	0.681 ± 0.014	$100\theta_*$	1.04069 ± 0.00053		

$\bar{\chi}^2_{eff} = 11281.96$; $R - 1 = 0.00567$

6.8 base_alpha1_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022269	0.02225 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.085	Age/Gyr	13.8059	13.805 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11941	0.1192 ± 0.0018	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.154 ± 0.054	z_*	1089.998	1090.01 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040901	$1.04096^{+0.00052}_{-0.00044}$	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.334	0.338 ± 0.080	r_*	144.660	$144.74^{+0.48}_{-0.43}$
$\boldsymbol{\tau}$	0.0819	0.080 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.665	1.67 ± 0.25	$100\theta_*$	1.041091	$1.04115^{+0.00053}_{-0.00043}$
$\boldsymbol{\alpha_{-1}}$	0.00004	$0.00031^{+0.00044}_{-0.00063}$	$\boldsymbol{c_{100}}$	0.99818	0.99815 ± 0.00077	D_A/Gpc	13.8950	13.901 ± 0.039
$\boldsymbol{\ln(10^{10}A_s)}$	3.0976	3.092 ± 0.033	$\boldsymbol{c_{217}}$	0.99595	0.9960 ± 0.0015	z_{drag}	1059.666	1059.59 ± 0.33
$\boldsymbol{n_s}$	0.9667	$0.9675^{+0.0080}_{-0.0066}$	H_0	67.47	67.55 ± 0.82	r_{drag}	147.359	$147.44^{+0.49}_{-0.43}$
$\boldsymbol{y_{cal}}$	1.00029	1.0005 ± 0.0025	Ω_Λ	0.6873	$0.688^{+0.013}_{-0.011}$	k_D	0.140508	$0.14040^{+0.00045}_{-0.00054}$
$\boldsymbol{A^{CIB}_{217}}$	65.3	63.7 ± 6.6	Ω_m	0.3127	$0.312^{+0.011}_{-0.013}$	$100\theta_D$	0.160912	0.16096 ± 0.00021
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.23	—	$\Omega_m h^2$	0.14233	$0.1421^{+0.0017}_{-0.0019}$	z_{eq}	3385.8	3380^{+41}_{-46}
$\boldsymbol{A^{tSZ}_{143}}$	7.04	5.42 ± 1.9	$\Omega_m h^3$	0.096026	0.09597 ± 0.00031	k_{eq}	0.010334	$0.01032^{+0.00013}_{-0.00014}$
$\boldsymbol{A^{PS}_{100}}$	254.0	259 ± 27	σ_8	0.8325	0.830 ± 0.013	$100\theta_{eq}$	0.8159	0.8170 ± 0.0081
$\boldsymbol{A^{PS}_{143}}$	41.6	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4655	0.463 ± 0.011	$100\theta_{s,eq}$	0.45084	0.4514 ± 0.0042
$\boldsymbol{A^{PS}_{143\times217}}$	39.3	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6226	0.620 ± 0.012	$r_{drag}/D_V(0.57)$	0.07151	0.07160 ± 0.00065
$\boldsymbol{A^{PS}_{217}}$	100.1	98 ± 10	$\sigma_8/h^{0.5}$	1.0136	1.010 ± 0.017	$H(0.57)$	92.945	92.97 ± 0.34
$\boldsymbol{A^{kSZ}}$	0.00	< 3.98	$\langle d^2\rangle^{1/2}$	2.5054	2.498 ± 0.043	$D_A(0.57)$	1389.5	1389 ± 11
$\boldsymbol{A^{dustTT}_{100}}$	7.35	7.42 ± 1.9	z_{re}	10.32	$10.1^{+1.7}_{-1.5}$	$F_{AP}(0.57)$	0.67633	$0.6760^{+0.0028}_{-0.0031}$
$\boldsymbol{A^{dustTT}_{143}}$	8.94	8.92 ± 1.8	$10^9 A_s$	2.214	2.204 ± 0.074	$f\sigma_8(0.57)$	0.4844	0.4828 ± 0.0083
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.77	17.0 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8800	1.878 ± 0.014	$\sigma_8(0.57)$	0.6191	0.618 ± 0.010
$\boldsymbol{A^{dustTT}_{217}}$	82.3	81.7 ± 7.4	D_{40}	1242.7	1245 ± 15	f^{143}_{2000}	28.88	29.3 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0812	0.0810 ± 0.0056	D_{220}	5727.4	5726 ± 39	$f^{143\times217}_{2000}$	31.93	32.1 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0486	0.0485 ± 0.0050	D_{810}	2535.5	2535 ± 14	f^{217}_{2000}	105.52	105.7 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0987	0.0999 ± 0.032	D_{1420}	815.37	815.2 ± 4.8	χ^2_{lowTEB}	10497.79	10498.9 ± 3.0
$\boldsymbol{A^{dustEE}_{143}}$	0.0998	0.0998 ± 0.0069	D_{2000}	230.75	230.6 ± 1.7	χ^2_{plik}	2430.9	2451.1 ± 7.3
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2257	0.224 ± 0.046	$n_{s,0.002}$	0.9667	$0.9675^{+0.0080}_{-0.0066}$	χ^2_{prior}	6.74	19.2 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	Y_P	0.245348	0.245336 ± 0.000072	χ^2_{CMB}	12928.6	12950.0 ± 7.0
$\boldsymbol{A^{dustTE}_{100}}$	0.1403	0.141 ± 0.038	Y_P^{BBN}	0.246675	0.246662 ± 0.000072			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1313	0.131 ± 0.029	10^5D/H	2.6104	2.615 ± 0.030			

Best-fit $\chi^2_{eff} = 12935.39$; $\bar{\chi}^2_{eff} = 12969.25$; $R - 1 = 0.00701$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.79 plik_dx11dr2_HM_v18_TTTEEE: 2430.86

6.9 base_alpha1_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022273	0.02225 ± 0.00015	$\boldsymbol{A_{143}^{dustTE}}$	0.154	0.155 ± 0.054	r_*	144.773	144.82 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.11897	0.1188 ± 0.0012	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.337	0.338 ± 0.080	$100\theta_*$	1.041153	1.04124 ± 0.00038
$\boldsymbol{100\theta_{MC}}$	1.040965	1.04104 ± 0.00038	$\boldsymbol{A_{217}^{dustTE}}$	1.673	1.67 ± 0.25	D_A/Gpc	13.9051	13.909 ± 0.026
$\boldsymbol{\tau}$	0.0805	0.081 ± 0.017	$\boldsymbol{c_{100}}$	0.99816	0.99814 ± 0.00076	z_{drag}	1059.628	1059.58 ± 0.34
$\boldsymbol{\alpha_{-1}}$	0.000071	$0.00039^{+0.00035}_{-0.00058}$	$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0015	r_{drag}	147.474	147.53 ± 0.31
$\boldsymbol{\ln(10^{10}A_s)}$	3.0933	3.093 ± 0.033	H_0	67.65	67.71 ± 0.52	k_D	0.140389	$0.14031^{+0.00036}_{-0.00040}$
$\boldsymbol{n_s}$	0.9680	$0.9688^{+0.0055}_{-0.0049}$	Ω_Λ	0.6900	0.6907 ± 0.0070	$100\theta_D$	0.160932	$0.16098^{+0.00023}_{-0.00020}$
$\boldsymbol{y_{cal}}$	1.00033	1.0005 ± 0.0025	Ω_m	0.3100	0.3093 ± 0.0070	z_{eq}	3375.2	3372 ± 27
$\boldsymbol{A_{217}^{CIB}}$	66.2	63.6 ± 6.6	$\Omega_m h^2$	0.14189	0.1417 ± 0.0011	k_{eq}	0.010301	0.010291 ± 0.000082
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	$\Omega_m h^3$	0.095984	0.09596 ± 0.00030	$100\theta_{eq}$	0.8179	0.8186 ± 0.0051
$\boldsymbol{A_{143}^{tSZ}}$	7.20	5.42 ± 1.9	σ_8	0.8299	0.830 ± 0.013	$100\theta_{s,eq}$	0.45186	0.4522 ± 0.0026
$\boldsymbol{A_{100}^{PS}}$	254.7	259 ± 27	$\sigma_8\Omega_m^{0.5}$	0.4621	0.4617 ± 0.0091	$r_{drag}/D_V(0.57)$	0.071665	0.07172 ± 0.00041
$\boldsymbol{A_{143}^{PS}}$	39.8	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6193	0.619 ± 0.011	$H(0.57)$	93.008	93.03 ± 0.23
$\boldsymbol{A_{143\times217}^{PS}}$	36.2	40 ± 10	$\sigma_8/h^{0.5}$	1.0090	1.009 ± 0.017	$D_A(0.57)$	1387.2	1386.5 ± 6.9
$\boldsymbol{A_{217}^{PS}}$	98.7	98 ± 10	$\langle d^2\rangle^{1/2}$	2.4941	2.494 ± 0.040	$F_{AP}(0.57)$	0.67566	0.6755 ± 0.0018
$\boldsymbol{A^{kSZ}}$	0.00	< 3.96	z_{re}	10.19	$10.1^{+1.6}_{-1.4}$	$f\sigma_8(0.57)$	0.4821	0.4821 ± 0.0080
$\boldsymbol{A_{100}^{dustTT}}$	7.45	7.43 ± 1.9	$10^9 A_s$	2.205	2.205 ± 0.073	$\sigma_8(0.57)$	0.6177	0.618 ± 0.010
$\boldsymbol{A_{143}^{dustTT}}$	9.00	8.92 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8770	1.876 ± 0.012	f_{2000}^{143}	29.06	29.2 ± 2.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.65	17.0 ± 4.2	D_{40}	1240.9	1246 ± 15	$f_{2000}^{143\times217}$	32.03	32.0 ± 1.9
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.7 ± 7.4	D_{220}	5725.2	5726 ± 39	f_{2000}^{217}	105.67	105.7 ± 1.9
$\boldsymbol{A_{100}^{dustEE}}$	0.0811	0.0809 ± 0.0057	D_{810}	2534.2	2534 ± 13	χ^2_{lowTEB}	10497.61	10499.2 ± 2.9
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04883	0.0484 ± 0.0050	D_{1420}	815.28	815.4 ± 4.7	χ^2_{plik}	2431.0	2450.3 ± 7.1
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0994	0.100 ± 0.032	D_{2000}	230.69	230.7 ± 1.6	χ^2_{6DF}	0.0217	0.050 ± 0.068
$\boldsymbol{A_{143}^{dustEE}}$	0.1002	0.0997 ± 0.0069	$n_{s,0.002}$	0.9680	$0.9688^{+0.0055}_{-0.0049}$	χ^2_{MGS}	1.28	1.42 ± 0.52
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2232	0.224 ± 0.046	Y_P	0.245350	0.245339 ± 0.000068	$\chi^2_{DR11CMASS}$	2.446	2.82 ± 0.60
$\boldsymbol{A_{217}^{dustEE}}$	0.653	0.65 ± 0.13	Y_P^{BBN}	0.246676	0.246665 ± 0.000069	$\chi^2_{DR11LOWZ}$	0.607	0.66 ± 0.54
$\boldsymbol{A_{100}^{dustTE}}$	0.1415	0.140 ± 0.038	10^5D/H	2.6097	2.614 ± 0.028	χ^2_{prior}	6.92	19.1 ± 5.4
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1314	0.131 ± 0.029	Age/Gyr	13.8018	13.801 ± 0.022	χ^2_{CMB}	12928.6	12949.5 ± 6.9
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.304	0.304 ± 0.085	z_*	1089.952	1089.97 ± 0.24	χ^2_{BAO}	4.354	4.94 ± 0.88

Best-fit $\chi^2_{eff} = 12939.87$; $\bar{\chi}^2_{eff} = 12973.56$; $R - 1 = 0.00883$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.45 DR11LOWZ: 0.61 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.61 plik_dx11dr2_HM_v18_TTTEEE: 2430.98

6.10 base_alpha1_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022274	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.303 ± 0.085	Age/Gyr	13.8049	13.802 ± 0.028
$\boldsymbol{\Omega_c h^2}$	0.11924	0.1189 ± 0.0017	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	z_*	1089.975	1089.97 ± 0.29
$\boldsymbol{100\theta_{MC}}$	1.040887	$1.04101^{+0.00050}_{-0.00042}$	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.338 ± 0.080	r_*	144.702	$144.80^{+0.45}_{-0.41}$
$\boldsymbol{\tau}$	0.0820	0.081 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.668	1.67 ± 0.25	$100\theta_*$	1.041083	$1.04121^{+0.00050}_{-0.00042}$
$\boldsymbol{\alpha_{-1}}$	0.00004	$0.00037^{+0.00042}_{-0.00064}$	$\boldsymbol{c_{100}}$	0.99819	0.99814 ± 0.00076	D_A/Gpc	13.8992	13.907 ± 0.037
$\boldsymbol{\ln(10^{10}A_s)}$	3.0975	3.093 ± 0.033	$\boldsymbol{c_{217}}$	0.99594	0.9960 ± 0.0015	z_{drag}	1059.666	1059.59 ± 0.34
$\boldsymbol{n_s}$	0.9676	$0.9684^{+0.0076}_{-0.0062}$	H_0	67.53	67.68 ± 0.77	r_{drag}	147.400	$147.51^{+0.46}_{-0.41}$
$\boldsymbol{y_{cal}}$	1.00039	1.0005 ± 0.0025	Ω_Λ	0.6883	$0.690^{+0.012}_{-0.010}$	k_D	0.140468	$0.14034^{+0.00043}_{-0.00051}$
$\boldsymbol{A^{CIB}_{217}}$	65.2	63.6 ± 6.6	Ω_m	0.3117	$0.310^{+0.010}_{-0.012}$	$100\theta_D$	0.160910	0.16097 ± 0.00021
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.25	—	$\Omega_m h^2$	0.14216	0.1418 ± 0.0017	z_{eq}	3381.7	3374 ± 40
$\boldsymbol{A^{tSZ}_{143}}$	7.11	5.43 ± 1.9	$\Omega_m h^3$	0.096001	0.09597 ± 0.00031	k_{eq}	0.010321	0.01030 ± 0.00012
$\boldsymbol{A^{PS}_{100}}$	252.4	259 ± 27	σ_8	0.8322	0.830 ± 0.013	$100\theta_{eq}$	0.8167	0.8183 ± 0.0076
$\boldsymbol{A^{PS}_{143}}$	41.2	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4646	0.462 ± 0.011	$100\theta_{s,eq}$	0.45122	0.4521 ± 0.0040
$\boldsymbol{A^{PS}_{143\times217}}$	39.5	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6218	0.619 ± 0.011	$r_{drag}/D_V(0.57)$	0.07157	0.07170 ± 0.00061
$\boldsymbol{A^{PS}_{217}}$	100.0	98 ± 10	$\sigma_8/h^{0.5}$	1.0127	1.009 ± 0.017	$H(0.57)$	92.965	93.02 ± 0.32
$\boldsymbol{A^{kSZ}}$	0.00	< 3.98	$\langle d^2\rangle^{1/2}$	2.5018	2.495 ± 0.042	$D_A(0.57)$	1388.7	1387 ± 10
$\boldsymbol{A^{dustTT}_{100}}$	7.46	7.43 ± 1.9	z_{re}	10.33	$10.1^{+1.6}_{-1.4}$	$F_{AP}(0.57)$	0.67608	0.6756 ± 0.0027
$\boldsymbol{A^{dustTT}_{143}}$	8.94	8.92 ± 1.8	$10^9 A_s$	2.214	2.207 ± 0.074	$f\sigma_8(0.57)$	0.4839	0.4823 ± 0.0083
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.72	17.0 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8791	1.877 ± 0.014	$\sigma_8(0.57)$	0.6190	0.618 ± 0.010
$\boldsymbol{A^{dustTT}_{217}}$	82.2	81.8 ± 7.4	D_{40}	1240.8	1245 ± 15	f^{143}_{2000}	28.61	29.2 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0812	0.0810 ± 0.0057	D_{220}	5724.9	5727 ± 39	$f^{143\times217}_{2000}$	31.75	32.0 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04865	0.0485 ± 0.0050	D_{810}	2535.6	2534 ± 14	f^{217}_{2000}	105.33	105.7 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0994	0.100 ± 0.032	D_{1420}	815.73	815.4 ± 4.8	χ^2_{lowTEB}	10497.60	10499.1 ± 3.0
$\boldsymbol{A^{dustEE}_{143}}$	0.09999	0.0998 ± 0.0069	D_{2000}	230.89	230.7 ± 1.6	χ^2_{plik}	2430.9	2450.9 ± 7.2
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2226	0.224 ± 0.047	$n_{s,0.002}$	0.9676	$0.9684^{+0.0076}_{-0.0062}$	χ^2_{JLA}	706.755	706.79 ± 0.32
$\boldsymbol{A^{dustEE}_{217}}$	0.648	0.65 ± 0.13	Y_P	0.245350	0.245341 ± 0.000071	χ^2_{prior}	6.86	19.2 ± 5.4
$\boldsymbol{A^{dustTE}_{100}}$	0.1427	0.140 ± 0.038	Y_P^{BBN}	0.246677	0.246667 ± 0.000072	χ^2_{CMB}	12928.5	12950.0 ± 7.0
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1310	0.131 ± 0.029	10^5D/H	2.6095	2.613 ± 0.030			

Best-fit $\chi^2_{eff} = 13642.15$; $\bar{\chi}^2_{eff} = 13675.99$; $R - 1 = 0.00918$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.60 plik_dx11dr2_HM_v18_TTTEEE: 2430.94 SN - JLA December_2013: 706.75

6.11 base_alpha1_plikHM_TTTEEE_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022256	0.02224 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.301 ± 0.086	Age/Gyr	13.8003	13.795 ± 0.028
$\boldsymbol{\Omega_c h^2}$	0.11875	0.1183 ± 0.0017	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	z_*	1089.953	1089.93 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.041032	$1.04117^{+0.00046}_{-0.00040}$	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.337 ± 0.080	r_*	144.843	$144.98^{+0.42}_{-0.37}$
$\boldsymbol{\tau}$	0.0644	0.066 ± 0.014	$\boldsymbol{A^{dustTE}_{217}}$	1.666	1.66 ± 0.25	$100\theta_*$	1.041229	$1.04137^{+0.00045}_{-0.00040}$
$\boldsymbol{\alpha_{-1}}$	0.00011	$0.00058^{+0.00037}_{-0.00075}$	$\boldsymbol{c_{100}}$	0.99817	0.99811 ± 0.00077	D_A/Gpc	13.9108	13.922 ± 0.035
$\boldsymbol{\ln(10^{10}A_s)}$	3.0598	3.062 ± 0.025	$\boldsymbol{c_{217}}$	0.99612	0.9961 ± 0.0015	z_{drag}	1059.589	1059.51 ± 0.33
$\boldsymbol{n_s}$	0.9681	$0.9703^{+0.0069}_{-0.0060}$	H_0	67.74	67.95 ± 0.75	r_{drag}	147.550	$147.70^{+0.43}_{-0.36}$
$\boldsymbol{y_{cal}}$	1.00010	1.0002 ± 0.0025	Ω_Λ	0.6913	$0.694^{+0.011}_{-0.0097}$	k_D	0.140296	$0.14013^{+0.00039}_{-0.00046}$
$\boldsymbol{A^{CIB}_{217}}$	67.8	64.3 ± 6.6	Ω_m	0.3087	$0.3059^{+0.0097}_{-0.011}$	$100\theta_D$	0.160973	0.16103 ± 0.00020
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	$\Omega_m h^2$	0.14165	0.1411 ± 0.0016	z_{eq}	3369.5	3358 ± 38
$\boldsymbol{A^{tSZ}_{143}}$	7.30	5.36 ± 1.9	$\Omega_m h^3$	0.095950	0.09590 ± 0.00030	k_{eq}	0.010284	0.01025 ± 0.00012
$\boldsymbol{A^{PS}_{100}}$	257.3	260 ± 27	σ_8	0.8157	0.8162 ± 0.0088	$100\theta_{eq}$	0.8189	0.8213 ± 0.0073
$\boldsymbol{A^{PS}_{143}}$	39.0	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4532	$0.4513^{+0.0072}_{-0.0082}$	$100\theta_{s,eq}$	0.45242	0.4536 ± 0.0038
$\boldsymbol{A^{PS}_{143\times217}}$	33.4	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6080	0.6069 ± 0.0069	$r_{drag}/D_V(0.57)$	0.07175	0.07194 ± 0.00059
$\boldsymbol{A^{PS}_{217}}$	96.7	97 ± 10	$\sigma_8/h^{0.5}$	0.9911	0.990 ± 0.010	$H(0.57)$	93.037	93.12 ± 0.32
$\boldsymbol{A^{kSZ}}$	0.00	< 4.31	$\langle d^2\rangle^{1/2}$	2.4511	2.448 ± 0.025	$D_A(0.57)$	1386.0	1383 ± 10
$\boldsymbol{A^{dustTT}_{100}}$	7.40	7.50 ± 1.9	z_{re}	8.69	$8.79^{+1.4}_{-1.2}$	$F_{AP}(0.57)$	0.67532	0.6746 ± 0.0026
$\boldsymbol{A^{dustTT}_{143}}$	9.02	9.03 ± 1.8	$10^9 A_s$	2.132	2.137 ± 0.054	$f\sigma_8(0.57)$	0.47355	0.4730 ± 0.0050
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.63	17.2 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8746	1.872 ± 0.013	$\sigma_8(0.57)$	0.6075	0.6086 ± 0.0077
$\boldsymbol{A^{dustTT}_{217}}$	81.8	81.8 ± 7.3	D_{40}	1235.3	1239 ± 14	f^{143}_{2000}	29.74	29.8 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0812	0.0809 ± 0.0056	D_{220}	5722.8	5721 ± 39	$f^{143\times217}_{2000}$	32.54	32.5 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04851	0.0485 ± 0.0050	D_{810}	2533.1	2532 ± 13	f^{217}_{2000}	106.06	106.0 ± 1.8
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0988	0.100 ± 0.032	D_{1420}	815.12	815.4 ± 4.8	$\chi^2_{lensing}$	9.60	10.1 ± 1.7
$\boldsymbol{A^{dustEE}_{143}}$	0.0998	0.0998 ± 0.0069	D_{2000}	230.26	230.4 ± 1.6	χ^2_{lowTEB}	10496.31	10497.8 ± 2.1
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2229	0.225 ± 0.046	$n_{s,0.002}$	0.9681	$0.9703^{+0.0069}_{-0.0060}$	χ^2_{plik}	2433.6	2453.2 ± 7.0
$\boldsymbol{A^{dustEE}_{217}}$	0.650	0.66 ± 0.13	Y_P	0.245343	$0.245334^{+0.000080}_{-0.000071}$	χ^2_{prior}	7.06	19.2 ± 5.4
$\boldsymbol{A^{dustTE}_{100}}$	0.1394	0.140 ± 0.037	Y_P^{BBN}	0.246669	$0.246660^{+0.000081}_{-0.000071}$	χ^2_{CMB}	12939.6	12961.0 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1311	0.131 ± 0.029	10^5D/H	2.6128	2.616 ± 0.030			

Best-fit $\chi^2_{eff} = 12946.63$; $\bar{\chi}^2_{eff} = 12980.28$; $R - 1 = 0.02079$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.60 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.31 plik_dx11dr2_HM_v18_TTTEEE: 2433.65

6.12 base_alpha1_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022297	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.085	Age/Gyr	13.8008	13.800 ± 0.028
$\boldsymbol{\Omega_c h^2}$	0.11906	0.1188 ± 0.0018	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	z_*	1089.930	1089.95 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040925	$1.04103^{+0.00050}_{-0.00042}$	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.337 ± 0.080	r_*	144.730	$144.82^{+0.47}_{-0.41}$
$\boldsymbol{\tau}$	0.0838	0.081 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.675	1.67 ± 0.25	$100\theta_*$	1.041117	$1.04123^{+0.00050}_{-0.00042}$
$\boldsymbol{\alpha_{-1}}$	0.00004	$0.00039^{+0.00042}_{-0.00066}$	$\boldsymbol{c_{100}}$	0.99821	0.99815 ± 0.00076	D_A/Gpc	13.9015	$13.909^{+0.040}_{-0.037}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.1010	3.094 ± 0.033	$\boldsymbol{c_{217}}$	0.99582	0.9960 ± 0.0015	z_{drag}	1059.704	1059.60 ± 0.33
$\boldsymbol{n_s}$	0.9684	$0.9687^{+0.0077}_{-0.0062}$	H_0	67.62	67.72 ± 0.79	r_{drag}	147.422	$147.53^{+0.48}_{-0.41}$
$\boldsymbol{y_{cal}}$	1.00036	1.0005 ± 0.0025	Ω_Λ	0.6895	$0.691^{+0.012}_{-0.010}$	k_D	0.140462	$0.14033^{+0.00044}_{-0.00052}$
$\boldsymbol{A^{CIB}_{217}}$	63.1	63.6 ± 6.6	Ω_m	0.3105	$0.309^{+0.010}_{-0.012}$	$100\theta_D$	0.160891	0.16096 ± 0.00021
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.52	—	$\Omega_m h^2$	0.14200	$0.1417^{+0.0017}_{-0.0019}$	z_{eq}	3378.0	3371^{+40}_{-44}
$\boldsymbol{A^{tSZ}_{143}}$	6.80	5.44 ± 1.9	$\Omega_m h^3$	0.096029	0.09597 ± 0.00031	k_{eq}	0.010310	$0.01029^{+0.00012}_{-0.00014}$
$\boldsymbol{A^{PS}_{100}}$	251.3	258 ± 27	σ_8	0.8332	0.830 ± 0.013	$100\theta_{eq}$	0.8174	0.8187 ± 0.0078
$\boldsymbol{A^{PS}_{143}}$	45.9	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4643	0.462 ± 0.011	$100\theta_{s,eq}$	0.45160	0.4523 ± 0.0040
$\boldsymbol{A^{PS}_{143\times217}}$	47.5	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6220	0.619 ± 0.011	$r_{drag}/D_V(0.57)$	0.07163	0.07173 ± 0.00063
$\boldsymbol{A^{PS}_{217}}$	103.9	98 ± 10	$\sigma_8/h^{0.5}$	1.0132	1.009 ± 0.017	$H(0.57)$	93.009	93.04 ± 0.33
$\boldsymbol{A^{kSZ}}$	0.00	< 3.97	$\langle d^2\rangle^{1/2}$	2.5028	2.494 ± 0.042	$D_A(0.57)$	1387.4	1386 ± 10
$\boldsymbol{A^{dustTT}_{100}}$	7.34	7.43 ± 1.9	z_{re}	10.48	$10.2^{+1.6}_{-1.5}$	$F_{AP}(0.57)$	0.67578	$0.6754^{+0.0027}_{-0.0030}$
$\boldsymbol{A^{dustTT}_{143}}$	8.93	8.92 ± 1.8	$10^9 A_s$	2.222	2.208 ± 0.074	$f\sigma_8(0.57)$	0.4842	0.4821 ± 0.0083
$\boldsymbol{A^{dustTT}_{143\times217}}$	18.08	17.0 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8790	1.876 ± 0.014	$\sigma_8(0.57)$	0.6201	0.618 ± 0.010
$\boldsymbol{A^{dustTT}_{217}}$	82.6	81.8 ± 7.4	D_{40}	1240.7	1245 ± 15	f^{143}_{2000}	28.31	29.2 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0810 ± 0.0057	D_{220}	5727.3	5727 ± 39	$f^{143\times217}_{2000}$	31.60	31.9 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04877	0.0485 ± 0.0050	D_{810}	2536.5	2534 ± 14	f^{217}_{2000}	105.07	105.6 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0989	0.100 ± 0.032	D_{1420}	816.31	815.4 ± 4.8	χ^2_{lowTEB}	10497.75	10499.2 ± 3.1
$\boldsymbol{A^{dustEE}_{143}}$	0.1003	0.0998 ± 0.0069	D_{2000}	231.15	230.8 ± 1.6	χ^2_{plik}	2431.2	2450.9 ± 7.3
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2236	0.224 ± 0.047	$n_{s,0.002}$	0.9684	$0.9687^{+0.0077}_{-0.0062}$	χ^2_{H070p6}	0.800	0.80 ± 0.41
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	Y_P	0.245361	0.245343 ± 0.000072	χ^2_{prior}	6.56	19.2 ± 5.4
$\boldsymbol{A^{dustTE}_{100}}$	0.1404	0.140 ± 0.038	Y_P^{BBN}	0.246687	0.246670 ± 0.000072	χ^2_{CMB}	12928.9	12950.1 ± 7.0
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1317	0.131 ± 0.029	10^5D/H	2.6052	2.612 ± 0.030			

Best-fit $\chi^2_{eff} = 12936.26$; $\bar{\chi}^2_{eff} = 12970.07$; $R - 1 = 0.00953$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.75 plik_dx11dr2_HM_v18_TTTEEE: 2431.15 Hubble - H070p6: 0.80

6.13 base_alpha1_plikHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022267	0.02224 ± 0.00015	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.338 ± 0.079	D_A/Gpc	13.9175	13.922 ± 0.025
$\boldsymbol{\Omega_c h^2}$	0.11841	0.1183 ± 0.0011	$\boldsymbol{A^{dustTE}_{217}}$	1.663	1.66 ± 0.25	z_{drag}	1059.589	1059.51 ± 0.33
$\boldsymbol{100\theta_{MC}}$	1.041091	$1.04118^{+0.00039}_{-0.00034}$	$\boldsymbol{c_{100}}$	0.99814	0.99811 ± 0.00077	r_{drag}	147.627	147.70 ± 0.29
$\boldsymbol{\tau}$	0.0660	0.066 ± 0.012	$\boldsymbol{c_{217}}$	0.99609	0.9961 ± 0.0015	k_D	0.140224	0.14013 ± 0.00035
$\boldsymbol{\alpha_{-1}}$	0.00014	$0.00057^{+0.00032}_{-0.00068}$	H_0	67.885	67.95 ± 0.49	$100\theta_D$	0.160978	0.16103 ± 0.00020
$\boldsymbol{\ln(10^{10}A_s)}$	3.0620	3.061 ± 0.023	Ω_Λ	0.6933	$0.6942^{+0.0071}_{-0.0063}$	z_{eq}	3361.8	3357 ± 25
$\boldsymbol{n_s}$	0.96904	0.9704 ± 0.0048	Ω_m	0.3067	$0.3058^{+0.0063}_{-0.0071}$	k_{eq}	0.010261	0.010247 ± 0.000077
$\boldsymbol{y_{cal}}$	1.00006	1.0002 ± 0.0025	$\Omega_m h^2$	0.14133	0.1411 ± 0.0011	$100\theta_{eq}$	0.82042	0.8213 ± 0.0048
$\boldsymbol{A^{CIB}_{217}}$	67.7	64.3 ± 6.5	$\Omega_m h^3$	0.095939	0.09590 ± 0.00030	$100\theta_{s,eq}$	0.45318	$0.4536^{+0.0027}_{-0.0024}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	σ_8	0.8159	0.8163 ± 0.0085	$r_{drag}/D_V(0.57)$	0.071866	0.07194 ± 0.00038
$\boldsymbol{A^{tSZ}_{143}}$	7.30	5.35 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4518	0.4513 ± 0.0060	$H(0.57)$	93.094	93.11 ± 0.22
$\boldsymbol{A^{PS}_{100}}$	257.3	260 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6072	0.6070 ± 0.0065	$D_A(0.57)$	1384.1	1383.3 ± 6.6
$\boldsymbol{A^{PS}_{143}}$	38.8	44 ± 8	$\sigma_8/h^{0.5}$	0.9902	0.990 ± 0.010	$F_{AP}(0.57)$	0.67480	0.6746 ± 0.0017
$\boldsymbol{A^{PS}_{143\times217}}$	33.3	40 ± 10	$\langle d^2\rangle^{1/2}$	2.4491	2.448 ± 0.025	$f\sigma_8(0.57)$	0.47313	0.4731 ± 0.0049
$\boldsymbol{A^{PS}_{217}}$	96.7	97 ± 10	z_{re}	8.84	$8.80^{+1.2}_{-1.0}$	$\sigma_8(0.57)$	0.6081	0.6087 ± 0.0068
$\boldsymbol{A^{kSZ}}$	0.00	< 4.24	$10^9 A_s$	2.1371	2.136 ± 0.049	f^{143}_{2000}	29.69	29.9 ± 2.6
$\boldsymbol{A^{dustTT}_{100}}$	7.41	7.52 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8727	1.872 ± 0.011	$f^{143\times217}_{2000}$	32.51	32.5 ± 1.8
$\boldsymbol{A^{dustTT}_{143}}$	9.05	9.04 ± 1.8	D_{40}	1234.8	1240 ± 14	f^{217}_{2000}	106.02	106.0 ± 1.8
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.65	17.2 ± 4.1	D_{220}	5722.4	5721 ± 39	$\chi^2_{lensing}$	9.45	10.1 ± 1.6
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.8 ± 7.3	D_{810}	2532.2	2532 ± 13	χ^2_{lowTEB}	10496.37	10497.7 ± 2.0
$\boldsymbol{A^{dustEE}_{100}}$	0.0811	0.0809 ± 0.0056	D_{1420}	815.07	815.4 ± 4.7	χ^2_{plik}	2433.7	2452.6 ± 6.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04861	0.0484 ± 0.0049	D_{2000}	230.29	230.4 ± 1.6	χ^2_{H070p6}	0.669	0.66 ± 0.23
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1000	0.0999 ± 0.032	$n_{s,0.002}$	0.96904	0.9704 ± 0.0048	χ^2_{JLA}	706.627	706.64 ± 0.14
$\boldsymbol{A^{dustEE}_{143}}$	0.0999	0.0998 ± 0.0069	Y_P	0.245348	$0.245334^{+0.000074}_{-0.000067}$	χ^2_{6DF}	0.0030	0.032 ± 0.046
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2227	0.224 ± 0.046	Y_P^{BBN}	0.246674	$0.246660^{+0.000074}_{-0.000067}$	χ^2_{MGS}	1.54	1.69 ± 0.53
$\boldsymbol{A^{dustEE}_{217}}$	0.657	0.66 ± 0.13	10^5D/H	2.6107	2.616 ± 0.028	$\chi^2_{DR11CMASS}$	2.411	2.79 ± 0.55
$\boldsymbol{A^{dustTE}_{100}}$	0.1421	0.141 ± 0.037	Age/Gyr	13.7960	13.795 ± 0.022	$\chi^2_{DR11LOWZ}$	0.369	0.41 ± 0.40
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1313	0.131 ± 0.029	z_*	1089.909	1089.93 ± 0.23	χ^2_{prior}	7.11	19.2 ± 5.4
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.301 ± 0.085	r_*	144.921	144.98 ± 0.27	χ^2_{CMB}	12939.5	12960.4 ± 6.8
$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.154 ± 0.054	$100\theta_*$	1.041286	$1.04138^{+0.00039}_{-0.00034}$	χ^2_{BAO}	4.323	4.93 ± 0.83

Best-fit $\chi^2_{eff} = 13658.28$; $\bar{\chi}^2_{eff} = 13691.81$; $R - 1 = 0.02241$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.41 DR11LOWZ: 0.37 CMB - smica_g30_ftl_full_pp: 9.45 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.37 plik_dx11dr2_HM_v18_TTT

6.14 base_alpha1_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303 ± 0.085	Age/Gyr	13.805 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.1192 ± 0.0018	$\boldsymbol{A^{dustTE}_{143}}$	0.155 ± 0.054	z_*	1090.00 ± 0.30
$\boldsymbol{100\theta_{MC}}$	$1.04096^{+0.00052}_{-0.00043}$	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338 ± 0.080	r_*	$144.74^{+0.48}_{-0.43}$
$\boldsymbol{\tau}$	0.080 ± 0.016	$\boldsymbol{A^{dustTE}_{217}}$	1.67 ± 0.25	$100\theta_*$	$1.04116^{+0.00052}_{-0.00043}$
$\boldsymbol{\alpha_{-1}}$	$0.00032^{+0.00044}_{-0.00063}$	$\boldsymbol{c_{100}}$	0.99815 ± 0.00076	D_A/Gpc	13.902 ± 0.039
$\boldsymbol{\ln(10^{10}A_s)}$	3.094 ± 0.032	$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	z_{drag}	1059.59 ± 0.33
$\boldsymbol{n_s}$	$0.9675^{+0.0080}_{-0.0066}$	H_0	67.56 ± 0.82	r_{drag}	$147.45^{+0.49}_{-0.43}$
$\boldsymbol{y_{cal}}$	1.0005 ± 0.0025	Ω_Λ	$0.689^{+0.012}_{-0.011}$	k_D	$0.14040^{+0.00046}_{-0.00053}$
$\boldsymbol{A^{CIB}_{217}}$	63.6 ± 6.6	Ω_m	$0.311^{+0.011}_{-0.012}$	$100\theta_D$	0.16096 ± 0.00021
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$\Omega_m h^2$	0.1421 ± 0.0018	z_{eq}	3380 ± 42
$\boldsymbol{A^{tSZ}_{143}}$	5.41 ± 1.9	$\Omega_m h^3$	0.09597 ± 0.00031	k_{eq}	0.01031 ± 0.00013
$\boldsymbol{A^{PS}_{100}}$	259 ± 27	σ_8	0.831 ± 0.013	$100\theta_{eq}$	0.8171 ± 0.0080
$\boldsymbol{A^{PS}_{143}}$	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.464 ± 0.011	$100\theta_{s,eq}$	0.4515 ± 0.0042
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.621 ± 0.011	$r_{drag}/D_V(0.57)$	0.07161 ± 0.00065
$\boldsymbol{A^{PS}_{217}}$	98 ± 10	$\sigma_8/h^{0.5}$	1.011 ± 0.017	$H(0.57)$	92.98 ± 0.33
$\boldsymbol{A^{kSZ}}$	< 3.99	$\langle d^2\rangle^{1/2}$	2.499 ± 0.041	$D_A(0.57)$	1388 ± 11
$\boldsymbol{A^{dustTT}_{100}}$	7.43 ± 1.9	z_{re}	10.1 ± 1.5	$F_{AP}(0.57)$	$0.6760^{+0.0028}_{-0.0031}$
$\boldsymbol{A^{dustTT}_{143}}$	8.92 ± 1.8	$10^9 A_s$	$2.207^{+0.069}_{-0.078}$	$f\sigma_8(0.57)$	0.4830 ± 0.0081
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.0 ± 4.2	$10^9 A_s e^{-2\tau}$	1.878 ± 0.014	$\sigma_8(0.57)$	$0.6182^{+0.0096}_{-0.011}$
$\boldsymbol{A^{dustTT}_{217}}$	81.8 ± 7.4	D_{40}	1245 ± 15	f^{143}_{2000}	29.3 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0810 ± 0.0057	D_{220}	5727 ± 39	$f^{143\times217}_{2000}$	32.0 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0485 ± 0.0050	D_{810}	2535 ± 14	f^{217}_{2000}	105.7 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.100 ± 0.032	D_{1420}	815.2 ± 4.8	χ^2_{lowTEB}	10499.0 ± 3.0
$\boldsymbol{A^{dustEE}_{143}}$	0.0998 ± 0.0069	D_{2000}	230.6 ± 1.6	χ^2_{plik}	2451.1 ± 7.3
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.224 ± 0.046	$n_{s,0.002}$	$0.9675^{+0.0080}_{-0.0066}$	χ^2_{prior}	19.2 ± 5.4
$\boldsymbol{A^{dustEE}_{217}}$	0.65 ± 0.13	Y_P	0.245337 ± 0.000072	χ^2_{CMB}	12950.0 ± 6.9
$\boldsymbol{A^{dustTE}_{100}}$	0.140 ± 0.038	Y_P^{BBN}	0.246663 ± 0.000072		
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.131 ± 0.029	10^5D/H	2.615 ± 0.030		

$\bar{\chi}^2_{eff} = 12969.17$; $R - 1 = 0.00901$

6.15 base_alpha1_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022293	0.02240 ± 0.00025 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07	-0.1 ± 1.0	r_*	144.47	144.40 ± 0.52 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.12010	0.1201 ± 0.0023 (-0.1σ)	H_0	67.17	67.3 ± 1.0 $(+0.1\sigma)$	$100\theta_*$	1.04086	1.04078 ± 0.00053 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04066	1.04059 ± 0.00053 $(+0.2\sigma)$	Ω_Λ	0.6830	$0.683^{+0.015}_{-0.014}$ $(+0.1\sigma)$	z_{drag}	1059.74	1059.98 ± 0.53 (-0.0σ)
$\boldsymbol{\tau}$	0.0828	0.090 ± 0.021 $(+0.1\sigma)$	Ω_m	0.3170	$0.317^{+0.014}_{-0.015}$ (-0.1σ)	r_{drag}	147.15	147.05 ± 0.53 $(+0.1\sigma)$
$\boldsymbol{\alpha_{-1}}$	-0.00073	$-0.0023^{+0.0024}_{-0.0011}$ $(+0.1\sigma)$	$\Omega_m h^2$	0.14303	0.1431 ± 0.0021 (-0.1σ)	k_D	0.14076	0.14094 ± 0.00059 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.1000	3.114 ± 0.041 (-0.0σ)	$\Omega_m h^3$	0.096077	0.09622 ± 0.00048 (-0.0σ)	$100\theta_D$	0.160804	0.16066 ± 0.00032 (-0.0σ)
$\boldsymbol{n_s}$	0.9632	0.9625 ± 0.0073 $(+0.4\sigma)$	σ_8	0.8316	0.835 ± 0.016 (-0.0σ)	z_{eq}	3403	3404 ± 51 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00041	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_m^{0.5}$	0.4683	0.470 ± 0.014 (-0.1σ)	$100\theta_{eq}$	0.8128	0.8129 ± 0.0096 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	249.1	245 ± 22 (-0.5σ)	$\sigma_8 \Omega_m^{0.25}$	0.6240	0.627 ± 0.014 (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07125	0.07128 ± 0.00077 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.7	38 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0147	1.019 ± 0.021 (-0.1σ)	$H(0.57)$	92.839	$92.91^{+0.42}_{-0.46}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	96.4	98 ± 10 $(+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.5060	2.517 ± 0.050 (-0.2σ)	$D_A(0.57)$	1393.3	1392 ± 13 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	47.5	46 ± 7 (-2.7σ)	z_{re}	10.41	$10.9^{+2.0}_{-1.6}$ $(+0.1\sigma)$	$F_{AP}(0.57)$	0.67742	0.6773 ± 0.0035 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.32	$3.24^{+1.4}_{-2.5}$ (-1.0σ)	$10^9 A_s$	2.220	2.254 ± 0.093 (-0.0σ)	$f\sigma_8(0.57)$	0.4849	0.4869 ± 0.0099 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.423	$0.51^{+0.11}_{-0.12}$	$10^9 A_s e^{-2\tau}$	1.8811	1.882 ± 0.015 (-0.4σ)	$\sigma_8(0.57)$	0.6173	0.620 ± 0.012 $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.013	< 0.599 (-0.2σ)	D_{40}	1215.8	1209^{+17}_{-20} (-0.4σ)	Y_P^{BBN}	0.246269	0.24631 ± 0.00011 (-3.7σ)
$\boldsymbol{A^{kSZ}}$	4.89	$5.31^{+3.8}_{-2.3}$ $(+0.7\sigma)$	D_{220}	5701.4	5705 ± 42 (-0.5σ)	f_{2000}^{143}	29.20	28.5 ± 3.0 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.999	0.99 ± 0.19	D_{810}	2532.1	2533 ± 14 (-0.3σ)	f_{2000}^{217}	106.68	106.1 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.021	1.02 ± 0.18	D_{1420}	813.7	814.1 ± 5.1 (-0.0σ)	$f_{2000}^{143\times217}$	31.78	31.4 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.216	1.22 ± 0.11	$n_{s,0.002}$	0.9632	0.9625 ± 0.0073 $(+0.4\sigma)$	χ^2_{lowTEB}	10493.96	10494.8 ± 2.5 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.953	0.98 ± 0.18	Y_P	0.244938	0.24498 ± 0.00011 (-3.7σ)	$\chi^2_{CamSpec}$	8046.0	8062.0 ± 6.2
$\boldsymbol{c_{100}}$	0.99674	0.99682 ± 0.00097 (-1.4σ)	Age/Gyr	13.8134	13.805 ± 0.040 (-0.1σ)	χ^2_{prior}	3.45	8.36 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99739	0.9972 ± 0.0018 $(+0.9\sigma)$	z_*	1090.008	1089.88 ± 0.44 (-0.1σ)	χ^2_{CMB}	18539.9	18556.8 ± 6.0 $(+1268.4\sigma)$

Best-fit $\chi^2_{eff} = 18543.36$; $\Delta\chi^2_{eff} = 7282.64$; $\bar{\chi}^2_{eff} = 18565.16$; $\Delta\bar{\chi}^2_{eff} = 7283.16$; $R - 1 = 0.00614$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.96 (Δ -0.56) CamSpec like_v9.10CMH_unified: 8045.95

6.16 base_alpha1_CamSpecHM_TT_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02245 ± 0.00023 (-0.0σ)	Ω_Λ	0.6898 ± 0.0077 $(+0.1\sigma)$	k_D	$0.14077^{+0.00054}_{-0.00048}$ (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1190 ± 0.0013 (-0.1σ)	Ω_m	0.3102 ± 0.0077 (-0.1σ)	$100\theta_D$	$0.16064^{+0.00030}_{-0.00034}$ $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04075 ± 0.00045 $(+0.1\sigma)$	$\Omega_m h^2$	0.1421 ± 0.0012 (-0.1σ)	z_{eq}	3381 ± 30 (-0.1σ)
$\boldsymbol{\tau}$	0.093 ± 0.020 $(+0.0\sigma)$	$\Omega_m h^3$	0.09623 ± 0.00048 $(+0.0\sigma)$	$100\theta_{eq}$	0.8172 ± 0.0055 $(+0.1\sigma)$
$\boldsymbol{\alpha_{-1}}$	$-0.0021^{+0.0023}_{-0.0011}$ $(+0.1\sigma)$	σ_8	0.835 ± 0.016 $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07162 ± 0.00043 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.119 ± 0.041 (-0.0σ)	$\sigma_8 \Omega_m^{0.5}$	0.465 ± 0.011 (-0.0σ)	$H(0.57)$	93.09 ± 0.28 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9652 ± 0.0053 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.623 ± 0.012 (-0.0σ)	$D_A(0.57)$	1386.1 ± 7.8 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	1.015 ± 0.020 (-0.0σ)	$F_{AP}(0.57)$	0.6757 ± 0.0019 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	244 ± 23 (-0.4σ)	$\langle d^2 \rangle^{1/2}$	2.508 ± 0.047 (-0.1σ)	$f\sigma_8(0.57)$	0.4852 ± 0.0095 (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	z_{re}	$11.2^{+1.9}_{-1.6}$ $(+0.0\sigma)$	$\sigma_8(0.57)$	0.622 ± 0.012 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$10^9 A_s$	2.265 ± 0.093 (-0.0σ)	Y_P^{BBN}	0.24634 ± 0.00010 (-4.0σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.878 ± 0.012 (-0.4σ)	f_{2000}^{143}	28.2 ± 2.9 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.27^{+1.4}_{-2.5}$ (-1.0σ)	D_{40}	1207^{+16}_{-20} (-0.3σ)	f_{2000}^{217}	105.9 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	D_{220}	5708 ± 41 (-0.5σ)	$f_{2000}^{143\times217}$	31.1 ± 2.2 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.604 (-0.2σ)	D_{810}	2532 ± 14 (-0.3σ)	χ^2_{lowTEB}	10495.1 ± 2.6 (-0.1σ)
$\boldsymbol{A^{kSZ}}$	$5.27^{+3.6}_{-2.4}$ $(+0.7\sigma)$	D_{1420}	814.7 ± 5.1 (-0.0σ)	$\chi^2_{CamSpec}$	8061.2 ± 6.1
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9652 ± 0.0053 $(+0.4\sigma)$	χ^2_{6DF}	0.067 ± 0.085 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Y_P	0.24501 ± 0.00010 (-4.1σ)	χ^2_{MGS}	1.31 ± 0.54 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Age/Gyr	13.790 ± 0.030 (-0.0σ)	$\chi^2_{DR11CMASS}$	2.96 ± 0.75 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	z_*	1089.72 ± 0.33 (-0.0σ)	$\chi^2_{DR11LOWZ}$	0.80 ± 0.63 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99683 ± 0.00097 (-1.4σ)	r_*	144.62 ± 0.34 $(+0.1\sigma)$	χ^2_{prior}	8.36 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04093 ± 0.00045 $(+0.1\sigma)$	χ^2_{CMB}	18556.3 ± 5.9 $(+757.7\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	z_{drag}	1060.04 ± 0.53 (-0.1σ)	χ^2_{BAO}	5.14 ± 1.1 (-0.0σ)
H_0	67.70 ± 0.57 $(+0.1\sigma)$	r_{drag}	147.26 ± 0.38 $(+0.1\sigma)$		

$\bar{\chi}^2_{eff} = 18569.81$; $\Delta\bar{\chi}^2_{eff} = 7282.86$; $R - 1 = 0.00960$

6.17 base_alpha1_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02243 \pm 0.00025 \quad (-0.0\sigma)$	H_0	$67.48 \pm 0.93 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1060.02 \pm 0.53 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1196 \pm 0.0021 \quad (-0.1\sigma)$	Ω_Λ	$0.686 \pm 0.013 \quad (+0.1\sigma)$	$r_{\rm drag}$	$147.15 \pm 0.50 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04066 \pm 0.00052 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.314 \pm 0.013 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14086 \pm 0.00058 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.091 \pm 0.021 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1426 \pm 0.0020 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16064 \pm 0.00032 \quad (+0.0\sigma)$
$\boldsymbol{\alpha_{-1}}$	$-0.0022^{+0.0024}_{-0.0011} \quad (+0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.09622 \pm 0.00048 \quad (-0.0\sigma)$	$z_{\rm eq}$	$3393 \pm 48 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.117 \pm 0.041 \quad (-0.0\sigma)$	σ_8	$0.835 \pm 0.016 \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.8150 \pm 0.0090 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9638 \pm 0.0069 \quad (+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.468 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07145 \pm 0.00071 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0004 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.625 \pm 0.014 \quad (-0.1\sigma)$	$H(0.57)$	$93.00 \pm 0.41 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.017 \pm 0.020 \quad (-0.0\sigma)$	$D_{\rm A}(0.57)$	$1389 \pm 12 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.513 \pm 0.049 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6765 \pm 0.0032 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$11.0^{+2.0}_{-1.6} \quad (+0.0\sigma)$	$f\sigma_8(0.57)$	$0.4860 \pm 0.0099 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.260 \pm 0.093 \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.621 \pm 0.012 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.26^{+1.4}_{-2.5} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.880 \pm 0.014 \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24633 \pm 0.00011 \quad (-3.8\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1208^{+17}_{-20} \quad (-0.4\sigma)$	f_{2000}^{143}	$28.3 \pm 3.0 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.601 \quad (-0.2\sigma)$	D_{220}	$5707 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.0 \pm 2.1 \quad (+0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.28^{+3.7}_{-2.4} \quad (+0.7\sigma)$	D_{810}	$2533 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$31.2 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.4 \pm 5.2 \quad (-0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.0 \pm 2.6 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.9638 \pm 0.0069 \quad (+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	8061.8 ± 6.2
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$Y_{\rm P}$	$0.24500 \pm 0.00011 \quad (-3.8\sigma)$	$\chi^2_{\rm JLA}$	$706.94 \pm 0.47 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.797 \pm 0.038 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.34 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99683 \pm 0.00097 \quad (-1.4\sigma)$	z_*	$1089.80 \pm 0.42 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18556.7 \pm 6.0 \quad (+581.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$144.51 \pm 0.49 \quad (+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04085 \pm 0.00051 \quad (+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 19272.00$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.76$; $R - 1 = 0.00744$

6.18 base_alpha1_CamSpecHM_TT_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02239 ± 0.00026 $(+0.0\sigma)$	H_0	67.80 ± 0.94 $(+0.1\sigma)$	$z_{\rm drag}$	1059.88 ± 0.55 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1187 ± 0.0021 (-0.1σ)	Ω_Λ	0.691 ± 0.013 $(+0.1\sigma)$	$r_{\rm drag}$	147.42 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04081 ± 0.00051 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.309 ± 0.013 (-0.1σ)	$k_{\rm D}$	$0.14056^{+0.00058}_{-0.00052}$ (-0.0σ)
$\boldsymbol{\tau}$	0.074 ± 0.018 $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.1417 ± 0.0019 (-0.1σ)	$100\theta_{\rm D}$	$0.16074^{+0.00031}_{-0.00035}$ (-0.0σ)
$\boldsymbol{\alpha_{-1}}$	$-0.0017^{+0.0020}_{-0.0011}$ $(+0.0\sigma)$	$\Omega_{\rm m} h^3$	0.09608 ± 0.00048 (-0.0σ)	$z_{\rm eq}$	3372 ± 46 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.079 ± 0.033 $(+0.1\sigma)$	σ_8	0.8180 ± 0.0099 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8189 ± 0.0089 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9655 ± 0.0071 $(+0.3\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4543 ± 0.0090 (-0.0σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07174 ± 0.00071 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 $(+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6096 ± 0.0079 $(+0.1\sigma)$	$H(0.57)$	$93.10^{+0.40}_{-0.46}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248 ± 23 (-0.5σ)	$\sigma_8/h^{0.5}$	0.994 ± 0.011 $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1385 ± 13 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.457 ± 0.028 (-0.1σ)	$F_{\rm AP}(0.57)$	0.6753 ± 0.0032 (-0.1σ)
$\boldsymbol{A_{217}^{PS}}$	96 ± 10 $(+0.0\sigma)$	$z_{\rm re}$	$9.49^{+1.7}_{-1.5}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4748 ± 0.0056 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.8σ)	$10^9 A_{\rm s}$	2.175 ± 0.071 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6093 ± 0.0089 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.12^{+1.2}_{-2.6}$ (-0.9σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.874 ± 0.014 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.24631 ± 0.00011 (-3.6σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.50^{+0.11}_{-0.12}$	D_{40}	1201^{+16}_{-22} (-0.3σ)	f_{2000}^{143}	29.2 ± 2.9 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.589 (-0.2σ)	D_{220}	5704 ± 43 (-0.5σ)	f_{2000}^{217}	106.5 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	> 4.36 $(+0.6\sigma)$	D_{810}	2530 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	31.9 ± 2.2 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.999 ± 0.19	D_{1420}	814.1 ± 5.1 (-0.0σ)	$\chi^2_{\rm lensing}$	10.0 ± 1.6 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	0.9655 ± 0.0071 $(+0.3\sigma)$	$\chi^2_{\rm lowTEB}$	10493.6 ± 2.0 (-0.1σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	0.24498 ± 0.00011 (-3.6σ)	$\chi^2_{\rm CamSpec}$	8063.8 ± 6.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	13.793 ± 0.040 (-0.1σ)	$\chi^2_{\rm prior}$	8.31 ± 3.4 $(+0.2\sigma)$
$\boldsymbol{c_{100}}$	0.99682 ± 0.00098 (-1.4σ)	z_*	1089.77 ± 0.44 (-0.1σ)	$\chi^2_{\rm CMB}$	18567.4 ± 6.1 $(+1216.7\sigma)$
$\boldsymbol{c_{217}}$	0.9973 ± 0.0017 $(+1.0\sigma)$	r_*	144.75 ± 0.47 $(+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04100 ± 0.00051 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18575.74$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.28$; $R - 1 = 0.01864$

6.19 base_alpha1_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02244 \pm 0.00025 \quad (+0.0\sigma)$	H_0	$67.52 \pm 0.97 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1060.04 \pm 0.53 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1195 \pm 0.0022 \quad (-0.1\sigma)$	Ω_Λ	$0.687^{+0.014}_{-0.013} \quad (+0.1\sigma)$	$r_{\rm drag}$	$147.16 \pm 0.51 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04068 \pm 0.00052 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.313^{+0.013}_{-0.014} \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14086 \pm 0.00059 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.092 \pm 0.021 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1426 \pm 0.0021 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16063 \pm 0.00032 \quad (-0.0\sigma)$
$\boldsymbol{\alpha_{-1}}$	$-0.0023^{+0.0024}_{-0.0011} \quad (+0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.09624 \pm 0.00048 \quad (-0.0\sigma)$	$z_{\rm eq}$	$3391 \pm 49 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.118 \pm 0.041 \quad (-0.0\sigma)$	σ_8	$0.835 \pm 0.016 \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.8154 \pm 0.0093 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9641 \pm 0.0071 \quad (+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.467 \pm 0.014 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07148 \pm 0.00074 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0004 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.625 \pm 0.014 \quad (-0.1\sigma)$	$H(0.57)$	$93.02 \pm 0.42 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$244 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.017 \pm 0.021 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1388 \pm 13 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.512 \pm 0.050 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6764 \pm 0.0034 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$11.1^{+2.0}_{-1.6} \quad (+0.0\sigma)$	$f\sigma_8(0.57)$	$0.486 \pm 0.010 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.262 \pm 0.093 \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.621 \pm 0.012 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.27^{+1.4}_{-2.5} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.880 \pm 0.014 \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24633 \pm 0.00011 \quad (-3.7\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	D_{40}	$1208^{+17}_{-20} \quad (-0.4\sigma)$	f_{2000}^{143}	$28.3 \pm 3.0 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.601 \quad (-0.2\sigma)$	D_{220}	$5708 \pm 42 \quad (-0.5\sigma)$	f_{2000}^{217}	$105.9 \pm 2.1 \quad (+0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.26^{+3.6}_{-2.5} \quad (+0.7\sigma)$	D_{810}	$2533 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$31.2 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.5 \pm 5.2 \quad (-0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.0 \pm 2.6 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.9641 \pm 0.0071 \quad (+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	8061.8 ± 6.2
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$Y_{\rm P}$	$0.24500 \pm 0.00011 \quad (-3.7\sigma)$	$\chi^2_{\rm H070p6}$	$0.93 \pm 0.54 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.795 \pm 0.039 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.35 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99683 \pm 0.00097 \quad (-1.4\sigma)$	z_*	$1089.78 \pm 0.43 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18556.8 \pm 6.0 \quad (+877.1\sigma)$
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$144.52 \pm 0.50 \quad (+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04087 \pm 0.00052 \quad (+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18566.09$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.02$; $R - 1 = 0.00757$

6.20 base_alpha1_CamSpecHM_TT_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02242 ± 0.00023 $(+0.0\sigma)$	Ω_m	0.3063 ± 0.0072 (-0.1σ)	z_{eq}	3364 ± 28 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.1184 ± 0.0012 (-0.0σ)	$\Omega_m h^2$	0.1414 ± 0.0012 (-0.1σ)	$100\theta_{eq}$	0.8203 ± 0.0052 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04087 ± 0.00045 $(+0.1\sigma)$	$\Omega_m h^3$	$0.09611^{+0.00052}_{-0.00047}$ $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07185 ± 0.00041 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.076 ± 0.014 $(+0.1\sigma)$	σ_8	0.8187 ± 0.0096 $(+0.1\sigma)$	$H(0.57)$	93.16 ± 0.28 $(+0.1\sigma)$
$\boldsymbol{\alpha_{-1}}$	$-0.0017^{+0.0020}_{-0.0011}$ $(+0.0\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.4531 ± 0.0067 $(+0.1\sigma)$	$D_A(0.57)$	1382.9 ± 7.5 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.083 ± 0.028 $(+0.1\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.6090 ± 0.0073 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6747 ± 0.0018 (-0.1σ)
$\boldsymbol{n_s}$	0.9664 ± 0.0053 $(+0.4\sigma)$	$\sigma_8/h^{0.5}$	0.993 ± 0.011 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4746 ± 0.0055 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0026 (-0.0σ)	$\langle d^2\rangle^{1/2}$	2.456 ± 0.027 (-0.1σ)	$\sigma_8(0.57)$	0.6103 ± 0.0077 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	247 ± 23 (-0.5σ)	z_{re}	9.70 ± 1.3 $(+0.1\sigma)$	Y_P^{BBN}	$0.24632^{+0.00011}_{-0.000096}$ (-4.1σ)
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	$10^9 A_s$	2.182 ± 0.061 $(+0.1\sigma)$	f_{2000}^{143}	29.0 ± 2.8 (-0.4σ)
$\boldsymbol{A_{217}^{PS}}$	96 ± 10 $(+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.873 ± 0.012 (-0.3σ)	f_{2000}^{217}	106.4 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.8σ)	D_{40}	1201^{+15}_{-21} (-0.3σ)	$f_{2000}^{143\times217}$	31.8 ± 2.1 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.13^{+1.3}_{-2.6}$ (-0.9σ)	D_{220}	5706 ± 42 (-0.5σ)	$\chi^2_{lensing}$	9.88 ± 1.5 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.50^{+0.11}_{-0.12}$	D_{810}	2530 ± 14 (-0.2σ)	χ^2_{lowTEB}	10493.5 ± 1.9 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.591 (-0.2σ)	D_{1420}	814.4 ± 5.0 (-0.0σ)	$\chi^2_{CamSpec}$	8063.5 ± 6.1
$\boldsymbol{A^{kSZ}}$	$5.71^{+4.2}_{-1.4}$ $(+0.6\sigma)$	$n_{s,0.002}$	0.9664 ± 0.0053 $(+0.4\sigma)$	χ^2_{H070p6}	0.66 ± 0.26 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.999 ± 0.19	Y_P	0.24500 ± 0.00010 (-4.1σ)	χ^2_{JLA}	706.66 ± 0.16 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Age/Gyr	$13.787^{+0.032}_{-0.029}$ (-0.0σ)	χ^2_{6DF}	0.040 ± 0.055 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	z_*	1089.70 ± 0.33 (-0.1σ)	χ^2_{MGS}	1.61 ± 0.56 $(+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	r_*	144.82 ± 0.32 $(+0.1\sigma)$	$\chi^2_{DR11CMASS}$	2.84 ± 0.59 (-0.0σ)
$\boldsymbol{c_{100}}$	$0.99683^{+0.00095}_{-0.0011}$ (-1.4σ)	$100\theta_*$	1.04106 ± 0.00045 $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.50 ± 0.46 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	z_{drag}	1059.92 ± 0.52 (-0.0σ)	χ^2_{prior}	8.34 ± 3.4 $(+0.2\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_{drag}	147.47 ± 0.36 $(+0.0\sigma)$	χ^2_{CMB}	18566.8 ± 5.9 $(+327.7\sigma)$
H_0	67.96 ± 0.55 $(+0.1\sigma)$	k_D	$0.14052^{+0.00053}_{-0.00047}$ (-0.0σ)	χ^2_{BAO}	4.98 ± 0.89 $(+0.0\sigma)$
Ω_Λ	0.6937 ± 0.0072 $(+0.1\sigma)$	$100\theta_D$	$0.16072^{+0.00029}_{-0.00034}$ (-0.0σ)		

$\bar{\chi}^2_{eff} = 19287.47$; $\Delta\bar{\chi}^2_{eff} = 7281.40$; $R - 1 = 0.02463$

6.21 base_alpha1_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02240 \pm 0.00025 \quad (+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	$144.40 \pm 0.52 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1200 \pm 0.0022 \quad (-0.1\sigma)$	H_0	$67.3 \pm 1.0 \quad (+0.1\sigma)$	$100\theta_*$	$1.04078 \pm 0.00053 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04059 \pm 0.00053 \quad (+0.1\sigma)$	Ω_Λ	$0.683 \pm 0.014 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1059.99 \pm 0.53 \quad (-0.0\sigma)$
$\boldsymbol{\tau}$	$0.090 \pm 0.020 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.317 \pm 0.014 \quad (-0.1\sigma)$	$r_{\rm drag}$	$147.05 \pm 0.53 \quad (+0.1\sigma)$
$\boldsymbol{\alpha_{-1}}$	$-0.0023^{+0.0024}_{-0.0011} \quad (+0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1431 \pm 0.0021 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14094 \pm 0.00059 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.116 \pm 0.040 \quad (-0.0\sigma)$	$\Omega_{\rm m}h^3$	$0.09622 \pm 0.00048 \quad (-0.0\sigma)$	$100\theta_{\rm D}$	$0.16066 \pm 0.00032 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.9625 \pm 0.0073 \quad (+0.4\sigma)$	σ_8	$0.836 \pm 0.015 \quad (-0.0\sigma)$	$z_{\rm eq}$	$3404 \pm 51 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.470 \pm 0.014 \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8129 \pm 0.0096 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 23 \quad (-0.5\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.627 \pm 0.014 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07128 \pm 0.00076 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.019 \pm 0.020 \quad (-0.1\sigma)$	$H(0.57)$	$92.92^{+0.41}_{-0.46} \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	$2.518 \pm 0.049 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1392 \pm 13 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$z_{\rm re}$	$10.9^{+1.9}_{-1.7} \quad (+0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6773 \pm 0.0035 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.24^{+1.4}_{-2.6} \quad (-1.0\sigma)$	$10^9A_{\rm s}$	$2.256^{+0.088}_{-0.098} \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.4871 \pm 0.0098 \quad (-0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	$1.883 \pm 0.015 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.621 \pm 0.012 \quad (+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.598 \quad (-0.2\sigma)$	D_{40}	$1209^{+17}_{-20} \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24631 \pm 0.00011 \quad (-3.7\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.31^{+3.7}_{-2.3} \quad (+0.7\sigma)$	D_{220}	$5705 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{143}	$28.5 \pm 3.0 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	$2533 \pm 14 \quad (-0.3\sigma)$	f_{2000}^{217}	$106.1 \pm 2.1 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	$814.1 \pm 5.2 \quad (-0.0\sigma)$	$f_{2000}^{143\times217}$	$31.3 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$n_{\rm s,0.002}$	$0.9625 \pm 0.0073 \quad (+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10494.8 \pm 2.5 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.24499 \pm 0.00011 \quad (-3.7\sigma)$	$\chi^2_{\rm CamSpec}$	8061.9 ± 6.2
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00097 \quad (-1.4\sigma)$	Age/Gyr	$13.804 \pm 0.040 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.34 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.9\sigma)$	z_*	$1089.88 \pm 0.44 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18556.7 \pm 6.0 \quad (+923.0\sigma)$

$\bar{\chi}^2_{\rm eff} = 18565.09$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.13$; $R - 1 = 0.00710$

6.22 base_alpha1_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022342	0.02234 ± 0.00016 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.00123	1.0019 ± 0.0044	r_*	144.785	$144.90^{+0.49}_{-0.41}$ $(+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11872	$0.1183^{+0.0017}_{-0.0020}$ (-0.5σ)	$\boldsymbol{\beta_1^1}$	-0.13	-0.1 ± 1.0	$100\theta_*$	1.041149	$1.04127^{+0.00049}_{-0.00041}$ $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040945	$1.04107^{+0.00049}_{-0.00042}$ $(+0.2\sigma)$	H_0	67.79	67.99 ± 0.80 $(+0.5\sigma)$	z_{drag}	1059.780	1059.74 ± 0.35 $(+0.4\sigma)$
$\boldsymbol{\tau}$	0.0779	0.078 ± 0.017 (-0.1σ)	Ω_Λ	0.6916	$0.694^{+0.012}_{-0.010}$ $(+0.5\sigma)$	r_{drag}	147.461	$147.58^{+0.51}_{-0.41}$ $(+0.3\sigma)$
$\boldsymbol{\alpha_{-1}}$	0.00005	$0.00041^{+0.00043}_{-0.00068}$ $(+0.2\sigma)$	Ω_m	0.3084	$0.306^{+0.010}_{-0.012}$ (-0.5σ)	k_D	0.14047	$0.14035^{+0.00045}_{-0.00056}$ (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0846	3.084 ± 0.034 (-0.2σ)	$\Omega_m h^2$	0.14171	$0.1413^{+0.0016}_{-0.0019}$ (-0.5σ)	$100\theta_D$	0.160825	0.16086 ± 0.00023 (-0.5σ)
$\boldsymbol{n_s}$	0.9694	$0.9717^{+0.0076}_{-0.0062}$ $(+0.6\sigma)$	$\Omega_m h^3$	0.096066	0.09604 ± 0.00031 $(+0.2\sigma)$	z_{eq}	3371.0	3361^{+39}_{-46} (-0.5σ)
$\boldsymbol{y_{cal}}$	1.00001	1.0004 ± 0.0025 (-0.0σ)	σ_8	0.8255	0.825 ± 0.013 (-0.4σ)	$100\theta_{eq}$	0.8189	$0.8209^{+0.0086}_{-0.0077}$ $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	246.3	243 ± 22 (-0.6σ)	$\sigma_8 \Omega_m^{0.5}$	0.4584	$0.456^{+0.011}_{-0.012}$ (-0.6σ)	$r_{drag}/D_V(0.57)$	0.07175	$0.07192^{+0.00069}_{-0.00062}$ $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.1	38 ± 8 (-0.7σ)	$\sigma_8 \Omega_m^{0.25}$	0.6152	0.614 ± 0.012 (-0.6σ)	$H(0.57)$	93.084	93.17 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97.9	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.0027	1.001 ± 0.017 (-0.5σ)	$D_A(0.57)$	1385.2	1383 ± 10 (-0.6σ)
$\boldsymbol{A_{217}^{CIB}}$	46.5	45 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.4764	2.470 ± 0.043 (-0.6σ)	$F_{AP}(0.57)$	0.67523	$0.6746^{+0.0026}_{-0.0031}$ (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.54	$3.46^{+1.6}_{-2.5}$ (-1.0σ)	z_{re}	9.93	$9.88^{+1.7}_{-1.4}$ (-0.1σ)	$f\sigma_8(0.57)$	0.4792	0.4783 ± 0.0084 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.430	0.52 ± 0.11	$10^9 A_s$	2.186	2.187 ± 0.073 (-0.2σ)	$\sigma_8(0.57)$	0.6149	0.615 ± 0.010 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.030	< 0.608 (-0.3σ)	$10^9 A_s e^{-2\tau}$	1.8703	1.869 ± 0.014 (-0.7σ)	Y_P^{BBN}	0.246291	0.246291 ± 0.000070 (-5.2σ)
$\boldsymbol{A^{kSZ}}$	4.49	—	D_{40}	1231.3	1234 ± 14 (-0.7σ)	f_{2000}^{143}	28.59	28.1 ± 2.7 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.988	0.98 ± 0.19	D_{220}	5707.3	5710 ± 40 (-0.4σ)	f_{2000}^{217}	106.11	105.9 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.027	1.02 ± 0.18	D_{810}	2527.8	2530 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.18	31.1 ± 2.0 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.222	1.22 ± 0.12	D_{1420}	814.30	815.5 ± 4.9 $(+0.1\sigma)$	χ^2_{lowTEB}	10496.45	10497.8 ± 2.7 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.969	0.98 ± 0.18	$n_{s,0.002}$	0.9694	$0.9717^{+0.0076}_{-0.0062}$ $(+0.6\sigma)$	$\chi^2_{CamSpec}$	12935.1	12952.6 ± 6.6
$\boldsymbol{c_{100}}$	0.99670	0.99678 ± 0.00097 (-1.8σ)	Y_P	0.244959	$0.244962^{+0.000067}_{-0.000076}$ (-5.2σ)	χ^2_{prior}	3.63	9.08 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99713	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.7940	13.788 ± 0.028 (-0.6σ)	χ^2_{CMB}	23431.6	23450.4 ± 6.3 $(+1510.4\sigma)$
$\boldsymbol{c_{TE}}$	1.00432	1.0046 ± 0.0045	z_*	1089.825	1089.79 ± 0.29 (-0.7σ)			

Best-fit $\chi^2_{eff} = 23435.22$; $\Delta\chi^2_{eff} = 10499.83$; $\bar{\chi}^2_{eff} = 23459.49$; $\Delta\bar{\chi}^2_{eff} = 10490.24$; $R - 1 = 0.00861$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.44 (Δ -1.35) CamSpec like_v9.10CMH_unified: 12935.14

6.23 base_alpha1_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02233 ± 0.00016 $(+0.5\sigma)$	H_0	67.91 ± 0.51 $(+0.4\sigma)$	k_D	$0.14037^{+0.00038}_{-0.00044}$ $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0012 (-0.3σ)	Ω_Λ	0.6933 ± 0.0070 $(+0.4\sigma)$	$100\theta_D$	0.16087 ± 0.00023 (-0.5σ)
$\boldsymbol{100\theta_{MC}}$	1.04105 ± 0.00037 $(+0.0\sigma)$	Ω_m	0.3067 ± 0.0070 (-0.4σ)	z_{eq}	3364 ± 27 (-0.3σ)
$\boldsymbol{\tau}$	0.077 ± 0.017 (-0.2σ)	$\Omega_m h^2$	0.1414 ± 0.0011 (-0.3σ)	$100\theta_{eq}$	0.8202 ± 0.0051 $(+0.3\sigma)$
$\boldsymbol{\alpha_{-1}}$	$0.00037^{+0.00036}_{-0.00056}$ (-0.0σ)	$\Omega_m h^3$	0.09604 ± 0.00031 $(+0.3\sigma)$	$r_{drag}/D_V(0.57)$	0.07186 ± 0.00041 $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.083 ± 0.034 (-0.3σ)	σ_8	0.825 ± 0.013 (-0.4σ)	$H(0.57)$	93.13 ± 0.22 $(+0.5\sigma)$
$\boldsymbol{n_s}$	0.9712 ± 0.0051 $(+0.5\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.4571 ± 0.0092 (-0.5σ)	$D_A(0.57)$	1383.6 ± 6.8 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_m^{0.25}$	0.614 ± 0.011 (-0.5σ)	$F_{AP}(0.57)$	0.6748 ± 0.0018 (-0.4σ)
$\boldsymbol{A_{100}^{PS}}$	243 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	1.002 ± 0.017 (-0.4σ)	$f\sigma_8(0.57)$	0.4786 ± 0.0081 (-0.4σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.472 ± 0.041 (-0.5σ)	$\sigma_8(0.57)$	0.615 ± 0.010 (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	z_{re}	$9.82^{+1.7}_{-1.4}$ (-0.2σ)	Y_P^{BBN}	0.246285 ± 0.000068 (-5.5σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$10^9 A_s$	2.184 ± 0.073 (-0.3σ)	f_{2000}^{143}	28.2 ± 2.7 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.46^{+1.6}_{-2.5}$ (-1.0σ)	$10^9 A_s e^{-2\tau}$	1.870 ± 0.012 (-0.5σ)	f_{2000}^{217}	105.9 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{40}	1235 ± 14 (-0.7σ)	$f_{2000}^{143\times217}$	31.1 ± 1.9 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.603 (-0.3σ)	D_{220}	5709 ± 40 (-0.4σ)	χ^2_{lowTEB}	10497.8 ± 2.5 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	—	D_{810}	2530 ± 14 (-0.3σ)	$\chi^2_{CamSpec}$	12952.0 ± 6.4
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	815.4 ± 4.9 $(+0.0\sigma)$	χ^2_{6DF}	0.039 ± 0.056 (-0.2σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{s,0.002}$	0.9712 ± 0.0051 $(+0.5\sigma)$	χ^2_{MGS}	1.60 ± 0.55 $(+0.3\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Y_P	$0.244956^{+0.000064}_{-0.000073}$ (-5.6σ)	$\chi^2_{DR11CMASS}$	2.82 ± 0.58 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	13.791 ± 0.021 (-0.5σ)	$\chi^2_{DR11LOWZ}$	0.50 ± 0.47 (-0.3σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.8σ)	z_*	1089.82 ± 0.24 (-0.6σ)	χ^2_{prior}	9.09 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	r_*	$144.86^{+0.33}_{-0.29}$ $(+0.1\sigma)$	χ^2_{CMB}	23449.7 ± 6.2 $(+1526.7\sigma)$
$\boldsymbol{c_{TE}}$	1.0046 ± 0.0045	$100\theta_*$	1.04125 ± 0.00037 $(+0.0\sigma)$	χ^2_{BAO}	4.95 ± 0.87 $(+0.0\sigma)$
$\boldsymbol{c_{EE}}$	1.0018 ± 0.0043	z_{drag}	1059.72 ± 0.36 $(+0.4\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	r_{drag}	$147.55^{+0.35}_{-0.31}$ $(+0.1\sigma)$		

$\bar{\chi}^2_{eff} = 23463.76$; $\Delta\bar{\chi}^2_{eff} = 10490.20$; $R - 1 = 0.00759$

6.24 base_alpha1_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02235 \pm 0.00016 \quad (+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0019 ± 0.0044	r_*	$144.94^{+0.46}_{-0.39} \quad (+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1181^{+0.0016}_{-0.0018} \quad (-0.5\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$100\theta_*$	$1.04130^{+0.00047}_{-0.00040} \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04110^{+0.00047}_{-0.00040} \quad (+0.2\sigma)$	H_0	$68.08 \pm 0.76 \quad (+0.5\sigma)$	z_{drag}	$1059.74 \pm 0.35 \quad (+0.4\sigma)$
$\boldsymbol{\tau}$	$0.079 \pm 0.017 \quad (-0.1\sigma)$	Ω_Λ	$0.695^{+0.011}_{-0.0096} \quad (+0.5\sigma)$	r_{drag}	$147.62^{+0.48}_{-0.39} \quad (+0.3\sigma)$
$\boldsymbol{\alpha_{-1}}$	$0.00045^{+0.00041}_{-0.00068} \quad (+0.1\sigma)$	Ω_m	$0.3046^{+0.0096}_{-0.011} \quad (-0.5\sigma)$	k_D	$0.14031^{+0.00043}_{-0.00054} \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.085 \pm 0.034 \quad (-0.2\sigma)$	$\Omega_m h^2$	$0.1411^{+0.0015}_{-0.0018} \quad (-0.4\sigma)$	$100\theta_D$	$0.16086 \pm 0.00022 \quad (-0.5\sigma)$
$\boldsymbol{n_s}$	$0.9723^{+0.0072}_{-0.0060} \quad (+0.6\sigma)$	$\Omega_m h^3$	$0.09604 \pm 0.00031 \quad (+0.2\sigma)$	z_{eq}	$3356^{+37}_{-43} \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0004 \pm 0.0025 \quad (-0.0\sigma)$	σ_8	$0.825 \pm 0.013 \quad (-0.4\sigma)$	$100\theta_{eq}$	$0.8218^{+0.0081}_{-0.0073} \quad (+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$243 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.010}_{-0.012} \quad (-0.6\sigma)$	$r_{drag}/D_V(0.57)$	$0.07199 \pm 0.00061 \quad (+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 7 \quad (-0.7\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.613 \pm 0.011 \quad (-0.6\sigma)$	$H(0.57)$	$93.20 \pm 0.32 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.000 \pm 0.017 \quad (-0.5\sigma)$	$D_A(0.57)$	$1381.5 \pm 9.9 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.469 \pm 0.042 \quad (-0.6\sigma)$	$F_{AP}(0.57)$	$0.6743^{+0.0025}_{-0.0029} \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.47^{+1.7}_{-2.5} \quad (-1.0\sigma)$	z_{re}	$9.93^{+1.7}_{-1.4} \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4780 \pm 0.0083 \quad (-0.5\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9 A_s$	$2.189 \pm 0.073 \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.616 \pm 0.010 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.609 \quad (-0.3\sigma)$	$10^9 A_s e^{-2\tau}$	$1.868 \pm 0.013 \quad (-0.6\sigma)$	Y_P^{BBN}	$0.246293 \pm 0.000069 \quad (-5.2\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{40}	$1234 \pm 14 \quad (-0.7\sigma)$	f_{2000}^{143}	$28.1 \pm 2.7 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5710 \pm 40 \quad (-0.4\sigma)$	f_{2000}^{217}	$105.8 \pm 1.9 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.0 \pm 2.0 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$815.6 \pm 4.9 \quad (+0.1\sigma)$	χ^2_{lowTEB}	$10497.9 \pm 2.7 \quad (-0.4\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{s,0.002}$	$0.9723^{+0.0072}_{-0.0060} \quad (+0.6\sigma)$	$\chi^2_{CamSpec}$	12952.4 ± 6.5
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00097 \quad (-1.8\sigma)$	Y_P	$0.244965 \pm 0.000069 \quad (-5.3\sigma)$	χ^2_{JLA}	$706.68 \pm 0.24 \quad (-0.4\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.786 \pm 0.027 \quad (-0.6\sigma)$	χ^2_{prior}	$9.11 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0046 ± 0.0045	z_*	$1089.76 \pm 0.29 \quad (-0.7\sigma)$	χ^2_{CMB}	$23450.3 \pm 6.3 \quad (+1505.7\sigma)$

$\bar{\chi}^2_{eff} = 24166.08$; $\Delta\bar{\chi}^2_{eff} = 10490.10$; $R - 1 = 0.00946$

6.25 base_alpha1_CamSpecHM_TTTEEE_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02234 ± 0.00016 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0025 ± 0.0043	r_*	$145.07^{+0.43}_{-0.38}$ $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1177^{+0.0016}_{-0.0018}$ (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.10 ± 0.99	$100\theta_*$	$1.04140^{+0.00044}_{-0.00038}$ $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04120^{+0.00044}_{-0.00038}$ $(+0.1\sigma)$	H_0	68.25 ± 0.75 $(+0.4\sigma)$	z_{drag}	1059.67 ± 0.34 $(+0.5\sigma)$
$\boldsymbol{\tau}$	0.070 ± 0.014 $(+0.3\sigma)$	Ω_Λ	$0.698^{+0.011}_{-0.0093}$ $(+0.4\sigma)$	r_{drag}	$147.75^{+0.44}_{-0.38}$ $(+0.1\sigma)$
$\boldsymbol{\alpha_{-1}}$	$0.00059^{+0.00039}_{-0.00074}$ $(+0.0\sigma)$	Ω_m	$0.3021^{+0.0093}_{-0.011}$ (-0.4σ)	k_D	$0.14016^{+0.00041}_{-0.00048}$ $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.065 ± 0.025 $(+0.1\sigma)$	$\Omega_m h^2$	$0.1407^{+0.0015}_{-0.0017}$ (-0.3σ)	$100\theta_D$	0.16091 ± 0.00022 (-0.6σ)
$\boldsymbol{n_s}$	$0.9735^{+0.0070}_{-0.0058}$ $(+0.5\sigma)$	$\Omega_m h^3$	0.09598 ± 0.00030 $(+0.3\sigma)$	z_{eq}	3346^{+36}_{-41} (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0026 $(+0.0\sigma)$	σ_8	0.8163 ± 0.0089 $(+0.0\sigma)$	$100\theta_{eq}$	0.8237 ± 0.0074 $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244 ± 22 (-0.6σ)	$\sigma_8 \Omega_m^{0.5}$	0.4486 ± 0.0076 (-0.4σ)	$r_{drag}/D_V(0.57)$	0.07214 ± 0.00059 $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.7σ)	$\sigma_8 \Omega_m^{0.25}$	0.6051 ± 0.0070 (-0.3σ)	$H(0.57)$	93.26 ± 0.32 $(+0.4\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.988 ± 0.010 (-0.2σ)	$D_A(0.57)$	1379.3 ± 9.8 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.439 ± 0.025 (-0.4σ)	$F_{AP}(0.57)$	$0.6736^{+0.0024}_{-0.0028}$ (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.40^{+1.6}_{-2.5}$ (-1.0σ)	z_{re}	$9.08^{+1.4}_{-1.3}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4721 ± 0.0050 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9 A_s$	2.144 ± 0.055 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6096 ± 0.0077 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.609 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.865 ± 0.013 (-0.5σ)	Y_P^{BBN}	0.246287 ± 0.000070 (-5.1σ)
$\boldsymbol{A^{kSZ}}$	$5.18^{+3.4}_{-2.8}$ $(+0.7\sigma)$	D_{40}	1231 ± 13 (-0.6σ)	f_{2000}^{143}	28.5 ± 2.6 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5707 ± 39 (-0.4σ)	f_{2000}^{217}	106.1 ± 1.8 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	2528 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	31.3 ± 1.9 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	815.6 ± 4.9 $(+0.0\sigma)$	$\chi^2_{lensing}$	9.64 ± 1.3 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{s,0.002}$	$0.9735^{+0.0070}_{-0.0058}$ $(+0.5\sigma)$	χ^2_{lowTEB}	10497.0 ± 2.0 (-0.4σ)
$\boldsymbol{c_{100}}$	0.99673 ± 0.00097 (-1.8σ)	Y_P	$0.244958^{+0.000067}_{-0.000075}$ (-5.2σ)	$\chi^2_{CamSpec}$	12953.1 ± 6.3
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.6\sigma)$	Age/Gyr	13.782 ± 0.027 (-0.5σ)	χ^2_{prior}	9.19 ± 3.6 (-1.8σ)
$\boldsymbol{c_{TE}}$	1.0053 ± 0.0044	z_*	1089.74 ± 0.29 (-0.6σ)	χ^2_{CMB}	23459.8 ± 6.3 $(+1510.8\sigma)$

$\bar{\chi}^2_{eff} = 23468.99$; $\Delta\bar{\chi}^2_{eff} = 10488.71$; $R - 1 = 0.01383$

6.26 base_alpha1_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02236 \pm 0.00016 \quad (+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0020 ± 0.0044	r_*	$144.97^{+0.47}_{-0.39} \quad (+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1180^{+0.0016}_{-0.0019} \quad (-0.5\sigma)$	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	$100\theta_*$	$1.04133^{+0.00048}_{-0.00040} \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04113^{+0.00047}_{-0.00040} \quad (+0.2\sigma)$	H_0	$68.14 \pm 0.77 \quad (+0.5\sigma)$	z_{drag}	$1059.74 \pm 0.35 \quad (+0.4\sigma)$
$\boldsymbol{\tau}$	$0.079 \pm 0.017 \quad (-0.1\sigma)$	Ω_Λ	$0.696^{+0.012}_{-0.0096} \quad (+0.5\sigma)$	r_{drag}	$147.65^{+0.48}_{-0.40} \quad (+0.3\sigma)$
$\boldsymbol{\alpha_{-1}}$	$0.00048^{+0.00041}_{-0.00070} \quad (+0.1\sigma)$	Ω_m	$0.3039^{+0.0096}_{-0.012} \quad (-0.5\sigma)$	k_D	$0.14029^{+0.00043}_{-0.00054} \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.086 \pm 0.034 \quad (-0.2\sigma)$	$\Omega_m h^2$	$0.1410^{+0.0016}_{-0.0018} \quad (-0.4\sigma)$	$100\theta_D$	$0.16086 \pm 0.00022 \quad (-0.5\sigma)$
$\boldsymbol{n_s}$	$0.9727^{+0.0073}_{-0.0060} \quad (+0.6\sigma)$	$\Omega_m h^3$	$0.09604 \pm 0.00031 \quad (+0.2\sigma)$	z_{eq}	$3353^{+37}_{-44} \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0004 \pm 0.0025 \quad (-0.0\sigma)$	σ_8	$0.825 \pm 0.013 \quad (-0.4\sigma)$	$100\theta_{eq}$	$0.8223^{+0.0083}_{-0.0074} \quad (+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$243 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.011}_{-0.012} \quad (-0.6\sigma)$	$r_{drag}/D_V(0.57)$	$0.07203 \pm 0.00062 \quad (+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.7\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.613 \pm 0.011 \quad (-0.6\sigma)$	$H(0.57)$	$93.23 \pm 0.32 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.9999 \pm 0.017 \quad (-0.5\sigma)$	$D_A(0.57)$	$1381 \pm 10 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.468 \pm 0.042 \quad (-0.6\sigma)$	$F_{AP}(0.57)$	$0.6741^{+0.0025}_{-0.0029} \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.48^{+1.7}_{-2.5} \quad (-1.0\sigma)$	z_{re}	$9.97^{+1.7}_{-1.4} \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4778 \pm 0.0083 \quad (-0.5\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9 A_s$	$2.190 \pm 0.073 \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.616 \pm 0.010 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.610 \quad (-0.3\sigma)$	$10^9 A_s e^{-2\tau}$	$1.868 \pm 0.013 \quad (-0.6\sigma)$	Y_P^{BBN}	$0.246297 \pm 0.000069 \quad (-5.2\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{40}	$1234 \pm 14 \quad (-0.7\sigma)$	f_{2000}^{143}	$28.0 \pm 2.7 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	$5711 \pm 40 \quad (-0.4\sigma)$	f_{2000}^{217}	$105.8 \pm 1.9 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.0 \pm 2.0 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$815.7 \pm 4.9 \quad (+0.1\sigma)$	χ^2_{lowTEB}	$10498.0 \pm 2.7 \quad (-0.4\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{s,0.002}$	$0.9727^{+0.0073}_{-0.0060} \quad (+0.6\sigma)$	$\chi^2_{CamSpec}$	12952.4 ± 6.5
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00097 \quad (-1.8\sigma)$	Y_P	$0.244968 \pm 0.000069 \quad (-5.3\sigma)$	χ^2_{H070p6}	$0.60 \pm 0.35 \quad (-0.5\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.784 \pm 0.027 \quad (-0.6\sigma)$	χ^2_{prior}	$9.11 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0046 ± 0.0045	z_*	$1089.74 \pm 0.29 \quad (-0.7\sigma)$	χ^2_{CMB}	$23450.4 \pm 6.3 \quad (+1501.5\sigma)$

$\bar{\chi}^2_{eff} = 23460.09$; $\Delta\bar{\chi}^2_{eff} = 10490.01$; $R - 1 = 0.01020$

6.27 base_alpha1_CamSpecHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02232 \pm 0.00015 \quad (+0.5\sigma)$	Ω_Λ	$0.6959 \pm 0.0065 \quad (+0.3\sigma)$	$z_{\rm eq}$	$3353 \pm 25 \quad (-0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1180 \pm 0.0011 \quad (-0.2\sigma)$	$\Omega_{\rm m}$	$0.3041 \pm 0.0065 \quad (-0.3\sigma)$	$100\theta_{\rm eq}$	$0.8222 \pm 0.0048 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04115 \pm 0.00035 \quad (-0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1410 \pm 0.0011 \quad (-0.2\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07202 \pm 0.00038 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.067 \pm 0.012 \quad (+0.1\sigma)$	$\Omega_{\rm m}h^3$	$0.09599 \pm 0.00030 \quad (+0.3\sigma)$	$H(0.57)$	$93.19 \pm 0.22 \quad (+0.4\sigma)$
$\boldsymbol{\alpha_{-1}}$	$0.00050^{+0.00033}_{-0.00062} \quad (-0.1\sigma)$	σ_8	$0.8158 \pm 0.0087 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1381.3 \pm 6.5 \quad (-0.3\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.062 \pm 0.023 \quad (+0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.4498 \pm 0.0061 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6741 \pm 0.0017 \quad (-0.3\sigma)$
$\boldsymbol{n_s}$	$0.9724 \pm 0.0049 \quad (+0.4\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.6058 \pm 0.0066 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4724 \pm 0.0050 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0026 \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.989 \pm 0.010 \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.6087 \pm 0.0070 \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$244 \pm 22 \quad (-0.6\sigma)$	$\langle d^2\rangle^{1/2}$	$2.440 \pm 0.025 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246280 \pm 0.000067 \quad (-5.6\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 7 \quad (-0.7\sigma)$	$z_{\rm re}$	$8.91 \pm 1.2 \quad (+0.1\sigma)$	f_{2000}^{143}	$28.6 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$10^9A_{\rm s}$	$2.137 \pm 0.049 \quad (+0.0\sigma)$	f_{2000}^{217}	$106.2 \pm 1.8 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.9\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	$1.867 \pm 0.012 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$31.4 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.39^{+1.6}_{-2.5} \quad (-1.0\sigma)$	D_{40}	$1231^{+14}_{-13} \quad (-0.6\sigma)$	$\chi^2_{\rm lensing}$	$9.68 \pm 1.3 \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	D_{220}	$5706 \pm 39 \quad (-0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.8 \pm 1.9 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.601 \quad (-0.2\sigma)$	D_{810}	$2528 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{\rm CamSpec}$	12952.6 ± 6.3
$\boldsymbol{A^{kSZ}}$	$5.20^{+3.3}_{-2.8} \quad (+0.8\sigma)$	D_{1420}	$815.4 \pm 4.9 \quad (+0.0\sigma)$	$\chi^2_{\rm H070p6}$	$0.59 \pm 0.22 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{\rm s,0.002}$	$0.9724 \pm 0.0049 \quad (+0.4\sigma)$	$\chi^2_{\rm JLA}$	$706.61 \pm 0.12 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$Y_{\rm P}$	$0.244951^{+0.000062}_{-0.000072} \quad (-5.7\sigma)$	$\chi^2_{\rm 6DF}$	$0.032 \pm 0.046 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.787 \pm 0.021 \quad (-0.4\sigma)$	$\chi^2_{\rm MGS}$	$1.81 \pm 0.54 \quad (+0.2\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	$1089.79 \pm 0.24 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.87 \pm 0.65 \quad (+0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99674 \pm 0.00098 \quad (-1.8\sigma)$	r_*	$144.99 \pm 0.28 \quad (+0.0\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.34 \pm 0.35 \quad (-0.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	$100\theta_*$	$1.04135 \pm 0.00035 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$9.23 \pm 3.6 \quad (-1.8\sigma)$
$\boldsymbol{c_{TE}}$	1.0054 ± 0.0044	$z_{\rm drag}$	$1059.66 \pm 0.35 \quad (+0.5\sigma)$	$\chi^2_{\rm CMB}$	$23459.1 \pm 6.2 \quad (+1538.2\sigma)$
$\boldsymbol{c_{EE}}$	1.0024 ± 0.0043	$r_{\rm drag}$	$147.68^{+0.32}_{-0.28} \quad (-0.1\sigma)$	$\chi^2_{\rm BAO}$	$5.06 \pm 0.98 \quad (+0.2\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$k_{\rm D}$	$0.14022^{+0.00035}_{-0.00040} \quad (+0.3\sigma)$		
H_0	$68.10 \pm 0.49 \quad (+0.3\sigma)$	$100\theta_{\rm D}$	$0.16091 \pm 0.00022 \quad (-0.6\sigma)$		

$\bar{\chi}^2_{\rm eff} = 24180.62$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.81$; $R - 1 = 0.01068$

6.28 base_alpha1_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02235 ± 0.00016 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0018 ± 0.0044	r_*	$144.90^{+0.49}_{-0.41}$ $(+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1183^{+0.0017}_{-0.0020}$ (-0.5σ)	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$100\theta_*$	$1.04127^{+0.00049}_{-0.00041}$ $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04107^{+0.00049}_{-0.00041}$ $(+0.2\sigma)$	H_0	68.01 ± 0.80 $(+0.5\sigma)$	z_{drag}	1059.74 ± 0.35 $(+0.4\sigma)$
$\boldsymbol{\tau}$	0.079 ± 0.016 (-0.1σ)	Ω_Λ	$0.694^{+0.012}_{-0.010}$ $(+0.5\sigma)$	r_{drag}	$147.58^{+0.51}_{-0.41}$ $(+0.3\sigma)$
$\boldsymbol{\alpha_{-1}}$	$0.00041^{+0.00043}_{-0.00067}$ $(+0.1\sigma)$	Ω_m	$0.306^{+0.010}_{-0.012}$ (-0.5σ)	k_D	$0.14035^{+0.00044}_{-0.00057}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.086 ± 0.032 (-0.2σ)	$\Omega_m h^2$	$0.1412^{+0.0016}_{-0.0019}$ (-0.5σ)	$100\theta_D$	0.16085 ± 0.00022 (-0.5σ)
$\boldsymbol{n_s}$	$0.9718^{+0.0076}_{-0.0061}$ $(+0.6\sigma)$	$\Omega_m h^3$	0.09605 ± 0.00031 $(+0.2\sigma)$	z_{eq}	3360^{+39}_{-46} (-0.5σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025 (-0.0σ)	σ_8	0.826 ± 0.013 (-0.4σ)	$100\theta_{eq}$	$0.8211^{+0.0086}_{-0.0077}$ $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	243 ± 22 (-0.6σ)	$\sigma_8\Omega_m^{0.5}$	$0.457^{+0.011}_{-0.012}$ (-0.6σ)	$r_{drag}/D_V(0.57)$	$0.07193^{+0.00069}_{-0.00062}$ $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.7σ)	$\sigma_8\Omega_m^{0.25}$	0.614 ± 0.011 (-0.6σ)	$H(0.57)$	93.17 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.002 ± 0.017 (-0.5σ)	$D_A(0.57)$	1382 ± 10 (-0.6σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.472 ± 0.041 (-0.6σ)	$F_{AP}(0.57)$	$0.6745^{+0.0026}_{-0.0030}$ (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.47^{+1.6}_{-2.5}$ (-1.0σ)	z_{re}	9.98 ± 1.4 (-0.1σ)	$f\sigma_8(0.57)$	0.4787 ± 0.0081 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	$10^9 A_s$	$2.191^{+0.068}_{-0.077}$ (-0.2σ)	$\sigma_8(0.57)$	0.6160 ± 0.0096 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.607 (-0.3σ)	$10^9 A_s e^{-2\tau}$	1.869 ± 0.014 (-0.7σ)	Y_P^{BBN}	0.246292 ± 0.000070 (-5.2σ)
$\boldsymbol{A^{kSZ}}$	—	D_{40}	1234 ± 14 (-0.7σ)	f_{2000}^{143}	28.1 ± 2.7 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5710 ± 40 (-0.4σ)	f_{2000}^{217}	105.9 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2529 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.0 ± 2.0 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	815.5 ± 4.9 $(+0.1\sigma)$	χ^2_{lowTEB}	10497.8 ± 2.7 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{s,0.002}$	$0.9718^{+0.0076}_{-0.0061}$ $(+0.6\sigma)$	$\chi^2_{CamSpec}$	12952.5 ± 6.5
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.8σ)	Y_P	0.244963 ± 0.000069 (-5.2σ)	χ^2_{prior}	9.11 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.788 ± 0.028 (-0.6σ)	χ^2_{CMB}	23450.3 ± 6.3 $(+1511.1\sigma)$
$\boldsymbol{c_{TE}}$	1.0045 ± 0.0045	z_*	1089.78 ± 0.29 (-0.7σ)		

$\bar{\chi}^2_{eff} = 23459.42$; $\Delta\bar{\chi}^2_{eff} = 10490.25$; $R - 1 = 0.00998$

7 mnu

7.1 base_mnu_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022264	0.02213 ± 0.00027	Ω_m	0.3071	$0.339^{+0.017}_{-0.044}$	$100\theta_*$	1.041067	1.04096 ± 0.00049
$\boldsymbol{\Omega_c h^2}$	0.11950	0.1202 ± 0.0024	$\Omega_m h^2$	0.14176	$0.1449^{+0.0025}_{-0.0044}$	D_A/Gpc	13.8943	13.881 ± 0.049
$\boldsymbol{100\theta_{MC}}$	1.04090	1.04068 ± 0.00054	$\Omega_\nu h^2$	0.00000	< 0.00286	z_{drag}	1059.666	1059.43 ± 0.51
$\boldsymbol{\tau}$	0.0789	0.080 ± 0.020	$\Omega_m h^3$	0.09632	$0.0949^{+0.0019}_{-0.00070}$	r_{drag}	147.35	147.24 ± 0.52
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.000	< 0.266	σ_8	0.8430	$0.796^{+0.057}_{-0.023}$	k_D	0.14051	0.14056 ± 0.00054
$\boldsymbol{\ln(10^{10} A_s)}$	3.0913	3.095 ± 0.038	$\sigma_8\Omega_m^{0.5}$	0.4672	0.462 ± 0.014	$100\theta_D$	0.160919	0.16102 ± 0.00028
$\boldsymbol{n_s}$	0.9666	0.9637 ± 0.0071	$\sigma_8\Omega_m^{0.25}$	0.6276	$0.606^{+0.029}_{-0.016}$	z_{eq}	3388	3402 ± 53
$\boldsymbol{y_{cal}}$	1.00035	1.0004 ± 0.0025	$\sigma_8/h^{0.5}$	1.0227	$0.983^{+0.051}_{-0.026}$	k_{eq}	0.010339	0.01039 ± 0.00016
$\boldsymbol{A_{217}^{CIB}}$	66.4	64.3 ± 6.7	$\langle d^2\rangle^{1/2}$	2.5048	2.498 ± 0.048	$100\theta_{eq}$	0.8155	0.8129 ± 0.0099
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.08	—	z_{re}	10.04	$10.2^{+2.0}_{-1.7}$	$100\theta_{s,eq}$	0.4506	0.4493 ± 0.0051
$\boldsymbol{A_{143}^{tSZ}}$	7.13	5.05 ± 1.9	$10^9 A_s$	2.201	2.211 ± 0.085	$r_{drag}/D_V(0.57)$	0.07181	$0.0703^{+0.0020}_{-0.0010}$
$\boldsymbol{A_{100}^{PS}}$	251.4	260 ± 28	$10^9 A_s e^{-2\tau}$	1.8794	1.881 ± 0.014	$H(0.57)$	93.21	$92.0^{+1.5}_{-0.67}$
$\boldsymbol{A_{143}^{PS}}$	39.4	45 ± 8	D_{40}	1234.9	1238 ± 15	$D_A(0.57)$	1382.7	1417^{+18}_{-45}
$\boldsymbol{A_{143\times217}^{PS}}$	34.4	40^{+10}_{-10}	D_{220}	5716.4	5715 ± 41	$F_{AP}(0.57)$	0.6749	$0.6827^{+0.0043}_{-0.010}$
$\boldsymbol{A_{217}^{PS}}$	98.0	97 ± 10	D_{810}	2533.8	2534 ± 14	$f\sigma_8(0.57)$	0.4879	$0.471^{+0.023}_{-0.011}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.85	D_{1420}	814.8	814.1 ± 5.1	$\sigma_8(0.57)$	0.6278	$0.588^{+0.049}_{-0.019}$
$\boldsymbol{A_{100}^{dustTT}}$	7.46	7.43 ± 1.9	D_{2000}	230.63	229.8 ± 2.0	f_{2000}^{143}	29.28	30.7 ± 3.2
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.03 ± 1.8	$n_{s,0.002}$	0.9666	0.9637 ± 0.0071	$f_{2000}^{143\times217}$	32.00	33.0 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.75	17.2 ± 4.1	Y_P	0.245346	0.24528 ± 0.00012	f_{2000}^{217}	105.63	106.6 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.7 ± 7.4	Y_P^{BBN}	0.246672	0.24661 ± 0.00012	χ^2_{lowTEB}	10496.52	10497.7 ± 2.6
$\boldsymbol{c_{100}}$	0.99788	0.99787 ± 0.00078	10^5D/H	2.611	$2.637^{+0.048}_{-0.056}$	χ^2_{plik}	762.9	778.5 ± 6.0
$\boldsymbol{c_{217}}$	0.99588	0.9960 ± 0.0015	Age/Gyr	13.778	$13.911^{+0.063}_{-0.17}$	χ^2_{prior}	2.09	7.40 ± 3.6
H_0	67.95	$65.6^{+3.1}_{-1.4}$	z_*	1090.01	$1090.29^{+0.49}_{-0.59}$	χ^2_{CMB}	11259.5	11276.2 ± 5.9
Ω_Λ	0.6929	$0.661^{+0.044}_{-0.017}$	r_*	144.65	144.50 ± 0.54			

Best-fit $\chi^2_{eff} = 11261.54$; $\bar{\chi}^2_{eff} = 11283.63$; $R - 1 = 0.00693$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.52 plik_dx11dr2_HM_v18_TT: 762.93

7.2 base_mnu_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022299	0.02224 ± 0.00023	Ω_m	0.3045	$0.318^{+0.014}_{-0.021}$	$100\theta_*$	1.041147	1.04110 ± 0.00046
$\boldsymbol{\Omega_c h^2}$	0.11909	0.1192 ± 0.0021	$\Omega_m h^2$	0.14140	$0.1427^{+0.0021}_{-0.0024}$	D_A/Gpc	13.9009	13.900 ± 0.043
$\boldsymbol{100\theta_{MC}}$	1.040992	1.04088 ± 0.00048	$\Omega_\nu h^2$	0.00002	< 0.00148	z_{drag}	1059.704	1059.59 ± 0.47
$\boldsymbol{\tau}$	0.0797	0.081 ± 0.020	$\Omega_m h^3$	0.09636	$0.09570^{+0.00094}_{-0.00055}$	r_{drag}	147.419	147.43 ± 0.46
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.137	σ_8	0.8420	$0.819^{+0.030}_{-0.019}$	k_D	0.14046	0.14042 ± 0.00051
$\boldsymbol{\ln(10^{10} A_s)}$	3.0921	3.095 ± 0.039	$\sigma_8 \Omega_m^{0.5}$	0.4646	0.461 ± 0.013	$100\theta_D$	0.160898	0.16095 ± 0.00027
$\boldsymbol{n_s}$	0.9673	0.9666 ± 0.0060	$\sigma_8 \Omega_m^{0.25}$	0.6255	$0.615^{+0.018}_{-0.015}$	z_{eq}	3378.7	3381 ± 46
$\boldsymbol{y_{cal}}$	1.00028	1.0003 ± 0.0025	$\sigma_8 / h^{0.5}$	1.0200	$1.000^{+0.030}_{-0.023}$	k_{eq}	0.010312	0.01032 ± 0.00014
$\boldsymbol{A_{217}^{CIB}}$	66.8	63.7 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.4997	2.491 ± 0.046	$100\theta_{eq}$	0.8173	0.8169 ± 0.0088
$\boldsymbol{\xi^{tSZ \times CIB}}$	0.03	—	z_{re}	10.10	$10.2^{+2.0}_{-1.6}$	$100\theta_{s,eq}$	0.45153	0.4513 ± 0.0045
$\boldsymbol{A_{143}^{tSZ}}$	7.25	5.20 ± 1.9	$10^9 A_s$	2.202	2.211 ± 0.085	$r_{drag}/D_V(0.57)$	0.07196	$0.0713^{+0.0010}_{-0.00083}$
$\boldsymbol{A_{100}^{PS}}$	250.4	258 ± 28	$10^9 A_s e^{-2\tau}$	1.8777	1.877 ± 0.014	$H(0.57)$	93.30	$92.72^{+0.77}_{-0.53}$
$\boldsymbol{A_{143}^{PS}}$	38.0	44 ± 8	D_{40}	1233.7	1235 ± 15	$D_A(0.57)$	1380.0	1396^{+15}_{-22}
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	39^{+10}_{-10}	D_{220}	5719.9	5718 ± 41	$F_{AP}(0.57)$	0.67424	$0.6776^{+0.0036}_{-0.0051}$
$\boldsymbol{A_{217}^{PS}}$	97.3	98 ± 10	D_{810}	2533.3	2533 ± 14	$f\sigma_8(0.57)$	0.4866	$0.479^{+0.014}_{-0.011}$
$\boldsymbol{A^{kSZ}}$	0.02	< 4.55	D_{1420}	814.86	814.6 ± 5.0	$\sigma_8(0.57)$	0.6277	$0.608^{+0.025}_{-0.015}$
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.45 ± 1.9	D_{2000}	230.69	230.3 ± 1.9	f_{2000}^{143}	29.22	29.9 ± 3.0
$\boldsymbol{A_{143}^{dustTT}}$	9.01	9.02 ± 1.8	$n_{s,0.002}$	0.9673	0.9666 ± 0.0060	$f_{2000}^{143\times217}$	31.96	32.4 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.62	17.1 ± 4.1	Y_P	0.245362	0.24533 ± 0.00010	f_{2000}^{217}	105.66	106.0 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	Y_P^{BBN}	0.246688	0.24666 ± 0.00011	χ^2_{lowTEB}	10496.47	10497.5 ± 2.6
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00078	10^5D/H	2.6048	2.616 ± 0.044	χ^2_{plik}	763.0	777.7 ± 5.8
$\boldsymbol{c_{217}}$	0.99592	0.9959 ± 0.0015	Age/Gyr	13.770	$13.833^{+0.048}_{-0.082}$	χ^2_{JLA}	706.58	707.22 ± 0.93
H_0	68.15	$67.1^{+1.5}_{-1.1}$	z_*	1089.924	1090.02 ± 0.42	χ^2_{prior}	2.10	7.31 ± 3.5
Ω_Λ	0.6955	$0.682^{+0.021}_{-0.014}$	r_*	144.728	144.72 ± 0.46	χ^2_{CMB}	11259.5	11275.2 ± 5.7

Best-fit $\chi^2_{eff} = 11968.16$; $\bar{\chi}^2_{eff} = 11989.73$; $R - 1 = 0.01054$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.47 plik_dx11dr2_HM_v18_TT: 763.00 SN - JLA December_2013: 706.59

7.3 base_mnu_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022294	0.02225 ± 0.00023	Ω_m	0.3042	$0.317^{+0.014}_{-0.022}$	$100\theta_*$	1.041158	1.04112 ± 0.00047
$\boldsymbol{\Omega_c h^2}$	0.11905	0.1192 ± 0.0021	$\Omega_m h^2$	0.14135	$0.1427^{+0.0022}_{-0.0026}$	D_A/Gpc	13.9021	13.901 ± 0.045
$\boldsymbol{100\theta_{MC}}$	1.040995	1.04090 ± 0.00049	$\Omega_\nu h^2$	0.00001	< 0.00141	z_{drag}	1059.704	1059.61 ± 0.48
$\boldsymbol{\tau}$	0.0800	0.082 ± 0.020	$\Omega_m h^3$	0.09635	$0.09574^{+0.00094}_{-0.00053}$	r_{drag}	147.434	147.43 ± 0.48
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.131	σ_8	0.8422	$0.820^{+0.030}_{-0.019}$	k_D	0.14044	0.14042 ± 0.00052
$\boldsymbol{\ln(10^{10} A_s)}$	3.0924	3.096 ± 0.039	$\sigma_8 \Omega_m^{0.5}$	0.4646	0.461 ± 0.013	$100\theta_D$	0.160907	0.16094 ± 0.00027
$\boldsymbol{n_s}$	0.9676	0.9668 ± 0.0062	$\sigma_8 \Omega_m^{0.25}$	0.6255	$0.615^{+0.018}_{-0.015}$	z_{eq}	3377.6	3380 ± 48
$\boldsymbol{y_{cal}}$	1.00029	1.0003 ± 0.0025	$\sigma_8/h^{0.5}$	1.0201	$1.001^{+0.030}_{-0.023}$	k_{eq}	0.010309	0.01032 ± 0.00015
$\boldsymbol{A_{217}^{CIB}}$	66.4	63.7 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.4993	2.491 ± 0.047	$100\theta_{eq}$	0.8175	0.8171 ± 0.0092
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.10	—	z_{re}	10.13	$10.2^{+2.0}_{-1.6}$	$100\theta_{s,eq}$	0.45163	0.4515 ± 0.0047
$\boldsymbol{A_{143}^{tSZ}}$	7.11	5.21 ± 1.9	$10^9 A_s$	2.203	2.212 ± 0.085	$r_{drag}/D_V(0.57)$	0.07198	$0.0713^{+0.0011}_{-0.00084}$
$\boldsymbol{A_{100}^{PS}}$	252.5	257 ± 28	$10^9 A_s e^{-2\tau}$	1.8772	1.877 ± 0.014	$H(0.57)$	93.30	$92.76^{+0.80}_{-0.52}$
$\boldsymbol{A_{143}^{PS}}$	39.8	43 ± 8	D_{40}	1233.0	1235 ± 15	$D_A(0.57)$	1379.8	1395^{+15}_{-23}
$\boldsymbol{A_{143\times217}^{PS}}$	35.1	39^{+10}_{-10}	D_{220}	5717.9	5718 ± 41	$F_{AP}(0.57)$	0.67418	$0.6774^{+0.0037}_{-0.0054}$
$\boldsymbol{A_{217}^{PS}}$	98.0	98 ± 10	D_{810}	2533.1	2533 ± 14	$f\sigma_8(0.57)$	0.4866	$0.479^{+0.014}_{-0.011}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.53	D_{1420}	814.9	814.7 ± 5.0	$\sigma_8(0.57)$	0.6279	$0.609^{+0.025}_{-0.015}$
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.44 ± 1.9	D_{2000}	230.70	230.4 ± 1.9	f_{2000}^{143}	29.27	29.9 ± 3.0
$\boldsymbol{A_{143}^{dustTT}}$	9.09	9.02 ± 1.8	$n_{s,0.002}$	0.9676	0.9668 ± 0.0062	$f_{2000}^{143\times217}$	32.02	32.3 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.1 ± 4.1	Y_P	0.245359	0.24534 ± 0.00011	f_{2000}^{217}	105.57	106.0 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	Y_P^{BBN}	0.246686	0.24667 ± 0.00011	χ^2_{lowTEB}	10496.42	10497.5 ± 2.6
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00078	10^5D/H	2.6056	2.614 ± 0.045	χ^2_{plik}	763.1	777.7 ± 5.8
$\boldsymbol{c_{217}}$	0.99588	0.9959 ± 0.0015	Age/Gyr	13.770	$13.829^{+0.047}_{-0.085}$	χ^2_{H070p6}	0.54	1.26 ± 1.0
H_0	68.16	$67.1^{+1.6}_{-1.1}$	z_*	1089.926	1090.00 ± 0.43	χ^2_{prior}	2.01	7.31 ± 3.5
Ω_Λ	0.6958	$0.683^{+0.022}_{-0.014}$	r_*	144.742	144.72 ± 0.48	χ^2_{CMB}	11259.6	11275.2 ± 5.7

Best-fit $\chi^2_{eff} = 11262.11$; $\bar{\chi}^2_{eff} = 11283.80$; $R - 1 = 0.01188$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.42 plik_dx11dr2_HM_v18_TT: 763.15 Hubble - H070p6: 0.54

7.4 base_mnu_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02214 ± 0.00027	Ω_m	$0.339^{+0.016}_{-0.044}$	$100\theta_*$	1.04097 ± 0.00049
$\boldsymbol{\Omega_c h^2}$	0.1202 ± 0.0024	$\Omega_m h^2$	$0.1449^{+0.0025}_{-0.0044}$	D_A/Gpc	13.881 ± 0.049
$\boldsymbol{100\theta_{MC}}$	1.04068 ± 0.00054	$\Omega_\nu h^2$	< 0.00289	z_{drag}	1059.44 ± 0.51
$\boldsymbol{\tau}$	0.082 ± 0.019	$\Omega_m h^3$	$0.0949^{+0.0019}_{-0.00071}$	r_{drag}	147.24 ± 0.52
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.269	σ_8	$0.796^{+0.057}_{-0.023}$	k_D	0.14056 ± 0.00054
$\boldsymbol{\ln(10^{10} A_s)}$	3.098 ± 0.036	$\sigma_8\Omega_m^{0.5}$	0.462 ± 0.014	$100\theta_D$	0.16101 ± 0.00028
$\boldsymbol{n_s}$	$0.9638^{+0.0075}_{-0.0068}$	$\sigma_8\Omega_m^{0.25}$	$0.606^{+0.029}_{-0.016}$	z_{eq}	3402 ± 53
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$\sigma_8/h^{0.5}$	$0.983^{+0.051}_{-0.025}$	k_{eq}	0.01039 ± 0.00016
$\boldsymbol{A_{217}^{CIB}}$	64.2 ± 6.7	$\langle d^2\rangle^{1/2}$	2.501 ± 0.046	$100\theta_{eq}$	0.8130 ± 0.0098
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	z_{re}	10.3 ± 1.7	$100\theta_{s,eq}$	0.4494 ± 0.0050
$\boldsymbol{A_{143}^{tSZ}}$	5.06 ± 1.9	$10^9 A_s$	$2.216^{+0.076}_{-0.091}$	$r_{drag}/D_V(0.57)$	$0.0703^{+0.0020}_{-0.00099}$
$\boldsymbol{A_{100}^{PS}}$	260 ± 28	$10^9 A_s e^{-2\tau}$	1.881 ± 0.014	$H(0.57)$	$92.0^{+1.5}_{-0.68}$
$\boldsymbol{A_{143}^{PS}}$	45 ± 8	D_{40}	1238 ± 15	$D_A(0.57)$	1417^{+18}_{-46}
$\boldsymbol{A_{143\times217}^{PS}}$	40^{+10}_{-10}	D_{220}	5715 ± 41	$F_{AP}(0.57)$	$0.6827^{+0.0043}_{-0.011}$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10	D_{810}	2534 ± 14	$f\sigma_8(0.57)$	$0.471^{+0.024}_{-0.011}$
$\boldsymbol{A^{kSZ}}$	< 4.80	D_{1420}	814.2 ± 5.1	$\sigma_8(0.57)$	$0.588^{+0.049}_{-0.019}$
$\boldsymbol{A_{100}^{dustTT}}$	7.44 ± 1.9	D_{2000}	229.8 ± 2.0	f_{2000}^{143}	30.6 ± 3.1
$\boldsymbol{A_{143}^{dustTT}}$	9.03 ± 1.8	$n_{s,0.002}$	$0.9638^{+0.0075}_{-0.0068}$	$f_{2000}^{143\times217}$	33.0 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.1	Y_P	0.24529 ± 0.00012	f_{2000}^{217}	106.5 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.4	Y_P^{BBN}	0.24661 ± 0.00012	χ^2_{lowTEB}	10497.8 ± 2.6
$\boldsymbol{c_{100}}$	0.99787 ± 0.00078	10^5D/H	$2.636^{+0.048}_{-0.056}$	χ^2_{plik}	778.4 ± 5.9
$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	Age/Gyr	$13.912^{+0.064}_{-0.17}$	χ^2_{prior}	7.38 ± 3.6
H_0	$65.6^{+3.1}_{-1.4}$	z_*	$1090.28^{+0.48}_{-0.59}$	χ^2_{CMB}	11276.1 ± 5.9
Ω_Λ	$0.661^{+0.044}_{-0.016}$	r_*	144.50 ± 0.54		

$\bar{\chi}^2_{eff} = 11283.53$; $R - 1 = 0.00979$

7.5 base_mnu_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022256	0.02222 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.084	10^5D/H	2.6129	2.620 ± 0.032
$\boldsymbol{\Omega_c h^2}$	0.11979	0.1200 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.156 ± 0.054	Age/Gyr	13.784	$13.868^{+0.040}_{-0.11}$
$\boldsymbol{100\theta_{MC}}$	1.040772	1.04068 ± 0.00034	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.340	0.340 ± 0.081	z_*	1090.041	$1090.13^{+0.31}_{-0.35}$
$\boldsymbol{\tau}$	0.0769	0.083 ± 0.018	$\boldsymbol{A^{dustTE}_{217}}$	1.672	1.67 ± 0.26	r_*	144.579	144.53 ± 0.33
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.002	< 0.188	$\boldsymbol{c_{100}}$	0.99821	0.99817 ± 0.00078	$100\theta_*$	1.040941	1.04093 ± 0.00032
$\boldsymbol{\ln(10^{10}A_s)}$	3.0891	3.100 ± 0.034	$\boldsymbol{c_{217}}$	0.99590	0.9960 ± 0.0015	D_A/Gpc	13.8893	13.885 ± 0.031
$\boldsymbol{n_s}$	0.96507	0.9639 ± 0.0050	H_0	67.79	$66.3^{+2.0}_{-0.89}$	z_{drag}	1059.666	1059.60 ± 0.32
$\boldsymbol{y_{cal}}$	1.00033	1.0005 ± 0.0025	Ω_Λ	0.6909	$0.672^{+0.026}_{-0.011}$	r_{drag}	147.280	147.24 ± 0.32
$\boldsymbol{A^{CIB}_{217}}$	65.1	64.0 ± 6.6	Ω_m	0.3091	$0.328^{+0.011}_{-0.026}$	k_D	0.140574	0.14060 ± 0.00034
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.27	—	$\Omega_m h^2$	0.14207	$0.1440^{+0.0016}_{-0.0027}$	$100\theta_D$	0.160903	0.16092 ± 0.00018
$\boldsymbol{A^{tSZ}_{143}}$	7.03	5.34 ± 1.9	$\Omega_\nu h^2$	0.00002	< 0.00202	z_{eq}	3394.5	3398 ± 33
$\boldsymbol{A^{PS}_{100}}$	254.2	261 ± 28	$\Omega_m h^3$	0.09631	$0.0954^{+0.0012}_{-0.00042}$	k_{eq}	0.010360	0.01037 ± 0.00010
$\boldsymbol{A^{PS}_{143}}$	42.7	44 ± 8	σ_8	0.8424	$0.812^{+0.039}_{-0.017}$	$100\theta_{eq}$	0.8142	0.8136 ± 0.0063
$\boldsymbol{A^{PS}_{143\times217}}$	40.7	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4684	0.464 ± 0.011	$100\theta_{s,eq}$	0.44993	0.4497 ± 0.0032
$\boldsymbol{A^{PS}_{217}}$	100.9	98 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6282	$0.614^{+0.021}_{-0.012}$	$r_{drag}/D_V(0.57)$	0.07169	$0.0708^{+0.0013}_{-0.00064}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.22	$\sigma_8/h^{0.5}$	1.0232	$0.997^{+0.036}_{-0.019}$	$H(0.57)$	93.14	$92.37^{+0.99}_{-0.43}$
$\boldsymbol{A^{dustTT}_{100}}$	7.39	7.45 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5085	2.506 ± 0.040	$D_A(0.57)$	1384.8	1406^{+12}_{-28}
$\boldsymbol{A^{dustTT}_{143}}$	8.96	8.93 ± 1.8	z_{re}	9.87	$10.4^{+1.7}_{-1.5}$	$F_{AP}(0.57)$	0.67543	$0.6802^{+0.0029}_{-0.0064}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.80	17.1 ± 4.1	$10^9 A_s$	2.196	2.222 ± 0.076	$f\sigma_8(0.57)$	0.4881	$0.477^{+0.016}_{-0.0088}$
$\boldsymbol{A^{dustTT}_{217}}$	82.2	81.7 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8826	1.883 ± 0.012	$\sigma_8(0.57)$	0.6268	$0.601^{+0.033}_{-0.014}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0811 ± 0.0057	D_{40}	1239.0	1242 ± 13	f^{143}_{2000}	29.02	29.8 ± 2.8
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04873	0.0487 ± 0.0050	D_{220}	5726.1	5730 ± 39	$f^{143\times217}_{2000}$	32.02	32.4 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0994	0.0997 ± 0.033	D_{810}	2535.9	2536 ± 14	f^{217}_{2000}	105.55	106.1 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1001	0.1001 ± 0.0069	D_{1420}	814.91	814.8 ± 4.8	χ^2_{lowTEB}	10496.79	10498.1 ± 2.4
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2232	0.224 ± 0.047	D_{2000}	230.59	230.3 ± 1.7	χ^2_{plik}	2431.5	2451.5 ± 7.0
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	$n_{s,0.002}$	0.96507	0.9639 ± 0.0050	χ^2_{prior}	6.71	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1397	0.141 ± 0.038	Y_P	0.245342	$0.245323^{+0.000083}_{-0.000073}$	χ^2_{CMB}	12928.3	12949.6 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1314	0.132 ± 0.029	Y_P^{BBN}	0.246669	$0.246649^{+0.000084}_{-0.000074}$			

Best-fit $\chi^2_{eff} = 12935.02$; $\bar{\chi}^2_{eff} = 12968.87$; $R - 1 = 0.00787$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.79 plik_dx11dr2_HM_v18_TTTEEE: 2431.52

7.6 base_mnu_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022275	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.303 ± 0.084	10^5D/H	2.6092	2.612 ± 0.030
$\boldsymbol{\Omega_c h^2}$	0.11960	0.1196 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	Age/Gyr	13.780	$13.831^{+0.034}_{-0.067}$
$\boldsymbol{100\theta_{MC}}$	1.040828	1.04075 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.339 ± 0.081	z_*	1090.001	1090.03 ± 0.29
$\boldsymbol{\tau}$	0.0789	0.082 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.669	1.67 ± 0.25	r_*	144.614	144.62 ± 0.31
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.125	$\boldsymbol{c_{100}}$	0.99820	0.99817 ± 0.00078	$100\theta_*$	1.040989	1.04097 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0921	3.099 ± 0.034	$\boldsymbol{c_{217}}$	0.99592	0.9960 ± 0.0014	D_A/Gpc	13.8920	13.893 ± 0.029
$\boldsymbol{n_s}$	0.96532	0.9651 ± 0.0047	H_0	67.89	$67.0^{+1.2}_{-0.79}$	z_{drag}	1059.666	1059.65 ± 0.31
$\boldsymbol{y_{cal}}$	1.00013	1.0005 ± 0.0025	Ω_Λ	0.6922	$0.681^{+0.016}_{-0.010}$	r_{drag}	147.312	147.32 ± 0.31
$\boldsymbol{A^{CIB}_{217}}$	66.0	63.8 ± 6.6	Ω_m	0.3078	$0.319^{+0.010}_{-0.016}$	k_D	0.140560	0.14054 ± 0.00033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.15	—	$\Omega_m h^2$	0.14188	$0.1430^{+0.0015}_{-0.0019}$	$100\theta_D$	0.160889	0.16090 ± 0.00018
$\boldsymbol{A^{tSZ}_{143}}$	7.18	5.39 ± 1.9	$\Omega_\nu h^2$	0.00001	< 0.00135	z_{eq}	3390.4	3390 ± 32
$\boldsymbol{A^{PS}_{100}}$	254.1	260 ± 28	$\Omega_m h^3$	0.09633	$0.09579^{+0.00074}_{-0.00038}$	k_{eq}	0.010348	0.010346 ± 0.000097
$\boldsymbol{A^{PS}_{143}}$	40.1	43 ± 8	σ_8	0.8432	$0.824^{+0.026}_{-0.016}$	$100\theta_{eq}$	0.8150	0.8152 ± 0.0060
$\boldsymbol{A^{PS}_{143\times217}}$	36.6	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4678	0.465 ± 0.010	$100\theta_{s,eq}$	0.45035	0.4505 ± 0.0031
$\boldsymbol{A^{PS}_{217}}$	99.0	98 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6281	$0.619^{+0.015}_{-0.012}$	$r_{drag}/D_V(0.57)$	0.07176	$0.07122^{+0.00082}_{-0.00058}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.09	$\sigma_8/h^{0.5}$	1.0233	$1.006^{+0.025}_{-0.019}$	$H(0.57)$	93.19	$92.72^{+0.63}_{-0.37}$
$\boldsymbol{A^{dustTT}_{100}}$	7.38	7.43 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5097	2.504 ± 0.040	$D_A(0.57)$	1383.4	1396^{+11}_{-18}
$\boldsymbol{A^{dustTT}_{143}}$	8.93	8.90 ± 1.8	z_{re}	10.04	$10.3^{+1.7}_{-1.4}$	$F_{AP}(0.57)$	0.67509	$0.6778^{+0.0026}_{-0.0040}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.53	17.0 ± 4.1	$10^9 A_s$	2.202	2.219 ± 0.074	$f\sigma_8(0.57)$	0.4881	$0.481^{+0.011}_{-0.0088}$
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.7 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8808	1.881 ± 0.012	$\sigma_8(0.57)$	0.6277	$0.611^{+0.021}_{-0.012}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0811	0.0811 ± 0.0057	D_{40}	1238.9	1241 ± 13	f^{143}_{2000}	29.04	29.5 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04879	0.0488 ± 0.0050	D_{220}	5725.9	5731 ± 39	$f^{143\times217}_{2000}$	31.96	32.2 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0986	0.100 ± 0.033	D_{810}	2534.3	2536 ± 14	f^{217}_{2000}	105.56	105.8 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.0999	0.1003 ± 0.0068	D_{1420}	814.46	815.0 ± 4.8	χ^2_{lowTEB}	10496.97	10497.9 ± 2.4
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2233	0.223 ± 0.047	D_{2000}	230.51	230.5 ± 1.6	χ^2_{plik}	2431.2	2450.9 ± 6.9
$\boldsymbol{A^{dustEE}_{217}}$	0.648	0.65 ± 0.13	$n_{s,0.002}$	0.96532	0.9651 ± 0.0047	χ^2_{JLA}	706.653	707.16 ± 0.74
$\boldsymbol{A^{dustTE}_{100}}$	0.1419	0.142 ± 0.038	Y_P	0.245351	0.245342 ± 0.000071	χ^2_{prior}	6.85	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1320	0.132 ± 0.029	Y_P^{BBN}	0.246677	0.246669 ± 0.000071	χ^2_{CMB}	12928.2	12948.8 ± 6.7

Best-fit $\chi^2_{eff} = 13641.67$; $\bar{\chi}^2_{eff} = 13675.28$; $R - 1 = 0.00899$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.97 plik_dx11dr2_HM_v18_TTTEEE: 2431.20 SN - JLA December_2013: 706.65

7.7 base_mnu_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022299	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.303 ± 0.084	10^5D/H	2.6047	2.611 ± 0.030
$\boldsymbol{\Omega_c h^2}$	0.11940	0.1196 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	Age/Gyr	13.776	$13.829^{+0.033}_{-0.068}$
$\boldsymbol{100\theta_{MC}}$	1.040849	1.04076 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.339 ± 0.081	z_*	1089.953	1090.02 ± 0.30
$\boldsymbol{\tau}$	0.0807	0.082 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.662	1.67 ± 0.25	r_*	144.648	144.62 ± 0.32
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.000	< 0.121	$\boldsymbol{c_{100}}$	0.99819	0.99817 ± 0.00078	$100\theta_*$	1.041003	1.04098 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0954	3.099 ± 0.034	$\boldsymbol{c_{217}}$	0.99587	0.9960 ± 0.0014	D_A/Gpc	13.8951	13.893 ± 0.030
$\boldsymbol{n_s}$	0.96636	0.9651 ± 0.0048	H_0	67.99	$67.0^{+1.3}_{-0.79}$	z_{drag}	1059.742	1059.66 ± 0.31
$\boldsymbol{y_{cal}}$	1.00022	1.0005 ± 0.0025	Ω_Λ	0.6935	$0.682^{+0.017}_{-0.010}$	r_{drag}	147.336	147.32 ± 0.31
$\boldsymbol{A^{CIB}_{217}}$	65.3	63.8 ± 6.6	Ω_m	0.3065	$0.318^{+0.010}_{-0.017}$	k_D	0.140549	0.14055 ± 0.00033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.20	—	$\Omega_m h^2$	0.14170	$0.1429^{+0.0015}_{-0.0019}$	$100\theta_D$	0.160865	0.16090 ± 0.00018
$\boldsymbol{A^{tSZ}_{143}}$	7.16	5.40 ± 1.9	$\Omega_\nu h^2$	0.00000	< 0.00130	z_{eq}	3386.1	3389 ± 32
$\boldsymbol{A^{PS}_{100}}$	252.0	260 ± 28	$\Omega_m h^3$	0.09634	$0.09582^{+0.00073}_{-0.00037}$	k_{eq}	0.010334	0.010345 ± 0.000099
$\boldsymbol{A^{PS}_{143}}$	40.2	43 ± 8	σ_8	0.8441	$0.824^{+0.026}_{-0.016}$	$100\theta_{eq}$	0.8159	0.8153 ± 0.0062
$\boldsymbol{A^{PS}_{143\times217}}$	37.6	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4673	0.465 ± 0.010	$100\theta_{s,eq}$	0.45078	0.4505 ± 0.0031
$\boldsymbol{A^{PS}_{217}}$	99.7	98 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6281	$0.619^{+0.015}_{-0.012}$	$r_{drag}/D_V(0.57)$	0.07183	$0.07124^{+0.00085}_{-0.00058}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.08	$\sigma_8/h^{0.5}$	1.0237	$1.006^{+0.025}_{-0.019}$	$H(0.57)$	93.23	$92.74^{+0.64}_{-0.36}$
$\boldsymbol{A^{dustTT}_{100}}$	7.43	7.43 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5093	2.504 ± 0.040	$D_A(0.57)$	1382.0	1396^{+11}_{-18}
$\boldsymbol{A^{dustTT}_{143}}$	8.90	8.90 ± 1.8	z_{re}	10.19	$10.3^{+1.7}_{-1.4}$	$F_{AP}(0.57)$	0.67477	$0.6777^{+0.0026}_{-0.0041}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.52	17.0 ± 4.1	$10^9 A_s$	2.210	2.219 ± 0.074	$f\sigma_8(0.57)$	0.4883	$0.482^{+0.011}_{-0.0087}$
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.7 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8802	1.881 ± 0.012	$\sigma_8(0.57)$	0.6287	$0.612^{+0.021}_{-0.012}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0811 ± 0.0057	D_{40}	1237.3	1241 ± 13	f^{143}_{2000}	28.60	29.4 ± 2.8
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04881	0.0488 ± 0.0050	D_{220}	5725.3	5731 ± 39	$f^{143\times217}_{2000}$	31.60	32.2 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0990	0.100 ± 0.033	D_{810}	2534.8	2536 ± 14	f^{217}_{2000}	105.27	105.8 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1005	0.1003 ± 0.0068	D_{1420}	815.03	815.0 ± 4.8	χ^2_{lowTEB}	10496.91	10497.9 ± 2.4
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2223	0.223 ± 0.047	D_{2000}	230.77	230.5 ± 1.6	χ^2_{plik}	2431.2	2450.9 ± 6.9
$\boldsymbol{A^{dustEE}_{217}}$	0.650	0.65 ± 0.13	$n_{s,0.002}$	0.96636	0.9651 ± 0.0048	χ^2_{H070p6}	0.62	1.24 ± 0.81
$\boldsymbol{A^{dustTE}_{100}}$	0.1414	0.142 ± 0.038	Y_P	0.245362	0.245344 ± 0.000072	χ^2_{prior}	6.94	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1320	0.132 ± 0.029	Y_P^{BBN}	0.246688	0.246671 ± 0.000072	χ^2_{CMB}	12928.1	12948.8 ± 6.7

Best-fit $\chi^2_{eff} = 12935.66$; $\bar{\chi}^2_{eff} = 12969.37$; $R - 1 = 0.00898$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.91 plik_dx11dr2_HM_v18_TTTEEE: 2431.20 Hubble - H070p6: 0.62

7.8 base_mnu_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02222 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304 ± 0.084	10^5D/H	$2.620^{+0.030}_{-0.034}$
$\boldsymbol{\Omega_c h^2}$	0.1200 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.155 ± 0.054	Age/Gyr	$13.869^{+0.041}_{-0.11}$
$\boldsymbol{100\theta_{MC}}$	1.04068 ± 0.00034	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.340 ± 0.081	z_*	$1090.13^{+0.30}_{-0.35}$
$\boldsymbol{\tau}$	0.083 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.68 ± 0.25	r_*	144.53 ± 0.33
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.189	$\boldsymbol{c_{100}}$	0.99817 ± 0.00078	$100\theta_*$	1.04093 ± 0.00032
$\boldsymbol{\ln(10^{10}A_s)}$	3.102 ± 0.033	$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	D_A/Gpc	13.885 ± 0.031
$\boldsymbol{n_s}$	0.9640 ± 0.0049	H_0	$66.3^{+2.0}_{-0.90}$	z_{drag}	1059.60 ± 0.32
$\boldsymbol{y_{cal}}$	1.0005 ± 0.0025	Ω_Λ	$0.672^{+0.026}_{-0.011}$	r_{drag}	147.24 ± 0.32
$\boldsymbol{A^{CIB}_{217}}$	64.0 ± 6.6	Ω_m	$0.328^{+0.011}_{-0.026}$	k_D	0.14060 ± 0.00034
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$\Omega_m h^2$	$0.1440^{+0.0016}_{-0.0028}$	$100\theta_D$	0.16092 ± 0.00018
$\boldsymbol{A^{tSZ}_{143}}$	5.34 ± 1.9	$\Omega_\nu h^2$	< 0.00204	z_{eq}	3398 ± 33
$\boldsymbol{A^{PS}_{100}}$	261 ± 28	$\Omega_m h^3$	$0.0954^{+0.0012}_{-0.00043}$	k_{eq}	0.01037 ± 0.00010
$\boldsymbol{A^{PS}_{143}}$	44 ± 8	σ_8	$0.812^{+0.039}_{-0.017}$	$100\theta_{eq}$	0.8137 ± 0.0063
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.465 ± 0.011	$100\theta_{s,eq}$	0.4497 ± 0.0032
$\boldsymbol{A^{PS}_{217}}$	98 ± 10	$\sigma_8\Omega_m^{0.25}$	$0.614^{+0.020}_{-0.012}$	$r_{drag}/D_V(0.57)$	$0.0708^{+0.0013}_{-0.00065}$
$\boldsymbol{A^{kSZ}}$	< 4.24	$\sigma_8/h^{0.5}$	$0.997^{+0.036}_{-0.019}$	$H(0.57)$	$92.37^{+0.99}_{-0.43}$
$\boldsymbol{A^{dustTT}_{100}}$	7.44 ± 1.9	$\langle d^2\rangle^{1/2}$	2.507 ± 0.039	$D_A(0.57)$	1406^{+12}_{-28}
$\boldsymbol{A^{dustTT}_{143}}$	8.92 ± 1.8	z_{re}	10.4 ± 1.5	$F_{AP}(0.57)$	$0.6802^{+0.0029}_{-0.0064}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.0 ± 4.1	10^9A_s	2.224 ± 0.073	$f\sigma_8(0.57)$	$0.477^{+0.016}_{-0.0086}$
$\boldsymbol{A^{dustTT}_{217}}$	81.7 ± 7.4	$10^9A_se^{-2\tau}$	1.883 ± 0.012	$\sigma_8(0.57)$	$0.601^{+0.033}_{-0.013}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0811 ± 0.0057	D_{40}	1242 ± 13	f^{143}_{2000}	29.7 ± 2.8
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0487 ± 0.0050	D_{220}	5730 ± 39	$f^{143\times217}_{2000}$	32.4 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0998 ± 0.033	D_{810}	2536 ± 14	f^{217}_{2000}	106.1 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1001 ± 0.0068	D_{1420}	814.8 ± 4.8	χ^2_{lowTEB}	10498.1 ± 2.4
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.223 ± 0.047	D_{2000}	230.3 ± 1.7	χ^2_{plik}	2451.4 ± 7.0
$\boldsymbol{A^{dustEE}_{217}}$	0.65 ± 0.13	$n_{s,0.002}$	0.9640 ± 0.0049	χ^2_{prior}	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.141 ± 0.038	Y_P	$0.245324^{+0.000083}_{-0.000072}$	χ^2_{CMB}	12949.5 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.132 ± 0.029	Y_P^{BBN}	$0.246650^{+0.000084}_{-0.000073}$		

$\bar{\chi}^2_{eff} = 12968.81$; $R - 1 = 0.00798$

7.9 base_mnu_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022277	0.02215 ± 0.00026 $(+0.1\sigma)$	H_0	68.10	$65.8^{+3.0}_{-1.3}$ $(+0.1\sigma)$	$100\theta_*$	1.041173	1.04104 ± 0.00048 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11918	0.1200 ± 0.0023 (-0.1σ)	Ω_Λ	0.6950	$0.664^{+0.041}_{-0.016}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.628	1059.43 ± 0.50 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04100	1.04075 ± 0.00052 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3050	$0.336^{+0.016}_{-0.041}$ (-0.1σ)	$r_{\rm drag}$	147.42	147.30 ± 0.51 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0770	0.080 ± 0.020 (-0.0σ)	$\Omega_{\rm m}h^2$	0.14146	$0.1446^{+0.0024}_{-0.0042}$ (-0.1σ)	$k_{\rm D}$	0.14046	0.14052 ± 0.00054 (-0.1σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.000	< 0.257 (-0.0σ)	$\Omega_\nu h^2$	0.00000	< 0.00276 (-0.0σ)	$100\theta_{\rm D}$	0.160909	0.16100 ± 0.00028 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0844	3.092 ± 0.038 (-0.1σ)	$\Omega_{\rm m}h^3$	0.09634	$0.0950^{+0.0018}_{-0.00066}$ $(+0.0\sigma)$	$z_{\rm eq}$	3380	3396 ± 51 (-0.1σ)
$\boldsymbol{n_s}$	0.9682	0.9660 ± 0.0067 $(+0.3\sigma)$	σ_8	0.8397	$0.796^{+0.055}_{-0.022}$ $(+0.0\sigma)$	$100\theta_{\rm eq}$	0.8170	0.8140 ± 0.0096 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.00019	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4637	0.460 ± 0.014 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07194	$0.0704^{+0.0019}_{-0.00097}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	246.5	248 ± 23 (-0.4σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6240	$0.605^{+0.028}_{-0.016}$ (-0.0σ)	$H(0.57)$	93.27	$92.1^{+1.5}_{-0.65}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{143}}$	35.1	40 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0175	$0.982^{+0.049}_{-0.024}$ (-0.0σ)	$D_{\rm A}(0.57)$	1380.6	1415^{+18}_{-43} (-0.1σ)
$\boldsymbol{A^{PS}_{217}}$	97.1	98 ± 10 $(+0.0\sigma)$	$\langle d^2\rangle^{1/2}$	2.4891	2.487 ± 0.047 (-0.2σ)	$F_{\rm AP}(0.57)$	0.6744	$0.6820^{+0.0042}_{-0.0099}$ (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	47.2	47 ± 7 (-2.7σ)	$z_{\rm re}$	9.86	$10.2^{+2.0}_{-1.6}$ (-0.0σ)	$f\sigma_8(0.57)$	0.4854	$0.470^{+0.023}_{-0.011}$ (-0.0σ)
$\boldsymbol{A^{tSZ}_{143}}$	3.59	$3.14^{+1.3}_{-2.5}$ (-1.0σ)	$10^9A_{\rm s}$	2.185	2.204 ± 0.084 (-0.1σ)	$\sigma_8(0.57)$	0.6258	$0.588^{+0.047}_{-0.018}$ $(+0.0\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.429	$0.51^{+0.10}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8735	1.876 ± 0.014 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.246262	0.24620 ± 0.00011 (-3.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.002	< 0.590 (-0.2σ)	D_{40}	1227.1	1229 ± 15 (-0.5σ)	f^{143}_{2000}	28.78	29.5 ± 3.1 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	4.42	$5.48^{+4.1}_{-1.8}$ $(+0.7\sigma)$	D_{220}	5698.6	5695 ± 41 (-0.5σ)	f^{217}_{2000}	106.40	106.9 ± 2.2 $(+0.2\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.984	0.99 ± 0.19	D_{810}	2528.9	2531 ± 14 (-0.3σ)	$f^{143\times217}_{2000}$	31.50	32.3 ± 2.3 (-0.3σ)
$\boldsymbol{A^{dust}_{143}}$	1.020	1.02 ± 0.18	D_{1420}	814.0	814.1 ± 5.1 (-0.0σ)	$\chi^2_{\rm lowTEB}$	10495.71	10496.9 ± 2.4 (-0.3σ)
$\boldsymbol{A^{dust}_{217}}$	1.222	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9682	0.9660 ± 0.0067 $(+0.3\sigma)$	$\chi^2_{\rm CamSpec}$	8044.9	8060.9 ± 6.1
$\boldsymbol{A^{dust}_{143\times217}}$	0.964	0.98 ± 0.18	$Y_{\rm P}$	0.244931	0.24488 ± 0.00011 (-3.3σ)	$\chi^2_{\rm prior}$	3.51	8.42 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99670	0.99679 ± 0.00097 (-1.4σ)	Age/Gyr	13.772	$13.903^{+0.061}_{-0.16}$ (-0.1σ)	$\chi^2_{\rm CMB}$	18540.6	18557.8 ± 6.1 $(+1236.6\sigma)$
$\boldsymbol{c_{217}}$	0.99738	0.9973 ± 0.0018 $(+1.0\sigma)$	z_*	1089.94	$1090.22^{+0.46}_{-0.56}$ (-0.1σ)			
$\boldsymbol{\beta^1_1}$	-0.19	-0.1 ± 1.0	r_*	144.72	144.56 ± 0.52 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18544.08$; $\Delta\chi^2_{\rm eff} = 7282.54$; $\bar{\chi}^2_{\rm eff} = 18566.20$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.56$; $R - 1 = 0.01055$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.72 (Δ -0.81) CamSpec like_v9.10CMH_unified: 8044.86

7.10 base_mnu_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02225 \pm 0.00023 \quad (+0.0\sigma)$	H_0	$67.1^{+1.5}_{-1.1} \quad (+0.0\sigma)$	$100\theta_*$	$1.04117 \pm 0.00045 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1191 \pm 0.0020 \quad (-0.1\sigma)$	Ω_Λ	$0.683^{+0.020}_{-0.013} \quad (+0.1\sigma)$	$z_{\rm drag}$	$1059.57 \pm 0.47 \quad (-0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04093 \pm 0.00047 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.317^{+0.013}_{-0.020} \quad (-0.1\sigma)$	$r_{\rm drag}$	$147.47 \pm 0.46 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.081 \pm 0.020 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1426^{+0.0020}_{-0.0024} \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14039 \pm 0.00051 \quad (-0.0\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.142 \quad (+0.0\sigma)$	$\Omega_\nu h^2$	$< 0.00153 \quad (+0.0\sigma)$	$100\theta_{\rm D}$	$0.16095 \pm 0.00027 \quad (-0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.092 \pm 0.038 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.09569^{+0.00093}_{-0.00056} \quad (-0.0\sigma)$	$z_{\rm eq}$	$3377 \pm 45 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9686 \pm 0.0059 \quad (+0.3\sigma)$	σ_8	$0.817^{+0.030}_{-0.019} \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8176 \pm 0.0086 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0004 \pm 0.0025 \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.460 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0713^{+0.0010}_{-0.00079} \quad (+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$246 \pm 23 \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.613^{+0.018}_{-0.015} \quad (-0.1\sigma)$	$H(0.57)$	$92.75^{+0.76}_{-0.49} \quad (+0.0\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$39 \pm 8 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.998^{+0.030}_{-0.023} \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1395^{+14}_{-22} \quad (-0.0\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$98 \pm 10 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.481 \pm 0.046 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6773^{+0.0034}_{-0.0050} \quad (-0.1\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$46 \pm 7 \quad (-2.7\sigma)$	$z_{\rm re}$	$10.2^{+1.9}_{-1.6} \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.477^{+0.013}_{-0.011} \quad (-0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.22^{+1.5}_{-2.5} \quad (-1.0\sigma)$	$10^9 A_{\rm s}$	$2.203 \pm 0.083 \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.607^{+0.025}_{-0.015} \quad (-0.0\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	$1.873 \pm 0.013 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246248 \pm 0.000098 \quad (-3.9\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.581 \quad (-0.2\sigma)$	D_{40}	$1228 \pm 14 \quad (-0.5\sigma)$	f^{143}_{2000}	$28.9 \pm 2.9 \quad (-0.4\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.33^{+3.8}_{-2.3} \quad (+0.7\sigma)$	D_{220}	$5698 \pm 41 \quad (-0.5\sigma)$	f^{217}_{2000}	$106.4 \pm 2.0 \quad (+0.2\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	$2530 \pm 14 \quad (-0.2\sigma)$	$f^{143\times217}_{2000}$	$31.7 \pm 2.2 \quad (-0.3\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	D_{1420}	$814.5 \pm 5.1 \quad (-0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.7 \pm 2.4 \quad (-0.3\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.11	$n_{\rm s,0.002}$	$0.9686 \pm 0.0059 \quad (+0.3\sigma)$	$\chi^2_{\rm CamSpec}$	8060.1 ± 6.0
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244921^{+0.000091}_{-0.00010} \quad (-3.9\sigma)$	$\chi^2_{\rm JLA}$	$707.17 \pm 0.90 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00097 \quad (-1.4\sigma)$	Age/Gyr	$13.831^{+0.046}_{-0.081} \quad (-0.0\sigma)$	$\chi^2_{\rm prior}$	$8.39 \pm 3.4 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0017 \quad (+1.0\sigma)$	z_*	$1089.99 \pm 0.41 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18556.8 \pm 5.9 \quad (+1287.6\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_*	$144.76 \pm 0.46 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 19272.40$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.67$; $R - 1 = 0.01238$

7.11 base_mnu_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02226 ± 0.00023 $(+0.0\sigma)$	H_0	$67.2^{+1.6}_{-1.1}$ $(+0.1\sigma)$	$100\theta_*$	1.04119 ± 0.00046 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1190 ± 0.0021 (-0.1σ)	Ω_Λ	$0.684^{+0.021}_{-0.013}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.59 ± 0.47 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04095 ± 0.00048 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.316^{+0.013}_{-0.021}$ (-0.1σ)	$r_{\rm drag}$	147.47 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.081 ± 0.020 (-0.0σ)	$\Omega_{\rm m} h^2$	$0.1425^{+0.0021}_{-0.0026}$ (-0.1σ)	$k_{\rm D}$	0.14040 ± 0.00052 (-0.1σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.134 $(+0.0\sigma)$	$\Omega_\nu h^2$	< 0.00144 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.16093 ± 0.00027 (-0.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.092 ± 0.038 (-0.1σ)	$\Omega_{\rm m} h^3$	$0.09573^{+0.00093}_{-0.00054}$ (-0.0σ)	$z_{\rm eq}$	3376 ± 47 (-0.1σ)
$\boldsymbol{n_s}$	0.9688 ± 0.0061 $(+0.3\sigma)$	σ_8	$0.818^{+0.030}_{-0.019}$ (-0.1σ)	$100\theta_{\rm eq}$	0.8179 ± 0.0090 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025 $(+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.460 ± 0.013 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0714^{+0.0011}_{-0.00081}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	246 ± 23 (-0.4σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.613^{+0.018}_{-0.015}$ (-0.1σ)	$H(0.57)$	$92.78^{+0.78}_{-0.50}$ $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{143}}$	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	$0.998^{+0.030}_{-0.023}$ (-0.1σ)	$D_{\rm A}(0.57)$	1394^{+14}_{-22} (-0.0σ)
$\boldsymbol{A^{PS}_{217}}$	98 ± 10 $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.481 ± 0.046 (-0.2σ)	$F_{\rm AP}(0.57)$	$0.6771^{+0.0035}_{-0.0052}$ (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.7σ)	$z_{\rm re}$	$10.2^{+2.0}_{-1.6}$ (-0.0σ)	$f\sigma_8(0.57)$	$0.478^{+0.013}_{-0.011}$ (-0.1σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.23^{+1.5}_{-2.5}$ (-1.0σ)	$10^9 A_{\rm s}$	2.204 ± 0.083 (-0.1σ)	$\sigma_8(0.57)$	$0.608^{+0.025}_{-0.014}$ (-0.0σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	1.873 ± 0.014 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.24625 ± 0.00010 (-3.9σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.581 (-0.2σ)	D_{40}	1228 ± 15 (-0.5σ)	f^{143}_{2000}	28.8 ± 2.9 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	$5.30^{+3.8}_{-2.3}$ $(+0.7\sigma)$	D_{220}	5699 ± 41 (-0.5σ)	f^{217}_{2000}	106.4 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	2530 ± 14 (-0.2σ)	$f^{143\times217}_{2000}$	31.7 ± 2.2 (-0.3σ)
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	D_{1420}	814.6 ± 5.1 (-0.0σ)	$\chi^2_{\rm lowTEB}$	10496.7 ± 2.4 (-0.3σ)
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.11	$n_{\rm s,0.002}$	0.9688 ± 0.0061 $(+0.3\sigma)$	$\chi^2_{\rm CamSpec}$	8060.2 ± 6.0
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244926^{+0.000093}_{-0.00010}$ (-3.9σ)	$\chi^2_{\rm H070p6}$	1.21 ± 1.0 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00097 (-1.4σ)	Age/Gyr	$13.827^{+0.046}_{-0.082}$ (-0.0σ)	$\chi^2_{\rm prior}$	8.39 ± 3.4 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9973 ± 0.0017 $(+1.0\sigma)$	z_*	1089.97 ± 0.42 (-0.1σ)	$\chi^2_{\rm CMB}$	18556.9 ± 5.9 $(+1284.5\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_*	144.77 ± 0.48 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18566.48$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.67$; $R - 1 = 0.01382$

7.12 base_mnu_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02215 ± 0.00026 $(+0.1\sigma)$	H_0	$65.8^{+3.0}_{-1.3}$ $(+0.1\sigma)$	$100\theta_*$	1.04105 ± 0.00048 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1199 ± 0.0023 (-0.1σ)	Ω_Λ	$0.664^{+0.042}_{-0.016}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.44 ± 0.50 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04075 ± 0.00052 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.336^{+0.016}_{-0.042}$ (-0.1σ)	$r_{\rm drag}$	147.30 ± 0.51 $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.081^{+0.018}_{-0.021}$ (-0.0σ)	$\Omega_{\rm m} h^2$	$0.1445^{+0.0023}_{-0.0043}$ (-0.1σ)	$k_{\rm D}$	0.14052 ± 0.00054 (-0.1σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.255 (-0.0σ)	$\Omega_\nu h^2$	< 0.00274 (-0.0σ)	$100\theta_{\rm D}$	0.16100 ± 0.00027 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.094^{+0.036}_{-0.040}$ (-0.1σ)	$\Omega_{\rm m} h^3$	$0.0950^{+0.0018}_{-0.00065}$ $(+0.0\sigma)$	$z_{\rm eq}$	3396 ± 51 (-0.1σ)
$\boldsymbol{n_s}$	0.9661 ± 0.0067 $(+0.3\sigma)$	σ_8	$0.797^{+0.055}_{-0.022}$ $(+0.0\sigma)$	$100\theta_{\rm eq}$	0.8142 ± 0.0095 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.460 ± 0.014 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0705^{+0.0020}_{-0.00094}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	247 ± 23 (-0.4σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.606^{+0.028}_{-0.016}$ (-0.0σ)	$H(0.57)$	$92.1^{+1.5}_{-0.63}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{143}}$	40 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	$0.982^{+0.049}_{-0.024}$ (-0.0σ)	$D_{\rm A}(0.57)$	1414^{+17}_{-44} (-0.1σ)
$\boldsymbol{A^{PS}_{217}}$	98 ± 10 $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.489 ± 0.046 (-0.3σ)	$F_{\rm AP}(0.57)$	$0.6819^{+0.0041}_{-0.010}$ (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.7σ)	$z_{\rm re}$	10.3 ± 1.7 (-0.0σ)	$f\sigma_8(0.57)$	$0.470^{+0.022}_{-0.011}$ (-0.0σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.14^{+1.3}_{-2.5}$ (-1.0σ)	$10^9 A_{\rm s}$	$2.209^{+0.075}_{-0.091}$ (-0.1σ)	$\sigma_8(0.57)$	$0.589^{+0.047}_{-0.018}$ $(+0.0\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.10}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	1.876 ± 0.014 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	0.24621 ± 0.00011 (-3.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.579 (-0.2σ)	D_{40}	1229 ± 15 (-0.5σ)	f^{143}_{2000}	29.4 ± 3.1 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	$5.46^{+4.2}_{-1.7}$ $(+0.7\sigma)$	D_{220}	5695 ± 41 (-0.5σ)	f^{217}_{2000}	106.9 ± 2.1 $(+0.2\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	2531 ± 14 (-0.3σ)	$f^{143\times217}_{2000}$	32.2 ± 2.3 (-0.3σ)
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	D_{1420}	814.1 ± 5.1 (-0.0σ)	$\chi^2_{\rm lowTEB}$	10496.9 ± 2.5 (-0.3σ)
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.11	$n_{\rm s,0.002}$	0.9661 ± 0.0067 $(+0.3\sigma)$	$\chi^2_{\rm CamSpec}$	8060.7 ± 6.1
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	$Y_{\rm P}$	0.24488 ± 0.00011 (-3.3σ)	$\chi^2_{\rm prior}$	8.40 ± 3.4 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99679 ± 0.00097 (-1.4σ)	Age/Gyr	$13.902^{+0.059}_{-0.16}$ (-0.1σ)	$\chi^2_{\rm CMB}$	18557.6 ± 6.0 $(+1243.4\sigma)$
$\boldsymbol{c_{217}}$	0.9973 ± 0.0017 $(+0.9\sigma)$	z_*	$1090.21^{+0.45}_{-0.57}$ (-0.1σ)		
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_*	144.57 ± 0.52 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18566.01$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.48$; $R - 1 = 0.01103$

7.13 base_mnu_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022379	0.02233 ± 0.00017 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.00062	1.0009 ± 0.0042	z_*	1089.793	1089.91 ± 0.33 (-0.7σ)
$\boldsymbol{\Omega_c h^2}$	0.11895	0.1193 ± 0.0015 (-0.5σ)	$\boldsymbol{\beta_1^1}$	-0.09	-0.07 ± 0.99	r_*	144.705	144.63 ± 0.33 $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040893	1.04075 ± 0.00033 $(+0.2\sigma)$	H_0	68.23	$66.6^{+2.0}_{-0.92}$ $(+0.2\sigma)$	$100\theta_*$	1.041061	1.04100 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0784	0.080 ± 0.018 (-0.1σ)	Ω_Λ	0.6964	$0.676^{+0.026}_{-0.011}$ $(+0.2\sigma)$	$z_{\rm drag}$	1059.856	1059.79 ± 0.34 $(+0.6\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.193 $(+0.0\sigma)$	$\Omega_{\rm m}$	0.3036	$0.324^{+0.011}_{-0.026}$ (-0.2σ)	$r_{\rm drag}$	147.369	147.31 ± 0.32 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0869	3.092 ± 0.035 (-0.3σ)	$\Omega_{\rm m} h^2$	0.14134	$0.1434^{+0.0017}_{-0.0027}$ (-0.2σ)	$k_{\rm D}$	0.140594	0.14064 ± 0.00035 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.96840	0.9674 ± 0.0050 $(+0.7\sigma)$	$\Omega_\nu h^2$	0.00001	< 0.00208 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.160760	0.16078 ± 0.00019 (-0.8σ)
$\boldsymbol{y_{cal}}$	1.00019	1.0003 ± 0.0025 (-0.1σ)	$\Omega_{\rm m} h^3$	0.09644	$0.0955^{+0.0012}_{-0.00045}$ $(+0.1\sigma)$	$z_{\rm eq}$	3377.3	3384 ± 33 (-0.4σ)
$\boldsymbol{A_{100}^{PS}}$	245.0	245 ± 22 (-0.6σ)	σ_8	0.8394	$0.806^{+0.040}_{-0.019}$ (-0.2σ)	$100\theta_{\rm eq}$	0.8177	0.8166 ± 0.0062 $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	34.2	38 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4625	0.458 ± 0.010 (-0.6σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07200	$0.0710^{+0.0013}_{-0.00066}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98.1	98 ± 10 $(+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6231	$0.607^{+0.021}_{-0.013}$ (-0.4σ)	$H(0.57)$	93.35	$92.5^{+1.0}_{-0.45}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46.4	46 ± 7 (-2.8σ)	$\sigma_8/h^{0.5}$	1.0162	$0.987^{+0.037}_{-0.021}$ (-0.3σ)	$D_{\rm A}(0.57)$	1378.7	1402^{+12}_{-29} (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.76	$3.33^{+1.6}_{-2.5}$ (-1.1σ)	$\langle d^2 \rangle^{1/2}$	2.4890	2.479 ± 0.039 (-0.7σ)	$F_{\rm AP}(0.57)$	0.67401	$0.6790^{+0.0029}_{-0.0065}$ (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.426	0.52 ± 0.11	$z_{\rm re}$	9.95	$10.1^{+1.7}_{-1.5}$ (-0.2σ)	$f\sigma_8(0.57)$	0.4848	$0.473^{+0.016}_{-0.0094}$ (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.607 (-0.2σ)	$10^9 A_{\rm s}$	2.191	2.202 ± 0.076 (-0.3σ)	$\sigma_8(0.57)$	0.6260	$0.597^{+0.034}_{-0.015}$ (-0.1σ)
$\boldsymbol{A^{kSZ}}$	4.19	$5.28^{+3.7}_{-2.4}$ $(+0.8\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	1.8731	1.874 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246307	0.246284 ± 0.000075 (-4.8σ)
$\boldsymbol{A_{100}^{dust}}$	0.979	0.98 ± 0.19	D_{40}	1228.3	1230 ± 13 (-1.0σ)	f_{2000}^{143}	28.27	28.6 ± 2.7 (-0.4σ)
$\boldsymbol{A_{143}^{dust}}$	1.026	1.02 ± 0.18	D_{220}	5710.5	5711 ± 38 (-0.5σ)	f_{2000}^{217}	105.96	106.2 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.233	1.22 ± 0.12	D_{810}	2529.1	2531 ± 13 (-0.4σ)	$f_{2000}^{143\times217}$	30.95	31.4 ± 2.0 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.981	0.98 ± 0.18	D_{1420}	814.48	815.0 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10495.89	10496.7 ± 2.2 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99671	0.99679 ± 0.00097 (-1.8σ)	$n_{\rm s,0.002}$	0.96840	0.9674 ± 0.0050 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12935.4	12953.3 ± 6.2
$\boldsymbol{c_{217}}$	0.99727	0.9971 ± 0.0018 $(+0.7\sigma)$	$Y_{\rm P}$	0.244976	0.244956 ± 0.000074 (-4.8σ)	$\chi^2_{\rm prior}$	3.71	8.99 ± 3.6 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.00350	1.0047 ± 0.0045	Age/Gyr	13.764	$13.854^{+0.042}_{-0.11}$ (-0.2σ)	$\chi^2_{\rm CMB}$	23431.3	23450.0 ± 6.2 $(+1522.1\sigma)$

Best-fit $\chi^2_{\rm eff} = 23435.03$; $\Delta\chi^2_{\rm eff} = 10500.01$; $\bar{\chi}^2_{\rm eff} = 23458.95$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.09$; $R - 1 = 0.00897$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.89 (Δ -0.90) CamSpec like_v9.10CMH_unified: 12935.43

7.14 base_mnu_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00016 \quad (+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$100\theta_*$	$1.04104 \pm 0.00030 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0014 \quad (-0.5\sigma)$	H_0	$67.3^{+1.3}_{-0.82} \quad (+0.3\sigma)$	$z_{\rm drag}$	$1059.84 \pm 0.33 \quad (+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04082 \pm 0.00031 \quad (+0.2\sigma)$	Ω_Λ	$0.685^{+0.017}_{-0.010} \quad (+0.3\sigma)$	$r_{\rm drag}$	$147.38 \pm 0.31 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.080 \pm 0.018 \quad (-0.1\sigma)$	$\Omega_{\rm m}$	$0.315^{+0.010}_{-0.017} \quad (-0.3\sigma)$	$k_{\rm D}$	$0.14059 \pm 0.00034 \quad (+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.135 \quad (+0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1425^{+0.0015}_{-0.0019} \quad (-0.3\sigma)$	$100\theta_{\rm D}$	$0.16076 \pm 0.00019 \quad (-0.8\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.091 \pm 0.034 \quad (-0.2\sigma)$	$\Omega_\nu h^2$	$< 0.00145 \quad (+0.1\sigma)$	$z_{\rm eq}$	$3376 \pm 31 \quad (-0.4\sigma)$
$\boldsymbol{n_s}$	$0.9685 \pm 0.0047 \quad (+0.7\sigma)$	$\Omega_{\rm m}h^3$	$0.09587^{+0.00080}_{-0.00041} \quad (+0.1\sigma)$	$100\theta_{\rm eq}$	$0.8180 \pm 0.0060 \quad (+0.5\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	σ_8	$0.817^{+0.028}_{-0.017} \quad (-0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07141^{+0.00088}_{-0.00060} \quad (+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$244 \pm 22 \quad (-0.6\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.4584 \pm 0.0099 \quad (-0.6\sigma)$	$H(0.57)$	$92.85^{+0.68}_{-0.38} \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.7\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.612^{+0.015}_{-0.012} \quad (-0.5\sigma)$	$D_{\rm A}(0.57)$	$1392^{+11}_{-19} \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.996^{+0.027}_{-0.020} \quad (-0.4\sigma)$	$F_{\rm AP}(0.57)$	$0.6769^{+0.0027}_{-0.0043} \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.8\sigma)$	$\langle d^2\rangle^{1/2}$	$2.478 \pm 0.039 \quad (-0.6\sigma)$	$f\sigma_8(0.57)$	$0.477^{+0.012}_{-0.0091} \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.38^{+1.6}_{-2.5} \quad (-1.1\sigma)$	$z_{\rm re}$	$10.1^{+1.7}_{-1.5} \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.608^{+0.023}_{-0.013} \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9A_{\rm s}$	$2.201 \pm 0.075 \quad (-0.2\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246301 \pm 0.000071 \quad (-5.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.611 \quad (-0.2\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	$1.873 \pm 0.012 \quad (-0.7\sigma)$	f_{2000}^{143}	$28.3 \pm 2.7 \quad (-0.4\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.19^{+3.5}_{-2.6} \quad (+0.8\sigma)$	D_{40}	$1229 \pm 13 \quad (-0.9\sigma)$	f_{2000}^{217}	$105.9 \pm 1.9 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	$5712 \pm 38 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$31.2 \pm 2.0 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2530 \pm 13 \quad (-0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.6 \pm 2.1 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$815.0 \pm 4.7 \quad (+0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12952.8 ± 6.0
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9685 \pm 0.0047 \quad (+0.7\sigma)$	$\chi^2_{\rm JLA}$	$707.03 \pm 0.69 \quad (-0.2\sigma)$
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00098 \quad (-1.7\sigma)$	$Y_{\rm P}$	$0.244972 \pm 0.000071 \quad (-5.2\sigma)$	$\chi^2_{\rm prior}$	$8.99 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.819^{+0.036}_{-0.072} \quad (-0.2\sigma)$	$\chi^2_{\rm CMB}$	$23449.4 \pm 6.0 \quad (+1563.5\sigma)$
$\boldsymbol{c_{TE}}$	1.0044 ± 0.0045	z_*	$1089.82 \pm 0.30 \quad (-0.7\sigma)$		
$\boldsymbol{c_{EE}}$	1.0009 ± 0.0042	r_*	$144.71 \pm 0.31 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 24165.43$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.14$; $R - 1 = 0.00934$

7.15 base_mnu_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02237 ± 0.00017 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	$100\theta_*$	1.04105 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1189 ± 0.0014 (-0.5σ)	H_0	$67.4^{+1.3}_{-0.80}$ $(+0.3\sigma)$	$z_{\rm drag}$	1059.86 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04083 ± 0.00031 $(+0.2\sigma)$	Ω_Λ	$0.686^{+0.017}_{-0.010}$ $(+0.3\sigma)$	$r_{\rm drag}$	147.38 ± 0.31 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.080 ± 0.018 (-0.1σ)	$\Omega_{\rm m}$	$0.314^{+0.010}_{-0.017}$ (-0.3σ)	$k_{\rm D}$	0.14059 ± 0.00034 $(+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.128 $(+0.0\sigma)$	$\Omega_{\rm m}h^2$	$0.1424^{+0.0015}_{-0.0020}$ (-0.3σ)	$100\theta_{\rm D}$	0.16076 ± 0.00019 (-0.8σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.091 ± 0.034 (-0.2σ)	$\Omega_\nu h^2$	< 0.00138 $(+0.0\sigma)$	$z_{\rm eq}$	3376 ± 32 (-0.4σ)
$\boldsymbol{n_s}$	0.9686 ± 0.0048 $(+0.7\sigma)$	$\Omega_{\rm m}h^3$	$0.09591^{+0.00079}_{-0.00039}$ $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8181 ± 0.0061 $(+0.5\sigma)$
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	σ_8	$0.818^{+0.028}_{-0.016}$ (-0.3σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07145^{+0.00090}_{-0.00059}$ $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244 ± 22 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4584 ± 0.0098 (-0.6σ)	$H(0.57)$	$92.88^{+0.68}_{-0.37}$ $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.7σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.612^{+0.015}_{-0.012}$ (-0.5σ)	$D_{\rm A}(0.57)$	1391^{+11}_{-19} (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.997^{+0.026}_{-0.019}$ (-0.4σ)	$F_{\rm AP}(0.57)$	$0.6767^{+0.0026}_{-0.0043}$ (-0.3σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.478 ± 0.039 (-0.6σ)	$f\sigma_8(0.57)$	$0.477^{+0.012}_{-0.0090}$ (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.39^{+1.6}_{-2.5}$ (-1.1σ)	$z_{\rm re}$	$10.1^{+1.7}_{-1.5}$ (-0.1σ)	$\sigma_8(0.57)$	$0.609^{+0.023}_{-0.013}$ (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9A_{\rm s}$	2.201 ± 0.075 (-0.2σ)	$Y_{\rm P}^{\rm BBN}$	0.246304 ± 0.000071 (-5.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.613 (-0.2σ)	$10^9A_{\rm s}e^{-2\tau}$	1.873 ± 0.012 (-0.7σ)	f_{2000}^{143}	28.3 ± 2.7 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	$5.18^{+3.5}_{-2.6}$ $(+0.8\sigma)$	D_{40}	1229 ± 13 (-0.9σ)	f_{2000}^{217}	105.9 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	5712 ± 38 (-0.5σ)	$f_{2000}^{143\times217}$	31.1 ± 2.0 (-0.5σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2530 ± 13 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10496.6 ± 2.1 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	815.1 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12952.8 ± 6.0
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9686 ± 0.0048 $(+0.7\sigma)$	$\chi^2_{\rm H070p6}$	1.06 ± 0.79 (-0.2σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00098 (-1.7σ)	$Y_{\rm P}$	0.244975 ± 0.000072 (-5.2σ)	$\chi^2_{\rm prior}$	8.99 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	$13.815^{+0.034}_{-0.072}$ (-0.2σ)	$\chi^2_{\rm CMB}$	23449.4 ± 6.0 $(+1562.0\sigma)$
$\boldsymbol{c_{TE}}$	1.0044 ± 0.0045	z_*	1089.81 ± 0.30 (-0.7σ)		
$\boldsymbol{c_{EE}}$	1.0009 ± 0.0042	r_*	144.71 ± 0.32 $(+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23459.43$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.05$; $R - 1 = 0.00904$

7.16 base_mnu_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02233 \pm 0.00017 \quad (+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.0009 ± 0.0042	z_*	$1089.90 \pm 0.33 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1192 \pm 0.0015 \quad (-0.5\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	r_*	$144.63 \pm 0.33 \quad (+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04075 \pm 0.00033 \quad (+0.2\sigma)$	H_0	$66.6^{+2.0}_{-0.93} \quad (+0.2\sigma)$	$100\theta_*$	$1.04101 \pm 0.00030 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.081 \pm 0.017 \quad (-0.1\sigma)$	Ω_Λ	$0.676^{+0.026}_{-0.011} \quad (+0.2\sigma)$	$z_{\rm drag}$	$1059.79 \pm 0.34 \quad (+0.6\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.195 \quad (+0.0\sigma)$	$\Omega_{\rm m}$	$0.324^{+0.011}_{-0.026} \quad (-0.2\sigma)$	$r_{\rm drag}$	$147.31 \pm 0.33 \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.093 \pm 0.033 \quad (-0.3\sigma)$	$\Omega_{\rm m} h^2$	$0.1434^{+0.0017}_{-0.0027} \quad (-0.2\sigma)$	$k_{\rm D}$	$0.14064 \pm 0.00035 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9675 \pm 0.0050 \quad (+0.7\sigma)$	$\Omega_\nu h^2$	$< 0.00210 \quad (+0.0\sigma)$	$100\theta_{\rm D}$	$0.16078 \pm 0.00019 \quad (-0.8\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.0955^{+0.0012}_{-0.00047} \quad (+0.1\sigma)$	$z_{\rm eq}$	$3383 \pm 33 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$244 \pm 22 \quad (-0.6\sigma)$	σ_8	$0.806^{+0.041}_{-0.018} \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8167 \pm 0.0062 \quad (+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.458 \pm 0.010 \quad (-0.6\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0710^{+0.0013}_{-0.00068} \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.608^{+0.021}_{-0.013} \quad (-0.4\sigma)$	$H(0.57)$	$92.5^{+1.0}_{-0.45} \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.8\sigma)$	$\sigma_8/h^{0.5}$	$0.987^{+0.037}_{-0.020} \quad (-0.3\sigma)$	$D_{\rm A}(0.57)$	$1402^{+12}_{-29} \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.35^{+1.5}_{-2.5} \quad (-1.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.481 \pm 0.038 \quad (-0.7\sigma)$	$F_{\rm AP}(0.57)$	$0.6791^{+0.0030}_{-0.0065} \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$z_{\rm re}$	$10.2 \pm 1.5 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.473^{+0.016}_{-0.0091} \quad (-0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.612 \quad (-0.2\sigma)$	$10^9 A_{\rm s}$	$2.206^{+0.069}_{-0.080} \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.598^{+0.034}_{-0.015} \quad (-0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.24^{+3.6}_{-2.4} \quad (+0.8\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.874 \pm 0.012 \quad (-0.7\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246285 \pm 0.000076 \quad (-4.8\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{40}	$1230 \pm 13 \quad (-1.0\sigma)$	f_{2000}^{143}	$28.6 \pm 2.7 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{220}	$5711 \pm 38 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.1 \pm 1.9 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{810}	$2531 \pm 13 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.4 \pm 2.0 \quad (-0.5\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	D_{1420}	$815.0 \pm 4.7 \quad (+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.7 \pm 2.2 \quad (-0.6\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00099 \quad (-1.8\sigma)$	$n_{\rm s,0.002}$	$0.9675 \pm 0.0050 \quad (+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12953.3 ± 6.2
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	$Y_{\rm P}$	$0.244957 \pm 0.000075 \quad (-4.8\sigma)$	$\chi^2_{\rm prior}$	$9.00 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0046 ± 0.0045	Age/Gyr	$13.854^{+0.043}_{-0.11} \quad (-0.2\sigma)$	$\chi^2_{\rm CMB}$	$23450.0 \pm 6.2 \quad (+1524.5\sigma)$

$\bar{\chi}^2_{\rm eff} = 23458.97$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.16$; $R - 1 = 0.00966$

7.17 base_mnu_plikHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022380	0.02223 ± 0.00028	σ_8	0.798	$0.701^{+0.10}_{-0.068}$	D_A/Gpc	13.9271	13.904 ± 0.050
$\boldsymbol{\Omega_c h^2}$	0.11775	0.1181 ± 0.0020	$\sigma_8\Omega_m^{0.5}$	0.4425	$0.421^{+0.026}_{-0.023}$	z_{drag}	1059.78	1059.62 ± 0.55
$\boldsymbol{100\theta_{MC}}$	1.04096	1.04077 ± 0.00053	$\sigma_8\Omega_m^{0.25}$	0.5941	$0.543^{+0.056}_{-0.040}$	r_{drag}	147.68	147.48 ± 0.54
$\boldsymbol{\tau}$	0.0614	0.061 ± 0.021	$\sigma_8/h^{0.5}$	0.969	$0.877^{+0.098}_{-0.068}$	k_D	0.14026	0.14051 ± 0.00065
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.112	< 0.743	$\langle d^2\rangle^{1/2}$	2.401	2.388 ± 0.056	$100\theta_D$	0.160825	0.16081 ± 0.00033
$\boldsymbol{\ln(10^{10}A_s)}$	3.0473	3.041 ± 0.044	z_{re}	8.36	$8.30^{+2.3}_{-1.9}$	z_{eq}	3348.8	3353 ± 46
$\boldsymbol{n_s}$	0.9737	0.966 ± 0.012	$10^9 A_s$	2.106	$2.094^{+0.090}_{-0.10}$	k_{eq}	0.010221	0.01025 ± 0.00014
$\boldsymbol{y_{cal}}$	0.99984	0.99996 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8625	1.852 ± 0.020	$100\theta_{eq}$	0.8231	0.8231 ± 0.0090
$\boldsymbol{A_{100}^{dustTE}}$	0.1407	0.135 ± 0.038	D_{40}	1204.6	1200 ± 23	$100\theta_{s,eq}$	0.45447	0.4546 ± 0.0046
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1312	0.132 ± 0.029	D_{220}	5680	5689 ± 57	$r_{drag}/D_V(0.57)$	0.07180	$0.0691^{+0.0028}_{-0.0019}$
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.298	0.304 ± 0.084	D_{810}	2525.2	2514 ± 27	$H(0.57)$	93.01	$90.9^{+2.2}_{-1.6}$
$\boldsymbol{A_{143}^{dustTE}}$	0.154	0.151 ± 0.054	D_{1420}	815.4	810 ± 12	$D_A(0.57)$	1386	1450^{+40}_{-71}
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.328	0.334 ± 0.080	D_{2000}	230.52	227.6 ± 4.7	$F_{AP}(0.57)$	0.6751	$0.6893^{+0.0086}_{-0.016}$
$\boldsymbol{A_{217}^{dustTE}}$	1.650	1.65 ± 0.26	$n_{s,0.002}$	0.9737	0.966 ± 0.012	$f\sigma_8(0.57)$	0.4639	$0.421^{+0.048}_{-0.030}$
$\boldsymbol{c_{100}}$	0.99907	0.99924 ± 0.00099	Y_P	0.245397	0.24533 ± 0.00013	$\sigma_8(0.57)$	0.595	$0.514^{+0.086}_{-0.056}$
H_0	67.77	$63.5^{+4.5}_{-2.8}$	Y_P^{BBN}	0.246724	0.24666 ± 0.00013	χ^2_{lowTEB}	10493.34	10494.5 ± 1.9
Ω_Λ	0.692	$0.632^{+0.071}_{-0.034}$	10^5D/H	2.589	2.618 ± 0.053	χ^2_{plikTE}	932.23	939.5 ± 4.3
Ω_m	0.308	$0.368^{+0.034}_{-0.071}$	Age/Gyr	13.807	$14.06^{+0.16}_{-0.27}$	χ^2_{prior}	1.60	7.86 ± 3.6
$\Omega_m h^2$	0.14134	$0.1466^{+0.0038}_{-0.0059}$	z_*	1089.71	$1090.10^{+0.49}_{-0.60}$	χ^2_{CMB}	11425.57	11434.0 ± 4.4
$\Omega_\nu h^2$	0.00121	< 0.00799	r_*	145.01	144.77 ± 0.53			
$\Omega_m h^3$	0.09578	$0.0930^{+0.0031}_{-0.0018}$	$100\theta_*$	1.041172	1.04117 ± 0.00050			

Best-fit $\chi^2_{eff} = 11427.17$; $\bar{\chi}^2_{eff} = 11441.88$; $R - 1 = 0.00840$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.34 plik_dx11dr2_HM_v18_TE: 932.23

7.18 base_mnu_plikHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02211	$0.0226^{+0.0013}_{-0.0017}$	σ_8	0.455	$0.504^{+0.060}_{-0.17}$	$100\theta_*$	1.04058	$1.0408^{+0.0011}_{-0.0013}$
$\boldsymbol{\Omega_c h^2}$	0.1163	$0.1133^{+0.0053}_{-0.0060}$	$\sigma_8\Omega_m^{0.5}$	0.3747	$0.373^{+0.030}_{-0.040}$	D_A/Gpc	13.691	$13.74^{+0.11}_{-0.16}$
$\boldsymbol{100\theta_{MC}}$	1.03986	1.0403 ± 0.0011	$\sigma_8\Omega_m^{0.25}$	0.413	$0.432^{+0.044}_{-0.089}$	z_{drag}	1060.47	1061.2 ± 2.8
$\boldsymbol{\tau}$	0.0655	0.065 ± 0.020	$\sigma_8/h^{0.5}$	0.644	$0.682^{+0.072}_{-0.16}$	r_{drag}	145.13	$145.60^{+0.95}_{-1.3}$
$\boldsymbol{\Sigma m_\nu}$ [eV]	2.84	—	$\langle d^2\rangle^{1/2}$	2.511	$2.47^{+0.13}_{-0.11}$	k_D	0.14403	0.1436 ± 0.0018
$\boldsymbol{\ln(10^{10}A_s)}$	3.0663	3.064 ± 0.044	z_{re}	9.28	$8.90^{+2.3}_{-2.0}$	$100\theta_D$	0.15932	$0.1592^{+0.0014}_{-0.0017}$
$\boldsymbol{n_s}$	0.9529	$0.960^{+0.017}_{-0.022}$	$10^9 A_s$	2.146	$2.142^{+0.092}_{-0.10}$	z_{eq}	3309	3248 ± 130
$\boldsymbol{y_{cal}}$	1.00010	1.0001 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8827	$1.880^{+0.034}_{-0.030}$	k_{eq}	0.010267	$0.01008^{+0.00028}_{-0.00033}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0821	0.0824 ± 0.0059	D_{40}	1172.8	1180 ± 38	$100\theta_{eq}$	0.8420	$0.855^{+0.030}_{-0.037}$
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0495	0.0497 ± 0.0054	D_{220}	5749	5782^{+320}_{-270}	$100\theta_{s,eq}$	0.4650	$0.472^{+0.015}_{-0.021}$
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0989	0.099 ± 0.032	D_{810}	2587.1	2587 ± 44	$r_{drag}/D_V(0.57)$	0.06061	$0.0631^{+0.0023}_{-0.0065}$
$\boldsymbol{A^{dustEE}_{143}}$	0.1007	0.1009 ± 0.0073	D_{1420}	842.0	842 ± 22	$H(0.57)$	85.68	$87.4^{+1.0}_{-3.9}$
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2246	0.224 ± 0.047	D_{2000}	236.2	237.3 ± 8.6	$D_A(0.57)$	1671	1610^{+200}_{-90}
$\boldsymbol{A^{dustEE}_{217}}$	0.646	0.65 ± 0.13	$n_{s,0.002}$	0.9529	$0.960^{+0.017}_{-0.022}$	$F_{AP}(0.57)$	0.7498	$0.734^{+0.053}_{-0.031}$
H_0	49.9	$53.8^{+4.5}_{-11}$	Y_P	0.24527	0.24546 ± 0.00064	$f\sigma_8(0.57)$	0.293	$0.315^{+0.040}_{-0.093}$
Ω_Λ	0.321	$0.39^{+0.31}_{-0.17}$	Y_P^{BBN}	0.24660	0.24679 ± 0.00064	$\sigma_8(0.57)$	0.307	$0.352^{+0.047}_{-0.14}$
Ω_m	0.679	$0.61^{+0.17}_{-0.31}$	10^5D/H	2.641	$2.57^{+0.26}_{-0.29}$	χ^2_{lowTEB}	10493.39	10494.5 ± 2.2
$\Omega_m h^2$	0.1690	$0.163^{+0.019}_{-0.0094}$	Age/Gyr	14.813	$14.60^{+0.66}_{-0.29}$	χ^2_{plikEE}	751.39	759.0 ± 4.5
$\Omega_\nu h^2$	0.0305	< 0.0351	z_*	1091.60	1090.7 ± 2.7	χ^2_{prior}	3.89	8.25 ± 3.5
$\Omega_m h^3$	0.0843	$0.0867^{+0.0044}_{-0.0080}$	r_*	142.46	$143.05^{+0.99}_{-1.6}$	χ^2_{CMB}	11244.78	11253.6 ± 4.6

Best-fit $\chi^2_{eff} = 11248.67$; $\bar{\chi}^2_{eff} = 11261.82$; $R - 1 = 0.00732$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.39 plik_dx11dr2_HM_v18_EE: 751.39

7.19 base_mnu_CamSpecHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022408	0.02225 ± 0.00027 $(+0.1\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.5982	$0.542^{+0.054}_{-0.037}$ (-0.0σ)	$r_{\rm drag}$	148.05	147.89 ± 0.55 $(+0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11630	0.1166 ± 0.0020 (-0.7σ)	$\sigma_8/h^{0.5}$	0.980	$0.879^{+0.096}_{-0.062}$ $(+0.0\sigma)$	$k_{\rm D}$	0.13990	$0.14008^{+0.00061}_{-0.00069}$ (-0.7σ)
$\boldsymbol{100\theta_{MC}}$	1.04134	1.04108 ± 0.00051 $(+0.6\sigma)$	$\langle d^2\rangle^{1/2}$	2.381	2.356 ± 0.056 (-0.6σ)	$100\theta_{\rm D}$	0.160875	0.16089 ± 0.00032 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0644	0.064 ± 0.021 $(+0.2\sigma)$	$z_{\rm re}$	8.59	$8.59^{+2.3}_{-1.9}$ $(+0.1\sigma)$	$z_{\rm eq}$	3314.6	3318 ± 46 (-0.8σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.011	< 0.661 (-0.1σ)	$10^9 A_{\rm s}$	2.100	2.090 ± 0.097 (-0.0σ)	$100\theta_{\rm eq}$	0.8297	0.8298 ± 0.0090 $(+0.7\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0446	3.039 ± 0.046 (-0.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8465	1.836 ± 0.028 (-0.8σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07292	$0.0699^{+0.0029}_{-0.0017}$ $(+0.4\sigma)$
$\boldsymbol{n_s}$	0.9823	0.974 ± 0.013 $(+0.6\sigma)$	D_{40}	1178.6	1178 ± 25 (-1.0σ)	$H(0.57)$	93.76	$91.3^{+2.3}_{-1.4}$ $(+0.3\sigma)$
$\boldsymbol{y_{cal}}$	0.99999	1.0000 ± 0.0025 $(+0.0\sigma)$	D_{220}	5622	5633 ± 79 (-1.0σ)	$D_{\rm A}(0.57)$	1365	1434^{+35}_{-70} (-0.3σ)
$\boldsymbol{c_{TE}}$	0.9984	0.998 ± 0.010	D_{810}	2514.1	2501 ± 38 (-0.5σ)	$F_{\rm AP}(0.57)$	0.6702	$0.6852^{+0.0074}_{-0.016}$ (-0.3σ)
H_0	69.32	$64.6^{+4.6}_{-2.5}$ $(+0.3\sigma)$	D_{1420}	814.8	809 ± 15 (-0.1σ)	$f\sigma_8(0.57)$	0.4674	$0.422^{+0.046}_{-0.027}$ $(+0.0\sigma)$
Ω_Λ	0.7111	$0.649^{+0.067}_{-0.028}$ $(+0.3\sigma)$	$n_{\rm s,0.002}$	0.9823	0.974 ± 0.013 $(+0.6\sigma)$	$\sigma_8(0.57)$	0.612	$0.522^{+0.086}_{-0.049}$ $(+0.1\sigma)$
$\Omega_{\rm m}$	0.2889	$0.351^{+0.028}_{-0.067}$ (-0.3σ)	$Y_{\rm P}$	0.244988	0.24492 ± 0.00012 (-3.2σ)	$Y_{\rm P}^{\rm BBN}$	0.246319	0.24625 ± 0.00012 (-3.2σ)
$\Omega_{\rm m}h^2$	0.13882	$0.1445^{+0.0034}_{-0.0060}$ (-0.4σ)	Age/Gyr	13.738	$14.01^{+0.14}_{-0.27}$ (-0.2σ)	$\chi^2_{\rm lowTEB}$	10492.14	10493.3 ± 1.6 (-0.6σ)
$\Omega_\nu h^2$	0.00011	< 0.00711 (-0.1σ)	z_*	1089.53	$1089.90^{+0.48}_{-0.59}$ (-0.4σ)	$\chi^2_{\rm CamSpec}$	2694.65	2700.4 ± 3.4
$\Omega_{\rm m}h^3$	0.09624	$0.0932^{+0.0030}_{-0.0016}$ $(+0.1\sigma)$	r_*	145.38	145.18 ± 0.55 $(+0.8\sigma)$	$\chi^2_{\rm prior}$	10.05	12.0 ± 2.0 $(+1.2\sigma)$
σ_8	0.816	$0.708^{+0.10}_{-0.061}$ $(+0.1\sigma)$	$100\theta_*$	1.041509	1.04147 ± 0.00048 $(+0.6\sigma)$	$\chi^2_{\rm CMB}$	13186.79	13193.7 ± 3.6 $(+403.0\sigma)$
$\sigma_8\Omega_{\rm m}^{0.5}$	0.4386	$0.415^{+0.025}_{-0.022}$ (-0.3σ)	$z_{\rm drag}$	1059.74	1059.53 ± 0.54 (-0.2σ)			

Best-fit $\chi^2_{\rm eff} = 13196.84$; $\Delta\chi^2_{\rm eff} = 1769.67$; $\bar{\chi}^2_{\rm eff} = 13205.69$; $\Delta\bar{\chi}^2_{\rm eff} = 1763.81$; $R - 1 = 0.00735$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.14 (Δ -1.20) CamSpec like_v9.10CMH_unified: 2694.65

7.20 base_mnu_CamSpecHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02185	$0.0229^{+0.0012}_{-0.0014}$ $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.425	$0.459^{+0.050}_{-0.094}$ $(+0.4\sigma)$	$r_{\rm drag}$	144.58	$145.3^{+1.1}_{-1.2}$ (-0.3σ)
$\boldsymbol{\Omega_c h^2}$	0.11972	$0.1164^{+0.0045}_{-0.0050}$ $(+0.6\sigma)$	$\sigma_8/h^{0.5}$	0.660	$0.727^{+0.084}_{-0.17}$ $(+0.4\sigma)$	$k_{\rm D}$	0.14439	0.1439 ± 0.0015 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.03965	$1.03978^{+0.00076}_{-0.00094}$ (-0.4σ)	$\langle d^2\rangle^{1/2}$	2.546	2.47 ± 0.11 (-0.0σ)	$100\theta_{\rm D}$	0.15958	$0.1590^{+0.0011}_{-0.0013}$ (-0.1σ)
$\boldsymbol{\tau}$	0.0603	0.061 ± 0.019 (-0.2σ)	$z_{\rm re}$	8.86	$8.39^{+2.2}_{-1.8}$ (-0.2σ)	$z_{\rm eq}$	3383	3328^{+110}_{-98} $(+0.6\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	2.83	< 2.63 (-0.3σ)	$10^9 A_{\rm s}$	2.116	2.126 ± 0.089 (-0.2σ)	$100\theta_{\rm eq}$	0.8271	$0.837^{+0.019}_{-0.029}$ (-0.6σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0523	3.056 ± 0.042 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8760	1.880 ± 0.030 $(+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.0600	0.0640 ± 0.0048 $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.9428	0.955 ± 0.017 (-0.3σ)	D_{40}	1183.1	1204 ± 35 $(+0.6\sigma)$	$H(0.57)$	85.61	$88.2^{+1.4}_{-4.2}$ $(+0.3\sigma)$
$\boldsymbol{y_{cal}}$	1.00004	1.0001 ± 0.0025 $(+0.0\sigma)$	D_{220}	5681	5828^{+270}_{-210} $(+0.2\sigma)$	$D_{\rm A}(0.57)$	1687	1576^{+160}_{-190} (-0.2σ)
$\boldsymbol{c_{EE}}$	0.9963	0.9970 ± 0.0097	D_{810}	2558.7	2569 ± 43 (-0.4σ)	$F_{\rm AP}(0.57)$	0.7562	$0.726^{+0.036}_{-0.044}$ (-0.2σ)
H_0	48.9	56 ± 8 $(+0.2\sigma)$	D_{1420}	828.7	834 ± 19 (-0.4σ)	$f\sigma_8(0.57)$	0.297	$0.340^{+0.052}_{-0.096}$ $(+0.4\sigma)$
Ω_Λ	0.280	$0.44^{+0.28}_{-0.17}$ $(+0.2\sigma)$	$n_{\rm s,0.002}$	0.9428	0.955 ± 0.017 (-0.3σ)	$\sigma_8(0.57)$	0.309	$0.386^{+0.059}_{-0.15}$ $(+0.3\sigma)$
$\Omega_{\rm m}$	0.720	$0.56^{+0.17}_{-0.28}$ (-0.2σ)	$Y_{\rm P}$	0.24476	0.24516 ± 0.00052 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.24607	0.24649 ± 0.00052 (-0.5σ)
$\Omega_{\rm m}h^2$	0.1720	$0.161^{+0.015}_{-0.019}$ (-0.2σ)	Age/Gyr	14.84	14.46 ± 0.46 (-0.3σ)	$\chi^2_{\rm lowTEB}$	10494.60	10495.6 ± 2.3 $(+0.5\sigma)$
$\Omega_\nu h^2$	0.0305	< 0.0283 (-0.3σ)	z_*	1092.21	1090.2 ± 2.3 (-0.2σ)	$\chi^2_{\rm CamSpec}$	2186.79	2192.2 ± 3.8
$\Omega_{\rm m}h^3$	0.0841	$0.0886^{+0.0076}_{-0.0063}$ $(+0.3\sigma)$	r_*	141.85	142.9 ± 1.2 (-0.2σ)	$\chi^2_{\rm prior}$	10.17	12.1 ± 2.0 $(+1.1\sigma)$
σ_8	0.461	$0.547^{+0.077}_{-0.18}$ $(+0.3\sigma)$	$100\theta_*$	1.04039	$1.04031^{+0.00076}_{-0.0011}$ (-0.5σ)	$\chi^2_{\rm CMB}$	12681.39	12687.9 ± 3.5 $(+311.4\sigma)$
$\sigma_8\Omega_{\rm m}^{0.5}$	0.3912	$0.389^{+0.029}_{-0.036}$ $(+0.4\sigma)$	$z_{\rm drag}$	1060.09	1061.7 ± 2.3 $(+0.2\sigma)$			

Best-fit $\chi^2_{\rm eff} = 12691.56$; $\Delta\chi^2_{\rm eff} = 1442.89$; $\bar{\chi}^2_{\rm eff} = 12699.93$; $\Delta\bar{\chi}^2_{\rm eff} = 1438.11$; $R - 1 = 0.02740$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.60 (Δ 1.21) CamSpec like_v9.10CMH_unified: 2186.79

7.21 base_mnu_plikHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022262	0.02210 ± 0.00029	σ_8	0.797	$0.692^{+0.11}_{-0.067}$	D_A/Gpc	13.914	$13.886^{+0.058}_{-0.052}$
$\boldsymbol{\Omega_c h^2}$	0.11860	0.1192 ± 0.0021	$\sigma_8\Omega_m^{0.5}$	0.4433	$0.422^{+0.026}_{-0.023}$	z_{drag}	1059.59	1059.39 ± 0.56
$\boldsymbol{100\theta_{MC}}$	1.04103	1.04066 ± 0.00054	$\sigma_8\Omega_m^{0.25}$	0.5945	$0.540^{+0.058}_{-0.039}$	r_{drag}	147.59	147.32 ± 0.58
$\boldsymbol{\tau}$	0.0505	0.052 ± 0.019	$\sigma_8/h^{0.5}$	0.969	$0.871^{+0.10}_{-0.067}$	k_D	0.14026	0.14058 ± 0.00069
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.080	< 0.765	$\langle d^2\rangle^{1/2}$	2.407	2.403 ± 0.057	$100\theta_D$	0.160975	0.16094 ± 0.00034
$\boldsymbol{\ln(10^{10}A_s)}$	3.0257	3.024 ± 0.041	z_{re}	7.29	$7.42^{+2.3}_{-1.8}$	z_{eq}	3366.1	3375 ± 48
$\boldsymbol{n_s}$	0.9646	$0.954^{+0.015}_{-0.014}$	$10^9 A_s$	2.061	2.058 ± 0.084	k_{eq}	0.010273	0.01032 ± 0.00015
$\boldsymbol{y_{cal}}$	0.99990	1.0000 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8630	1.854 ± 0.020	$100\theta_{eq}$	0.8196	0.8187 ± 0.0092
$\boldsymbol{A_{100}^{dustTE}}$	0.1367	0.137 ± 0.038	D_{40}	1222.1	1223 ± 27	$100\theta_{s,eq}$	0.45275	0.4524 ± 0.0047
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1308	0.132 ± 0.029	D_{220}	5699	5717 ± 60	$r_{drag}/D_V(0.57)$	0.07174	$0.0687^{+0.0031}_{-0.0019}$
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.314	0.303 ± 0.084	D_{810}	2516.6	2505 ± 26	$H(0.57)$	93.01	$90.6^{+2.3}_{-1.5}$
$\boldsymbol{A_{143}^{dustTE}}$	0.156	0.151 ± 0.054	D_{1420}	808.7	802 ± 13	$D_A(0.57)$	1387	1459^{+41}_{-77}
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.327	0.334 ± 0.081	D_{2000}	227.81	224.5 ± 5.0	$F_{AP}(0.57)$	0.6755	$0.6919^{+0.0089}_{-0.018}$
$\boldsymbol{A_{217}^{dustTE}}$	1.706	1.66 ± 0.26	$n_{s,0.002}$	0.9646	$0.954^{+0.015}_{-0.014}$	$f\sigma_8(0.57)$	0.4634	$0.417^{+0.051}_{-0.030}$
$\boldsymbol{c_{100}}$	0.99919	0.99926 ± 0.00099	Y_P	0.245345	0.24527 ± 0.00013	$\sigma_8(0.57)$	0.594	$0.506^{+0.091}_{-0.055}$
H_0	67.69	$62.9^{+5.0}_{-2.9}$	Y_P^{BBN}	0.246672	0.24659 ± 0.00013	χ^2_{lowEB}	5430.81	5431.7 ± 1.2
Ω_Λ	0.691	$0.620^{+0.080}_{-0.035}$	10^5D/H	2.612	2.645 ± 0.056	χ^2_{plikTE}	931.65	939.1 ± 4.1
Ω_m	0.309	$0.380^{+0.035}_{-0.080}$	Age/Gyr	13.804	$14.09^{+0.16}_{-0.29}$	χ^2_{prior}	1.44	7.84 ± 3.6
$\Omega_m h^2$	0.1417	$0.1478^{+0.0040}_{-0.0066}$	z_*	1089.93	$1090.39^{+0.53}_{-0.67}$	χ^2_{CMB}	6362.46	6370.8 ± 4.3
$\Omega_\nu h^2$	0.00086	< 0.00823	r_*	144.88	$144.57^{+0.62}_{-0.55}$			
$\Omega_m h^3$	0.09593	$0.0928^{+0.0033}_{-0.0019}$	$100\theta_*$	1.04124	1.04108 ± 0.00051			

Best-fit $\chi^2_{\rm eff} = 6363.89$; $\bar{\chi}^2_{\rm eff} = 6378.66$; $R - 1 = 0.01125$

$\chi^2_{\rm eff}$: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.81 plik_dx11dr2_HM_v18_TE: 931.65

7.22 base_mnu_plikHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02413	$0.0225^{+0.0013}_{-0.0016}$	σ_8	0.810	$0.516^{+0.066}_{-0.19}$	$100\theta_*$	1.03976	$1.0407^{+0.0011}_{-0.0014}$
$\boldsymbol{\Omega_c h^2}$	0.1140	$0.1153^{+0.0052}_{-0.0060}$	$\sigma_8\Omega_m^{0.5}$	0.4234	$0.383^{+0.030}_{-0.042}$	D_A/Gpc	13.911	$13.71^{+0.13}_{-0.17}$
$\boldsymbol{100\theta_{MC}}$	1.03978	$1.0401^{+0.0011}_{-0.0013}$	$\sigma_8\Omega_m^{0.25}$	0.586	$0.442^{+0.047}_{-0.099}$	z_{drag}	1063.48	$1061.2^{+2.5}_{-2.8}$
$\boldsymbol{\tau}$	0.0643	0.055 ± 0.019	$\sigma_8/h^{0.5}$	0.961	$0.697^{+0.077}_{-0.18}$	r_{drag}	146.75	$145.2^{+1.1}_{-1.4}$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.00	—	$\langle d^2\rangle^{1/2}$	2.401	2.50 ± 0.12	k_D	0.14243	$0.1440^{+0.0020}_{-0.0018}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0759	3.049 ± 0.043	z_{re}	8.15	$7.83^{+2.3}_{-1.9}$	$100\theta_D$	0.15856	$0.1592^{+0.0014}_{-0.0016}$
$\boldsymbol{n_s}$	0.9764	$0.947^{+0.021}_{-0.025}$	$10^9 A_s$	2.167	$2.111^{+0.088}_{-0.098}$	z_{eq}	3301	3294 ± 130
$\boldsymbol{y_{cal}}$	0.99984	1.0000 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.9053	1.891 ± 0.031	k_{eq}	0.010076	$0.01022^{+0.00028}_{-0.00033}$
$\boldsymbol{A_{100}^{dustEE}}$	0.0814	0.0803 ± 0.0060	D_{40}	1250.9	1214 ± 43	$100\theta_{eq}$	0.8358	$0.846^{+0.031}_{-0.036}$
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0484	0.0473 ± 0.0055	D_{220}	6041	5829^{+320}_{-260}	$100\theta_{s,eq}$	0.4597	$0.467^{+0.017}_{-0.020}$
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0960	0.099 ± 0.032	D_{810}	2593.3	2585 ± 43	$r_{drag}/D_V(0.57)$	0.07354	$0.0629^{+0.0024}_{-0.0071}$
$\boldsymbol{A_{143}^{dustEE}}$	0.1001	0.0983 ± 0.0074	D_{1420}	842.7	836 ± 21	$H(0.57)$	95.00	$87.5^{+1.1}_{-4.1}$
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2203	0.225 ± 0.047	D_{2000}	240.9	234.8 ± 8.4	$D_A(0.57)$	1339	1612 ± 140
$\boldsymbol{A_{217}^{dustEE}}$	0.654	0.65 ± 0.13	$n_{s,0.002}$	0.9764	$0.947^{+0.021}_{-0.025}$	$F_{AP}(0.57)$	0.666	0.737 ± 0.040
H_0	71.1	$53.7^{+4.8}_{-12}$	Y_P	0.24613	0.24544 ± 0.00061	$f\sigma_8(0.57)$	0.459	$0.321^{+0.044}_{-0.10}$
Ω_Λ	0.727	$0.37^{+0.35}_{-0.16}$	Y_P^{BBN}	0.24746	0.24677 ± 0.00061	$\sigma_8(0.57)$	0.612	$0.360^{+0.052}_{-0.16}$
Ω_m	0.273	$0.63^{+0.16}_{-0.35}$	10^5D/H	2.294	$2.58^{+0.25}_{-0.28}$	χ^2_{lowEB}	5430.91	5431.9 ± 1.4
$\Omega_m h^2$	0.1382	0.164 ± 0.014	Age/Gyr	13.60	$14.58^{+0.72}_{-0.29}$	χ^2_{plikEE}	750.25	758.7 ± 4.4
$\Omega_\nu h^2$	0.0000	< 0.0354	z_*	1087.36	1090.9 ± 2.6	χ^2_{prior}	3.71	7.62 ± 3.4
$\Omega_m h^3$	0.0983	$0.0870^{+0.0043}_{-0.0090}$	r_*	144.64	$142.6^{+1.2}_{-1.7}$	χ^2_{CMB}	6181.16	6190.7 ± 4.5

Best-fit $\chi^2_{eff} = 6184.87$; $\bar{\chi}^2_{eff} = 6198.28$; $R - 1 = 0.00866$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.91 plik_dx11dr2_HM_v18_EE: 750.25

7.23 base_mnu_plikHM_TT_lowl_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022192	0.02216 ± 0.00028	Ω_m	0.3472	$0.354^{+0.033}_{-0.048}$	$100\theta_*$	1.04118	1.04118 ± 0.00050
$\boldsymbol{\Omega_c h^2}$	0.11879	0.1189 ± 0.0026	$\Omega_m h^2$	0.14523	$0.1457^{+0.0038}_{-0.0044}$	D_A/Gpc	13.907	13.902 ± 0.053
$\boldsymbol{100\theta_{MC}}$	1.04082	1.04082 ± 0.00054	$\Omega_\nu h^2$	0.00426	$0.0046^{+0.0022}_{-0.0036}$	z_{drag}	1059.47	1059.43 ± 0.51
$\boldsymbol{\tau}$	0.1014	0.0999 ± 0.031	$\Omega_m h^3$	0.09393	$0.0937^{+0.0019}_{-0.0015}$	r_{drag}	147.52	147.48 ± 0.55
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.396	$0.43^{+0.21}_{-0.34}$	σ_8	0.7674	$0.762^{+0.049}_{-0.037}$	k_D	0.14034	0.14038 ± 0.00055
$\boldsymbol{\ln(10^{10} A_s)}$	3.132	3.129 ± 0.057	$\sigma_8\Omega_m^{0.5}$	0.4522	0.4512 ± 0.0095	$100\theta_D$	0.160973	0.16099 ± 0.00028
$\boldsymbol{n_s}$	0.9680	0.9668 ± 0.0078	$\sigma_8\Omega_m^{0.25}$	0.5891	$0.586^{+0.021}_{-0.016}$	z_{eq}	3369	3372 ± 58
$\boldsymbol{y_{cal}}$	1.00010	1.0002 ± 0.0025	$\sigma_8/h^{0.5}$	0.9542	$0.949^{+0.040}_{-0.029}$	k_{eq}	0.010286	0.01030 ± 0.00018
$\boldsymbol{A_{217}^{CIB}}$	67.5	64.3 ± 6.7	$\langle d^2\rangle^{1/2}$	2.499	$2.504^{+0.048}_{-0.055}$	$100\theta_{eq}$	0.8192	0.819 ± 0.011
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	z_{re}	12.10	$11.9^{+3.1}_{-2.3}$	$100\theta_{s,eq}$	0.4526	0.4526 ± 0.0057
$\boldsymbol{A_{143}^{tSZ}}$	7.20	5.09 ± 2.0	$10^9 A_s$	2.293	2.29 ± 0.13	$r_{drag}/D_V(0.57)$	0.06981	0.0697 ± 0.0018
$\boldsymbol{A_{100}^{PS}}$	253.2	260 ± 28	$10^9 A_s e^{-2\tau}$	1.8717	1.872 ± 0.015	$H(0.57)$	91.39	91.3 ± 1.3
$\boldsymbol{A_{143}^{PS}}$	39.4	45 ± 8	D_{40}	1230.8	1233 ± 13	$D_A(0.57)$	1430.9	1435^{+38}_{-46}
$\boldsymbol{A_{143\times217}^{PS}}$	33.1	39^{+10}_{-10}	D_{220}	5711.1	5715 ± 41	$F_{AP}(0.57)$	0.6848	$0.6861^{+0.0084}_{-0.011}$
$\boldsymbol{A_{217}^{PS}}$	97.3	97 ± 10	D_{810}	2531.6	2532 ± 14	$f\sigma_8(0.57)$	0.4591	$0.456^{+0.019}_{-0.012}$
$\boldsymbol{A^{kSZ}}$	0.02	< 4.81	D_{1420}	814.9	814.5 ± 5.1	$\sigma_8(0.57)$	0.5650	$0.560^{+0.043}_{-0.034}$
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.43 ± 1.9	D_{2000}	230.08	229.8 ± 2.0	f_{2000}^{143}	30.02	30.6 ± 3.1
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.06 ± 1.8	$n_{s,0.002}$	0.9680	0.9668 ± 0.0078	$f_{2000}^{143\times217}$	32.73	33.0 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.95	17.2 ± 4.1	Y_P	0.245313	0.24529 ± 0.00013	f_{2000}^{217}	106.32	106.5 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	82.4	81.8 ± 7.4	Y_P^{BBN}	0.246639	0.24662 ± 0.00013	$\chi^2_{lensing}$	8.63	9.94 ± 1.8
$\boldsymbol{c_{100}}$	0.99784	0.99786 ± 0.00077	10^5D/H	2.625	2.633 ± 0.053	χ^2_{lowl}	13.99	14.4 ± 1.3
$\boldsymbol{c_{217}}$	0.99607	0.9960 ± 0.0014	Age/Gyr	13.982	$14.00^{+0.14}_{-0.17}$	χ^2_{plik}	765.5	779.3 ± 5.6
H_0	64.67	$64.4^{+3.0}_{-2.7}$	z_*	1090.10	1090.19 ± 0.57	χ^2_{prior}	2.27	7.38 ± 3.5
Ω_Λ	0.6528	$0.646^{+0.048}_{-0.033}$	r_*	144.79	144.74 ± 0.58	χ^2_{CMB}	788.1	803.7 ± 5.6

Best-fit $\chi^2_{eff} = 790.42$; $\bar{\chi}^2_{eff} = 811.08$; $R - 1 = 0.00848$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 8.63 commander_rc2_v1.1_l2_29_B: 13.99 plik_dx11dr2_HM_v18_TT: 765.52

7.24 base_mnu_plikHM_TT_lowl_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022317	$0.02233^{+0.00021}_{-0.00025}$	$\Omega_\nu h^2$	0.00136	< 0.00231	k_D	0.140160	0.14006 ± 0.00047
$\boldsymbol{\Omega_c h^2}$	0.11781	$0.1173^{+0.0022}_{-0.0018}$	$\Omega_m h^3$	0.09566	$0.09537^{+0.00093}_{-0.00067}$	$100\theta_D$	0.160929	0.16093 ± 0.00027
$\boldsymbol{100\theta_{MC}}$	1.041090	1.04115 ± 0.00043	σ_8	0.8099	$0.805^{+0.019}_{-0.014}$	z_{eq}	3348.7	3336^{+48}_{-42}
$\boldsymbol{\tau}$	0.0794	$0.089^{+0.026}_{-0.036}$	$\sigma_8\Omega_m^{0.5}$	0.4506	0.4487 ± 0.0079	k_{eq}	0.010221	$0.01018^{+0.00014}_{-0.00013}$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.127	< 0.215	$\sigma_8\Omega_m^{0.25}$	0.6041	$0.601^{+0.012}_{-0.0096}$	$100\theta_{eq}$	0.8230	$0.8257^{+0.0079}_{-0.0098}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.087	$3.105^{+0.049}_{-0.067}$	$\sigma_8/h^{0.5}$	0.9849	$0.980^{+0.019}_{-0.015}$	$100\theta_{s,eq}$	0.45450	$0.4559^{+0.0041}_{-0.0050}$
$\boldsymbol{n_s}$	0.9699	$0.9714^{+0.0058}_{-0.0071}$	$\langle d^2\rangle^{1/2}$	2.4557	2.465 ± 0.035	$r_{drag}/D_V(0.57)$	0.071724	0.07165 ± 0.00049
$\boldsymbol{y_{cal}}$	1.00006	1.0001 ± 0.0025	z_{re}	10.06	10.8 ± 2.6	$H(0.57)$	92.914	$92.78^{+0.49}_{-0.38}$
$\boldsymbol{A_{217}^{CIB}}$	67.4	63.8 ± 6.5	$10^9 A_s$	2.192	$2.24^{+0.10}_{-0.15}$	$D_A(0.57)$	1388.3	$1391.1^{+9.9}_{-12}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8702	$1.867^{+0.015}_{-0.013}$	$F_{AP}(0.57)$	0.67553	$0.6759^{+0.0022}_{-0.0025}$
$\boldsymbol{A_{143}^{tSZ}}$	7.16	5.13 ± 2.0	D_{40}	1225.8	1227 ± 11	$f\sigma_8(0.57)$	0.4717	$0.4696^{+0.0081}_{-0.0067}$
$\boldsymbol{A_{100}^{PS}}$	254.4	258 ± 28	D_{220}	5718.3	5719 ± 40	$\sigma_8(0.57)$	0.6035	$0.599^{+0.015}_{-0.011}$
$\boldsymbol{A_{143}^{PS}}$	39.0	43 ± 8	D_{810}	2531.1	2530 ± 14	f_{2000}^{143}	29.81	29.8 ± 3.0
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	38^{+10}_{-10}	D_{1420}	815.0	815.1 ± 5.1	$f_{2000}^{143\times217}$	32.38	32.2 ± 2.1
$\boldsymbol{A_{217}^{PS}}$	96.9	97 ± 10	D_{2000}	230.40	230.5 ± 1.9	f_{2000}^{217}	105.93	$105.8^{+2.3}_{-2.0}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.65	$n_{s,0.002}$	0.9699	$0.9714^{+0.0058}_{-0.0071}$	$\chi^2_{lensing}$	9.22	9.97 ± 1.8
$\boldsymbol{A_{100}^{dustTT}}$	7.41	7.41 ± 1.9	Y_P	0.245369	0.24538 ± 0.00010	χ^2_{lowl}	13.34	13.57 ± 0.88
$\boldsymbol{A_{143}^{dustTT}}$	9.12	9.03 ± 1.8	Y_P^{BBN}	0.246696	0.24670 ± 0.00010	χ^2_{plik}	766.3	779.7 ± 5.6
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.62	17.2 ± 4.0	10^5D/H	2.6013	$2.598^{+0.046}_{-0.041}$	χ^2_{6DF}	0.0155	0.08 ± 0.11
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.8 ± 7.2	Age/Gyr	13.818	$13.835^{+0.043}_{-0.059}$	χ^2_{MGS}	1.34	1.34 ± 0.62
$\boldsymbol{c_{100}}$	0.99790	0.99787 ± 0.00077	z_*	1089.799	$1089.74^{+0.42}_{-0.38}$	$\chi^2_{DR11CMASS}$	2.40	3.04 ± 0.92
$\boldsymbol{c_{217}}$	0.99596	0.9959 ± 0.0015	r_*	145.036	145.15 ± 0.43	$\chi^2_{DR11LOWZ}$	0.538	0.82 ± 0.74
H_0	67.61	$67.44^{+0.81}_{-0.71}$	$100\theta_*$	1.041320	1.04140 ± 0.00044	χ^2_{prior}	2.08	7.31 ± 3.5
Ω_Λ	0.6904	$0.6889^{+0.0099}_{-0.0086}$	D_A/Gpc	13.9281	13.938 ± 0.040	χ^2_{CMB}	788.8	803.2 ± 5.4
Ω_m	0.3096	$0.3111^{+0.0086}_{-0.0099}$	z_{drag}	1059.666	1059.66 ± 0.47	χ^2_{BAO}	4.30	5.28 ± 1.4
$\Omega_m h^2$	0.14149	0.1414 ± 0.0013	r_{drag}	147.727	147.84 ± 0.43			

Best-fit $\chi^2_{eff} = 795.19$; $\bar{\chi}^2_{eff} = 815.84$; $R - 1 = 0.02005$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.40 DR11LOWZ: 0.54 CMB - smica_g30_ftl_full_pp: 9.22 commander_rc2_v1.1_l2_29_B: 13.34 plik_dx11dr2_HM_v18_TT: 766.25

7.25 base_mnu_plikHM_TT_lowl_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022327	$0.02235^{+0.00021}_{-0.00025}$	$\Omega_m h^3$	0.09592	$0.09549^{+0.00088}_{-0.00063}$	z_{eq}	3351.5	3334^{+47}_{-40}
$\boldsymbol{\Omega_c h^2}$	0.11792	$0.1171^{+0.0021}_{-0.0017}$	σ_8	0.8161	$0.808^{+0.017}_{-0.013}$	k_{eq}	0.010229	$0.01018^{+0.00014}_{-0.00012}$
$\boldsymbol{100\theta_{MC}}$	1.041132	1.04118 ± 0.00043	$\sigma_8\Omega_m^{0.5}$	0.4515	0.4484 ± 0.0077	$100\theta_{eq}$	0.8225	$0.8261^{+0.0075}_{-0.0095}$
$\boldsymbol{\tau}$	0.0758	$0.088^{+0.025}_{-0.035}$	$\sigma_8\Omega_m^{0.25}$	0.6070	$0.602^{+0.011}_{-0.0093}$	$100\theta_{s,eq}$	0.45423	$0.4561^{+0.0039}_{-0.0049}$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.090	< 0.195	$\sigma_8/h^{0.5}$	0.9902	$0.982^{+0.018}_{-0.015}$	$r_{drag}/D_V(0.57)$	0.071920	0.07180 ± 0.00047
$\boldsymbol{\ln(10^{10}A_s)}$	3.081	$3.103^{+0.046}_{-0.066}$	$\langle d^2\rangle^{1/2}$	2.4544	2.463 ± 0.034	$H(0.57)$	93.105	$92.90^{+0.45}_{-0.36}$
$\boldsymbol{n_s}$	0.9697	$0.9717^{+0.0056}_{-0.0070}$	z_{re}	9.73	$10.7^{+2.4}_{-2.8}$	$D_A(0.57)$	1383.6	$1388.0^{+9.1}_{-11}$
$\boldsymbol{y_{cal}}$	0.999997	1.0001 ± 0.0025	$10^9 A_s$	2.177	$2.231^{+0.096}_{-0.15}$	$F_{AP}(0.57)$	0.67463	$0.6752^{+0.0020}_{-0.0023}$
$\boldsymbol{A_{217}^{CIB}}$	67.4	63.7 ± 6.5	$10^9 A_s e^{-2\tau}$	1.8708	$1.867^{+0.014}_{-0.013}$	$f\sigma_8(0.57)$	0.4738	$0.4704^{+0.0077}_{-0.0066}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1225.2	1226 ± 11	$\sigma_8(0.57)$	0.6087	$0.602^{+0.014}_{-0.011}$
$\boldsymbol{A_{143}^{tSZ}}$	7.17	$5.14^{+2.2}_{-2.0}$	D_{220}	5718.0	5720 ± 40	f_{2000}^{143}	29.67	29.7 ± 3.0
$\boldsymbol{A_{100}^{PS}}$	254.2	257 ± 28	D_{810}	2531.2	2530 ± 14	$f_{2000}^{143\times217}$	32.29	32.1 ± 2.1
$\boldsymbol{A_{143}^{PS}}$	38.6	43 ± 8	D_{1420}	815.0	815.2 ± 5.0	f_{2000}^{217}	105.88	$105.7^{+2.3}_{-2.0}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.1	38^{+10}_{-10}	D_{2000}	230.44	230.6 ± 1.8	$\chi^2_{lensing}$	9.50	10.0 ± 1.8
$\boldsymbol{A_{217}^{PS}}$	96.6	97 ± 10	$n_{s,0.002}$	0.9697	$0.9717^{+0.0056}_{-0.0070}$	χ^2_{lowl}	13.34	13.51 ± 0.86
$\boldsymbol{A^{kSZ}}$	0.00	< 4.62	Y_P	0.245374	0.24538 ± 0.00010	χ^2_{plik}	766.0	779.7 ± 5.6
$\boldsymbol{A_{100}^{dustTT}}$	7.38	7.40 ± 1.9	Y_P^{BBN}	0.246700	0.24671 ± 0.00010	χ^2_{H070p6}	0.648	0.83 ± 0.37
$\boldsymbol{A_{143}^{dustTT}}$	9.17	9.03 ± 1.8	10^5D/H	2.5995	$2.595^{+0.046}_{-0.040}$	χ^2_{JLA}	706.613	706.72 ± 0.22
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.84	17.1 ± 4.1	Age/Gyr	13.7965	$13.823^{+0.039}_{-0.054}$	χ^2_{6DF}	0.00099	0.056 ± 0.079
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.8 ± 7.2	z_*	1089.793	$1089.71^{+0.41}_{-0.37}$	χ^2_{MGS}	1.61	1.52 ± 0.62
$\boldsymbol{c_{100}}$	0.99789	0.99787 ± 0.00078	r_*	145.006	145.18 ± 0.41	$\chi^2_{DR11CMASS}$	2.429	2.92 ± 0.74
$\boldsymbol{c_{217}}$	0.99604	0.9959 ± 0.0015	$100\theta_*$	1.041341	1.04142 ± 0.00044	$\chi^2_{DR11LOWZ}$	0.318	0.61 ± 0.60
H_0	67.93	$67.66^{+0.74}_{-0.66}$	D_A/Gpc	13.9249	13.940 ± 0.039	χ^2_{prior}	2.12	7.31 ± 3.5
Ω_Λ	0.6940	$0.6916^{+0.0092}_{-0.0079}$	z_{drag}	1059.666	1059.69 ± 0.46	χ^2_{CMB}	788.9	803.3 ± 5.5
Ω_m	0.3060	$0.3084^{+0.0079}_{-0.0092}$	r_{drag}	147.696	147.86 ± 0.42	χ^2_{BAO}	4.36	5.11 ± 1.1
$\Omega_m h^2$	0.14121	$0.1411^{+0.0012}_{-0.0013}$	k_D	0.140199	0.14005 ± 0.00046			
$\Omega_\nu h^2$	0.00096	< 0.00210	$100\theta_D$	0.160921	0.16091 ± 0.00027			

Best-fit $\chi^2_{eff} = 1502.59$; $\bar{\chi}^2_{eff} = 1523.23$; $R - 1 = 0.02283$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.43 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.50 commander_rc2_v1.1_l2_29_B: 13.34 plik_dx11dr2_HM_v18_TT: 766.01 Hubble - H070p6: 0.65 SN - JLA December_2013: 706.61

7.26 base_mnu_plikHM_TTTEEE_lowl_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022207	0.02219 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.084	10^5D/H	2.6221	2.625 ± 0.033
$\boldsymbol{\Omega_c h^2}$	0.11945	0.1195 ± 0.0016	$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.154 ± 0.054	Age/Gyr	13.958	$13.97^{+0.11}_{-0.16}$
$\boldsymbol{100\theta_{MC}}$	1.040687	1.04068 ± 0.00034	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.340	0.339 ± 0.080	z_*	1090.123	1090.17 ± 0.35
$\boldsymbol{\tau}$	0.0911	0.090 ± 0.026	$\boldsymbol{A^{dustTE}_{217}}$	1.684	1.67 ± 0.26	r_*	144.632	144.60 ± 0.35
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.340	< 0.463	$\boldsymbol{c_{100}}$	0.99816	0.99814 ± 0.00077	$100\theta_*$	1.041026	1.04102 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.1144	3.112 ± 0.049	$\boldsymbol{c_{217}}$	0.99608	0.9961 ± 0.0014	D_A/Gpc	13.8932	13.890 ± 0.033
$\boldsymbol{n_s}$	0.9652	0.9646 ± 0.0053	H_0	64.90	$64.7^{+2.6}_{-1.9}$	z_{drag}	1059.551	1059.54 ± 0.32
$\boldsymbol{y_{cal}}$	1.00006	1.0002 ± 0.0024	Ω_Λ	0.6550	$0.651^{+0.039}_{-0.024}$	r_{drag}	147.351	147.32 ± 0.34
$\boldsymbol{A^{CIB}_{217}}$	67.9	64.6 ± 6.6	Ω_m	0.3450	$0.349^{+0.024}_{-0.039}$	k_D	0.140512	0.14055 ± 0.00035
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$\Omega_m h^2$	0.14532	$0.1456^{+0.0026}_{-0.0034}$	$100\theta_D$	0.160929	0.16092 ± 0.00018
$\boldsymbol{A^{tSZ}_{143}}$	7.30	5.28 ± 1.9	$\Omega_\nu h^2$	0.00366	< 0.00498	z_{eq}	3385.3	3386 ± 35
$\boldsymbol{A^{PS}_{100}}$	258.3	262 ± 28	$\Omega_m h^3$	0.09432	$0.0942^{+0.0018}_{-0.0011}$	k_{eq}	0.010335	0.01034 ± 0.00011
$\boldsymbol{A^{PS}_{143}}$	39.1	44 ± 8	σ_8	0.7746	$0.770^{+0.046}_{-0.029}$	$100\theta_{eq}$	0.8161	0.8162 ± 0.0066
$\boldsymbol{A^{PS}_{143\times217}}$	33.1	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4549	0.4535 ± 0.0071	$100\theta_{s,eq}$	0.45097	0.4510 ± 0.0034
$\boldsymbol{A^{PS}_{217}}$	97.0	97 ± 10	$\sigma_8\Omega_m^{0.25}$	0.5936	$0.591^{+0.020}_{-0.013}$	$r_{drag}/D_V(0.57)$	0.06990	$0.0698^{+0.0017}_{-0.0013}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.61	$\sigma_8/h^{0.5}$	0.9614	$0.956^{+0.037}_{-0.024}$	$H(0.57)$	91.57	$91.5^{+1.3}_{-1.0}$
$\boldsymbol{A^{dustTT}_{100}}$	7.44	7.45 ± 1.9	$\langle d^2\rangle^{1/2}$	2.4936	$2.496^{+0.041}_{-0.049}$	$D_A(0.57)$	1427.0	1430^{+27}_{-40}
$\boldsymbol{A^{dustTT}_{143}}$	9.02	9.02 ± 1.8	z_{re}	11.22	$11.0^{+2.6}_{-2.2}$	$F_{AP}(0.57)$	0.6843	$0.6851^{+0.0060}_{-0.0091}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.54	17.2 ± 4.1	$10^9 A_s$	2.252	2.25 ± 0.11	$f\sigma_8(0.57)$	0.4622	$0.459^{+0.017}_{-0.0099}$
$\boldsymbol{A^{dustTT}_{217}}$	81.7	81.7 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8768	1.877 ± 0.012	$\sigma_8(0.57)$	0.5705	$0.567^{+0.040}_{-0.026}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0814 ± 0.0057	D_{40}	1236.4	1237 ± 12	f^{143}_{2000}	29.98	30.3 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04905	0.0489 ± 0.0050	D_{220}	5723.6	5728 ± 38	$f^{143\times217}_{2000}$	32.73	32.9 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0984	0.0997 ± 0.032	D_{810}	2533.7	2534 ± 13	f^{217}_{2000}	106.29	106.4 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1003 ± 0.0068	D_{1420}	814.70	814.8 ± 4.7	$\chi^2_{lensing}$	9.10	10.0 ± 1.8
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2246	0.225 ± 0.047	D_{2000}	229.93	229.9 ± 1.6	χ^2_{lowl}	14.34	14.6 ± 1.1
$\boldsymbol{A^{dustEE}_{217}}$	0.654	0.65 ± 0.13	$n_{s,0.002}$	0.9652	0.9646 ± 0.0053	χ^2_{plik}	2434.8	2453.8 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1415	0.140 ± 0.038	Y_P	0.245321	0.245311 ± 0.000079	χ^2_{prior}	7.14	19.5 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1308	0.131 ± 0.029	Y_P^{BBN}	0.246647	0.246637 ± 0.000079	χ^2_{CMB}	2458.2	2478.4 ± 6.7

Best-fit $\chi^2_{eff} = 2465.39$; $\bar{\chi}^2_{eff} = 2497.84$; $R - 1 = 0.01148$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.10 commander_rc2_v1.1_l2_29_B: 14.34 plik_dx11dr2_HM_v18_TTTEEE: 2434.80

7.27 base_mnu_plikHM_TTTEEE_lowl_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022289	0.02230 ± 0.00014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.334	0.333 ± 0.081	$100\theta_*$	1.041071	1.04112 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11924	0.1185 ± 0.0013	$\boldsymbol{A^{dustTE}_{217}}$	1.651	1.66 ± 0.26	D_A/Gpc	13.8987	13.914 ± 0.026
$\boldsymbol{100\theta_{MC}}$	1.040888	1.04090 ± 0.00029	$\boldsymbol{c_{100}}$	0.99818	$0.99811^{+0.00085}_{-0.00075}$	z_{drag}	1059.704	1059.68 ± 0.30
$\boldsymbol{\tau}$	0.0597	$0.073^{+0.017}_{-0.023}$	$\boldsymbol{c_{217}}$	0.99608	0.9960 ± 0.0014	r_{drag}	147.388	147.55 ± 0.27
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.033	< 0.140	H_0	67.84	$67.41^{+0.74}_{-0.61}$	k_D	0.140487	0.14034 ± 0.00030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0520	$3.076^{+0.032}_{-0.043}$	Ω_Λ	0.6917	$0.6873^{+0.0093}_{-0.0075}$	$100\theta_D$	0.160893	0.16090 ± 0.00017
$\boldsymbol{n_s}$	0.96595	0.9674 ± 0.0046	Ω_m	0.3083	$0.3127^{+0.0075}_{-0.0093}$	z_{eq}	3382.1	3366 ± 28
$\boldsymbol{y_{cal}}$	0.99987	1.0001 ± 0.0024	$\Omega_m h^2$	0.14188	0.1420 ± 0.0011	k_{eq}	0.010322	0.010273 ± 0.000086
$\boldsymbol{A^{CIB}_{217}}$	67.2	64.2 ± 6.6	$\Omega_\nu h^2$	0.00036	< 0.00151	$100\theta_{eq}$	0.8166	$0.8198^{+0.0051}_{-0.0059}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.06	—	$\Omega_m h^3$	0.09626	$0.09574^{+0.00064}_{-0.00043}$	$100\theta_{s,eq}$	0.45118	$0.4528^{+0.0026}_{-0.0030}$
$\boldsymbol{A^{tSZ}_{143}}$	7.25	5.34 ± 1.9	σ_8	0.8201	$0.810^{+0.015}_{-0.012}$	$r_{drag}/D_V(0.57)$	0.071760	$0.07154^{+0.00049}_{-0.00042}$
$\boldsymbol{A^{PS}_{100}}$	256.2	261 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4553	0.4529 ± 0.0063	$H(0.57)$	93.145	$92.86^{+0.40}_{-0.32}$
$\boldsymbol{A^{PS}_{143}}$	39.4	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6111	$0.6056^{+0.0092}_{-0.0078}$	$D_A(0.57)$	1384.2	$1390.8^{+8.5}_{-11}$
$\boldsymbol{A^{PS}_{143\times217}}$	34.3	39 ± 10	$\sigma_8/h^{0.5}$	0.9957	$0.987^{+0.015}_{-0.013}$	$F_{AP}(0.57)$	0.67520	$0.6763^{+0.0019}_{-0.0023}$
$\boldsymbol{A^{PS}_{217}}$	97.3	97 ± 10	$\langle d^2\rangle^{1/2}$	2.4504	2.458 ± 0.029	$f\sigma_8(0.57)$	0.4756	$0.4722^{+0.0065}_{-0.0057}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.47	z_{re}	8.23	$9.36^{+1.8}_{-2.0}$	$\sigma_8(0.57)$	0.6107	$0.603^{+0.012}_{-0.0095}$
$\boldsymbol{A^{dustTT}_{100}}$	7.50	7.43 ± 1.9	$10^9 A_s$	2.116	$2.169^{+0.067}_{-0.094}$	f^{143}_{2000}	29.59	29.8 ± 2.7
$\boldsymbol{A^{dustTT}_{143}}$	9.07	9.05 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8776	1.874 ± 0.012	$f^{143\times217}_{2000}$	32.41	32.4 ± 1.9
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.83	17.3 ± 4.1	D_{40}	1228.9	1231 ± 11	f^{217}_{2000}	105.93	105.9 ± 1.9
$\boldsymbol{A^{dustTT}_{217}}$	82.2	82.0 ± 7.4	D_{220}	5722.2	5725 ± 37	$\chi^2_{lensing}$	10.06	10.4 ± 2.0
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0818 ± 0.0057	D_{810}	2533.6	2533 ± 13	χ^2_{lowl}	13.65	13.78 ± 0.86
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04888	0.0491 ± 0.0049	D_{1420}	814.82	814.8 ± 4.6	χ^2_{plik}	2435.1	2453.6 ± 6.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0989	0.0996 ± 0.033	D_{2000}	230.16	230.2 ± 1.5	χ^2_{6DF}	0.0103	0.09 ± 0.11
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1008 ± 0.0067	$n_{s,0.002}$	0.96595	0.9674 ± 0.0046	χ^2_{MGS}	1.41	1.20 ± 0.53
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2255	0.224 ± 0.047	Y_P	0.245357	$0.245362^{+0.000072}_{-0.000062}$	$\chi^2_{DR11CMASS}$	2.41	3.05 ± 0.93
$\boldsymbol{A^{dustEE}_{217}}$	0.653	0.65 ± 0.13	Y_P^{BBN}	0.246684	$0.246689^{+0.000072}_{-0.000063}$	$\chi^2_{DR11LOWZ}$	0.48	0.95 ± 0.74
$\boldsymbol{A^{dustTE}_{100}}$	0.1416	0.142 ± 0.038	10^5D/H	2.6066	2.604 ± 0.027	χ^2_{prior}	6.98	19.7 ± 5.6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1326	0.132 ± 0.029	Age/Gyr	13.7857	$13.821^{+0.033}_{-0.046}$	χ^2_{CMB}	2458.8	2477.8 ± 6.6
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.300	$0.301^{+0.093}_{-0.083}$	z_*	1089.951	1089.88 ± 0.26	χ^2_{BAO}	4.31	5.28 ± 1.4
$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.153 ± 0.055	r_*	144.696	144.86 ± 0.27			

Best-fit $\chi^2_{\rm eff} = 2470.12$; $\bar{\chi}^2_{\rm eff} = 2502.70$; $R - 1 = 0.03617$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 10.06 commander_rc2_v1.1_l2_29_B: 13.65 plik_dx11dr2_HM_v18_TTTEEE:

2435.11

7.28 base_mnu_plikHM_TTTEEE_lowl_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022280	0.02232 ± 0.00014	$\boldsymbol{A_{217}^{dustTE}}$	1.672	1.66 ± 0.26	z_{drag}	1059.666	$1059.70^{+0.32}_{-0.29}$
$\boldsymbol{\Omega_c h^2}$	0.11919	$0.1184^{+0.0013}_{-0.0011}$	$\boldsymbol{c_{100}}$	0.99813	$0.99812^{+0.00086}_{-0.00075}$	r_{drag}	147.414	147.57 ± 0.27
$\boldsymbol{100\theta_{MC}}$	1.040901	1.04092 ± 0.00029	$\boldsymbol{c_{217}}$	0.99608	0.9960 ± 0.0014	k_D	0.140453	0.14033 ± 0.00029
$\boldsymbol{\tau}$	0.0573	$0.072^{+0.016}_{-0.022}$	H_0	68.06	$67.60^{+0.67}_{-0.57}$	$100\theta_D$	0.160907	0.16088 ± 0.00017
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.002	< 0.122	Ω_Λ	0.6946	$0.6896^{+0.0085}_{-0.0069}$	z_{eq}	3380.6	3363^{+29}_{-26}
$\boldsymbol{\ln(10^{10} A_s)}$	3.0470	$3.074^{+0.030}_{-0.041}$	Ω_m	0.3054	$0.3104^{+0.0069}_{-0.0085}$	k_{eq}	0.010318	$0.010265^{+0.000088}_{-0.000079}$
$\boldsymbol{n_s}$	0.96579	0.9677 ± 0.0045	$\Omega_m h^2$	0.14149	$0.14178^{+0.00097}_{-0.0011}$	$100\theta_{eq}$	0.8168	$0.8202^{+0.0048}_{-0.0058}$
$\boldsymbol{y_{cal}}$	0.99986	1.0001 ± 0.0025	$\Omega_\nu h^2$	0.00003	< 0.00131	$100\theta_{s,eq}$	0.45130	$0.4530^{+0.0024}_{-0.0030}$
$\boldsymbol{A_{217}^{CIB}}$	67.9	64.2 ± 6.6	$\Omega_m h^3$	0.096306	$0.09583^{+0.00059}_{-0.00039}$	$r_{drag}/D_V(0.57)$	0.071905	$0.07166^{+0.00045}_{-0.00040}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	σ_8	0.8231	$0.812^{+0.014}_{-0.011}$	$H(0.57)$	93.250	$92.95^{+0.38}_{-0.29}$
$\boldsymbol{A_{143}^{tSZ}}$	7.32	5.36 ± 1.9	$\sigma_8 \Omega_m^{0.5}$	0.4549	0.4525 ± 0.0062	$D_A(0.57)$	1381.2	$1388.2^{+7.9}_{-9.6}$
$\boldsymbol{A_{100}^{PS}}$	256.9	261 ± 28	$\sigma_8 \Omega_m^{0.25}$	0.6119	$0.6063^{+0.0089}_{-0.0076}$	$F_{AP}(0.57)$	0.67448	$0.6757^{+0.0018}_{-0.0021}$
$\boldsymbol{A_{143}^{PS}}$	38.4	43 ± 8	$\sigma_8/h^{0.5}$	0.9976	$0.988^{+0.014}_{-0.012}$	$f\sigma_8(0.57)$	0.4759	$0.4727^{+0.0062}_{-0.0056}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	39 ± 10	$\langle d^2 \rangle^{1/2}$	2.4484	2.456 ± 0.029	$\sigma_8(0.57)$	0.6133	$0.605^{+0.011}_{-0.0090}$
$\boldsymbol{A_{217}^{PS}}$	96.3	97 ± 10	z_{re}	7.98	$9.30^{+1.7}_{-1.9}$	f_{2000}^{143}	29.74	29.7 ± 2.7
$\boldsymbol{A^{kSZ}}$	0.00	< 4.45	$10^9 A_s$	2.105	$2.165^{+0.063}_{-0.090}$	$f_{2000}^{143\times217}$	32.51	32.3 ± 1.9
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.42 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8773	1.874 ± 0.012	f_{2000}^{217}	106.05	105.8 ± 1.9
$\boldsymbol{A_{143}^{dustTT}}$	9.13	9.04 ± 1.8	D_{40}	1228.2	1230 ± 11	$\chi^2_{lensing}$	9.95	10.4 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.65	17.3 ± 4.1	D_{220}	5722.3	5726 ± 37	χ^2_{lowl}	13.62	13.73 ± 0.84
$\boldsymbol{A_{217}^{dustTT}}$	81.7	$81.9^{+7.9}_{-7.2}$	D_{810}	2533.1	2532 ± 13	χ^2_{plik}	2435.1	2453.6 ± 6.8
$\boldsymbol{A_{100}^{dustEE}}$	0.0814	0.0818 ± 0.0057	D_{1420}	814.54	814.9 ± 4.6	χ^2_{H070p6}	0.584	0.85 ± 0.34
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04905	0.0492 ± 0.0049	D_{2000}	230.04	230.3 ± 1.5	χ^2_{JLA}	706.602	706.76 ± 0.23
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0989	0.0997 ± 0.033	$n_{s,0.002}$	0.96579	0.9677 ± 0.0045	χ^2_{6DF}	0.0009	0.060 ± 0.084
$\boldsymbol{A_{143}^{dustEE}}$	0.1004	0.1008 ± 0.0067	Y_P	0.245353	$0.245369^{+0.000070}_{-0.000061}$	χ^2_{MGS}	1.61	1.34 ± 0.52
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2258	0.225 ± 0.047	Y_P^{BBN}	0.246679	$0.246695^{+0.000070}_{-0.000061}$	$\chi^2_{DR11CMASS}$	2.444	2.87 ± 0.69
$\boldsymbol{A_{217}^{dustEE}}$	0.653	0.66 ± 0.13	10^5D/H	2.6083	2.601 ± 0.027	$\chi^2_{DR11LOWZ}$	0.323	0.74 ± 0.61
$\boldsymbol{A_{100}^{dustTE}}$	0.1404	0.142 ± 0.038	Age/Gyr	13.7754	$13.811^{+0.029}_{-0.043}$	χ^2_{prior}	7.11	19.7 ± 5.6
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1314	0.132 ± 0.029	z_*	1089.958	1089.85 ± 0.25	χ^2_{CMB}	2458.6	2477.8 ± 6.6
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.303	$0.301^{+0.094}_{-0.083}$	r_*	144.717	144.88 ± 0.27	χ^2_{BAO}	4.38	5.02 ± 1.0
$\boldsymbol{A_{143}^{dustTE}}$	0.156	0.153 ± 0.055	$100\theta_*$	1.041061	1.04113 ± 0.00029			
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.339	0.333 ± 0.081	D_A/Gpc	13.9009	13.916 ± 0.025			

Best-fit $\chi^2_{eff} = 3177.29$; $\bar{\chi}^2_{eff} = 3210.11$; $R - 1 = 0.04365$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.95 commander_rc2_v1.1_l2_29_B: 13.62 plik_dx11dr2_HM_v18_TTTEEE: 2435.06 Hubble - H070p6: 0.58 SN - JLA December_2013: 706.60

7.29 base_mnu_CamSpecHM_TT_lowl_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022172	0.02219 ± 0.00028 $(+0.1\sigma)$	H_0	64.97	$64.7^{+3.1}_{-2.6}$ $(+0.1\sigma)$	$100\theta_*$	1.04123	1.04125 ± 0.00051 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11874	0.1185 ± 0.0026 (-0.2σ)	Ω_Λ	0.6569	$0.650^{+0.048}_{-0.031}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.40	1059.47 ± 0.51 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04086	1.04088 ± 0.00055 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3431	$0.350^{+0.031}_{-0.048}$ (-0.1σ)	$r_{\rm drag}$	147.57	147.56 ± 0.55 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.1005	0.106 ± 0.031 $(+0.2\sigma)$	$\Omega_{\rm m}h^2$	0.14482	$0.1452^{+0.0037}_{-0.0044}$ (-0.1σ)	$k_{\rm D}$	0.14028	0.14033 ± 0.00055 (-0.1σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.363	$0.42^{+0.18}_{-0.36}$ (-0.0σ)	$\Omega_\nu h^2$	0.00391	$0.0045^{+0.0019}_{-0.0039}$ (-0.0σ)	$100\theta_{\rm D}$	0.161002	0.16095 ± 0.00028 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.128	3.138 ± 0.057 $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09409	$0.0938^{+0.0020}_{-0.0015}$ $(+0.0\sigma)$	$z_{\rm eq}$	3367	3362 ± 57 (-0.2σ)
$\boldsymbol{n_s}$	0.9687	0.9698 ± 0.0079 $(+0.4\sigma)$	σ_8	0.7731	$0.765^{+0.051}_{-0.036}$ $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8194	0.821 ± 0.011 $(+0.2\sigma)$
$\boldsymbol{y_{cal}}$	0.99988	1.0001 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4529	0.4509 ± 0.0095 (-0.0σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07001	0.0698 ± 0.0018 $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	251.3	246 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.5917	$0.587^{+0.021}_{-0.015}$ $(+0.1\sigma)$	$H(0.57)$	91.54	91.4 ± 1.3 $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{143}}$	35.8	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9592	$0.952^{+0.041}_{-0.028}$ $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1426.6	1432^{+37}_{-48} (-0.1σ)
$\boldsymbol{A^{PS}_{217}}$	95.2	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.493	$2.503^{+0.046}_{-0.055}$ (-0.0σ)	$F_{\rm AP}(0.57)$	0.6838	$0.6852^{+0.0081}_{-0.011}$ (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	47.2	46 ± 7 (-2.7σ)	$z_{\rm re}$	12.02	$12.3^{+2.9}_{-2.3}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4613	$0.457^{+0.019}_{-0.012}$ $(+0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	2.69	$3.21^{+1.3}_{-2.6}$ (-1.0σ)	$10^9A_{\rm s}$	2.283	2.31 ± 0.13 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.5700	$0.564^{+0.045}_{-0.033}$ $(+0.1\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.401	$0.52^{+0.10}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8667	1.866 ± 0.015 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	0.246216	0.24622 ± 0.00012 (-3.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.002	< 0.599 (-0.2σ)	D_{40}	1226.5	1225 ± 13 (-0.6σ)	f^{143}_{2000}	29.89	29.1 ± 3.1 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	6.09	$5.41^{+4.0}_{-2.0}$ $(+0.7\sigma)$	D_{220}	5690.3	5694 ± 40 (-0.5σ)	f^{217}_{2000}	107.13	106.6 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.990	0.99 ± 0.19	D_{810}	2525.5	2527 ± 14 (-0.3σ)	$f^{143\times217}_{2000}$	32.28	32.0 ± 2.3 (-0.4σ)
$\boldsymbol{A^{dust}_{143}}$	1.035	1.03 ± 0.18	D_{1420}	813.2	814.4 ± 5.1 (-0.0σ)	$\chi^2_{\rm lensing}$	8.49	9.81 ± 1.6 (-0.1σ)
$\boldsymbol{A^{dust}_{217}}$	1.228	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9687	0.9698 ± 0.0079 $(+0.4\sigma)$	$\chi^2_{\rm lowl}$	13.70	13.9 ± 1.2 (-0.4σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.955	0.98 ± 0.18	$Y_{\rm P}$	0.244888	0.24490 ± 0.00012 (-3.1σ)	$\chi^2_{\rm CamSpec}$	8046.3	8061.2 ± 5.8
$\boldsymbol{c_{100}}$	0.99654	0.99673 ± 0.00097 (-1.5σ)	Age/Gyr	13.966	$13.99^{+0.14}_{-0.18}$ (-0.1σ)	$\chi^2_{\rm CMB}$	8068.5	8084.9 ± 5.8 $(+1295.1\sigma)$
$\boldsymbol{c_{217}}$	0.99757	0.9972 ± 0.0018 $(+0.9\sigma)$	z_*	1090.10	1090.09 ± 0.57 (-0.2σ)			
$\boldsymbol{\beta^1_1}$	-0.09	-0.1 ± 1.0	r_*	144.84	144.83 ± 0.58 $(+0.2\sigma)$			

Best-fit $\chi^2_{\rm eff} = 8072.39$; $\Delta\chi^2_{\rm eff} = 7281.98$; $\bar{\chi}^2_{\rm eff} = 8093.34$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.26$; $R - 1 = 0.01168$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 8.49 (Δ -0.14) commander_rc2_v1.1_l2_29_B: 13.70 (Δ -0.29) CamSpec like_v9.10CMH_unified: 8046.28

7.30 base_mnu_CamSpecHM_TT_lowl_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02235 \pm 0.00022 \quad (+0.1\sigma)$	Ω_m	$0.3108 \pm 0.0089 \quad (-0.0\sigma)$	$100\theta_D$	$0.16089 \pm 0.00026 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1170 \pm 0.0019 \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1413 \pm 0.0013 \quad (-0.1\sigma)$	z_{eq}	$3331 \pm 44 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04119 \pm 0.00045 \quad (+0.1\sigma)$	$\Omega_\nu h^2$	$0.00194^{+0.00060}_{-0.0019} \quad (+0.1\sigma)$	$100\theta_{eq}$	$0.8267^{+0.0081}_{-0.0094} \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.095^{+0.027}_{-0.034} \quad (+0.2\sigma)$	$\Omega_m h^3$	$0.09532^{+0.00091}_{-0.00070} \quad (-0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07167 \pm 0.00049 \quad (+0.0\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$0.181^{+0.056}_{-0.17} \quad (+0.1\sigma)$	σ_8	$0.806^{+0.019}_{-0.015} \quad (+0.1\sigma)$	$H(0.57)$	$92.78^{+0.48}_{-0.39} \quad (-0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.114^{+0.049}_{-0.063} \quad (+0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.4490 \pm 0.0082 \quad (+0.0\sigma)$	$D_A(0.57)$	$1391^{+10}_{-12} \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.9739^{+0.0062}_{-0.0073} \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.601^{+0.012}_{-0.0099} \quad (+0.1\sigma)$	$F_{AP}(0.57)$	$0.6758 \pm 0.0023 \quad (-0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0000 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.019}_{-0.016} \quad (+0.1\sigma)$	$f\sigma_8(0.57)$	$0.4703^{+0.0082}_{-0.0070} \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$244 \pm 23 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.466 \pm 0.034 \quad (+0.0\sigma)$	$\sigma_8(0.57)$	$0.600^{+0.014}_{-0.012} \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.7\sigma)$	z_{re}	$11.3 \pm 2.5 \quad (+0.2\sigma)$	Y_P^{BBN}	$0.246295 \pm 0.000093 \quad (-4.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$10^9 A_s$	$2.25^{+0.10}_{-0.15} \quad (+0.2\sigma)$	f_{2000}^{143}	$28.3 \pm 3.0 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.862 \pm 0.014 \quad (-0.4\sigma)$	f_{2000}^{217}	$105.9 \pm 2.1 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.28^{+1.4}_{-2.7} \quad (-0.9\sigma)$	D_{40}	$1220 \pm 12 \quad (-0.6\sigma)$	$f_{2000}^{143\times217}$	$31.3 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.13}$	D_{220}	$5698 \pm 39 \quad (-0.5\sigma)$	$\chi^2_{lensing}$	$9.84 \pm 1.7 \quad (-0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.592 \quad (-0.2\sigma)$	D_{810}	$2526 \pm 14 \quad (-0.3\sigma)$	χ^2_{lowl}	$13.15 \pm 0.84 \quad (-0.5\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.34^{+3.8}_{-2.3} \quad (+0.7\sigma)$	D_{1420}	$815.0 \pm 5.0 \quad (-0.0\sigma)$	$\chi^2_{CamSpec}$	8061.4 ± 5.8
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.9739^{+0.0062}_{-0.0073} \quad (+0.4\sigma)$	χ^2_{6DF}	$0.08 \pm 0.10 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	$0.244967^{+0.000089}_{-0.00010} \quad (-4.0\sigma)$	χ^2_{MGS}	$1.36 \pm 0.62 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	Age/Gyr	$13.837^{+0.043}_{-0.059} \quad (+0.0\sigma)$	$\chi^2_{DR11CMASS}$	$3.03 \pm 0.90 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.17	z_*	$1089.68 \pm 0.37 \quad (-0.2\sigma)$	$\chi^2_{DR11LOWZ}$	$0.80 \pm 0.72 \quad (-0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99674 \pm 0.00098 \quad (-1.5\sigma)$	r_*	$145.19 \pm 0.42 \quad (+0.1\sigma)$	χ^2_{prior}	$8.42 \pm 3.4 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.9\sigma)$	$100\theta_*$	$1.04145 \pm 0.00046 \quad (+0.1\sigma)$	χ^2_{CMB}	$8084.4 \pm 5.6 \quad (+1336.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	z_{drag}	$1059.68 \pm 0.45 \quad (+0.0\sigma)$	χ^2_{BAO}	$5.26 \pm 1.3 \quad (-0.0\sigma)$
H_0	$67.45 \pm 0.74 \quad (+0.0\sigma)$	r_{drag}	$147.88 \pm 0.43 \quad (+0.1\sigma)$		
Ω_Λ	$0.6892 \pm 0.0089 \quad (+0.0\sigma)$	k_D	$0.14006 \pm 0.00047 \quad (-0.0\sigma)$		

$\bar{\chi}^2_{eff} = 8098.12$; $\Delta\bar{\chi}^2_{eff} = 7282.28$; $R - 1 = 0.02604$

7.31 base_mnu_CamSpecHM_TT_lowl_lensing_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02237 ± 0.00021 $(+0.1\sigma)$	Ω_m	0.3082 ± 0.0083 (-0.0σ)	$100\theta_D$	0.16088 ± 0.00025 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1169^{+0.0020}_{-0.0018}$ (-0.1σ)	$\Omega_m h^2$	0.1411 ± 0.0012 (-0.1σ)	z_{eq}	3329^{+45}_{-41} (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04121 ± 0.00045 $(+0.1\sigma)$	$\Omega_\nu h^2$	< 0.00222 $(+0.1\sigma)$	$100\theta_{eq}$	$0.8270^{+0.0077}_{-0.0092}$ $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.094^{+0.025}_{-0.033}$ $(+0.2\sigma)$	$\Omega_m h^3$	$0.09545^{+0.00085}_{-0.00067}$ (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07181 ± 0.00047 $(+0.0\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.207 $(+0.1\sigma)$	σ_8	$0.808^{+0.018}_{-0.014}$ $(+0.1\sigma)$	$H(0.57)$	$92.89^{+0.44}_{-0.37}$ (-0.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.112^{+0.047}_{-0.061}$ $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.4488 ± 0.0080 $(+0.0\sigma)$	$D_A(0.57)$	1388 ± 10 $(+0.0\sigma)$
$\boldsymbol{n_s}$	$0.9742^{+0.0061}_{-0.0071}$ $(+0.4\sigma)$	$\sigma_8\Omega_m^{0.25}$	$0.602^{+0.012}_{-0.0095}$ $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6752 ± 0.0021 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	$0.983^{+0.019}_{-0.015}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	$0.4710^{+0.0079}_{-0.0068}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244 ± 23 (-0.5σ)	$\langle d^2 \rangle^{1/2}$	2.464 ± 0.033 $(+0.0\sigma)$	$\sigma_8(0.57)$	$0.603^{+0.014}_{-0.012}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	37 ± 8 (-0.7σ)	z_{re}	11.2 ± 2.4 $(+0.2\sigma)$	Y_P^{BBN}	0.246302 ± 0.000092 (-4.1σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9 A_s$	$2.249^{+0.099}_{-0.14}$ $(+0.1\sigma)$	f_{2000}^{143}	28.2 ± 3.0 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.862 ± 0.014 (-0.4σ)	f_{2000}^{217}	105.9 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.30^{+1.4}_{-2.7}$ (-0.9σ)	D_{40}	1220 ± 12 (-0.6σ)	$f_{2000}^{143\times217}$	31.2 ± 2.2 (-0.4σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.13}$	D_{220}	5699 ± 39 (-0.5σ)	$\chi^2_{lensing}$	9.89 ± 1.7 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.587 (-0.2σ)	D_{810}	2526 ± 14 (-0.3σ)	χ^2_{lowl}	13.09 ± 0.83 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	$5.32^{+3.8}_{-2.3}$ $(+0.7\sigma)$	D_{1420}	815.1 ± 5.0 (-0.0σ)	$\chi^2_{CamSpec}$	8061.5 ± 5.8
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.9742^{+0.0061}_{-0.0071}$ $(+0.4\sigma)$	χ^2_{H070p6}	0.82 ± 0.37 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	$0.244975^{+0.000089}_{-0.00010}$ (-4.1σ)	χ^2_{JLA}	706.72 ± 0.22 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	Age/Gyr	$13.825^{+0.041}_{-0.054}$ $(+0.0\sigma)$	χ^2_{6DF}	0.055 ± 0.077 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.17	z_*	1089.65 ± 0.37 (-0.2σ)	χ^2_{MGS}	1.54 ± 0.62 $(+0.0\sigma)$
$\boldsymbol{c_{100}}$	0.99674 ± 0.00099 (-1.5σ)	r_*	145.21 ± 0.41 $(+0.1\sigma)$	$\chi^2_{DR11CMASS}$	2.92 ± 0.75 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04147 ± 0.00046 $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.60 ± 0.58 (-0.0σ)
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.98	z_{drag}	1059.71 ± 0.45 $(+0.0\sigma)$	χ^2_{prior}	8.42 ± 3.4 $(+0.3\sigma)$
H_0	67.66 ± 0.69 $(+0.0\sigma)$	r_{drag}	147.89 ± 0.42 $(+0.1\sigma)$	χ^2_{CMB}	8084.5 ± 5.6 $(+1331.4\sigma)$
Ω_Λ	0.6918 ± 0.0083 $(+0.0\sigma)$	k_D	0.14005 ± 0.00046 $(+0.0\sigma)$	χ^2_{BAO}	5.11 ± 1.1 $(+0.0\sigma)$

$\bar{\chi}^2_{eff} = 8805.54$; $\Delta\bar{\chi}^2_{eff} = 7282.31$; $R - 1 = 0.02741$

7.32 base_mnu_CamSpecHM_TTTEEE_lowl_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022337	0.02232 ± 0.00018 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.00108	1.0008 ± 0.0043	z_*	1089.852	1089.93 ± 0.35 (-0.7σ)
$\boldsymbol{\Omega_c h^2}$	0.11873	0.1188 ± 0.0016 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.04	-0.1 ± 1.0	r_*	144.759	144.69 ± 0.35 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040796	1.04075 ± 0.00033 $(+0.2\sigma)$	H_0	66.24	$65.2^{+2.7}_{-1.8}$ $(+0.2\sigma)$	$100\theta_*$	1.041090	1.04108 ± 0.00031 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0854	$0.094^{+0.026}_{-0.030}$ $(+0.2\sigma)$	Ω_Λ	0.6727	$0.658^{+0.038}_{-0.022}$ $(+0.2\sigma)$	$z_{\rm drag}$	1059.780	1059.77 ± 0.34 $(+0.7\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.233	< 0.437 (-0.1σ)	$\Omega_{\rm m}$	0.3273	$0.342^{+0.022}_{-0.038}$ (-0.2σ)	$r_{\rm drag}$	147.436	147.37 ± 0.34 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.099	$3.116^{+0.050}_{-0.057}$ $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.14358	$0.1448^{+0.0025}_{-0.0035}$ (-0.3σ)	$k_{\rm D}$	0.140513	0.14061 ± 0.00036 $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.9683	0.9683 ± 0.0053 $(+0.7\sigma)$	$\Omega_\nu h^2$	0.00251	< 0.00470 (-0.1σ)	$100\theta_{\rm D}$	0.160797	0.16077 ± 0.00020 (-0.9σ)
$\boldsymbol{y_{cal}}$	1.00014	1.0001 ± 0.0025 (-0.0σ)	$\Omega_{\rm m} h^3$	0.09510	$0.0944^{+0.0018}_{-0.0010}$ $(+0.2\sigma)$	$z_{\rm eq}$	3371.1	3373 ± 35 (-0.4σ)
$\boldsymbol{A_{100}^{PS}}$	248.6	245 ± 22 (-0.6σ)	σ_8	0.7916	$0.774^{+0.046}_{-0.027}$ $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8189	0.8189 ± 0.0067 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	34.8	39 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4528	$0.4512^{+0.0077}_{-0.0070}$ (-0.3σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07076	$0.0701^{+0.0017}_{-0.0012}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	95.6	98 ± 10 $(+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5987	$0.591^{+0.020}_{-0.012}$ $(+0.0\sigma)$	$H(0.57)$	92.25	$91.8^{+1.4}_{-0.94}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47.3	46 ± 7 (-2.9σ)	$\sigma_8/h^{0.5}$	0.9726	$0.958^{+0.037}_{-0.022}$ $(+0.0\sigma)$	$D_{\rm A}(0.57)$	1407.5	1423^{+25}_{-41} (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.22	$3.33^{+1.5}_{-2.5}$ (-1.0σ)	$\langle d^2 \rangle^{1/2}$	2.4697	$2.487^{+0.039}_{-0.053}$ (-0.2σ)	$F_{\rm AP}(0.57)$	0.6800	$0.6834^{+0.0055}_{-0.0091}$ (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.407	$0.51^{+0.11}_{-0.12}$	$z_{\rm re}$	10.63	11.3 ± 2.4 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4670	$0.460^{+0.017}_{-0.0093}$ $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.600 (-0.2σ)	$10^9 A_{\rm s}$	2.218	$2.26^{+0.11}_{-0.13}$ $(+0.1\sigma)$	$\sigma_8(0.57)$	0.5864	$0.571^{+0.040}_{-0.024}$ $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	5.27	$5.34^{+3.8}_{-2.3}$ $(+0.7\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	1.8700	1.869 ± 0.012 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246288	0.246279 ± 0.000077 (-4.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.993	0.99 ± 0.19	D_{40}	1227.7	1227 ± 12 (-0.8σ)	f_{2000}^{143}	29.18	28.8 ± 2.7 (-0.6σ)
$\boldsymbol{A_{143}^{dust}}$	1.042	1.03 ± 0.18	D_{220}	5709.4	5710 ± 39 (-0.5σ)	f_{2000}^{217}	106.51	106.3 ± 1.9 (-0.1σ)
$\boldsymbol{A_{217}^{dust}}$	1.214	1.21 ± 0.12	D_{810}	2528.2	2529 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.61	31.6 ± 2.0 (-0.7σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.960	0.98 ± 0.18	D_{1420}	814.38	815.0 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm CamSpec}$	12937.6	12954.3 ± 6.1
$\boldsymbol{c_{100}}$	0.99659	0.99676 ± 0.00097 (-1.8σ)	$n_{\rm s,0.002}$	0.9683	0.9683 ± 0.0053 $(+0.7\sigma)$	$\chi^2_{\rm CMB}$	12960.0	12978.0 ± 6.2 $(+1559.2\sigma)$
$\boldsymbol{c_{217}}$	0.99724	0.9971 ± 0.0018 $(+0.7\sigma)$	$Y_{\rm P}$	0.244957	$0.244950^{+0.000069}_{-0.000083}$ (-4.6σ)			
$\boldsymbol{c_{TE}}$	1.00480	1.0048 ± 0.0044	Age/Gyr	13.884	$13.942^{+0.095}_{-0.16}$ (-0.2σ)			

Best-fit $\chi^2_{\rm eff} = 12963.90$; $\Delta\chi^2_{\rm eff} = 10498.52$; $\bar{\chi}^2_{\rm eff} = 12987.02$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.19$; $R - 1 = 0.01001$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 8.92 (Δ -0.18) commander_rc2_v1.1_l2_29_B: 13.50 (Δ -0.84) CamSpec like_v9.10CMH_unified: 12937.62

7.33 base_mnu_CamSpecHM_TTTEEE_lowl_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02240 ± 0.00016 $(+0.6\sigma)$	H_0	$67.51^{+0.73}_{-0.64}$ $(+0.2\sigma)$	$r_{\rm drag}$	147.54 ± 0.28 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1182 ± 0.0013 (-0.3σ)	Ω_Λ	$0.6886^{+0.0089}_{-0.0079}$ $(+0.2\sigma)$	$k_{\rm D}$	0.14043 ± 0.00031 $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04093 ± 0.00029 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.3114^{+0.0079}_{-0.0089}$ (-0.2σ)	$100\theta_{\rm D}$	0.16076 ± 0.00019 (-0.8σ)
$\boldsymbol{\tau}$	$0.077^{+0.020}_{-0.023}$ $(+0.2\sigma)$	$\Omega_{\rm m}h^2$	0.1419 ± 0.0011 (-0.1σ)	$z_{\rm eq}$	3359^{+31}_{-27} (-0.2σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.155 $(+0.2\sigma)$	$\Omega_\nu h^2$	< 0.00167 $(+0.2\sigma)$	$100\theta_{\rm eq}$	$0.8213^{+0.0052}_{-0.0061}$ $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.082 ± 0.039 $(+0.2\sigma)$	$\Omega_{\rm m}h^3$	$0.09579^{+0.00067}_{-0.00043}$ $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07160 ± 0.00045 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9701 ± 0.0048 $(+0.6\sigma)$	σ_8	$0.809^{+0.017}_{-0.012}$ (-0.1σ)	$H(0.57)$	$92.91^{+0.42}_{-0.33}$ $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001^{+0.0024}_{-0.0028}$ $(+0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4511 ± 0.0066 (-0.3σ)	$D_{\rm A}(0.57)$	$1389.4^{+8.8}_{-11}$ (-0.2σ)
$\boldsymbol{A^{PS}_{100}}$	245 ± 22 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.6040^{+0.0098}_{-0.0085}$ (-0.2σ)	$F_{\rm AP}(0.57)$	0.6760 ± 0.0021 (-0.2σ)
$\boldsymbol{A^{PS}_{143}}$	38 ± 8 (-0.7σ)	$\sigma_8/h^{0.5}$	$0.984^{+0.016}_{-0.014}$ (-0.2σ)	$f\sigma_8(0.57)$	0.4713 ± 0.0065 (-0.2σ)
$\boldsymbol{A^{PS}_{217}}$	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	$2.453^{+0.032}_{-0.029}$ (-0.2σ)	$\sigma_8(0.57)$	$0.602^{+0.013}_{-0.0099}$ (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.8σ)	$z_{\rm re}$	9.74 ± 1.9 $(+0.2\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246314 ± 0.000068 (-5.7σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.33^{+1.6}_{-2.4}$ (-1.1σ)	$10^9A_{\rm s}$	$2.181^{+0.079}_{-0.095}$ $(+0.2\sigma)$	f^{143}_{2000}	28.5 ± 2.7 (-0.5σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.868 ± 0.012 (-0.5σ)	f^{217}_{2000}	106.0 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.604 (-0.2σ)	D_{40}	1223 ± 11 (-0.7σ)	$f^{143\times217}_{2000}$	31.3 ± 2.0 (-0.6σ)
$\boldsymbol{A^{kSZ}}$	$5.30^{+3.6}_{-2.4}$ $(+0.8\sigma)$	D_{220}	5711 ± 39 (-0.4σ)	$\chi^2_{\rm lensing}$	9.98 ± 1.6 (-0.2σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	2528 ± 14 (-0.3σ)	$\chi^2_{\rm lowl}$	13.23 ± 0.80 (-0.7σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.19	D_{1420}	$815.0^{+4.6}_{-5.1}$ $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	12953.9 ± 6.2
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9701 ± 0.0048 $(+0.6\sigma)$	$\chi^2_{\rm 6DF}$	0.08 ± 0.10 (-0.1σ)
$\boldsymbol{A^{dust}_{143\times217}}$	$0.98^{+0.17}_{-0.19}$	$Y_{\rm P}$	0.244985 ± 0.000069 (-5.8σ)	$\chi^2_{\rm MGS}$	1.27 ± 0.55 $(+0.1\sigma)$
$\boldsymbol{c_{100}}$	0.99675 ± 0.00094 (-1.8σ)	Age/Gyr	$13.815^{+0.033}_{-0.048}$ (-0.1σ)	$\chi^2_{\rm DR11CMASS}$	3.00 ± 0.86 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	z_*	1089.72 ± 0.27 (-0.6σ)	$\chi^2_{\rm DR11LOWZ}$	0.86 ± 0.71 (-0.1σ)
$\boldsymbol{c_{TE}}$	1.0049 ± 0.0044	r_*	144.88 ± 0.28 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	9.12 ± 3.6 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0042	$100\theta_*$	1.04116 ± 0.00029 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	12977.1 ± 6.1 $(+1584.9\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$z_{\rm drag}$	1059.86 ± 0.33 $(+0.6\sigma)$	$\chi^2_{\rm BAO}$	5.20 ± 1.3 (-0.1σ)

$\bar{\chi}^2_{\rm eff} = 12991.43$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.73$; $R - 1 = 0.02543$

7.34 base_mnu_CamSpecHM_TTTEEE_lowl_lensing_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02241 \pm 0.00016 \quad (+0.6\sigma)$	Ω_Λ	$0.6908^{+0.0083}_{-0.0073} \quad (+0.2\sigma)$	$100\theta_{\rm D}$	$0.16076 \pm 0.00019 \quad (-0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1181 \pm 0.0012 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3092^{+0.0073}_{-0.0083} \quad (-0.2\sigma)$	$z_{\rm eq}$	$3357^{+30}_{-26} \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04095 \pm 0.00029 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1416 \pm 0.0010 \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8217^{+0.0050}_{-0.0059} \quad (+0.3\sigma)$
$\boldsymbol{\tau}$	$0.076^{+0.019}_{-0.022} \quad (+0.2\sigma)$	$\Omega_\nu h^2$	$< 0.00147 \quad (+0.2\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07172 \pm 0.00042 \quad (+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	$< 0.136 \quad (+0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09589^{+0.00061}_{-0.00041} \quad (+0.1\sigma)$	$H(0.57)$	$93.00^{+0.38}_{-0.31} \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.080^{+0.036}_{-0.041} \quad (+0.2\sigma)$	σ_8	$0.811^{+0.015}_{-0.012} \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1386.8^{+8.2}_{-9.8} \quad (-0.2\sigma)$
$\boldsymbol{n_s}$	$0.9704 \pm 0.0047 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4509 \pm 0.0065 \quad (-0.3\sigma)$	$F_{\rm AP}(0.57)$	$0.6754^{+0.0019}_{-0.0021} \quad (-0.2\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001^{+0.0024}_{-0.0028} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.6047^{+0.0096}_{-0.0082} \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4719 \pm 0.0063 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.016}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.604^{+0.012}_{-0.0095} \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38^{+7}_{-8} \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.452^{+0.032}_{-0.028} \quad (-0.2\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246319 \pm 0.000068 \quad (-5.8\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.67 \pm 1.8 \quad (+0.2\sigma)$	f_{2000}^{143}	$28.4 \pm 2.7 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.8\sigma)$	$10^9 A_{\rm s}$	$2.178^{+0.075}_{-0.091} \quad (+0.2\sigma)$	f_{2000}^{217}	$106.0 \pm 1.9 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.34^{+1.7}_{-2.3} \quad (-1.1\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.868 \pm 0.012 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$31.3 \pm 2.0 \quad (-0.6\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1223 \pm 11 \quad (-0.7\sigma)$	$\chi^2_{\rm lensing}$	$10.0 \pm 1.6 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.605 \quad (-0.2\sigma)$	D_{220}	$5711 \pm 39 \quad (-0.4\sigma)$	$\chi^2_{\rm lowl}$	$13.18 \pm 0.79 \quad (-0.6\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.29^{+3.6}_{-2.4} \quad (+0.8\sigma)$	D_{810}	$2528 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{\rm CamSpec}$	12953.9 ± 6.2
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.20	D_{1420}	$815.1^{+4.6}_{-5.1} \quad (+0.1\sigma)$	$\chi^2_{\rm H070p6}$	$0.80 \pm 0.33 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.19	$n_{\rm s,0.002}$	$0.9704 \pm 0.0047 \quad (+0.6\sigma)$	$\chi^2_{\rm JLA}$	$706.73 \pm 0.21 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.244990 \pm 0.000069 \quad (-5.9\sigma)$	$\chi^2_{\rm 6DF}$	$0.054 \pm 0.076 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	$0.98^{+0.16}_{-0.19}$	Age/Gyr	$13.805^{+0.032}_{-0.043} \quad (-0.1\sigma)$	$\chi^2_{\rm MGS}$	$1.42 \pm 0.55 \quad (+0.2\sigma)$
$\boldsymbol{c_{100}}$	$0.99674 \pm 0.00094 \quad (-1.8\sigma)$	z_*	$1089.69 \pm 0.27 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.86 \pm 0.66 \quad (-0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.90 \pm 0.27 \quad (+0.1\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.67 \pm 0.58 \quad (-0.1\sigma)$
$\boldsymbol{c_{TE}}$	1.0048 ± 0.0044	$100\theta_*$	$1.04117 \pm 0.00029 \quad (+0.1\sigma)$	$\chi^2_{\rm prior}$	$9.11 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0042	$z_{\rm drag}$	$1059.88 \pm 0.33 \quad (+0.6\sigma)$	$\chi^2_{\rm CMB}$	$12977.1 \pm 6.1 \quad (+1592.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	$147.56 \pm 0.28 \quad (-0.0\sigma)$	$\chi^2_{\rm BAO}$	$5.01 \pm 0.97 \quad (-0.0\sigma)$
H_0	$67.70^{+0.68}_{-0.59} \quad (+0.2\sigma)$	$k_{\rm D}$	$0.14042 \pm 0.00031 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 13698.75$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.64$; $R - 1 = 0.03447$

7.35 base_mnu_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022305	0.02211 ± 0.00026	Ω_m	0.2992	$0.344^{+0.024}_{-0.046}$	$100\theta_*$	1.041279	1.04102 ± 0.00048
$\boldsymbol{\Omega_c h^2}$	0.11815	$0.1199^{+0.0023}_{-0.0026}$	$\Omega_m h^2$	0.14049	$0.1451^{+0.0031}_{-0.0046}$	D_A/Gpc	13.922	$13.890^{+0.053}_{-0.047}$
$\boldsymbol{100\theta_{MC}}$	1.04112	1.04070 ± 0.00053	$\Omega_\nu h^2$	0.00004	< 0.00397	z_{drag}	1059.666	1059.36 ± 0.50
$\boldsymbol{\tau}$	0.0637	0.075 ± 0.018	$\Omega_m h^3$	0.09628	$0.0945^{+0.0018}_{-0.0010}$	r_{drag}	147.66	$147.35^{+0.55}_{-0.50}$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.003	< 0.369	σ_8	0.8248	$0.776^{+0.047}_{-0.025}$	k_D	0.14021	0.14044 ± 0.00053
$\boldsymbol{\ln(10^{10} A_s)}$	3.0571	3.083 ± 0.035	$\sigma_8 \Omega_m^{0.5}$	0.4511	0.4536 ± 0.0089	$100\theta_D$	0.160939	0.16105 ± 0.00028
$\boldsymbol{n_s}$	0.9692	0.9640 ± 0.0068	$\sigma_8 \Omega_m^{0.25}$	0.6100	$0.593^{+0.018}_{-0.011}$	z_{eq}	3357	3393^{+50}_{-56}
$\boldsymbol{y_{cal}}$	1.00003	1.0003 ± 0.0025	$\sigma_8/h^{0.5}$	0.9963	$0.961^{+0.035}_{-0.020}$	k_{eq}	0.010244	$0.01036^{+0.00015}_{-0.00017}$
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.9 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.4429	$2.471^{+0.032}_{-0.041}$	$100\theta_{eq}$	0.8215	0.8146 ± 0.0098
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	z_{re}	8.59	$9.72^{+1.9}_{-1.7}$	$100\theta_{s,eq}$	0.4537	0.4503 ± 0.0050
$\boldsymbol{A_{143}^{tSZ}}$	7.35	4.92 ± 1.9	$10^9 A_s$	2.127	2.184 ± 0.076	$r_{drag}/D_V(0.57)$	0.07228	$0.0701^{+0.0021}_{-0.0014}$
$\boldsymbol{A_{100}^{PS}}$	251.1	262 ± 28	$10^9 A_s e^{-2\tau}$	1.8721	1.879 ± 0.014	$H(0.57)$	93.43	$91.8^{+1.5}_{-1.0}$
$\boldsymbol{A_{143}^{PS}}$	38.1	46 ± 8	D_{40}	1221.7	1232 ± 13	$D_A(0.57)$	1375.2	1423^{+27}_{-47}
$\boldsymbol{A_{143\times217}^{PS}}$	32.1	39^{+10}_{-10}	D_{220}	5715.9	5715 ± 41	$F_{AP}(0.57)$	0.6729	$0.6838^{+0.0062}_{-0.011}$
$\boldsymbol{A_{217}^{PS}}$	96.8	97 ± 10	D_{810}	2531.8	2534 ± 14	$f\sigma_8(0.57)$	0.4752	$0.461^{+0.016}_{-0.0085}$
$\boldsymbol{A^{kSZ}}$	0.00	< 5.17	D_{1420}	815.1	814.3 ± 5.2	$\sigma_8(0.57)$	0.6162	$0.572^{+0.042}_{-0.023}$
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.47 ± 1.9	D_{2000}	230.35	229.5 ± 1.9	f_{2000}^{143}	29.64	31.2 ± 3.0
$\boldsymbol{A_{143}^{dustTT}}$	9.08	9.04 ± 1.8	$n_{s,0.002}$	0.9692	0.9640 ± 0.0068	$f_{2000}^{143\times217}$	32.30	33.5 ± 2.2
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.68	17.2 ± 4.2	Y_P	0.245364	0.24527 ± 0.00012	f_{2000}^{217}	105.91	106.9 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.8 ± 7.4	Y_P^{BBN}	0.246691	0.24660 ± 0.00012	$\chi^2_{lensing}$	9.38	9.49 ± 1.3
$\boldsymbol{c_{100}}$	0.99789	0.99788 ± 0.00078	10^5D/H	2.604	2.641 ± 0.051	χ^2_{lowTEB}	10494.67	10496.6 ± 1.9
$\boldsymbol{c_{217}}$	0.99593	0.9961 ± 0.0015	Age/Gyr	13.762	$13.941^{+0.097}_{-0.17}$	χ^2_{plik}	766.3	779.8 ± 5.5
H_0	68.53	$65.2^{+3.2}_{-2.0}$	z_*	1089.84	$1090.29^{+0.50}_{-0.60}$	χ^2_{prior}	2.23	7.48 ± 3.6
Ω_Λ	0.7008	$0.656^{+0.046}_{-0.024}$	r_*	144.97	$144.60^{+0.58}_{-0.51}$	χ^2_{CMB}	11270.3	11285.9 ± 5.6

Best-fit $\chi^2_{eff} = 11272.57$; $\bar{\chi}^2_{eff} = 11293.42$; $R - 1 = 0.00753$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.38 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.67 plik_dx11dr2_HM_v18_TT: 766.29

7.36 base_mnu_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022254	0.02219 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.304 ± 0.084	10^5D/H	2.6132	2.625 ± 0.033
$\boldsymbol{\Omega_c h^2}$	0.11935	0.1198 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	Age/Gyr	13.834	$13.915^{+0.071}_{-0.14}$
$\boldsymbol{100\theta_{MC}}$	1.040805	$1.04069^{+0.00037}_{-0.00034}$	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.339 ± 0.080	z_*	1090.013	$1090.17^{+0.32}_{-0.39}$
$\boldsymbol{\tau}$	0.0667	0.074 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.667	1.68 ± 0.25	r_*	144.686	144.56 ± 0.35
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.117	< 0.315	$\boldsymbol{c_{100}}$	0.99815	0.99815 ± 0.00078	$100\theta_*$	1.041032	1.04098 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0662	3.081 ± 0.033	$\boldsymbol{c_{217}}$	0.99607	0.9961 ± 0.0014	D_A/Gpc	13.8984	13.887 ± 0.033
$\boldsymbol{n_s}$	0.9654	0.9637 ± 0.0051	H_0	67.01	$65.6^{+2.5}_{-1.4}$	z_{drag}	1059.628	1059.54 ± 0.32
$\boldsymbol{y_{cal}}$	1.00002	1.0003 ± 0.0025	Ω_Λ	0.6818	$0.662^{+0.034}_{-0.017}$	r_{drag}	147.391	147.29 ± 0.34
$\boldsymbol{A^{CIB}_{217}}$	68.1	64.8 ± 6.6	Ω_m	0.3182	$0.338^{+0.017}_{-0.034}$	k_D	0.140465	0.14055 ± 0.00035
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14286	$0.1447^{+0.0022}_{-0.0034}$	$100\theta_D$	0.160924	0.16095 ± 0.00018
$\boldsymbol{A^{tSZ}_{143}}$	7.25	5.21 ± 1.9	$\Omega_\nu h^2$	0.00126	< 0.00339	z_{eq}	3383.8	3394 ± 34
$\boldsymbol{A^{PS}_{100}}$	258.1	263 ± 27	$\Omega_m h^3$	0.09573	$0.0949^{+0.0015}_{-0.00075}$	k_{eq}	0.010328	0.01036 ± 0.00011
$\boldsymbol{A^{PS}_{143}}$	39.1	44 ± 8	σ_8	0.8074	$0.783^{+0.040}_{-0.021}$	$100\theta_{eq}$	0.8162	0.8145 ± 0.0065
$\boldsymbol{A^{PS}_{143\times217}}$	32.8	40^{+10}_{-10}	$\sigma_8\Omega_m^{0.5}$	0.4554	0.4544 ± 0.0071	$100\theta_{s,eq}$	0.45099	0.4501 ± 0.0033
$\boldsymbol{A^{PS}_{217}}$	96.5	97 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6064	$0.597^{+0.017}_{-0.010}$	$r_{drag}/D_V(0.57)$	0.07123	$0.0703^{+0.0016}_{-0.00098}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.67	$\sigma_8/h^{0.5}$	0.9863	$0.967^{+0.032}_{-0.018}$	$H(0.57)$	92.69	$92.0^{+1.2}_{-0.71}$
$\boldsymbol{A^{dustTT}_{100}}$	7.50	7.47 ± 1.9	$\langle d^2\rangle^{1/2}$	2.4568	$2.472^{+0.030}_{-0.036}$	$D_A(0.57)$	1396.2	1417^{+20}_{-37}
$\boldsymbol{A^{dustTT}_{143}}$	9.05	9.01 ± 1.8	z_{re}	8.92	9.58 ± 1.6	$F_{AP}(0.57)$	0.6777	$0.6825^{+0.0045}_{-0.0083}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.50	17.2 ± 4.2	$10^9 A_s$	2.146	$2.180^{+0.069}_{-0.081}$	$f\sigma_8(0.57)$	0.4723	$0.464^{+0.014}_{-0.0076}$
$\boldsymbol{A^{dustTT}_{217}}$	81.5	81.8 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8781	1.880 ± 0.012	$\sigma_8(0.57)$	0.5995	$0.578^{+0.036}_{-0.018}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0812 ± 0.0056	D_{40}	1232.4	1236 ± 12	f^{143}_{2000}	30.00	30.5 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04916	0.0488 ± 0.0050	D_{220}	5723.1	5728 ± 39	$f^{143\times217}_{2000}$	32.70	33.0 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0989	0.100 ± 0.032	D_{810}	2533.9	2536 ± 14	f^{217}_{2000}	106.19	106.6 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1002 ± 0.0069	D_{1420}	814.64	814.8 ± 4.8	$\chi^2_{lensing}$	9.69	9.77 ± 1.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2243	0.224 ± 0.047	D_{2000}	230.00	229.8 ± 1.6	χ^2_{lowTEB}	10495.48	10496.7 ± 1.7
$\boldsymbol{A^{dustEE}_{217}}$	0.653	0.65 ± 0.13	$n_{s,0.002}$	0.9654	0.9637 ± 0.0051	χ^2_{plik}	2435.1	2454.3 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.1410	0.141 ± 0.038	Y_P	0.245342	$0.245311^{+0.000086}_{-0.000078}$	χ^2_{prior}	7.12	19.4 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1326	0.131 ± 0.029	Y_P^{BBN}	0.246668	0.246637 ± 0.000080	χ^2_{CMB}	12940.2	12960.8 ± 6.7

Best-fit $\chi^2_{eff} = 12947.35$; $\bar{\chi}^2_{eff} = 12980.23$; $R - 1 = 0.00848$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.69 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.48 plik_dx11dr2_HM_v18_TTTEEE: 2435.05

7.37 base_mnu_CamSpecHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022285	0.02214 ± 0.00026 $(+0.1\sigma)$	H_0	68.55	$65.5^{+3.2}_{-1.9}$ $(+0.1\sigma)$	$100\theta_*$	1.041319	1.04111 ± 0.00048 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11809	0.1196 ± 0.0023 (-0.1σ)	Ω_Λ	0.7012	$0.661^{+0.045}_{-0.022}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.589	1059.40 ± 0.50 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04114	1.04079 ± 0.00052 $(+0.2\sigma)$	$\Omega_{\rm m}$	0.2988	$0.339^{+0.022}_{-0.045}$ (-0.1σ)	$r_{\rm drag}$	147.70	147.40 ± 0.51 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0658	0.078 ± 0.018 $(+0.2\sigma)$	$\Omega_{\rm m} h^2$	0.14039	$0.1446^{+0.0029}_{-0.0046}$ (-0.1σ)	$k_{\rm D}$	0.14017	0.14042 ± 0.00052 (-0.0σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.341 (-0.1σ)	$\Omega_\nu h^2$	0.00001	< 0.00367 (-0.1σ)	$100\theta_{\rm D}$	0.160956	0.16102 ± 0.00027 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0595	3.086 ± 0.034 $(+0.1\sigma)$	$\Omega_{\rm m} h^3$	0.09623	$0.0946^{+0.0017}_{-0.00092}$ $(+0.1\sigma)$	$z_{\rm eq}$	3355	3386 ± 52 (-0.1σ)
$\boldsymbol{n_s}$	0.9700	0.9667 ± 0.0069 $(+0.4\sigma)$	σ_8	0.8263	$0.781^{+0.047}_{-0.023}$ $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8218	0.8159 ± 0.0098 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.00030	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4516	0.4534 ± 0.0089 (-0.0σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07231	$0.0703^{+0.0021}_{-0.0013}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248.6	249 ± 22 (-0.5σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6109	$0.595^{+0.018}_{-0.011}$ $(+0.1\sigma)$	$H(0.57)$	93.43	$91.9^{+1.5}_{-0.94}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	36.1	40 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9980	$0.965^{+0.036}_{-0.019}$ $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1374.9	1419^{+25}_{-46} (-0.1σ)
$\boldsymbol{A_{217}^{PS}}$	96.3	97 ± 10 $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4435	$2.468^{+0.031}_{-0.040}$ (-0.1σ)	$F_{\rm AP}(0.57)$	0.6728	$0.6827^{+0.0058}_{-0.011}$ (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	48.1	47 ± 7 (-2.7σ)	$z_{\rm re}$	8.79	$9.99^{+1.8}_{-1.6}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4759	$0.463^{+0.016}_{-0.0080}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	3.71	$3.07^{+1.1}_{-2.7}$ (-0.9σ)	$10^9 A_{\rm s}$	2.132	2.191 ± 0.075 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6174	$0.577^{+0.042}_{-0.021}$ $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.433	$0.51^{+0.10}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	1.8689	1.873 ± 0.014 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	0.246265	0.24620 ± 0.00012 (-3.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.581 (-0.2σ)	D_{40}	1218.3	1225 ± 13 (-0.6σ)	f_{2000}^{143}	29.41	29.8 ± 3.0 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	4.39	> 4.35 $(+0.7\sigma)$	D_{220}	5701.7	5695 ± 41 (-0.5σ)	f_{2000}^{217}	106.73	107.1 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.983	0.99 ± 0.19	D_{810}	2528.6	2530 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	31.99	32.5 ± 2.2 (-0.4σ)
$\boldsymbol{A_{143}^{dust}}$	1.028	1.03 ± 0.18	D_{1420}	814.4	814.3 ± 5.2 (-0.0σ)	$\chi^2_{\rm lensing}$	9.23	9.45 ± 1.3 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.214	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9700	0.9667 ± 0.0069 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10494.43	10496.2 ± 1.9 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.980	0.99 ± 0.18	$Y_{\rm P}$	0.244935	0.24488 ± 0.00011 (-3.3σ)	$\chi^2_{\rm CamSpec}$	8047.4	8061.7 ± 5.8
$\boldsymbol{c_{100}}$	0.99674	0.99676 ± 0.00097 (-1.4σ)	Age/Gyr	13.762	$13.925^{+0.090}_{-0.17}$ (-0.1σ)	$\chi^2_{\rm prior}$	3.38	8.46 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99733	0.9974 ± 0.0018 $(+0.9\sigma)$	z_*	1089.84	$1090.20^{+0.50}_{-0.59}$ (-0.2σ)	$\chi^2_{\rm CMB}$	18551.0	18567.3 ± 6.0 $(+1291.4\sigma)$
$\boldsymbol{\beta_1^1}$	-0.03	-0.1 ± 1.0	r_*	145.00	$144.66^{+0.56}_{-0.51}$ $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18554.42$; $\Delta\chi^2_{\rm eff} = 7281.85$; $\bar{\chi}^2_{\rm eff} = 18575.74$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.32$; $R - 1 = 0.00619$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.23 (Δ -0.15) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.43 (Δ -0.24) CamSpec like_v9.10CMH_unified: 8047.38

7.38 base_mnu_CamSpecHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022346	0.02231 ± 0.00017 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.20	-0.07 ± 0.99	$100\theta_*$	1.041082	1.04104 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11882	0.1191 ± 0.0015 (-0.4σ)	H_0	67.49	$66.2^{+2.3}_{-1.3}$ $(+0.3\sigma)$	$z_{\rm drag}$	1059.780	1059.74 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040860	1.04076 ± 0.00033 $(+0.2\sigma)$	Ω_Λ	0.6879	$0.671^{+0.030}_{-0.016}$ $(+0.3\sigma)$	$r_{\rm drag}$	147.433	147.35 ± 0.33 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0678	0.076 ± 0.017 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3121	$0.329^{+0.016}_{-0.030}$ (-0.3σ)	$k_{\rm D}$	0.140505	0.14059 ± 0.00035 $(+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.094	< 0.276 (-0.2σ)	$\Omega_{\rm m}h^2$	0.14218	$0.1438^{+0.0021}_{-0.0030}$ (-0.3σ)	$100\theta_{\rm D}$	0.160807	0.16081 ± 0.00019 (-0.8σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0657	3.082 ± 0.032 $(+0.0\sigma)$	$\Omega_\nu h^2$	0.00101	< 0.00297 (-0.2σ)	$z_{\rm eq}$	3373.5	3380 ± 33 (-0.4σ)
$\boldsymbol{n_s}$	0.96787	0.9674 ± 0.0049 $(+0.7\sigma)$	$\Omega_{\rm m}h^3$	0.09596	$0.0952^{+0.0013}_{-0.00066}$ $(+0.3\sigma)$	$100\theta_{\rm eq}$	0.8184	0.8172 ± 0.0062 $(+0.4\sigma)$
$\boldsymbol{y_{cal}}$	1.00053	1.0002 ± 0.0025 (-0.0σ)	σ_8	0.8113	$0.789^{+0.036}_{-0.018}$ $(+0.2\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07155	$0.0707^{+0.0015}_{-0.00090}$ $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	246.8	246 ± 22 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4532	0.4520 ± 0.0068 (-0.3σ)	$H(0.57)$	92.94	$92.3^{+1.1}_{-0.65}$ $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.1	39 ± 7 (-0.7σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6064	$0.597^{+0.015}_{-0.0095}$ $(+0.0\sigma)$	$D_{\rm A}(0.57)$	1389.3	1408^{+18}_{-33} (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	95.9	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9875	$0.970^{+0.029}_{-0.016}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6762	$0.6804^{+0.0040}_{-0.0074}$ (-0.3σ)
$\boldsymbol{A_{217}^{CIB}}$	48.1	46 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.4484	$2.459^{+0.028}_{-0.033}$ (-0.4σ)	$f\sigma_8(0.57)$	0.4726	$0.465^{+0.013}_{-0.0068}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	3.80	$3.26^{+1.4}_{-2.5}$ (-1.0σ)	$z_{\rm re}$	8.99	9.73 ± 1.5 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6037	$0.584^{+0.032}_{-0.016}$ $(+0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.425	$0.51^{+0.11}_{-0.12}$	$10^9A_{\rm s}$	2.145	$2.180^{+0.066}_{-0.077}$ $(+0.0\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246292	0.246275 ± 0.000075 (-4.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.593 (-0.2σ)	$10^9A_{\rm s}e^{-2\tau}$	1.8730	1.873 ± 0.012 (-0.6σ)	f_{2000}^{143}	29.24	29.1 ± 2.7 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	4.60	$5.50^{+4.0}_{-1.8}$ $(+0.8\sigma)$	D_{40}	1225.4	1226 ± 12 (-0.8σ)	f_{2000}^{217}	106.66	106.5 ± 1.9 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.975	0.99 ± 0.19	D_{220}	5714.1	5710 ± 39 (-0.5σ)	$f_{2000}^{143\times217}$	31.79	31.8 ± 2.0 (-0.7σ)
$\boldsymbol{A_{143}^{dust}}$	1.031	1.03 ± 0.18	D_{810}	2530.8	2530 ± 13 (-0.4σ)	$\chi^2_{\rm lensing}$	9.29	9.49 ± 1.3 (-0.2σ)
$\boldsymbol{A_{217}^{dust}}$	1.206	1.21 ± 0.12	D_{1420}	814.98	815.0 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10494.85	10495.9 ± 1.7 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.976	0.99 ± 0.18	$n_{\rm s,0.002}$	0.96787	0.9674 ± 0.0049 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12937.8	12954.3 ± 6.1
$\boldsymbol{c_{100}}$	0.99667	0.99677 ± 0.00096 (-1.8σ)	$Y_{\rm P}$	0.244961	0.244947 ± 0.000073 (-4.6σ)	$\chi^2_{\rm prior}$	3.75	9.06 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99719	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.809	$13.882^{+0.063}_{-0.12}$ (-0.3σ)	$\chi^2_{\rm CMB}$	23441.9	23459.7 ± 6.2 $(+1555.9\sigma)$
$\boldsymbol{c_{TE}}$	1.00507	1.0054 ± 0.0044	z_*	1089.828	$1089.93^{+0.31}_{-0.36}$ (-0.7σ)			
$\boldsymbol{c_{EE}}$	1.00139	1.0012 ± 0.0042	r_*	144.757	144.66 ± 0.34 $(+0.3\sigma)$			

Best-fit $\chi^2_{\rm eff} = 23445.66$; $\Delta\chi^2_{\rm eff} = 10498.31$; $\bar{\chi}^2_{\rm eff} = 23468.73$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.50$; $R - 1 = 0.00697$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.29 (Δ -0.41) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.85 (Δ -0.63) CamSpec like_v9.10CMH_unified: 12937.77

7.39 base_mnu_plikHM_TT_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022278	0.02228 ± 0.00020	$\Omega_\nu h^2$	0.00001	< 0.00113	k_D	0.140547	0.14035 ± 0.00048
$\boldsymbol{\Omega_c h^2}$	0.11953	0.1188 ± 0.0015	$\Omega_m h^3$	0.09637	$0.09592^{+0.00070}_{-0.00055}$	$100\theta_D$	0.160901	0.16093 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.040925	1.04099 ± 0.00043	σ_8	0.8427	$0.825^{+0.023}_{-0.018}$	z_{eq}	3388.8	3371 ± 34
$\boldsymbol{\tau}$	0.0784	0.082 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.4670	0.460 ± 0.012	k_{eq}	0.010343	0.01029 ± 0.00010
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.105	$\sigma_8\Omega_m^{0.25}$	0.6274	$0.616^{+0.016}_{-0.014}$	$100\theta_{eq}$	0.8154	$0.8189^{+0.0061}_{-0.0069}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0905	3.096 ± 0.037	$\sigma_8/h^{0.5}$	1.0223	$1.004^{+0.026}_{-0.022}$	$100\theta_{s,eq}$	0.45054	$0.4523^{+0.0032}_{-0.0035}$
$\boldsymbol{n_s}$	0.96659	0.9678 ± 0.0048	$\langle d^2\rangle^{1/2}$	2.5040	2.488 ± 0.045	$r_{drag}/D_V(0.57)$	0.071806	0.07163 ± 0.00045
$\boldsymbol{y_{cal}}$	1.00031	1.0004 ± 0.0025	z_{re}	9.99	$10.3^{+1.8}_{-1.6}$	$H(0.57)$	93.219	$92.96^{+0.38}_{-0.33}$
$\boldsymbol{A_{217}^{CIB}}$	65.9	63.6 ± 6.6	$10^9 A_s$	2.199	2.212 ± 0.081	$D_A(0.57)$	1382.5	1388.4 ± 9.1
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.16	—	$10^9 A_s e^{-2\tau}$	1.8799	1.876 ± 0.012	$F_{AP}(0.57)$	0.67492	0.6759 ± 0.0021
$\boldsymbol{A_{143}^{tSZ}}$	7.04	5.17 ± 1.9	D_{40}	1235.0	1234 ± 14	$f\sigma_8(0.57)$	0.4877	$0.480^{+0.012}_{-0.010}$
$\boldsymbol{A_{100}^{PS}}$	250.9	258 ± 28	D_{220}	5718.2	5721 ± 40	$\sigma_8(0.57)$	0.6275	$0.614^{+0.017}_{-0.014}$
$\boldsymbol{A_{143}^{PS}}$	40.8	43 ± 8	D_{810}	2534.4	2533 ± 14	f_{2000}^{143}	29.13	29.7 ± 2.9
$\boldsymbol{A_{143\times217}^{PS}}$	37.0	39 ± 10	D_{1420}	815.0	815.0 ± 5.0	$f_{2000}^{143\times217}$	31.96	32.2 ± 2.1
$\boldsymbol{A_{217}^{PS}}$	99.0	97 ± 10	D_{2000}	230.73	230.6 ± 1.8	f_{2000}^{217}	105.53	105.8 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.00	< 4.50	$n_{s,0.002}$	0.96659	0.9678 ± 0.0048	χ^2_{lowTEB}	10496.49	10497.3 ± 2.5
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.43 ± 1.9	Y_P	0.245353	$0.24535^{+0.00010}_{-0.000090}$	χ^2_{plik}	763.1	777.5 ± 5.8
$\boldsymbol{A_{143}^{dustTT}}$	9.03	9.04 ± 1.8	Y_P^{BBN}	0.246679	$0.24668^{+0.00010}_{-0.000091}$	χ^2_{6DF}	0.0060	0.073 ± 0.094
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.79	17.1 ± 4.2	10^5D/H	2.6086	2.608 ± 0.039	χ^2_{MGS}	1.47	1.31 ± 0.57
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.5	Age/Gyr	13.7762	$13.808^{+0.035}_{-0.045}$	$\chi^2_{DR11CMASS}$	2.415	2.97 ± 0.81
$\boldsymbol{c_{100}}$	0.99793	0.99789 ± 0.00077	z_*	1089.991	1089.92 ± 0.32	$\chi^2_{DR11LOWZ}$	0.43	0.81 ± 0.67
$\boldsymbol{c_{217}}$	0.99591	0.9959 ± 0.0014	r_*	144.629	144.82 ± 0.36	χ^2_{prior}	1.92	7.31 ± 3.6
H_0	67.95	67.57 ± 0.65	$100\theta_*$	1.041082	1.04119 ± 0.00043	χ^2_{CMB}	11259.6	11274.8 ± 5.6
Ω_Λ	0.6929	0.6889 ± 0.0082	D_A/Gpc	13.8922	13.909 ± 0.035	χ^2_{BAO}	4.32	5.17 ± 1.2
Ω_m	0.3071	0.3111 ± 0.0082	z_{drag}	1059.704	1059.64 ± 0.46			
$\Omega_m h^2$	0.14182	0.1420 ± 0.0012	r_{drag}	147.323	147.52 ± 0.39			

Best-fit $\chi^2_{eff} = 11265.84$; $\bar{\chi}^2_{eff} = 11287.27$; $R - 1 = 0.00894$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.42 DR11LOWZ: 0.43 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.49 plik_dx11dr2_HM_v18_TT: 763.12

7.40 base_mnu_plikHM_TT_lowTEB_BAO_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022300	0.02230 ± 0.00020	$\Omega_\nu h^2$	0.00003	< 0.00106	k_D	0.140552	0.14035 ± 0.00047
$\boldsymbol{\Omega_c h^2}$	0.11940	0.1186 ± 0.0014	$\Omega_m h^3$	0.09641	$0.09597^{+0.00067}_{-0.00054}$	$100\theta_D$	0.160882	0.16092 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.040967	1.04101 ± 0.00043	σ_8	0.8428	$0.826^{+0.022}_{-0.018}$	z_{eq}	3386.2	3368 ± 34
$\boldsymbol{\tau}$	0.0792	0.083 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.4664	0.460 ± 0.011	k_{eq}	0.010335	0.01028 ± 0.00010
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.0028	< 0.0984	$\sigma_8\Omega_m^{0.25}$	0.6270	$0.616^{+0.016}_{-0.014}$	$100\theta_{eq}$	0.8159	0.8194 ± 0.0063
$\boldsymbol{\ln(10^{10}A_s)}$	3.0920	3.097 ± 0.037	$\sigma_8/h^{0.5}$	1.0219	$1.005^{+0.025}_{-0.022}$	$100\theta_{s,eq}$	0.45082	0.4526 ± 0.0033
$\boldsymbol{n_s}$	0.96699	0.9681 ± 0.0048	$\langle d^2\rangle^{1/2}$	2.5034	2.488 ± 0.045	$r_{drag}/D_V(0.57)$	0.071856	0.07171 ± 0.00045
$\boldsymbol{y_{cal}}$	1.00029	1.0004 ± 0.0025	z_{re}	10.06	$10.3^{+1.8}_{-1.6}$	$H(0.57)$	93.257	$93.02^{+0.37}_{-0.32}$
$\boldsymbol{A_{217}^{CIB}}$	65.7	63.6 ± 6.7	$10^9 A_s$	2.202	$2.214^{+0.079}_{-0.088}$	$D_A(0.57)$	1381.5	1386.8 ± 8.9
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.12	—	$10^9 A_s e^{-2\tau}$	1.8794	1.876 ± 0.012	$F_{AP}(0.57)$	0.67470	0.6755 ± 0.0021
$\boldsymbol{A_{143}^{tSZ}}$	7.11	5.20 ± 2.0	D_{40}	1234.6	1234 ± 14	$f\sigma_8(0.57)$	0.4876	$0.480^{+0.011}_{-0.010}$
$\boldsymbol{A_{100}^{PS}}$	250.6	257 ± 28	D_{220}	5719.5	5722 ± 40	$\sigma_8(0.57)$	0.6278	$0.615^{+0.017}_{-0.013}$
$\boldsymbol{A_{143}^{PS}}$	39.6	43 ± 8	D_{810}	2534.4	2533 ± 14	f_{2000}^{143}	28.97	29.6 ± 2.9
$\boldsymbol{A_{143\times217}^{PS}}$	35.5	39 ± 10	D_{1420}	815.23	815.1 ± 5.0	$f_{2000}^{143\times217}$	31.78	32.1 ± 2.1
$\boldsymbol{A_{217}^{PS}}$	99.0	97 ± 10	D_{2000}	230.84	230.6 ± 1.8	f_{2000}^{217}	105.47	105.8 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.00	< 4.44	$n_{s,0.002}$	0.96699	0.9681 ± 0.0048	χ^2_{lowTEB}	10496.51	10497.3 ± 2.5
$\boldsymbol{A_{100}^{dustTT}}$	7.37	7.42 ± 1.9	Y_P	0.245362	$0.24536^{+0.00010}_{-0.000089}$	χ^2_{plik}	763.1	777.4 ± 5.8
$\boldsymbol{A_{143}^{dustTT}}$	9.02	9.05 ± 1.8	Y_P^{BBN}	0.246689	$0.24669^{+0.00010}_{-0.000089}$	χ^2_{H070p6}	0.602	0.81 ± 0.34
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.65	17.1 ± 4.2	10^5D/H	2.6045	2.605 ± 0.039	χ^2_{6DF}	0.0029	0.061 ± 0.082
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.5	Age/Gyr	13.7725	$13.802^{+0.034}_{-0.043}$	χ^2_{MGS}	1.54	1.41 ± 0.58
$\boldsymbol{c_{100}}$	0.99793	0.99790 ± 0.00077	z_*	1089.950	1089.89 ± 0.32	$\chi^2_{DR11CMASS}$	2.424	2.92 ± 0.73
$\boldsymbol{c_{217}}$	0.99584	0.9959 ± 0.0015	r_*	144.646	144.84 ± 0.36	$\chi^2_{DR11LOWZ}$	0.373	0.71 ± 0.61
H_0	68.02	67.68 ± 0.64	$100\theta_*$	1.041122	1.04121 ± 0.00043	χ^2_{prior}	1.94	7.29 ± 3.5
Ω_Λ	0.6937	0.6903 ± 0.0081	D_A/Gpc	13.8933	13.910 ± 0.035	χ^2_{CMB}	11259.6	11274.8 ± 5.6
Ω_m	0.3063	0.3097 ± 0.0081	z_{drag}	1059.742	1059.67 ± 0.46	χ^2_{BAO}	4.34	5.09 ± 1.1
$\Omega_m h^2$	0.14173	0.1418 ± 0.0012	r_{drag}	147.333	147.53 ± 0.38			

Best-fit $\chi^2_{eff} = 11266.47$; $\bar{\chi}^2_{eff} = 11287.94$; $R - 1 = 0.00873$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.42 DR11LOWZ: 0.37 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.51 plik_dx11dr2_HM_v18_TT: 763.08 Hubble - H070p6: 0.60

7.41 base_mnu_plikHM_TT_lowTEB_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022278	0.02231 ± 0.00020	$\Omega_\nu h^2$	0.00001	< 0.00103	k_D	0.140463	0.14034 ± 0.00047
$\boldsymbol{\Omega_c h^2}$	0.11924	0.1186 ± 0.0014	$\Omega_m h^3$	0.09633	$0.09599^{+0.00066}_{-0.00054}$	$100\theta_D$	0.160918	0.16091 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.040969	1.04102 ± 0.00042	σ_8	0.8415	$0.827^{+0.022}_{-0.018}$	z_{eq}	3381.8	3366 ± 33
$\boldsymbol{\tau}$	0.0783	0.083 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.4651	0.460 ± 0.011	k_{eq}	0.010321	0.01027 ± 0.00010
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.0007	< 0.0955	$\sigma_8\Omega_m^{0.25}$	0.6256	$0.616^{+0.016}_{-0.014}$	$100\theta_{eq}$	0.8167	0.8198 ± 0.0062
$\boldsymbol{\ln(10^{10}A_s)}$	3.0895	3.097 ± 0.037	$\sigma_8/h^{0.5}$	1.0199	$1.005^{+0.025}_{-0.021}$	$100\theta_{s,eq}$	0.45122	0.4528 ± 0.0032
$\boldsymbol{n_s}$	0.96698	0.9684 ± 0.0047	$\langle d^2\rangle^{1/2}$	2.4989	2.487 ± 0.045	$r_{drag}/D_V(0.57)$	0.071906	0.07175 ± 0.00044
$\boldsymbol{y_{cal}}$	1.00032	1.0004 ± 0.0025	z_{re}	9.98	$10.3^{+1.8}_{-1.6}$	$H(0.57)$	93.259	$93.05^{+0.36}_{-0.32}$
$\boldsymbol{A_{217}^{CIB}}$	66.8	63.5 ± 6.6	$10^9 A_s$	2.197	$2.215^{+0.079}_{-0.088}$	$D_A(0.57)$	1381.0	1386.0 ± 8.7
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	$10^9 A_s e^{-2\tau}$	1.8782	1.875 ± 0.012	$F_{AP}(0.57)$	0.67449	0.6753 ± 0.0020
$\boldsymbol{A_{143}^{tSZ}}$	7.17	5.20 ± 2.0	D_{40}	1233.8	1233 ± 14	$f\sigma_8(0.57)$	0.4865	$0.480^{+0.011}_{-0.010}$
$\boldsymbol{A_{100}^{PS}}$	252.1	257 ± 28	D_{220}	5718.1	5723 ± 40	$\sigma_8(0.57)$	0.6270	$0.616^{+0.016}_{-0.013}$
$\boldsymbol{A_{143}^{PS}}$	38.6	43 ± 8	D_{810}	2533.5	2533 ± 14	f_{2000}^{143}	29.39	29.6 ± 2.9
$\boldsymbol{A_{143\times217}^{PS}}$	32.7	39 ± 10	D_{1420}	814.75	815.1 ± 5.0	$f_{2000}^{143\times217}$	32.06	32.1 ± 2.1
$\boldsymbol{A_{217}^{PS}}$	97.4	97 ± 10	D_{2000}	230.60	230.7 ± 1.8	f_{2000}^{217}	105.75	105.7 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.00	< 4.43	$n_{s,0.002}$	0.96698	0.9684 ± 0.0047	χ^2_{lowTEB}	10496.36	10497.3 ± 2.6
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.42 ± 1.9	Y_P	0.245352	$0.24536^{+0.00010}_{-0.000089}$	χ^2_{plik}	763.1	777.4 ± 5.8
$\boldsymbol{A_{143}^{dustTT}}$	9.01	9.05 ± 1.8	Y_P^{BBN}	0.246678	$0.24669^{+0.00010}_{-0.000089}$	χ^2_{H070p6}	0.582	0.77 ± 0.32
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.63	17.1 ± 4.2	10^5D/H	2.6088	2.604 ± 0.039	χ^2_{JLA}	706.602	706.73 ± 0.21
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.5	Age/Gyr	13.7738	$13.800^{+0.034}_{-0.042}$	χ^2_{6DF}	0.00095	0.054 ± 0.074
$\boldsymbol{c_{100}}$	0.99792	0.99790 ± 0.00077	z_*	1089.965	1089.87 ± 0.31	χ^2_{MGS}	1.61	1.46 ± 0.58
$\boldsymbol{c_{217}}$	0.99596	0.9959 ± 0.0015	r_*	144.706	144.86 ± 0.36	$\chi^2_{DR11CMASS}$	2.443	2.88 ± 0.67
H_0	68.07	67.74 ± 0.62	$100\theta_*$	1.041125	1.04122 ± 0.00042	$\chi^2_{DR11LOWZ}$	0.322	0.64 ± 0.57
Ω_Λ	0.6946	0.6911 ± 0.0079	D_A/Gpc	13.8990	13.912 ± 0.034	χ^2_{prior}	2.06	7.30 ± 3.5
Ω_m	0.3054	0.3089 ± 0.0079	z_{drag}	1059.666	1059.68 ± 0.46	χ^2_{CMB}	11259.5	11274.7 ± 5.6
$\Omega_m h^2$	0.14152	0.1417 ± 0.0012	r_{drag}	147.403	147.55 ± 0.38	χ^2_{BAO}	4.37	5.04 ± 1.0

Best-fit $\chi^2_{eff} = 11973.10$; $\bar{\chi}^2_{eff} = 11994.57$; $R - 1 = 0.00922$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.36 plik_dx11dr2_HM_v18_TT: 763.11 Hubble - H070p6: 0.58 SN - JLA December_2013: 706.60

7.42 base_mnu_plikHM_TTTEEE_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022295	0.02229 ± 0.00014	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.337	0.338 ± 0.081	$100\theta_*$	1.041009	1.04103 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11950	0.1193 ± 0.0011	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.675	1.66 ± 0.25	D_A/Gpc	13.8927	13.898 ± 0.024
$\boldsymbol{100\theta_{MC}}$	1.040852	1.04083 ± 0.00030	$\boldsymbol{c_{100}}$	0.99821	0.99815 ± 0.00077	z_{drag}	1059.704	1059.70 ± 0.30
$\boldsymbol{\tau}$	0.0806	0.082 ± 0.017	$\boldsymbol{c_{217}}$	0.99590	0.9959 ± 0.0014	r_{drag}	147.316	147.38 ± 0.26
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.0004	< 0.0808	H_0	67.95	$67.53^{+0.60}_{-0.53}$	k_D	0.140571	0.14050 ± 0.00030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0957	3.098 ± 0.033	Ω_Λ	0.6929	0.6879 ± 0.0072	$100\theta_D$	0.160868	0.16088 ± 0.00018
$\boldsymbol{n_s}$	0.96633	0.9660 ± 0.0042	Ω_m	0.3071	0.3121 ± 0.0072	z_{eq}	3388.5	3383 ± 25
$\boldsymbol{y_{cal}}$	1.00024	1.0005 ± 0.0025	$\Omega_m h^2$	0.14180	0.1423 ± 0.0010	k_{eq}	0.010342	0.010324 ± 0.000076
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	64.0	63.7 ± 6.6	$\Omega_\nu h^2$	0.000004	< 0.000869	$100\theta_{\mathrm{eq}}$	0.81543	0.8165 ± 0.0047
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	0.41	—	$\Omega_m h^3$	0.096356	$0.09606^{+0.00047}_{-0.00035}$	$100\theta_{\mathrm{s,eq}}$	0.45055	0.4511 ± 0.0024
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	6.94	5.41 ± 1.9	σ_8	0.8446	$0.832^{+0.018}_{-0.015}$	$r_{\mathrm{drag}}/D_V(0.57)$	0.071801	0.07156 ± 0.00039
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	251.1	259 ± 27	$\sigma_8\Omega_m^{0.5}$	0.4681	0.4644 ± 0.0091	$H(0.57)$	93.217	$92.97^{+0.32}_{-0.25}$
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	44.0	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6288	0.621 ± 0.012	$D_A(0.57)$	1382.5	$1388.7^{+7.1}_{-8.5}$
$\boldsymbol{A^{PS}_{143\times217}}$	44.3	40 ± 10	$\sigma_8/h^{0.5}$	1.0246	1.012 ± 0.019	$F_{\mathrm{AP}}(0.57)$	0.67492	0.6762 ± 0.0018
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	102.3	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5109	2.502 ± 0.039	$f\sigma_8(0.57)$	0.4888	0.4837 ± 0.0087
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.02	z_{re}	10.19	$10.3^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.6290	$0.619^{+0.014}_{-0.012}$
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.43	7.44 ± 1.9	$10^9 A_s$	2.210	2.216 ± 0.073	f^{143}_{2000}	28.42	29.2 ± 2.7
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	9.02	8.94 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8814	1.880 ± 0.011	$f^{143\times217}_{2000}$	31.69	32.0 ± 1.9
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	18.04	17.0 ± 4.1	D_{40}	1237.8	1240 ± 13	f^{217}_{2000}	105.19	105.7 ± 1.9
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	82.5	81.6 ± 7.4	D_{220}	5726.3	5732 ± 39	χ^2_{lowTEB}	10496.94	10497.7 ± 2.3
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0812	0.0814 ± 0.0057	D_{810}	2536.1	2536 ± 13	χ^2_{plik}	2431.4	2450.2 ± 6.8
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0488	0.0490 ± 0.0050	D_{1420}	815.47	815.1 ± 4.7	χ^2_{6DF}	0.0062	0.073 ± 0.091
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0995	0.0997 ± 0.032	D_{2000}	230.91	230.6 ± 1.6	χ^2_{MGS}	1.473	1.21 ± 0.48
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1002	0.1003 ± 0.0069	$n_{s,0.002}$	0.96633	0.9660 ± 0.0042	$\chi^2_{\mathrm{DR11CMASS}}$	2.418	2.93 ± 0.75
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2235	0.224 ± 0.046	Y_P	0.245360	$0.245358^{+0.000067}_{-0.000061}$	$\chi^2_{\mathrm{DR11LOWZ}}$	0.43	0.88 ± 0.63
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.647	0.65 ± 0.13	Y_P^{BBN}	0.246686	$0.246684^{+0.000068}_{-0.000061}$	χ^2_{prior}	6.65	19.3 ± 5.5
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1407	0.141 ± 0.038	10^5D/H	2.6055	2.606 ± 0.027	χ^2_{CMB}	12928.4	12948.0 ± 6.7
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1317	0.132 ± 0.029	Age/Gyr	13.7766	$13.804^{+0.025}_{-0.034}$	χ^2_{BAO}	4.33	5.09 ± 1.1
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.303	0.302 ± 0.085	z_*	1089.968	1089.95 ± 0.24			
$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.155	0.155 ± 0.054	r_*	144.624	144.68 ± 0.25			

Best-fit $\chi^2_{\mathrm{eff}} = 12939.33$; $\bar{\chi}^2_{\mathrm{eff}} = 12972.41$; $R - 1 = 0.01159$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.42 DR11LOWZ: 0.43 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.94 plik_dx11dr2_HM_v18_TTTEEE:

7.43 base_mnu_plikHM_TTTEEE_lowTEB_BAO_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022295	0.02230 ± 0.00014	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.336	0.339 ± 0.081	$100\theta_*$	1.040993	1.04104 ± 0.00029
$\boldsymbol{\Omega_c h^2}$	0.11947	0.1192 ± 0.0011	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.669	1.67 ± 0.25	D_A/Gpc	13.8937	13.900 ± 0.024
$\boldsymbol{100\theta_{MC}}$	1.040826	1.04084 ± 0.00030	$\boldsymbol{c_{100}}$	0.99819	0.99815 ± 0.00076	z_{drag}	1059.704	1059.72 ± 0.30
$\boldsymbol{\tau}$	0.0806	0.082 ± 0.017	$\boldsymbol{c_{217}}$	0.99590	0.9959 ± 0.0014	r_{drag}	147.324	147.39 ± 0.26
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.0030	< 0.0753	H_0	67.95	$67.61^{+0.59}_{-0.51}$	k_D	0.140562	0.14050 ± 0.00030
$\boldsymbol{\ln(10^{10} A_s)}$	3.0951	3.098 ± 0.033	Ω_Λ	0.6929	$0.6890^{+0.0076}_{-0.0067}$	$100\theta_D$	0.160866	0.16087 ± 0.00018
$\boldsymbol{n_s}$	0.96619	0.9662 ± 0.0042	Ω_m	0.3071	$0.3110^{+0.0067}_{-0.0076}$	z_{eq}	3387.8	3381 ± 25
$\boldsymbol{y_{\mathrm{cal}}}$	1.00014	1.0005 ± 0.0025	$\Omega_m h^2$	0.14180	0.1421 ± 0.0010	k_{eq}	0.010340	0.010318 ± 0.000075
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	64.9	63.6 ± 6.5	$\Omega_\nu h^2$	0.000032	< 0.000810	$100\theta_{\mathrm{eq}}$	0.81555	0.8169 ± 0.0047
$\boldsymbol{\xi^{\mathrm{tSZ\times CIB}}}$	0.24	—	$\Omega_m h^3$	0.096354	$0.09609^{+0.00045}_{-0.00034}$	$100\theta_{s,\mathrm{eq}}$	0.45061	0.4513 ± 0.0024
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	7.16	5.42 ± 1.9	σ_8	0.8440	$0.832^{+0.017}_{-0.015}$	$r_{\mathrm{drag}}/D_V(0.57)$	0.071803	0.07161 ± 0.00038
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	252.1	259 ± 27	$\sigma_8\Omega_m^{0.5}$	0.4677	0.4641 ± 0.0090	$H(0.57)$	93.214	$93.02^{+0.30}_{-0.24}$
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	41.0	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6283	0.622 ± 0.012	$D_A(0.57)$	1382.6	$1387.6^{+6.9}_{-8.3}$
$\boldsymbol{A^{PS}_{143\times217}}$	39.1	40 ± 10	$\sigma_8/h^{0.5}$	1.0239	1.012 ± 0.019	$F_{\mathrm{AP}}(0.57)$	0.67491	0.6759 ± 0.0018
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	100.3	98.0 ± 11	$\langle d^2\rangle^{1/2}$	2.5101	2.502 ± 0.039	$f\sigma_8(0.57)$	0.4885	0.4839 ± 0.0086
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 3.97	z_{re}	10.19	$10.3^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.6285	$0.619^{+0.013}_{-0.011}$
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.30	7.44 ± 1.9	$10^9 A_s$	2.209	2.216 ± 0.073	f^{143}_{2000}	28.62	29.2 ± 2.7
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	8.98	8.94 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8802	1.880 ± 0.011	$f^{143\times217}_{2000}$	31.71	31.9 ± 1.9
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.77	17.0 ± 4.1	D_{40}	1237.5	1240 ± 13	f^{217}_{2000}	105.31	105.6 ± 1.9
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	82.3	81.5 ± 7.4	D_{220}	5724.2	5732 ± 39	χ^2_{lowTEB}	10496.94	10497.7 ± 2.3
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0815	0.0814 ± 0.0057	D_{810}	2534.5	2535 ± 13	χ^2_{plik}	2431.3	2450.2 ± 6.8
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0491	0.0490 ± 0.0050	D_{1420}	814.89	815.2 ± 4.7	χ^2_{H070p6}	0.636	0.83 ± 0.30
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0991	0.0995 ± 0.032	D_{2000}	230.73	230.7 ± 1.6	χ^2_{6DF}	0.0060	0.062 ± 0.079
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1003	0.1003 ± 0.0069	$n_{s,0.002}$	0.96619	0.9662 ± 0.0042	χ^2_{MGS}	1.473	1.28 ± 0.48
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2239	0.224 ± 0.046	Y_P	0.245360	0.245362 ± 0.000063	$\chi^2_{\mathrm{DR11CMASS}}$	2.417	2.85 ± 0.64
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.652	0.65 ± 0.13	Y_P^{BBN}	0.246686	0.246689 ± 0.000063	$\chi^2_{\mathrm{DR11LOWZ}}$	0.428	0.79 ± 0.58
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1397	0.141 ± 0.038	10^5D/H	2.6055	2.604 ± 0.026	χ^2_{prior}	6.79	19.3 ± 5.4
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1308	0.132 ± 0.029	Age/Gyr	13.7772	$13.800^{+0.024}_{-0.033}$	χ^2_{CMB}	12928.2	12947.9 ± 6.6
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.301	0.302 ± 0.085	z_*	1089.965	1089.93 ± 0.23	χ^2_{BAO}	4.32	4.99 ± 0.94
$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.156	0.155 ± 0.054	r_*	144.632	144.70 ± 0.25			

Best-fit $\chi^2_{\rm eff} = 12939.99$; $\bar{\chi}^2_{\rm eff} = 12973.05$; $R - 1 = 0.01333$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.42 DR11LOWZ: 0.43 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.94 plik_dx11dr2_HM_v18_TTTEEE: 2431.29 Hubble - H070p6: 0.64

7.44 base_mnu_plikHM_TTTEEE_lowTEB_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022293	0.02231 ± 0.00014	$\boldsymbol{A^{{\rm dust}TE}_{143\times217}}$	0.339	0.339 ± 0.081	$100\theta_*$	1.040999	1.04104 ± 0.00029
$\boldsymbol{\Omega_{\rm c}h^2}$	0.11949	0.1191 ± 0.0011	$\boldsymbol{A^{{\rm dust}TE}_{217}}$	1.670	1.67 ± 0.25	$D_{\rm A}$/Gpc	13.8933	13.901 ± 0.024
$\boldsymbol{100\theta_{\rm MC}}$	1.040845	1.04085 ± 0.00030	$\boldsymbol{c_{100}}$	0.99821	0.99815 ± 0.00076	$z_{\rm drag}$	1059.704	1059.73 ± 0.30
$\boldsymbol{\tau}$	0.0801	0.082 ± 0.017	$\boldsymbol{c_{217}}$	0.99589	0.9959 ± 0.0014	$r_{\rm drag}$	147.321	147.40 ± 0.26
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.0008	< 0.0724	H_0	67.95	$67.66^{+0.57}_{-0.50}$	$k_{\rm D}$	0.140563	0.14049 ± 0.00030
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0942	3.098 ± 0.033	Ω_Λ	0.6929	$0.6897^{+0.0074}_{-0.0065}$	$100\theta_{\rm D}$	0.160869	0.16087 ± 0.00018
$\boldsymbol{n_{\rm s}}$	0.96604	0.9664 ± 0.0042	$\Omega_{\rm m}$	0.3071	$0.3103^{+0.0065}_{-0.0074}$	$z_{\rm eq}$	3388.1	3379 ± 24
$\boldsymbol{y_{\rm cal}}$	1.00016	1.0005 ± 0.0025	$\Omega_{\rm m}h^2$	0.14179	0.14204 ± 0.00098	$k_{\rm eq}$	0.010341	0.010314 ± 0.000074
$\boldsymbol{A^{\rm CIB}_{217}}$	65.0	63.5 ± 6.5	$\Omega_\nu h^2$	0.000009	< 0.000779	$100\theta_{\rm eq}$	0.81549	0.8172 ± 0.0046
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.29	—	$\Omega_{\rm m}h^3$	0.096347	$0.09610^{+0.00044}_{-0.00034}$	$100\theta_{\rm s,eq}$	0.45058	0.4515 ± 0.0024
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.06	5.42 ± 1.9	σ_8	0.8438	$0.833^{+0.017}_{-0.015}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071803	0.07165 ± 0.00037
$\boldsymbol{A^{\rm PS}_{100}}$	252.2	259 ± 27	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4676	0.4639 ± 0.0090	$H(0.57)$	93.214	$93.04^{+0.29}_{-0.24}$
$\boldsymbol{A^{\rm PS}_{143}}$	42.3	43 ± 8	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6282	0.622 ± 0.011	$D_{\rm A}(0.57)$	1382.6	$1386.8^{+6.8}_{-8.0}$
$\boldsymbol{A^{PS}_{143\times217}}$	41.0	40 ± 10	$\sigma_8/h^{0.5}$	1.0237	1.012 ± 0.018	$F_{\rm AP}(0.57)$	0.67491	$0.6757^{+0.0017}_{-0.0019}$
$\boldsymbol{A^{\rm PS}_{217}}$	100.8	98.0 ± 11	$\langle d^2\rangle^{1/2}$	2.5095	2.501 ± 0.039	$f\sigma_8(0.57)$	0.4883	0.4839 ± 0.0085
$\boldsymbol{A^{\rm kSZ}}$	0.01	< 3.95	$z_{\rm re}$	10.14	$10.3^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.6284	$0.620^{+0.013}_{-0.011}$
$\boldsymbol{A^{{\rm dust}TT}_{100}}$	7.43	7.44 ± 1.9	$10^9A_{\rm s}$	2.207	2.217 ± 0.073	f^{143}_{2000}	28.74	29.1 ± 2.7
$\boldsymbol{A^{{\rm dust}TT}_{143}}$	8.98	8.94 ± 1.8	$10^9A_{\rm s}e^{-2\tau}$	1.8804	1.880 ± 0.011	$f^{143\times217}_{2000}$	31.85	31.9 ± 1.9
$\boldsymbol{A^{{\rm dust}TT}_{143\times217}}$	17.70	17.0 ± 4.1	D_{40}	1237.7	1239 ± 13	f^{217}_{2000}	105.37	105.6 ± 1.9
$\boldsymbol{A^{{\rm dust}TT}_{217}}$	82.0	81.5 ± 7.4	D_{220}	5725.1	5733 ± 39	$\chi^2_{\rm lowTEB}$	10496.92	10497.7 ± 2.3
$\boldsymbol{A^{{\rm dust}EE}_{100}}$	0.0812	0.0815 ± 0.0057	D_{810}	2534.6	2535 ± 13	$\chi^2_{\rm plik}$	2431.3	2450.2 ± 6.8
$\boldsymbol{A^{{\rm dust}EE}_{100\times143}}$	0.0489	0.0491 ± 0.0050	D_{1420}	814.88	815.2 ± 4.7	$\chi^2_{\rm H070p6}$	0.636	0.81 ± 0.28
$\boldsymbol{A^{{\rm dust}EE}_{100\times217}}$	0.0991	0.0996 ± 0.032	D_{2000}	230.70	230.7 ± 1.6	$\chi^2_{\rm JLA}$	706.636	706.75 ± 0.20
$\boldsymbol{A^{{\rm dust}EE}_{143}}$	0.1002	0.1003 ± 0.0069	$n_{\rm s,0.002}$	0.96604	0.9664 ± 0.0042	$\chi^2_{\rm 6DF}$	0.0061	0.055 ± 0.071
$\boldsymbol{A^{{\rm dust}EE}_{143\times217}}$	0.2217	0.224 ± 0.046	$Y_{\rm P}$	0.245359	0.245365 ± 0.000063	$\chi^2_{\rm MGS}$	1.473	1.33 ± 0.47
$\boldsymbol{A^{{\rm dust}EE}_{217}}$	0.649	0.65 ± 0.13	$Y_{\rm P}^{\rm BBN}$	0.246685	0.246691 ± 0.000063	$\chi^2_{\rm DR11CMASS}$	2.418	2.81 ± 0.58
$\boldsymbol{A^{{\rm dust}TE}_{100}}$	0.1406	0.141 ± 0.038	10^5D/H	2.6059	2.603 ± 0.026	$\chi^2_{\rm DR11LOWZ}$	0.429	0.73 ± 0.54
$\boldsymbol{A^{{\rm dust}TE}_{100\times143}}$	0.1315	0.132 ± 0.029	Age/Gyr	13.7771	$13.798^{+0.024}_{-0.032}$	$\chi^2_{\rm prior}$	6.78	19.3 ± 5.4
$\boldsymbol{A^{{\rm dust}TE}_{100\times217}}$	0.302	0.302 ± 0.085	z_*	1089.969	1089.92 ± 0.23	$\chi^2_{\rm CMB}$	12928.2	12947.9 ± 6.6
$\boldsymbol{A^{{\rm dust}TE}_{143}}$	0.155	0.155 ± 0.054	r_*	144.630	144.72 ± 0.25	$\chi^2_{\rm BAO}$	4.326	4.92 ± 0.84

Best-fit $\chi^2_{\rm eff} = 13646.61$; $\bar{\chi}^2_{\rm eff} = 13679.70$; $R - 1 = 0.01404$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.42 DR11LOWZ: 0.43 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.92 plik_dx11dr2_HM_v18_TTTEEE:

7.45 base_mnu_CamSpecHM_TT_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.022233	0.02228 ± 0.00020 $(+0.0\sigma)$	Ω_Λ	0.6927	0.6895 ± 0.0082 $(+0.1\sigma)$	$r_{\rm drag}$	147.375	147.54 ± 0.38 $(+0.1\sigma)$
$\mathbf{\Omega_c h^2}$	0.11954	0.1187 ± 0.0015 (-0.1σ)	$\Omega_{\rm m}$	0.3073	0.3105 ± 0.0082 (-0.1σ)	$k_{\rm D}$	0.140478	0.14034 ± 0.00046 (-0.0σ)
$\mathbf{100\theta_{MC}}$	1.040974	1.04101 ± 0.00042 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14179	0.1419 ± 0.0012 (-0.1σ)	$100\theta_{\rm D}$	0.160953	0.16092 ± 0.00025 (-0.0σ)
$\boldsymbol{\tau}$	0.0767	0.082 ± 0.019 (-0.0σ)	$\Omega_\nu h^2$	0.00001	< 0.00114 $(+0.0\sigma)$	$z_{\rm eq}$	3388.0	3368 ± 34 (-0.1σ)
$\mathbf{\Sigma m_\nu}$ **[eV]**	0.001	< 0.106 $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	0.09631	$0.09591^{+0.00067}_{-0.00053}$ (-0.0σ)	$100\theta_{\rm eq}$	0.8154	$0.8193^{+0.0061}_{-0.0068}$ $(+0.1\sigma)$
$\mathbf{\ln(10^{10}A_s)}$	3.0845	3.093 ± 0.036 (-0.1σ)	σ_8	0.8408	$0.824^{+0.022}_{-0.017}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071810	0.07167 ± 0.00045 $(+0.1\sigma)$
$\boldsymbol{n_{\rm s}}$	0.96714	0.9699 ± 0.0049 $(+0.4\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4661	0.459 ± 0.011 (-0.1σ)	$H(0.57)$	93.196	$92.98^{+0.38}_{-0.32}$ $(+0.0\sigma)$
$\boldsymbol{y_{\rm cal}}$	1.00015	1.0004 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6260	$0.615^{+0.016}_{-0.013}$ (-0.1σ)	$D_{\rm A}(0.57)$	1382.9	$1387.8^{+8.6}_{-9.9}$ (-0.1σ)
$\boldsymbol{A^{\rm PS}_{100}}$	247.8	245 ± 22 (-0.5σ)	$\sigma_8/h^{0.5}$	1.0202	$1.002^{+0.025}_{-0.021}$ (-0.1σ)	$F_{\rm AP}(0.57)$	0.67496	0.6757 ± 0.0021 (-0.1σ)
$\boldsymbol{A^{\rm PS}_{143}}$	35.6	38 ± 8 (-0.6σ)	$\langle d^2\rangle^{1/2}$	2.4955	2.479 ± 0.044 (-0.2σ)	$f\sigma_8(0.57)$	0.4866	$0.479^{+0.011}_{-0.010}$ (-0.1σ)
$\boldsymbol{A^{\rm PS}_{217}}$	96.8	98 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	9.85	10.2 ± 1.7 (-0.0σ)	$\sigma_8(0.57)$	0.6261	$0.614^{+0.017}_{-0.013}$ (-0.0σ)
$\boldsymbol{A^{\rm CIB}_{217}}$	47.5	46 ± 7 (-2.7σ)	$10^9A_{\rm s}$	2.186	$2.205^{+0.076}_{-0.088}$ (-0.1σ)	$Y_{\rm P}^{\rm BBN}$	0.246243	0.246264 ± 0.000086 (-4.4σ)
$\boldsymbol{A^{\rm tSZ}_{143}}$	3.52	$3.28^{+1.5}_{-2.5}$ (-1.0σ)	$10^9A_{\rm s}e^{-2\tau}$	1.8748	1.872 ± 0.012 (-0.4σ)	f^{143}_{2000}	29.12	28.5 ± 2.9 (-0.4σ)
$\boldsymbol{r^{\rm PS}_{143\times217}}$	0.429	$0.52^{+0.11}_{-0.12}$	D_{40}	1229.2	1226 ± 14 (-0.6σ)	f^{217}_{2000}	106.59	106.2 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.003	< 0.598 (-0.2σ)	D_{220}	5695.7	5700 ± 41 (-0.5σ)	$f^{143\times217}_{2000}$	31.76	31.4 ± 2.2 (-0.4σ)
$\boldsymbol{A^{\rm kSZ}}$	4.57	$5.24^{+3.6}_{-2.4}$ $(+0.7\sigma)$	D_{810}	2528.6	2530 ± 14 (-0.2σ)	$\chi^2_{\rm lowTEB}$	10495.93	10496.5 ± 2.4 (-0.3σ)
$\boldsymbol{A^{\rm dust}_{100}}$	0.970	0.99 ± 0.19	D_{1420}	813.4	815.0 ± 5.1 (-0.0σ)	$\chi^2_{\rm CamSpec}$	8044.6	8059.8 ± 6.0
$\boldsymbol{A^{\rm dust}_{143}}$	1.026	1.02 ± 0.18	$n_{\rm s,0.002}$	0.96714	0.9699 ± 0.0049 $(+0.4\sigma)$	$\chi^2_{\rm 6DF}$	0.0060	0.067 ± 0.090 (-0.1σ)
$\boldsymbol{A^{\rm dust}_{217}}$	1.217	1.22 ± 0.12	$Y_{\rm P}$	0.244913	$0.244937^{+0.000080}_{-0.000090}$ (-4.5σ)	$\chi^2_{\rm MGS}$	1.47	1.36 ± 0.58 $(+0.1\sigma)$
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.964	0.98 ± 0.18	Age/Gyr	13.7793	$13.807^{+0.034}_{-0.044}$ (-0.0σ)	$\chi^2_{\rm DR11CMASS}$	2.409	2.94 ± 0.77 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99666	0.99679 ± 0.00097 (-1.4σ)	z_*	1090.032	1089.90 ± 0.31 (-0.1σ)	$\chi^2_{\rm DR11LOWZ}$	0.425	0.76 ± 0.65 (-0.1σ)
$\boldsymbol{c_{217}}$	0.99735	0.9972 ± 0.0018 $(+0.9\sigma)$	r_*	144.662	144.85 ± 0.36 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	3.53	8.48 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta^1_1}$	−0.096	-0.06 ± 0.99	$100\theta_*$	1.041149	1.04123 ± 0.00042 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18540.5	18556.3 ± 5.8 $(+1303.7\sigma)$
H_0	67.93	67.61 ± 0.65 $(+0.1\sigma)$	$z_{\rm drag}$	1059.551	1059.63 ± 0.44 (-0.0σ)	$\chi^2_{\rm BAO}$	4.312	5.13 ± 1.1 (-0.0σ)

Best-fit $\chi^2_{\rm eff} = 18548.40$; $\Delta\chi^2_{\rm eff} = 7282.55$; $\bar{\chi}^2_{\rm eff} = 18569.95$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.68$; $R - 1 = 0.01124$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.47 (Δ 0.00) DR11CMASS: 2.41 (Δ -0.01) DR11LOWZ: 0.42 (Δ -0.00) CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.93 (Δ -0.56) CamSpec like_v9.10CMH_unified: 8044.63

7.46 base_mnu_CamSpecHM_TT_lowTEB_BAO_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02230 ± 0.00020 (-0.0σ)	Ω_m	0.3092 ± 0.0080 (-0.1σ)	$100\theta_D$	0.16091 ± 0.00025 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1186 ± 0.0014 (-0.1σ)	$\Omega_m h^2$	0.1417 ± 0.0012 (-0.1σ)	z_{eq}	3366 ± 33 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04103 ± 0.00042 $(+0.1\sigma)$	$\Omega_\nu h^2$	< 0.00107 $(+0.0\sigma)$	$100\theta_{eq}$	0.8198 ± 0.0062 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.082 ± 0.019 (-0.0σ)	$\Omega_m h^3$	$0.09596^{+0.00065}_{-0.00053}$ (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07174 ± 0.00044 $(+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.0995 $(+0.0\sigma)$	σ_8	$0.825^{+0.021}_{-0.017}$ (-0.1σ)	$H(0.57)$	$93.03^{+0.37}_{-0.31}$ $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.093 ± 0.037 (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.459 ± 0.011 (-0.1σ)	$D_A(0.57)$	$1386.3^{+8.4}_{-9.5}$ (-0.1σ)
$\boldsymbol{n_s}$	0.9702 ± 0.0049 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.615^{+0.015}_{-0.013}$ (-0.1σ)	$F_{AP}(0.57)$	0.6754 ± 0.0020 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.003^{+0.024}_{-0.021}$ (-0.1σ)	$f\sigma_8(0.57)$	$0.480^{+0.011}_{-0.010}$ (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	245 ± 22 (-0.4σ)	$\langle d^2 \rangle^{1/2}$	2.478 ± 0.044 (-0.2σ)	$\sigma_8(0.57)$	$0.615^{+0.016}_{-0.013}$ (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	z_{re}	10.2 ± 1.7 (-0.0σ)	Y_P^{BBN}	0.246271 ± 0.000086 (-4.5σ)
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$10^9 A_s$	$2.207^{+0.077}_{-0.087}$ (-0.1σ)	f_{2000}^{143}	28.4 ± 2.9 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.872 ± 0.012 (-0.3σ)	f_{2000}^{217}	106.1 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.30^{+1.5}_{-2.5}$ (-1.0σ)	D_{40}	1226 ± 14 (-0.6σ)	$f_{2000}^{143\times217}$	31.4 ± 2.2 (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{220}	5701 ± 41 (-0.5σ)	χ^2_{lowTEB}	10496.5 ± 2.4 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.604 (-0.2σ)	D_{810}	2530 ± 14 (-0.2σ)	$\chi^2_{CamSpec}$	8059.8 ± 6.0
$\boldsymbol{A^{kSZ}}$	$5.19^{+3.5}_{-2.6}$ $(+0.7\sigma)$	D_{1420}	815.1 ± 5.1 $(+0.0\sigma)$	χ^2_{H070p6}	0.79 ± 0.33 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9702 ± 0.0049 $(+0.4\sigma)$	χ^2_{6DF}	0.057 ± 0.078 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	$0.244943^{+0.000081}_{-0.000090}$ (-4.5σ)	χ^2_{MGS}	1.45 ± 0.58 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Age/Gyr	$13.802^{+0.033}_{-0.042}$ (-0.0σ)	$\chi^2_{DR11CMASS}$	2.89 ± 0.70 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	1089.87 ± 0.31 (-0.1σ)	$\chi^2_{DR11LOWZ}$	0.66 ± 0.59 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99679 ± 0.00097 (-1.4σ)	r_*	144.86 ± 0.35 $(+0.1\sigma)$	χ^2_{prior}	8.45 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04125 ± 0.00042 $(+0.1\sigma)$	χ^2_{CMB}	18556.3 ± 5.8 $(+1310.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	z_{drag}	1059.65 ± 0.44 (-0.0σ)	χ^2_{BAO}	5.06 ± 1.0 (-0.0σ)
H_0	67.72 ± 0.63 $(+0.1\sigma)$	r_{drag}	147.56 ± 0.38 $(+0.1\sigma)$		
Ω_Λ	0.6908 ± 0.0080 $(+0.1\sigma)$	k_D	0.14034 ± 0.00046 (-0.0σ)		

$\bar{\chi}^2_{eff} = 18570.62$; $\Delta\bar{\chi}^2_{eff} = 7282.68$; $R - 1 = 0.01276$

7.47 base_mnu_CamSpecHM_TT_lowTEB_BAO_post_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02231 ± 0.00020 (-0.0σ)	Ω_m	0.3084 ± 0.0077 (-0.1σ)	$100\theta_D$	0.16090 ± 0.00025 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0014 (-0.1σ)	$\Omega_m h^2$	0.1416 ± 0.0012 (-0.1σ)	z_{eq}	3364 ± 33 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04105 ± 0.00042 $(+0.1\sigma)$	$\Omega_\nu h^2$	< 0.00104 $(+0.0\sigma)$	$100\theta_{eq}$	$0.8201^{+0.0059}_{-0.0066}$ $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.082 ± 0.019 (-0.0σ)	$\Omega_m h^3$	$0.09598^{+0.00064}_{-0.00053}$ (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07178 ± 0.00043 $(+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.0964 $(+0.0\sigma)$	σ_8	$0.826^{+0.021}_{-0.017}$ (-0.1σ)	$H(0.57)$	$93.06^{+0.36}_{-0.31}$ $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.094 ± 0.037 (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.459 ± 0.011 (-0.1σ)	$D_A(0.57)$	$1385.5^{+8.2}_{-9.2}$ (-0.0σ)
$\boldsymbol{n_s}$	0.9704 ± 0.0048 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.615^{+0.015}_{-0.013}$ (-0.1σ)	$F_{AP}(0.57)$	0.6752 ± 0.0020 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.003^{+0.024}_{-0.021}$ (-0.1σ)	$f\sigma_8(0.57)$	0.480 ± 0.010 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	245 ± 22 (-0.4σ)	$\langle d^2 \rangle^{1/2}$	2.477 ± 0.044 (-0.2σ)	$\sigma_8(0.57)$	$0.615^{+0.016}_{-0.013}$ (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	z_{re}	10.3 ± 1.7 (-0.0σ)	Y_P^{BBN}	0.246274 ± 0.000086 (-4.5σ)
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$10^9 A_s$	$2.207^{+0.077}_{-0.087}$ (-0.1σ)	f_{2000}^{143}	28.4 ± 2.9 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.871 ± 0.012 (-0.3σ)	f_{2000}^{217}	106.1 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.30^{+1.5}_{-2.5}$ (-1.0σ)	D_{40}	1225 ± 14 (-0.6σ)	$f_{2000}^{143\times217}$	31.4 ± 2.2 (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{220}	5701 ± 41 (-0.5σ)	χ^2_{lowTEB}	10496.5 ± 2.4 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.605 (-0.2σ)	D_{810}	2530 ± 14 (-0.2σ)	$\chi^2_{CamSpec}$	8059.8 ± 6.0
$\boldsymbol{A^{kSZ}}$	$5.18^{+3.5}_{-2.6}$ $(+0.7\sigma)$	D_{1420}	815.1 ± 5.1 $(+0.0\sigma)$	χ^2_{H070p6}	0.75 ± 0.31 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9704 ± 0.0048 $(+0.4\sigma)$	χ^2_{JLA}	706.71 ± 0.20 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	$0.244946^{+0.000081}_{-0.000090}$ (-4.5σ)	χ^2_{6DF}	0.050 ± 0.070 (-0.1σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Age/Gyr	$13.799^{+0.033}_{-0.041}$ (-0.0σ)	χ^2_{MGS}	1.50 ± 0.57 $(+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	1089.85 ± 0.31 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.86 ± 0.66 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99679 ± 0.00097 (-1.4σ)	r_*	144.88 ± 0.35 $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.60 ± 0.55 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04126 ± 0.00042 $(+0.1\sigma)$	χ^2_{prior}	8.45 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	z_{drag}	1059.66 ± 0.44 (-0.1σ)	χ^2_{CMB}	18556.3 ± 5.8 $(+1311.7\sigma)$
H_0	67.78 ± 0.61 $(+0.1\sigma)$	r_{drag}	147.57 ± 0.37 $(+0.1\sigma)$	χ^2_{BAO}	5.01 ± 0.98 (-0.0σ)
Ω_Λ	0.6916 ± 0.0077 $(+0.1\sigma)$	k_D	0.14033 ± 0.00046 (-0.0σ)		

$\bar{\chi}^2_{eff} = 19277.26$; $\Delta\bar{\chi}^2_{eff} = 7282.68$; $R - 1 = 0.01283$

7.48 base_mnu_CamSpecHM_TTTEEE_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022348	0.02238 ± 0.00015 $(+0.7\sigma)$	H_0	68.03	$67.66^{+0.65}_{-0.56}$ $(+0.2\sigma)$	$r_{\rm drag}$	147.315	147.41 ± 0.27 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11928	0.1188 ± 0.0011 (-0.5σ)	Ω_Λ	0.6938	$0.6897^{+0.0081}_{-0.0072}$ $(+0.2\sigma)$	$k_{\rm D}$	0.140626	0.14056 ± 0.00032 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040838	1.04087 ± 0.00029 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3062	$0.3103^{+0.0072}_{-0.0081}$ (-0.2σ)	$100\theta_{\rm D}$	0.160784	0.16076 ± 0.00019 (-0.7σ)
$\boldsymbol{\tau}$	0.0745	0.080 ± 0.018 (-0.1σ)	$\Omega_{\rm m}h^2$	0.14173	0.1420 ± 0.0010 (-0.2σ)	$z_{\rm eq}$	3384.4	3373 ± 26 (-0.4σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.009	< 0.100 $(+0.3\sigma)$	$\Omega_\nu h^2$	0.000099	< 0.00108 $(+0.3\sigma)$	$100\theta_{\rm eq}$	0.8163	0.8186 ± 0.0049 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0793	3.090 ± 0.035 (-0.2σ)	$\Omega_{\rm m}h^3$	0.096423	$0.09608^{+0.00053}_{-0.00038}$ $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071853	0.07165 ± 0.00041 $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.96716	0.9690 ± 0.0042 $(+0.7\sigma)$	σ_8	0.8361	$0.824^{+0.020}_{-0.016}$ (-0.5σ)	$H(0.57)$	93.262	$93.03^{+0.35}_{-0.28}$ $(+0.2\sigma)$
$\boldsymbol{y_{cal}}$	0.99992	1.0003 ± 0.0025 (-0.1σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4626	0.4588 ± 0.0093 (-0.6σ)	$D_{\rm A}(0.57)$	1381.4	$1386.9^{+7.6}_{-9.2}$ (-0.2σ)
$\boldsymbol{A^{PS}_{100}}$	246.4	244 ± 22 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6219	$0.615^{+0.013}_{-0.012}$ (-0.6σ)	$F_{\rm AP}(0.57)$	0.67467	0.6757 ± 0.0019 (-0.2σ)
$\boldsymbol{A^{PS}_{143}}$	34.8	38 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0136	$1.001^{+0.022}_{-0.019}$ (-0.6σ)	$f\sigma_8(0.57)$	0.4838	$0.4790^{+0.0099}_{-0.0087}$ (-0.5σ)
$\boldsymbol{A^{PS}_{217}}$	97.1	99 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.4852	2.478 ± 0.040 (-0.6σ)	$\sigma_8(0.57)$	0.6229	$0.613^{+0.015}_{-0.012}$ (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	46.8	45 ± 7 (-2.8σ)	$z_{\rm re}$	9.61	$10.0^{+1.7}_{-1.5}$ (-0.1σ)	$Y_{\rm P}^{\rm BBN}$	0.246293	0.246309 ± 0.000065 (-5.9σ)
$\boldsymbol{A^{tSZ}_{143}}$	3.54	$3.40^{+1.6}_{-2.5}$ (-1.1σ)	$10^9A_{\rm s}$	2.174	2.198 ± 0.076 (-0.2σ)	f^{143}_{2000}	28.70	28.2 ± 2.7 (-0.4σ)
$\boldsymbol{r^{PS}_{143\times217}}$	0.420	$0.52^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8733	1.873 ± 0.011 (-0.7σ)	f^{217}_{2000}	106.17	105.9 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.618 (-0.2σ)	D_{40}	1228.8	1228 ± 13 (-0.9σ)	$f^{143\times217}_{2000}$	31.25	31.1 ± 2.0 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	4.55	$5.13^{+3.4}_{-2.7}$ $(+0.8\sigma)$	D_{220}	5707.3	5713 ± 39 (-0.5σ)	$\chi^2_{\rm lowTEB}$	10495.75	10496.5 ± 2.1 (-0.5σ)
$\boldsymbol{A^{dust}_{100}}$	0.978	0.99 ± 0.19	D_{810}	2527.9	2530 ± 14 (-0.4σ)	$\chi^2_{\rm CamSpec}$	12935.5	12952.4 ± 6.0
$\boldsymbol{A^{dust}_{143}}$	1.021	1.02 ± 0.18	D_{1420}	813.65	815.1 ± 4.8 $(+0.0\sigma)$	$\chi^2_{\rm 6DF}$	0.0029	0.061 ± 0.084 (-0.1σ)
$\boldsymbol{A^{dust}_{217}}$	1.226	1.22 ± 0.11	$n_{\rm s,0.002}$	0.96716	0.9690 ± 0.0042 $(+0.7\sigma)$	$\chi^2_{\rm MGS}$	1.54	1.33 ± 0.52 $(+0.3\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.974	0.98 ± 0.18	$Y_{\rm P}$	0.244962	$0.244979^{+0.000063}_{-0.000071}$ (-5.9σ)	$\chi^2_{\rm DR11CMASS}$	2.428	2.88 ± 0.71 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99667	0.99681 ± 0.00097 (-1.7σ)	Age/Gyr	13.7723	$13.799^{+0.028}_{-0.038}$ (-0.2σ)	$\chi^2_{\rm DR11LOWZ}$	0.374	0.76 ± 0.61 (-0.2σ)
$\boldsymbol{c_{217}}$	0.99727	0.9970 ± 0.0018 $(+0.8\sigma)$	z_*	1089.862	1089.78 ± 0.25 (-0.7σ)	$\chi^2_{\rm prior}$	3.74	8.97 ± 3.6 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.00418	1.0043 ± 0.0045	r_*	144.643	144.74 ± 0.26 $(+0.2\sigma)$	$\chi^2_{\rm CMB}$	23431.3	23449.0 ± 6.0 $(+1574.3\sigma)$
$\boldsymbol{c_{EE}}$	1.00094	1.0010 ± 0.0042	$100\theta_*$	1.041010	1.04107 ± 0.00029 $(+0.2\sigma)$	$\chi^2_{\rm BAO}$	4.344	5.03 ± 1.0 (-0.1σ)
$\boldsymbol{\beta^1_1}$	-0.06	-0.1 ± 1.0	$z_{\rm drag}$	1059.818	1059.87 ± 0.32 $(+0.5\sigma)$			

Best-fit $\chi^2_{\rm eff} = 23439.39$; $\Delta\chi^2_{\rm eff} = 10500.06$; $\bar{\chi}^2_{\rm eff} = 23462.96$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.54$; $R - 1 = 0.01096$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 (Δ -0.00) MGS: 1.54 (Δ 0.07) DR11CMASS: 2.43 (Δ 0.01) DR11LOWZ: 0.37 (Δ -0.06) CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.75 (Δ -1.19) CamSpec like_v9.10CMH_unified: 12935.55

7.49 base_mnu_CamSpecHM_TTTEEE_lowTEB_BAO_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02239 \pm 0.00015 \quad (+0.7\sigma)$	H_0	$67.75^{+0.63}_{-0.55} \quad (+0.3\sigma)$	$r_{\rm drag}$	$147.42 \pm 0.27 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1187 \pm 0.0011 \quad (-0.5\sigma)$	Ω_Λ	$0.6908^{+0.0079}_{-0.0069} \quad (+0.3\sigma)$	$k_{\rm D}$	$0.14056 \pm 0.00032 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04088 \pm 0.00029 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.3092^{+0.0069}_{-0.0079} \quad (-0.3\sigma)$	$100\theta_{\rm D}$	$0.16075 \pm 0.00019 \quad (-0.7\sigma)$
$\boldsymbol{\tau}$	$0.080 \pm 0.018 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1419 \pm 0.0010 \quad (-0.3\sigma)$	$z_{\rm eq}$	$3371 \pm 25 \quad (-0.4\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.0921 \quad (+0.3\sigma)$	$\Omega_\nu h^2$	$< 0.000990 \quad (+0.3\sigma)$	$100\theta_{\rm eq}$	$0.8190 \pm 0.0048 \quad (+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.090 \pm 0.035 \quad (-0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09612^{+0.00051}_{-0.00037} \quad (+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07171 \pm 0.00040 \quad (+0.3\sigma)$
$\boldsymbol{n_s}$	$0.9692 \pm 0.0042 \quad (+0.7\sigma)$	σ_8	$0.825^{+0.019}_{-0.016} \quad (-0.5\sigma)$	$H(0.57)$	$93.08^{+0.33}_{-0.27} \quad (+0.2\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4587 \pm 0.0092 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1385.6^{+7.4}_{-8.9} \quad (-0.3\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$243 \pm 23 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.615^{+0.013}_{-0.012} \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6754^{+0.0018}_{-0.0020} \quad (-0.3\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$38 \pm 7 \quad (-0.7\sigma)$	$\sigma_8/h^{0.5}$	$1.002^{+0.021}_{-0.018} \quad (-0.5\sigma)$	$f\sigma_8(0.57)$	$0.4794^{+0.0096}_{-0.0087} \quad (-0.5\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$99 \pm 10 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.478 \pm 0.040 \quad (-0.6\sigma)$	$\sigma_8(0.57)$	$0.614^{+0.015}_{-0.012} \quad (-0.4\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$45 \pm 7 \quad (-2.8\sigma)$	$z_{\rm re}$	$10.1^{+1.7}_{-1.5} \quad (-0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246313 \pm 0.000065 \quad (-5.9\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.39^{+1.5}_{-2.5} \quad (-1.1\sigma)$	$10^9 A_{\rm s}$	$2.200 \pm 0.076 \quad (-0.2\sigma)$	f^{143}_{2000}	$28.1 \pm 2.6 \quad (-0.4\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.52 ± 0.12	$10^9 A_{\rm s} e^{-2\tau}$	$1.872 \pm 0.011 \quad (-0.7\sigma)$	f^{217}_{2000}	$105.8 \pm 1.9 \quad (+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.621 \quad (-0.2\sigma)$	D_{40}	$1228 \pm 13 \quad (-0.9\sigma)$	$f^{143\times217}_{2000}$	$31.0 \pm 1.9 \quad (-0.5\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.12^{+3.4}_{-2.7} \quad (+0.9\sigma)$	D_{220}	$5713 \pm 39 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.5 \pm 2.1 \quad (-0.5\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	$2530 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12952.3 ± 6.0
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	D_{1420}	$815.2 \pm 4.8 \quad (+0.0\sigma)$	$\chi^2_{\rm H070p6}$	$0.76 \pm 0.30 \quad (-0.2\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.11	$n_{\rm s,0.002}$	$0.9692 \pm 0.0042 \quad (+0.7\sigma)$	$\chi^2_{\rm 6DF}$	$0.051 \pm 0.072 \quad (-0.1\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244984^{+0.000063}_{-0.000071} \quad (-6.0\sigma)$	$\chi^2_{\rm MGS}$	$1.41 \pm 0.52 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00097 \quad (-1.8\sigma)$	Age/Gyr	$13.794^{+0.027}_{-0.037} \quad (-0.2\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.82 \pm 0.60 \quad (-0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.8\sigma)$	z_*	$1089.76 \pm 0.24 \quad (-0.7\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.67 \pm 0.56 \quad (-0.2\sigma)$
$\boldsymbol{c_{TE}}$	1.0042 ± 0.0045	r_*	$144.76 \pm 0.26 \quad (+0.2\sigma)$	$\chi^2_{\rm prior}$	$8.96 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0010 ± 0.0042	$100\theta_*$	$1.04109 \pm 0.00029 \quad (+0.2\sigma)$	$\chi^2_{\rm CMB}$	$23448.9 \pm 6.0 \quad (+1579.8\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$z_{\rm drag}$	$1059.88 \pm 0.32 \quad (+0.6\sigma)$	$\chi^2_{\rm BAO}$	$4.95 \pm 0.89 \quad (-0.0\sigma)$

$\bar{\chi}^2_{\rm eff} = 23463.56$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.51$; $R - 1 = 0.01058$

7.50 base_mnu_CamSpecHM_TTTEEE_lowTEB_BAO_post_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02240 ± 0.00015 $(+0.7\sigma)$	Ω_Λ	$0.6915^{+0.0078}_{-0.0067}$ $(+0.3\sigma)$	$100\theta_{\rm D}$	0.16074 ± 0.00019 (-0.7σ)
$\boldsymbol{\Omega_c h^2}$	0.1186 ± 0.0011 (-0.4σ)	$\Omega_{\rm m}$	$0.3085^{+0.0067}_{-0.0078}$ (-0.3σ)	$z_{\rm eq}$	3370 ± 25 (-0.4σ)
$\boldsymbol{100\theta_{MC}}$	1.04089 ± 0.00029 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14179 ± 0.00099 (-0.3σ)	$100\theta_{\rm eq}$	0.8192 ± 0.0048 $(+0.4\sigma)$
$\boldsymbol{\tau}$	0.081 ± 0.018 (-0.1σ)	$\Omega_\nu h^2$	< 0.000956 $(+0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07175 ± 0.00039 $(+0.3\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.0889 $(+0.3\sigma)$	$\Omega_{\rm m}h^3$	$0.09614^{+0.00049}_{-0.00037}$ $(+0.1\sigma)$	$H(0.57)$	$93.10^{+0.32}_{-0.26}$ $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.091 ± 0.035 (-0.2σ)	σ_8	$0.826^{+0.019}_{-0.016}$ (-0.5σ)	$D_{\rm A}(0.57)$	$1384.9^{+7.2}_{-8.6}$ (-0.3σ)
$\boldsymbol{n_s}$	0.9693 ± 0.0042 $(+0.7\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4585 ± 0.0091 (-0.6σ)	$F_{\rm AP}(0.57)$	$0.6753^{+0.0017}_{-0.0020}$ (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.615^{+0.013}_{-0.011}$ (-0.5σ)	$f\sigma_8(0.57)$	0.4795 ± 0.0089 (-0.5σ)
$\boldsymbol{A_{100}^{PS}}$	243 ± 23 (-0.6σ)	$\sigma_8/h^{0.5}$	$1.003^{+0.021}_{-0.018}$ (-0.5σ)	$\sigma_8(0.57)$	$0.615^{+0.015}_{-0.012}$ (-0.4σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.478 ± 0.040 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246315 ± 0.000064 (-6.0σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	$10.1^{+1.7}_{-1.5}$ (-0.1σ)	f_{2000}^{143}	28.1 ± 2.6 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$10^9 A_{\rm s}$	2.200 ± 0.076 (-0.2σ)	f_{2000}^{217}	105.8 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.39^{+1.5}_{-2.5}$ (-1.1σ)	$10^9 A_{\rm s}e^{-2\tau}$	1.872 ± 0.011 (-0.7σ)	$f_{2000}^{143\times217}$	31.0 ± 1.9 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	D_{40}	1228 ± 13 (-0.9σ)	$\chi^2_{\rm lowTEB}$	10496.5 ± 2.1 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	5713 ± 39 (-0.5σ)	$\chi^2_{\rm CamSpec}$	12952.3 ± 6.0
$\boldsymbol{A^{kSZ}}$	$5.12^{+3.4}_{-2.7}$ $(+0.9\sigma)$	D_{810}	2530 ± 14 (-0.4σ)	$\chi^2_{\rm H070p6}$	0.74 ± 0.29 (-0.2σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	815.2 ± 4.7 $(+0.0\sigma)$	$\chi^2_{\rm JLA}$	706.71 ± 0.19 (-0.2σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	0.9693 ± 0.0042 $(+0.7\sigma)$	$\chi^2_{\rm 6DF}$	0.045 ± 0.064 (-0.1σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.11	$Y_{\rm P}$	$0.244986^{+0.000063}_{-0.000071}$ (-6.0σ)	$\chi^2_{\rm MGS}$	1.46 ± 0.51 $(+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.792^{+0.026}_{-0.035}$ (-0.2σ)	$\chi^2_{\rm DR11CMASS}$	2.79 ± 0.54 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00097 (-1.8σ)	z_*	1089.74 ± 0.24 (-0.7σ)	$\chi^2_{\rm DR11LOWZ}$	0.61 ± 0.52 (-0.2σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.8\sigma)$	r_*	144.77 ± 0.26 $(+0.2\sigma)$	$\chi^2_{\rm prior}$	8.96 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0042 ± 0.0045	$100\theta_*$	1.04109 ± 0.00029 $(+0.2\sigma)$	$\chi^2_{\rm CMB}$	23448.9 ± 6.0 $(+1579.1\sigma)$
$\boldsymbol{c_{EE}}$	1.0010 ± 0.0042	$z_{\rm drag}$	1059.89 ± 0.32 $(+0.6\sigma)$	$\chi^2_{\rm BAO}$	4.90 ± 0.80 (-0.0σ)
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	147.43 ± 0.27 $(+0.1\sigma)$		
H_0	$67.80^{+0.61}_{-0.53}$ $(+0.3\sigma)$	$k_{\rm D}$	0.14055 ± 0.00032 $(+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 24170.18$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.47$; $R - 1 = 0.01108$

7.51 base_mnu_plikHM_TT_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022256	0.02227 ± 0.00020	$\Omega_\nu h^2$	0.00069	< 0.00156	k_D	0.140245	0.14017 ± 0.00043
$\boldsymbol{\Omega_c h^2}$	0.11859	0.1181 ± 0.0014	$\Omega_m h^3$	0.09599	$0.09567^{+0.00070}_{-0.00055}$	$100\theta_D$	0.160980	0.16097 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.041011	1.04105 ± 0.00041	σ_8	0.8162	$0.808^{+0.016}_{-0.013}$	z_{eq}	3365.8	3356 ± 32
$\boldsymbol{\tau}$	0.0654	$0.073^{+0.016}_{-0.019}$	$\sigma_8\Omega_m^{0.5}$	0.4528	0.4503 ± 0.0074	k_{eq}	0.010273	0.010242 ± 0.000096
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.064	< 0.145	$\sigma_8\Omega_m^{0.25}$	0.6079	$0.603^{+0.010}_{-0.0089}$	$100\theta_{eq}$	0.8196	0.8217 ± 0.0060
$\boldsymbol{\ln(10^{10}A_s)}$	3.0617	$3.075^{+0.029}_{-0.035}$	$\sigma_8/h^{0.5}$	0.9911	$0.983^{+0.017}_{-0.014}$	$100\theta_{s,eq}$	0.45275	0.4538 ± 0.0031
$\boldsymbol{n_s}$	0.96799	0.9687 ± 0.0047	$\langle d^2\rangle^{1/2}$	2.4465	2.450 ± 0.026	$r_{drag}/D_V(0.57)$	0.071819	0.07167 ± 0.00047
$\boldsymbol{y_{cal}}$	1.00014	1.0003 ± 0.0025	z_{re}	8.78	9.40 ± 1.6	$H(0.57)$	93.075	$92.89^{+0.41}_{-0.35}$
$\boldsymbol{A_{217}^{CIB}}$	67.5	64.3 ± 6.6	$10^9 A_s$	2.136	$2.166^{+0.061}_{-0.077}$	$D_A(0.57)$	1384.9	$1389.2^{+9.2}_{-11}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8742	1.872 ± 0.011	$F_{AP}(0.57)$	0.67506	$0.6758^{+0.0021}_{-0.0023}$
$\boldsymbol{A_{143}^{tSZ}}$	7.17	5.07 ± 1.9	D_{40}	1225.3	1227 ± 12	$f\sigma_8(0.57)$	0.4738	$0.4707^{+0.0071}_{-0.0063}$
$\boldsymbol{A_{100}^{PS}}$	253.6	259 ± 28	D_{220}	5714.7	5719 ± 40	$\sigma_8(0.57)$	0.6082	$0.602^{+0.013}_{-0.010}$
$\boldsymbol{A_{143}^{PS}}$	39.4	44 ± 8	D_{810}	2532.7	2532 ± 13	f_{2000}^{143}	30.02	30.3 ± 2.8
$\boldsymbol{A_{143\times217}^{PS}}$	32.8	39^{+10}_{-10}	D_{1420}	814.89	814.9 ± 4.9	$f_{2000}^{143\times217}$	32.60	32.6 ± 2.0
$\boldsymbol{A_{217}^{PS}}$	97.1	96 ± 10	D_{2000}	230.17	230.2 ± 1.7	f_{2000}^{217}	106.15	106.2 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.00	< 4.89	$n_{s,0.002}$	0.96799	0.9687 ± 0.0047	$\chi^2_{lensing}$	9.39	9.75 ± 1.4
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.46 ± 1.9	Y_P	0.245343	0.245348 ± 0.000092	χ^2_{lowTEB}	10494.90	10495.8 ± 1.5
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.05 ± 1.8	Y_P^{BBN}	0.246669	0.246674 ± 0.000093	χ^2_{plik}	766.2	779.5 ± 5.5
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.1 ± 4.2	10^5D/H	2.6128	2.610 ± 0.039	χ^2_{6DF}	0.0061	0.072 ± 0.098
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.7 ± 7.4	Age/Gyr	13.7973	$13.819^{+0.037}_{-0.047}$	χ^2_{MGS}	1.47	1.36 ± 0.59
$\boldsymbol{c_{100}}$	0.99789	0.99789 ± 0.00078	z_*	1089.936	1089.88 ± 0.32	$\chi^2_{DR11CMASS}$	2.395	2.98 ± 0.85
$\boldsymbol{c_{217}}$	0.99599	0.9960 ± 0.0014	r_*	144.887	144.98 ± 0.33	$\chi^2_{DR11LOWZ}$	0.422	0.78 ± 0.70
H_0	67.82	$67.54^{+0.74}_{-0.66}$	$100\theta_*$	1.041212	1.04127 ± 0.00041	χ^2_{prior}	2.13	7.33 ± 3.6
Ω_Λ	0.6923	$0.6894^{+0.0093}_{-0.0081}$	D_A/Gpc	13.9153	13.924 ± 0.032	χ^2_{CMB}	11270.5	11285.0 ± 5.5
Ω_m	0.3077	$0.3106^{+0.0081}_{-0.0093}$	z_{drag}	1059.551	1059.58 ± 0.45	χ^2_{BAO}	4.30	5.19 ± 1.3
$\Omega_m h^2$	0.14154	0.1417 ± 0.0012	r_{drag}	147.598	147.69 ± 0.35			

Best-fit $\chi^2_{eff} = 11276.91$; $\bar{\chi}^2_{eff} = 11297.54$; $R - 1 = 0.00541$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.40 DR11LOWZ: 0.42 CMB - smica_g30_ftl_full_pp: 9.39 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.90 plik_dx11dr2_HM_v18_TT: 766.20

7.52 base_mnu_plikHM_TT_lowTEB_lensing_BAO_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022290	0.02229 ± 0.00020	$\Omega_\nu h^2$	0.00055	< 0.00144	k_D	0.140298	0.14017 ± 0.00043
$\boldsymbol{\Omega_c h^2}$	0.11855	0.1181 ± 0.0014	$\Omega_m h^3$	0.09613	$0.09573^{+0.00068}_{-0.00054}$	$100\theta_D$	0.160939	0.16096 ± 0.00025
$\boldsymbol{100\theta_{MC}}$	1.041039	1.04107 ± 0.00041	σ_8	0.8183	$0.810^{+0.015}_{-0.012}$	z_{eq}	3365.7	3354 ± 31
$\boldsymbol{\tau}$	0.0646	$0.073^{+0.015}_{-0.018}$	$\sigma_8\Omega_m^{0.5}$	0.4525	0.4501 ± 0.0073	k_{eq}	0.010272	0.010236 ± 0.000095
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.051	< 0.134	$\sigma_8\Omega_m^{0.25}$	0.6085	$0.604^{+0.010}_{-0.0088}$	$100\theta_{eq}$	0.8197	0.8220 ± 0.0060
$\boldsymbol{\ln(10^{10}A_s)}$	3.0600	$3.075^{+0.028}_{-0.034}$	$\sigma_8/h^{0.5}$	0.9924	$0.984^{+0.016}_{-0.014}$	$100\theta_{s,eq}$	0.45280	0.4540 ± 0.0031
$\boldsymbol{n_s}$	0.96843	0.9690 ± 0.0047	$\langle d^2\rangle^{1/2}$	2.4450	2.449 ± 0.026	$r_{drag}/D_V(0.57)$	0.071917	0.07175 ± 0.00046
$\boldsymbol{y_{cal}}$	1.00020	1.0002 ± 0.0024	z_{re}	8.69	9.39 ± 1.5	$H(0.57)$	93.175	$92.96^{+0.39}_{-0.34}$
$\boldsymbol{A_{217}^{CIB}}$	67.7	64.2 ± 6.6	$10^9 A_s$	2.133	$2.166^{+0.059}_{-0.076}$	$D_A(0.57)$	1382.5	$1387.5^{+8.8}_{-10}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8742	1.872 ± 0.011	$F_{AP}(0.57)$	0.67459	0.6754 ± 0.0021
$\boldsymbol{A_{143}^{tSZ}}$	7.20	5.08 ± 1.9	D_{40}	1224.2	1226 ± 11	$f\sigma_8(0.57)$	0.4742	$0.4710^{+0.0070}_{-0.0062}$
$\boldsymbol{A_{100}^{PS}}$	253.6	259 ± 28	D_{220}	5715.9	5720 ± 39	$\sigma_8(0.57)$	0.6100	$0.603^{+0.012}_{-0.0098}$
$\boldsymbol{A_{143}^{PS}}$	38.7	44 ± 8	D_{810}	2533.1	2532 ± 13	f_{2000}^{143}	29.82	30.2 ± 2.8
$\boldsymbol{A_{143\times217}^{PS}}$	32.1	38^{+10}_{-10}	D_{1420}	815.33	815.0 ± 4.9	$f_{2000}^{143\times217}$	32.41	32.6 ± 2.0
$\boldsymbol{A_{217}^{PS}}$	96.2	96 ± 10	D_{2000}	230.39	230.2 ± 1.7	f_{2000}^{217}	105.94	106.1 ± 1.9
$\boldsymbol{A^{kSZ}}$	0.06	< 4.87	$n_{s,0.002}$	0.96843	0.9690 ± 0.0047	$\chi^2_{lensing}$	9.42	9.77 ± 1.5
$\boldsymbol{A_{100}^{dustTT}}$	7.52	7.47 ± 1.9	Y_P	0.245358	0.245354 ± 0.000092	χ^2_{lowTEB}	10494.80	10495.7 ± 1.4
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.08 ± 1.8	Y_P^{BBN}	0.246684	0.246680 ± 0.000092	χ^2_{plik}	766.2	779.5 ± 5.5
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.69	17.2 ± 4.1	10^5D/H	2.6064	2.607 ± 0.038	χ^2_{H070p6}	0.620	0.82 ± 0.36
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.7 ± 7.4	Age/Gyr	13.7863	$13.813^{+0.036}_{-0.045}$	χ^2_{6DF}	0.00098	0.059 ± 0.083
$\boldsymbol{c_{100}}$	0.99790	0.99789 ± 0.00078	z_*	1089.888	1089.86 ± 0.32	χ^2_{MGS}	1.61	1.46 ± 0.60
$\boldsymbol{c_{217}}$	0.99600	0.9960 ± 0.0014	r_*	144.873	145.00 ± 0.33	$\chi^2_{DR11CMASS}$	2.433	2.91 ± 0.75
H_0	67.99	$67.67^{+0.71}_{-0.64}$	$100\theta_*$	1.041234	1.04129 ± 0.00041	$\chi^2_{DR11LOWZ}$	0.319	0.66 ± 0.62
Ω_Λ	0.6941	$0.6909^{+0.0088}_{-0.0079}$	D_A/Gpc	13.9136	13.925 ± 0.031	χ^2_{prior}	2.18	7.32 ± 3.6
Ω_m	0.3059	$0.3091^{+0.0079}_{-0.0088}$	z_{drag}	1059.628	1059.60 ± 0.44	χ^2_{CMB}	11270.5	11285.0 ± 5.5
$\Omega_m h^2$	0.14139	0.1415 ± 0.0012	r_{drag}	147.571	147.70 ± 0.34	χ^2_{BAO}	4.36	5.09 ± 1.1

Best-fit $\chi^2_{eff} = 11277.62$; $\bar{\chi}^2_{eff} = 11298.19$; $R - 1 = 0.00655$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.43 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.42 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.80 plik_dx11dr2_HM_v18_TT: 766.24 Hubble - H070p6: 0.62

7.53 base_mnu_plikHM_TT_lowTEB_lensing_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022266	0.02229 ± 0.00020	$\Omega_m h^3$	0.09607	$0.09576^{+0.00066}_{-0.00054}$	z_{eq}	3364.3	3352 ± 31
$\boldsymbol{\Omega_c h^2}$	0.11852	0.1180 ± 0.0013	σ_8	0.8181	$0.810^{+0.015}_{-0.012}$	k_{eq}	0.010268	0.010232 ± 0.000094
$\boldsymbol{100\theta_{MC}}$	1.041032	1.04108 ± 0.00041	$\sigma_8\Omega_m^{0.5}$	0.4525	0.4499 ± 0.0072	$100\theta_{eq}$	0.8199	0.8223 ± 0.0059
$\boldsymbol{\tau}$	0.0649	$0.073^{+0.015}_{-0.018}$	$\sigma_8\Omega_m^{0.25}$	0.6084	$0.6038^{+0.0099}_{-0.0087}$	$100\theta_{s,eq}$	0.45290	0.4542 ± 0.0030
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.051	< 0.130	$\sigma_8/h^{0.5}$	0.9923	$0.985^{+0.016}_{-0.014}$	$r_{drag}/D_V(0.57)$	0.071918	0.07180 ± 0.00044
$\boldsymbol{\ln(10^{10}A_s)}$	3.0599	$3.075^{+0.028}_{-0.034}$	$\langle d^2\rangle^{1/2}$	2.4451	2.448 ± 0.026	$H(0.57)$	93.156	$92.99^{+0.38}_{-0.33}$
$\boldsymbol{n_s}$	0.96826	0.9691 ± 0.0047	z_{re}	8.72	9.40 ± 1.5	$D_A(0.57)$	1382.8	$1386.5^{+8.6}_{-9.8}$
$\boldsymbol{y_{cal}}$	0.99996	1.0002 ± 0.0024	$10^9 A_s$	2.133	$2.166^{+0.058}_{-0.075}$	$F_{AP}(0.57)$	0.67459	0.6752 ± 0.0020
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.2 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8732	1.872 ± 0.011	$f\sigma_8(0.57)$	0.4741	$0.4711^{+0.0069}_{-0.0062}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1223.9	1226 ± 11	$\sigma_8(0.57)$	0.6099	$0.604^{+0.012}_{-0.0097}$
$\boldsymbol{A_{143}^{tSZ}}$	7.25	5.08 ± 1.9	D_{220}	5712.2	5720 ± 39	f_{2000}^{143}	29.92	30.2 ± 2.8
$\boldsymbol{A_{100}^{PS}}$	254.2	259 ± 28	D_{810}	2531.5	2532 ± 13	$f_{2000}^{143\times217}$	32.54	32.5 ± 2.0
$\boldsymbol{A_{143}^{PS}}$	39.0	44 ± 8	D_{1420}	814.62	815.0 ± 4.9	f_{2000}^{217}	106.05	106.1 ± 1.9
$\boldsymbol{A_{143\times217}^{PS}}$	32.7	38^{+10}_{-10}	D_{2000}	230.13	230.3 ± 1.7	$\chi^2_{lensing}$	9.39	9.77 ± 1.5
$\boldsymbol{A_{217}^{PS}}$	97.0	96 ± 10	$n_{s,0.002}$	0.96826	0.9691 ± 0.0047	χ^2_{lowTEB}	10494.83	10495.7 ± 1.4
$\boldsymbol{A^{kSZ}}$	0.00	< 4.86	Y_P	0.245347	0.245357 ± 0.000091	χ^2_{plik}	766.3	779.5 ± 5.5
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.47 ± 1.9	Y_P^{BBN}	0.246673	0.246684 ± 0.000092	χ^2_{H070p6}	0.627	0.78 ± 0.34
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.08 ± 1.8	10^5D/H	2.6109	2.606 ± 0.038	χ^2_{JLA}	706.610	706.72 ± 0.21
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.75	17.2 ± 4.1	Age/Gyr	13.7891	$13.810^{+0.035}_{-0.044}$	χ^2_{6DF}	0.00096	0.052 ± 0.074
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	z_*	1089.916	1089.84 ± 0.31	χ^2_{MGS}	1.61	1.52 ± 0.59
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00078	r_*	144.900	145.01 ± 0.32	$\chi^2_{DR11CMASS}$	2.433	2.88 ± 0.69
$\boldsymbol{c_{217}}$	0.99594	0.9960 ± 0.0014	$100\theta_*$	1.041223	1.04130 ± 0.00040	$\chi^2_{DR11LOWZ}$	0.318	0.60 ± 0.57
H_0	67.97	67.73 ± 0.65	D_A/Gpc	13.9163	13.926 ± 0.031	χ^2_{prior}	2.08	7.31 ± 3.6
Ω_Λ	0.6941	$0.6917^{+0.0085}_{-0.0077}$	z_{drag}	1059.589	1059.61 ± 0.44	χ^2_{CMB}	11270.5	11285.0 ± 5.5
Ω_m	0.3059	0.3083 ± 0.0080	r_{drag}	147.605	147.71 ± 0.34	χ^2_{BAO}	4.36	5.04 ± 1.0
$\Omega_m h^2$	0.14134	0.1414 ± 0.0011	k_D	0.140242	0.14016 ± 0.00043			
$\Omega_\nu h^2$	0.00055	< 0.00140	$100\theta_D$	0.160971	0.16096 ± 0.00025			

Best-fit $\chi^2_{eff} = 11984.21$; $\bar{\chi}^2_{eff} = 12004.81$; $R - 1 = 0.00684$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.43 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.39 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.83 plik_dx11dr2_HM_v18_TT: 766.31 Hubble - H070p6: 0.63 SN - JLA December_2013: 706.61

7.54 base_mnu_plikHM_TTTEEE_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022284	0.02229 ± 0.00014	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.336	0.337 ± 0.080	$100\theta_*$	1.041081	1.04110 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11900	0.1188 ± 0.0011	$\boldsymbol{A_{217}^{dustTE}}$	1.662	1.66 ± 0.26	D_A/Gpc	13.9048	13.908 ± 0.024
$\boldsymbol{100\theta_{MC}}$	1.040890	1.04089 ± 0.00030	$\boldsymbol{c_{100}}$	0.99817	0.99814 ± 0.00077	z_{drag}	1059.666	1059.67 ± 0.30
$\boldsymbol{\tau}$	0.0625	$0.067^{+0.014}_{-0.016}$	$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0014	r_{drag}	147.457	147.49 ± 0.26
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.047	< 0.116	H_0	67.81	$67.47^{+0.69}_{-0.59}$	k_D	0.140411	0.14038 ± 0.00029
$\boldsymbol{\ln(10^{10}A_s)}$	3.0570	$3.066^{+0.026}_{-0.029}$	Ω_Λ	0.6916	$0.6877^{+0.0087}_{-0.0072}$	$100\theta_D$	0.160910	0.16090 ± 0.00017
$\boldsymbol{n_s}$	0.96644	0.9665 ± 0.0042	Ω_m	0.3084	$0.3123^{+0.0072}_{-0.0087}$	z_{eq}	3376.3	3372 ± 26
$\boldsymbol{y_{cal}}$	0.99987	1.0003 ± 0.0024	$\Omega_m h^2$	0.14179	0.1421 ± 0.0010	k_{eq}	0.010305	0.010291 ± 0.000078
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.5 ± 6.5	$\Omega_\nu h^2$	0.00050	< 0.00125	$100\theta_{eq}$	0.81765	0.8186 ± 0.0049
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.08	—	$\Omega_m h^3$	0.096144	$0.09586^{+0.00055}_{-0.00039}$	$100\theta_{s,eq}$	0.45172	0.4522 ± 0.0025
$\boldsymbol{A_{143}^{tSZ}}$	7.28	5.32 ± 1.9	σ_8	0.8188	$0.811^{+0.014}_{-0.011}$	$r_{drag}/D_V(0.57)$	0.071762	$0.07156^{+0.00046}_{-0.00041}$
$\boldsymbol{A_{100}^{PS}}$	256.2	261 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4547	0.4532 ± 0.0063	$H(0.57)$	93.106	$92.91^{+0.37}_{-0.29}$
$\boldsymbol{A_{143}^{PS}}$	39.7	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6102	$0.6062^{+0.0089}_{-0.0075}$	$D_A(0.57)$	1384.8	$1389.8^{+8.0}_{-9.9}$
$\boldsymbol{A_{143\times217}^{PS}}$	34.9	39^{+10}_{-10}	$\sigma_8/h^{0.5}$	0.9943	$0.987^{+0.015}_{-0.012}$	$F_{AP}(0.57)$	0.67523	$0.6762^{+0.0019}_{-0.0022}$
$\boldsymbol{A_{217}^{PS}}$	97.3	97 ± 10	$\langle d^2\rangle^{1/2}$	2.4511	2.453 ± 0.024	$f\sigma_8(0.57)$	0.4751	$0.4724^{+0.0063}_{-0.0055}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.50	z_{re}	8.50	8.89 ± 1.4	$\sigma_8(0.57)$	0.6098	$0.603^{+0.012}_{-0.0087}$
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.50 ± 1.9	$10^9 A_s$	2.126	$2.147^{+0.054}_{-0.065}$	f_{2000}^{143}	29.61	29.9 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.06 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8765	1.877 ± 0.011	$f_{2000}^{143\times217}$	32.43	32.5 ± 1.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.56	17.2 ± 4.2	D_{40}	1228.6	1231 ± 11	f_{2000}^{217}	105.90	106.1 ± 1.8
$\boldsymbol{A_{217}^{dustTT}}$	81.3	81.7 ± 7.4	D_{220}	5721.8	5728 ± 38	$\chi^2_{lensing}$	9.99	10.2 ± 1.7
$\boldsymbol{A_{100}^{dustEE}}$	0.0815	0.0815 ± 0.0056	D_{810}	2533.1	2534 ± 13	χ^2_{lowTEB}	10495.22	10495.8 ± 1.2
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0492	0.0492 ± 0.0050	D_{1420}	814.72	815.1 ± 4.7	χ^2_{plik}	2435.2	2453.7 ± 6.7
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1001	0.0997 ± 0.033	D_{2000}	230.14	230.2 ± 1.5	χ^2_{6DF}	0.0104	0.08 ± 0.10
$\boldsymbol{A_{143}^{dustEE}}$	0.1002	0.1005 ± 0.0069	$n_{s,0.002}$	0.96644	0.9665 ± 0.0042	χ^2_{MGS}	1.41	1.22 ± 0.52
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2232	0.224 ± 0.047	Y_P	0.245355	0.245357 ± 0.000065	$\chi^2_{DR11CMASS}$	2.406	3.00 ± 0.88
$\boldsymbol{A_{217}^{dustEE}}$	0.656	0.65 ± 0.13	Y_P^{BBN}	0.246681	0.246683 ± 0.000065	$\chi^2_{DR11LOWZ}$	0.48	0.90 ± 0.71
$\boldsymbol{A_{100}^{dustTE}}$	0.1402	0.141 ± 0.038	10^5D/H	2.6076	2.606 ± 0.027	χ^2_{prior}	6.99	19.5 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1307	0.131 ± 0.029	Age/Gyr	13.7913	$13.814^{+0.030}_{-0.041}$	χ^2_{CMB}	12940.4	12959.8 ± 6.6
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.302	0.303 ± 0.084	z_*	1089.937	1089.92 ± 0.24	χ^2_{BAO}	4.31	5.20 ± 1.3
$\boldsymbol{A_{143}^{dustTE}}$	0.155	0.154 ± 0.054	r_*	144.760	144.80 ± 0.25			

Best-fit $\chi^2_{eff} = 12951.71$; $\bar{\chi}^2_{eff} = 12984.47$; $R - 1 = 0.01052$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.99 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.22 plik_dx11dr2_HM_v18_TTT

7.55 base_mnu_plikHM_TTTEEE_lowTEB_lensing_BAO_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022290	0.02230 ± 0.00014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.337 ± 0.079	$100\theta_*$	1.041095	1.04112 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11897	0.1187 ± 0.0011	$\boldsymbol{A^{dustTE}_{217}}$	1.665	1.66 ± 0.26	D_A/Gpc	13.9052	13.909 ± 0.024
$\boldsymbol{100\theta_{MC}}$	1.040919	1.04091 ± 0.00030	$\boldsymbol{c_{100}}$	0.99813	0.99814 ± 0.00078	z_{drag}	1059.666	1059.69 ± 0.30
$\boldsymbol{\tau}$	0.0611	$0.067^{+0.014}_{-0.015}$	$\boldsymbol{c_{217}}$	0.99605	0.9960 ± 0.0014	r_{drag}	147.462	147.51 ± 0.26
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.022	< 0.108	H_0	68.04	$67.57^{+0.66}_{-0.57}$	k_D	0.140411	0.14038 ± 0.00030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0542	$3.066^{+0.025}_{-0.029}$	Ω_Λ	0.6944	$0.6890^{+0.0083}_{-0.0071}$	$100\theta_D$	0.160905	0.16090 ± 0.00017
$\boldsymbol{n_s}$	0.96625	0.9668 ± 0.0041	Ω_m	0.3056	$0.3110^{+0.0071}_{-0.0083}$	z_{eq}	3375.6	3370 ± 25
$\boldsymbol{y_{cal}}$	1.00000	1.0002 ± 0.0024	$\Omega_m h^2$	0.14149	0.1419 ± 0.0010	k_{eq}	0.010302	0.010286 ± 0.000077
$\boldsymbol{A^{CIB}_{217}}$	67.8	64.4 ± 6.5	$\Omega_\nu h^2$	0.00023	< 0.00116	$100\theta_{eq}$	0.81782	0.8189 ± 0.0048
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^3$	0.096268	$0.09591^{+0.00052}_{-0.00038}$	$100\theta_{s,eq}$	0.45180	0.4524 ± 0.0025
$\boldsymbol{A^{tSZ}_{143}}$	7.35	5.34 ± 1.9	σ_8	0.8224	$0.812^{+0.014}_{-0.011}$	$r_{drag}/D_V(0.57)$	0.071909	0.07163 ± 0.00041
$\boldsymbol{A^{PS}_{100}}$	257.2	261 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4547	0.4529 ± 0.0063	$H(0.57)$	93.228	$92.96^{+0.36}_{-0.28}$
$\boldsymbol{A^{PS}_{143}}$	38.5	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6115	$0.6066^{+0.0087}_{-0.0074}$	$D_A(0.57)$	1381.6	$1388.3^{+7.7}_{-9.5}$
$\boldsymbol{A^{PS}_{143\times217}}$	32.6	39^{+10}_{-10}	$\sigma_8/h^{0.5}$	0.9970	$0.988^{+0.014}_{-0.012}$	$F_{AP}(0.57)$	0.67453	$0.6759^{+0.0018}_{-0.0021}$
$\boldsymbol{A^{PS}_{217}}$	96.4	97 ± 10	$\langle d^2\rangle^{1/2}$	2.4516	2.453 ± 0.024	$f\sigma_8(0.57)$	0.4760	$0.4727^{+0.0062}_{-0.0054}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.47	z_{re}	8.35	8.89 ± 1.4	$\sigma_8(0.57)$	0.6130	$0.605^{+0.011}_{-0.0085}$
$\boldsymbol{A^{dustTT}_{100}}$	7.43	7.52 ± 1.9	$10^9 A_s$	2.120	$2.146^{+0.053}_{-0.063}$	f^{143}_{2000}	29.80	29.9 ± 2.6
$\boldsymbol{A^{dustTT}_{143}}$	9.08	9.06 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8765	1.876 ± 0.011	$f^{143\times217}_{2000}$	32.55	32.5 ± 1.8
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.69	17.2 ± 4.2	D_{40}	1228.7	1231 ± 11	f^{217}_{2000}	106.06	106.1 ± 1.8
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.7 ± 7.4	D_{220}	5724.1	5729 ± 38	$\chi^2_{lensing}$	10.07	10.2 ± 1.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0815 ± 0.0056	D_{810}	2533.1	2534 ± 13	χ^2_{lowTEB}	10495.25	10495.8 ± 1.2
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0490	0.0493 ± 0.0050	D_{1420}	814.60	815.1 ± 4.7	χ^2_{plik}	2435.0	2453.8 ± 6.8
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0997	0.100 ± 0.033	D_{2000}	230.11	230.2 ± 1.5	χ^2_{H070p6}	0.596	0.86 ± 0.34
$\boldsymbol{A^{dustEE}_{143}}$	0.1005	0.1005 ± 0.0069	$n_{s,0.002}$	0.96625	0.9668 ± 0.0041	χ^2_{6DF}	0.0010	0.066 ± 0.089
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2244	0.224 ± 0.047	Y_P	0.245358	$0.245362^{+0.000069}_{-0.000063}$	χ^2_{MGS}	1.61	1.30 ± 0.52
$\boldsymbol{A^{dustEE}_{217}}$	0.654	0.65 ± 0.13	Y_P^{BBN}	0.246684	$0.246688^{+0.000069}_{-0.000063}$	$\chi^2_{DR11CMASS}$	2.439	2.90 ± 0.74
$\boldsymbol{A^{dustTE}_{100}}$	0.1405	0.141 ± 0.038	10^5D/H	2.6064	2.604 ± 0.027	$\chi^2_{DR11LOWZ}$	0.322	0.79 ± 0.64
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1323	0.132 ± 0.029	Age/Gyr	13.7787	$13.808^{+0.029}_{-0.039}$	χ^2_{prior}	7.11	19.5 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.303 ± 0.084	z_*	1089.925	1089.89 ± 0.24	χ^2_{CMB}	12940.3	12959.8 ± 6.6
$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.154 ± 0.054	r_*	144.767	144.81 ± 0.25	χ^2_{BAO}	4.37	5.06 ± 1.1

Best-fit $\chi^2_{\rm eff} = 12952.35$; $\bar{\chi}^2_{\rm eff} = 12985.21$; $R - 1 = 0.01385$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 10.07 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.25 plik_dx11dr2_HM_v18_TTTEEE: 2434.95 Hubble - H070p6: 0.60

7.56 base_mnu_plikHM_TTTEEE_lowTEB_lensing_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022280	0.02231 ± 0.00014	$\boldsymbol{A_{217}^{\mathrm{dust}TE}}$	1.665	1.66 ± 0.26	z_{drag}	1059.666	1059.69 ± 0.30
$\boldsymbol{\Omega_c h^2}$	0.11908	0.1187 ± 0.0011	$\boldsymbol{c_{100}}$	0.99815	0.99814 ± 0.00078	r_{drag}	147.442	147.52 ± 0.26
$\boldsymbol{100\theta_{\mathrm{MC}}}$	1.040892	1.04092 ± 0.00030	$\boldsymbol{c_{217}}$	0.99611	0.9960 ± 0.0014	k_{D}	0.140423	0.14037 ± 0.00030
$\boldsymbol{\tau}$	0.0603	0.067 ± 0.014	H_0	67.97	$67.64^{+0.64}_{-0.55}$	$100\theta_{\mathrm{D}}$	0.160911	0.16089 ± 0.00017
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.023	< 0.103	Ω_Λ	0.6935	$0.6898^{+0.0080}_{-0.0069}$	z_{eq}	3378.1	3369 ± 25
$\boldsymbol{\ln(10^{10} A_s)}$	3.0529	$3.066^{+0.025}_{-0.028}$	Ω_{m}	0.3065	$0.3102^{+0.0069}_{-0.0080}$	k_{eq}	0.010310	0.010282 ± 0.000076
$\boldsymbol{n_s}$	0.96579	0.9669 ± 0.0041	$\Omega_{\mathrm{m}} h^2$	0.14160	0.1418 ± 0.0010	$100\theta_{\mathrm{eq}}$	0.81731	0.8192 ± 0.0048
$\boldsymbol{y_{\mathrm{cal}}}$	1.00002	1.0002 ± 0.0024	$\Omega_\nu h^2$	0.00024	< 0.00111	$100\theta_{\mathrm{s,eq}}$	0.45154	0.4525 ± 0.0024
$\boldsymbol{A_{217}^{\mathrm{CIB}}}$	68.3	64.3 ± 6.5	$\Omega_{\mathrm{m}} h^3$	0.096251	$0.09594^{+0.00050}_{-0.00038}$	$r_{\mathrm{drag}}/D_{\mathrm{V}}(0.57)$	0.071860	0.07167 ± 0.00040
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	0.00	—	σ_8	0.8220	$0.813^{+0.014}_{-0.010}$	$H(0.57)$	93.197	$92.99^{+0.35}_{-0.27}$
$\boldsymbol{A_{143}^{\mathrm{tSZ}}}$	7.35	5.35 ± 1.9	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4551	0.4527 ± 0.0062	$D_{\mathrm{A}}(0.57)$	1382.5	$1387.5^{+7.5}_{-9.2}$
$\boldsymbol{A_{100}^{\mathrm{PS}}}$	257.8	261 ± 28	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6116	$0.6067^{+0.0086}_{-0.0073}$	$F_{\mathrm{AP}}(0.57)$	0.67474	$0.6757^{+0.0018}_{-0.0020}$
$\boldsymbol{A_{143}^{\mathrm{PS}}}$	38.8	43 ± 8	$\sigma_8/h^{0.5}$	0.9970	$0.989^{+0.014}_{-0.012}$	$f\sigma_8(0.57)$	0.4760	$0.4728^{+0.0061}_{-0.0053}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	39^{+10}_{-10}	$\langle d^2 \rangle^{1/2}$	2.4521	2.452 ± 0.024	$\sigma_8(0.57)$	0.6125	$0.605^{+0.011}_{-0.0082}$
$\boldsymbol{A_{217}^{\mathrm{PS}}}$	96.0	97 ± 10	z_{re}	8.28	8.89 ± 1.4	f_{2000}^{143}	29.98	29.8 ± 2.6
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.46	$10^9 A_{\mathrm{s}}$	2.118	$2.147^{+0.053}_{-0.062}$	$f_{2000}^{143\times217}$	32.70	32.5 ± 1.8
$\boldsymbol{A_{100}^{\mathrm{dust}TT}}$	7.51	7.52 ± 1.9	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8771	1.876 ± 0.011	f_{2000}^{217}	106.15	106.0 ± 1.8
$\boldsymbol{A_{143}^{\mathrm{dust}TT}}$	9.12	9.06 ± 1.8	D_{40}	1229.5	1230 ± 11	$\chi^2_{\mathrm{lensing}}$	10.12	10.2 ± 1.7
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TT}}$	17.68	17.1 ± 4.2	D_{220}	5724.6	5729 ± 38	χ^2_{lowTEB}	10495.33	10495.8 ± 1.1
$\boldsymbol{A_{217}^{\mathrm{dust}TT}}$	81.7	81.7 ± 7.4	D_{810}	2533.2	2534 ± 13	χ^2_{plik}	2434.7	2453.8 ± 6.8
$\boldsymbol{A_{100}^{\mathrm{dust}EE}}$	0.0813	0.0815 ± 0.0056	D_{1420}	814.46	815.1 ± 4.7	χ^2_{H070p6}	0.627	0.82 ± 0.32
$\boldsymbol{A_{100\times143}^{\mathrm{dust}EE}}$	0.0490	0.0493 ± 0.0050	D_{2000}	230.03	230.3 ± 1.5	χ^2_{JLA}	706.622	706.75 ± 0.22
$\boldsymbol{A_{100\times217}^{\mathrm{dust}EE}}$	0.1001	0.100 ± 0.033	$n_{\mathrm{s},0.002}$	0.96579	0.9669 ± 0.0041	χ^2_{6DF}	0.0030	0.057 ± 0.079
$\boldsymbol{A_{143}^{\mathrm{dust}EE}}$	0.1004	0.1006 ± 0.0069	Y_{P}	0.245353	$0.245364^{+0.000069}_{-0.000062}$	χ^2_{MGS}	1.54	1.36 ± 0.51
$\boldsymbol{A_{143\times217}^{\mathrm{dust}EE}}$	0.2236	0.224 ± 0.047	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246679	$0.246691^{+0.000069}_{-0.000062}$	$\chi^2_{\mathrm{DR11CMASS}}$	2.419	2.84 ± 0.65
$\boldsymbol{A_{217}^{\mathrm{dust}EE}}$	0.648	0.65 ± 0.13	10^5D/H	2.6084	2.603 ± 0.027	$\chi^2_{\mathrm{DR11LOWZ}}$	0.372	0.72 ± 0.59
$\boldsymbol{A_{100}^{\mathrm{dust}TE}}$	0.1406	0.141 ± 0.038	Age/Gyr	13.7815	$13.805^{+0.028}_{-0.038}$	χ^2_{prior}	7.21	19.5 ± 5.5
$\boldsymbol{A_{100\times143}^{\mathrm{dust}TE}}$	0.1316	0.132 ± 0.029	z_*	1089.949	1089.88 ± 0.24	χ^2_{CMB}	12940.2	12959.8 ± 6.6
$\boldsymbol{A_{100\times217}^{\mathrm{dust}TE}}$	0.304	0.303 ± 0.084	r_*	144.745	144.83 ± 0.25	χ^2_{BAO}	4.33	4.98 ± 0.96
$\boldsymbol{A_{143}^{\mathrm{dust}TE}}$	0.154	0.154 ± 0.054	$100\theta_*$	1.041065	1.04112 ± 0.00030			
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TE}}$	0.340	0.337 ± 0.079	$D_{\mathrm{A}}/\mathrm{Gpc}$	13.9035	13.911 ± 0.024			

Best-fit $\chi^2_{\mathrm{eff}} = 13658.96$; $\bar{\chi}^2_{\mathrm{eff}} = 13691.86$; $R - 1 = 0.01490$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.42 DR11LOWZ: 0.37 CMB - smica_g30_ftl_full_pp: 10.12 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.33 plik_dx11dr2_HM_v18_TTTEEE: 2434.72 Hubble - H070p6: 0.63 SN - JLA December_2013: 706.62

7.57 base_mnu_CamSpecHM_TT_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022227	0.02228 ± 0.00020 $(+0.0\sigma)$	$\Omega_{\rm m}$	0.3087	0.3103 ± 0.0085 (-0.0σ)	$100\theta_{\rm D}$	0.161006	0.16095 ± 0.00025 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.11866	$0.1181^{+0.0015}_{-0.0013}$ (-0.0σ)	$\Omega_{\rm m}h^2$	0.14163	0.1416 ± 0.0012 (-0.0σ)	$z_{\rm eq}$	3366.8	3355^{+35}_{-31} (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.041046	1.04106 ± 0.00042 $(+0.0\sigma)$	$\Omega_\nu h^2$	0.00075	< 0.00156 (-0.0σ)	$100\theta_{\rm eq}$	0.8194	$0.8218^{+0.0057}_{-0.0067}$ $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.0670	$0.075^{+0.016}_{-0.019}$ $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09594	$0.09568^{+0.00070}_{-0.00057}$ $(+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071773	0.07169 ± 0.00047 $(+0.0\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.069	< 0.145 (-0.0σ)	σ_8	0.8158	$0.810^{+0.016}_{-0.013}$ $(+0.1\sigma)$	$H(0.57)$	93.028	$92.91^{+0.41}_{-0.36}$ $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0622	$3.077^{+0.030}_{-0.034}$ $(+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4533	0.4509 ± 0.0073 $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1386.1	$1388.8^{+9.3}_{-11}$ (-0.0σ)
$\boldsymbol{n_s}$	0.96824	0.9706 ± 0.0048 $(+0.4\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6081	$0.604^{+0.010}_{-0.0088}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.67531	0.6757 ± 0.0022 (-0.0σ)
$\boldsymbol{y_{cal}}$	0.99994	1.0001 ± 0.0025 (-0.1σ)	$\sigma_8/h^{0.5}$	0.9912	$0.985^{+0.016}_{-0.014}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4739	$0.4714^{+0.0071}_{-0.0063}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	252.3	246 ± 22 (-0.5σ)	$\langle d^2\rangle^{1/2}$	2.4462	2.447 ± 0.026 (-0.1σ)	$\sigma_8(0.57)$	0.6077	$0.603^{+0.013}_{-0.010}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.4	39 ± 8 (-0.6σ)	$z_{\rm re}$	8.94	9.59 ± 1.5 $(+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246240	0.246263 ± 0.000086 (-4.4σ)
$\boldsymbol{A_{217}^{PS}}$	94.1	97 ± 10 $(+0.1\sigma)$	$10^9A_{\rm s}$	2.137	$2.170^{+0.063}_{-0.077}$ $(+0.1\sigma)$	f_{2000}^{143}	30.00	29.0 ± 2.8 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	47.2	46 ± 7 (-2.7σ)	$10^9A_{\rm s}e^{-2\tau}$	1.8693	1.868 ± 0.012 (-0.4σ)	f_{2000}^{217}	107.24	106.5 ± 1.9 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	2.48	$3.19^{+1.4}_{-2.5}$ (-1.0σ)	D_{40}	1221.6	1220 ± 12 (-0.6σ)	$f_{2000}^{143\times217}$	32.32	31.9 ± 2.1 (-0.4σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.387	$0.51^{+0.11}_{-0.12}$	D_{220}	5694.3	5697 ± 40 (-0.6σ)	$\chi^2_{\rm lensing}$	9.13	9.64 ± 1.3 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.002	< 0.585 (-0.2σ)	D_{810}	2526.4	2528 ± 14 (-0.3σ)	$\chi^2_{\rm lowTEB}$	10494.72	10495.4 ± 1.5 (-0.3σ)
$\boldsymbol{A^{kSZ}}$	6.64	$5.52^{+4.3}_{-1.6}$ $(+0.7\sigma)$	D_{1420}	813.0	814.5 ± 5.0 (-0.1σ)	$\chi^2_{\rm CamSpec}$	8046.6	8061.3 ± 5.7
$\boldsymbol{A_{100}^{dust}}$	0.984	0.99 ± 0.19	$n_{\rm s,0.002}$	0.96824	0.9706 ± 0.0048 $(+0.4\sigma)$	$\chi^2_{\rm 6DF}$	0.0103	0.069 ± 0.094 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.032	1.03 ± 0.18	$Y_{\rm P}$	0.244911	$0.244936^{+0.000081}_{-0.000091}$ (-4.5σ)	$\chi^2_{\rm MGS}$	1.41	1.38 ± 0.60 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.230	1.21 ± 0.12	Age/Gyr	13.8022	$13.818^{+0.039}_{-0.047}$ (-0.0σ)	$\chi^2_{\rm DR11CMASS}$	2.391	2.97 ± 0.82 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.952	0.98 ± 0.18	z_*	1089.963	1089.85 ± 0.31 (-0.1σ)	$\chi^2_{\rm DR11LOWZ}$	0.478	0.75 ± 0.67 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99657	0.99676 ± 0.00097 (-1.5σ)	r_*	144.893	144.99 ± 0.34 $(+0.0\sigma)$	$\chi^2_{\rm prior}$	3.99	8.40 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99763	0.9973 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.041260	1.04129 ± 0.00042 $(+0.0\sigma)$	$\chi^2_{\rm CMB}$	18550.4	18566.3 ± 5.8 $(+1318.9\sigma)$
$\boldsymbol{\beta_1^1}$	-0.09	-0.1 ± 1.0	$z_{\rm drag}$	1059.475	1059.58 ± 0.44 $(+0.0\sigma)$	$\chi^2_{\rm BAO}$	4.286	5.17 ± 1.2 (-0.0σ)
H_0	67.73	67.57 ± 0.69 $(+0.0\sigma)$	$r_{\rm drag}$	147.613	147.69 ± 0.36 $(+0.0\sigma)$			
Ω_Λ	0.6913	0.6897 ± 0.0085 $(+0.0\sigma)$	$k_{\rm D}$	0.140224	0.14019 ± 0.00043 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18558.71$; $\Delta\chi^2_{\rm eff} = 7281.80$; $\bar{\chi}^2_{\rm eff} = 18579.90$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.36$; $R - 1 = 0.00975$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.41 (Δ -0.07) DR11CMASS: 2.39 (Δ -0.00) DR11LOWZ: 0.48 (Δ 0.06) CMB - smica_g30_ftl_full_pp: 9.13 (Δ -0.26) lowl_SMW_70_dx11d_2014_10_03
10494.72 (Δ -0.18) CamSpec like_v9.10CMH_unified: 8046.59

7.58 base_mnu_CamSpecHM_TT_lowTEB_lensing_BAO_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02230 ± 0.00020 $(+0.0\sigma)$	Ω_m	0.3088 ± 0.0083 (-0.0σ)	$100\theta_D$	0.16093 ± 0.00025 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1180^{+0.0015}_{-0.0013}$ (-0.0σ)	$\Omega_m h^2$	0.1415 ± 0.0012 (-0.0σ)	z_{eq}	3353^{+35}_{-31} (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04108 ± 0.00042 $(+0.0\sigma)$	$\Omega_\nu h^2$	< 0.00146 $(+0.0\sigma)$	$100\theta_{eq}$	$0.8222^{+0.0057}_{-0.0068}$ $(+0.0\sigma)$
$\boldsymbol{\tau}$	$0.075^{+0.016}_{-0.018}$ $(+0.1\sigma)$	$\Omega_m h^3$	$0.09575^{+0.00068}_{-0.00055}$ $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07177 ± 0.00046 $(+0.0\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.136 $(+0.0\sigma)$	σ_8	$0.811^{+0.016}_{-0.012}$ $(+0.1\sigma)$	$H(0.57)$	$92.97^{+0.39}_{-0.35}$ $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.077^{+0.030}_{-0.034}$ $(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4506 ± 0.0073 $(+0.1\sigma)$	$D_A(0.57)$	1387.1 ± 9.4 (-0.0σ)
$\boldsymbol{n_s}$	0.9709 ± 0.0048 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.6045^{+0.0099}_{-0.0087}$ $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6753 ± 0.0021 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	$0.986^{+0.016}_{-0.014}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	$0.4717^{+0.0070}_{-0.0061}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	246 ± 22 (-0.5σ)	$\langle d^2 \rangle^{1/2}$	2.447 ± 0.026 (-0.1σ)	$\sigma_8(0.57)$	$0.604^{+0.012}_{-0.0098}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	z_{re}	9.59 ± 1.5 $(+0.1\sigma)$	Y_P^{BBN}	0.246270 ± 0.000086 (-4.5σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9 A_s$	$2.170^{+0.062}_{-0.075}$ $(+0.1\sigma)$	f_{2000}^{143}	28.9 ± 2.8 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.868 ± 0.012 (-0.4σ)	f_{2000}^{217}	106.4 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.22^{+1.4}_{-2.5}$ (-1.0σ)	D_{40}	1219 ± 12 (-0.6σ)	$f_{2000}^{143\times217}$	31.8 ± 2.1 (-0.4σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{220}	5698 ± 40 (-0.6σ)	$\chi^2_{lensing}$	9.66 ± 1.3 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.584 (-0.2σ)	D_{810}	2528 ± 13 (-0.3σ)	χ^2_{lowTEB}	10495.3 ± 1.5 (-0.3σ)
$\boldsymbol{A^{kSZ}}$	$5.48^{+4.1}_{-1.9}$ $(+0.7\sigma)$	D_{1420}	814.7 ± 5.0 (-0.1σ)	$\chi^2_{CamSpec}$	8061.3 ± 5.7
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9709 ± 0.0048 $(+0.4\sigma)$	χ^2_{H070p6}	0.81 ± 0.35 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	$0.244942^{+0.000082}_{-0.000091}$ (-4.5σ)	χ^2_{6DF}	0.058 ± 0.081 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.811^{+0.037}_{-0.046}$ (-0.0σ)	χ^2_{MGS}	1.48 ± 0.61 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	1089.83 ± 0.31 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.92 ± 0.75 $(+0.0\sigma)$
$\boldsymbol{c_{100}}$	0.99676 ± 0.00096 (-1.4σ)	r_*	145.00 ± 0.34 $(+0.0\sigma)$	$\chi^2_{DR11LOWZ}$	0.64 ± 0.60 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04131 ± 0.00042 $(+0.0\sigma)$	χ^2_{prior}	8.43 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	z_{drag}	1059.61 ± 0.44 $(+0.0\sigma)$	χ^2_{CMB}	18566.3 ± 5.7 $(+1322.1\sigma)$
H_0	67.69 ± 0.67 $(+0.0\sigma)$	r_{drag}	147.70 ± 0.36 $(+0.0\sigma)$	χ^2_{BAO}	5.11 ± 1.1 $(+0.0\sigma)$
Ω_Λ	0.6912 ± 0.0083 $(+0.0\sigma)$	k_D	0.14019 ± 0.00044 $(+0.0\sigma)$		

$\bar{\chi}^2_{eff} = 18580.61$; $\Delta\bar{\chi}^2_{eff} = 7282.42$; $R - 1 = 0.01203$

7.59 base_mnu_CamSpecHM_TT_lowTEB_lensing_BAO_post_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02230 ± 0.00020 $(+0.0\sigma)$	Ω_m	0.3080 ± 0.0081 (-0.0σ)	$100\theta_D$	0.16093 ± 0.00025 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1179^{+0.0015}_{-0.0013}$ (-0.0σ)	$\Omega_m h^2$	0.1413 ± 0.0012 (-0.0σ)	z_{eq}	3351^{+35}_{-30} (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04109 ± 0.00042 $(+0.0\sigma)$	$\Omega_\nu h^2$	< 0.00141 $(+0.0\sigma)$	$100\theta_{eq}$	$0.8225^{+0.0056}_{-0.0068}$ $(+0.0\sigma)$
$\boldsymbol{\tau}$	$0.075^{+0.016}_{-0.018}$ $(+0.1\sigma)$	$\Omega_m h^3$	$0.09577^{+0.00067}_{-0.00055}$ $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07182 ± 0.00045 $(+0.0\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.131 $(+0.0\sigma)$	σ_8	$0.812^{+0.015}_{-0.012}$ $(+0.1\sigma)$	$H(0.57)$	$93.00^{+0.38}_{-0.34}$ $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.077^{+0.029}_{-0.034}$ $(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4504 ± 0.0073 $(+0.1\sigma)$	$D_A(0.57)$	1386.2 ± 9.2 (-0.0σ)
$\boldsymbol{n_s}$	0.9711 ± 0.0048 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.6046^{+0.0098}_{-0.0086}$ $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6751 ± 0.0021 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	$0.986^{+0.016}_{-0.014}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	$0.4718^{+0.0069}_{-0.0061}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	246 ± 22 (-0.5σ)	$\langle d^2 \rangle^{1/2}$	2.446 ± 0.026 (-0.1σ)	$\sigma_8(0.57)$	$0.605^{+0.012}_{-0.0097}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	z_{re}	9.61 ± 1.5 $(+0.1\sigma)$	Y_P^{BBN}	0.246273 ± 0.000086 (-4.5σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9 A_s$	$2.171^{+0.062}_{-0.075}$ $(+0.1\sigma)$	f_{2000}^{143}	28.9 ± 2.8 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.867 ± 0.012 (-0.4σ)	f_{2000}^{217}	106.4 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.22^{+1.4}_{-2.5}$ (-1.0σ)	D_{40}	1219 ± 12 (-0.6σ)	$f_{2000}^{143\times217}$	31.7 ± 2.1 (-0.4σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{220}	5698 ± 40 (-0.6σ)	$\chi^2_{lensing}$	9.66 ± 1.3 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.584 (-0.2σ)	D_{810}	2528 ± 14 (-0.3σ)	χ^2_{lowTEB}	10495.3 ± 1.5 (-0.3σ)
$\boldsymbol{A^{kSZ}}$	$5.47^{+4.1}_{-1.9}$ $(+0.7\sigma)$	D_{1420}	814.7 ± 5.0 (-0.1σ)	$\chi^2_{CamSpec}$	8061.3 ± 5.7
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	0.9711 ± 0.0048 $(+0.4\sigma)$	χ^2_{H070p6}	0.77 ± 0.34 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	0.244945 ± 0.000084 (-4.5σ)	χ^2_{JLA}	706.71 ± 0.21 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Age/Gyr	$13.808^{+0.036}_{-0.045}$ (-0.0σ)	χ^2_{6DF}	0.052 ± 0.072 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	1089.81 ± 0.31 (-0.1σ)	χ^2_{MGS}	1.54 ± 0.60 $(+0.0\sigma)$
$\boldsymbol{c_{100}}$	0.99676 ± 0.00096 (-1.4σ)	r_*	145.02 ± 0.34 $(+0.0\sigma)$	$\chi^2_{DR11CMASS}$	2.89 ± 0.71 $(+0.0\sigma)$
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04132 ± 0.00042 $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.58 ± 0.55 (-0.0σ)
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	z_{drag}	1059.62 ± 0.43 $(+0.0\sigma)$	χ^2_{prior}	8.44 ± 3.5 $(+0.3\sigma)$
H_0	67.76 ± 0.65 $(+0.0\sigma)$	r_{drag}	147.71 ± 0.35 $(+0.0\sigma)$	χ^2_{CMB}	18566.3 ± 5.7 $(+1322.3\sigma)$
Ω_Λ	0.6920 ± 0.0081 $(+0.0\sigma)$	k_D	0.14018 ± 0.00043 $(+0.0\sigma)$	χ^2_{BAO}	5.06 ± 1.1 $(+0.0\sigma)$

$\bar{\chi}^2_{eff} = 19287.25$; $\Delta\bar{\chi}^2_{eff} = 7282.44$; $R - 1 = 0.01238$

7.60 base_mnu_CamSpecHM_TTTEEE_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022354	0.02237 ± 0.00015 $(+0.6\sigma)$	H_0	67.81	$67.59^{+0.70}_{-0.58}$ $(+0.2\sigma)$	$r_{\rm drag}$	147.456	147.49 ± 0.26 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.11872	0.1185 ± 0.0011 (-0.3σ)	Ω_Λ	0.6917	$0.6892^{+0.0086}_{-0.0073}$ $(+0.2\sigma)$	$k_{\rm D}$	0.140484	0.14047 ± 0.00031 $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040886	1.04089 ± 0.00029 (-0.0σ)	$\Omega_{\rm m}$	0.3083	$0.3108^{+0.0073}_{-0.0086}$ (-0.2σ)	$100\theta_{\rm D}$	0.160803	0.16078 ± 0.00018 (-0.7σ)
$\boldsymbol{\tau}$	0.0662	$0.070^{+0.014}_{-0.016}$ $(+0.2\sigma)$	$\Omega_{\rm m} h^2$	0.14176	0.1419 ± 0.0010 (-0.2σ)	$z_{\rm eq}$	3371.1	3366 ± 25 (-0.2σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.064	< 0.124 $(+0.1\sigma)$	$\Omega_\nu h^2$	0.00069	< 0.00134 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.81880	0.8198 ± 0.0048 $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0609	$3.068^{+0.027}_{-0.031}$ $(+0.1\sigma)$	$\Omega_{\rm m} h^3$	0.096130	$0.09592^{+0.00055}_{-0.00042}$ $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071762	$0.07163^{+0.00046}_{-0.00041}$ $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.96799	0.9691 ± 0.0042 $(+0.6\sigma)$	σ_8	0.8158	$0.810^{+0.015}_{-0.012}$ (-0.1σ)	$H(0.57)$	93.104	$92.97^{+0.38}_{-0.30}$ $(+0.2\sigma)$
$\boldsymbol{y_{cal}}$	0.99991	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4530	0.4515 ± 0.0064 (-0.3σ)	$D_{\rm A}(0.57)$	1384.8	$1388.1^{+8.0}_{-10}$ (-0.2σ)
$\boldsymbol{A^{PS}_{100}}$	249.2	245 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6079	$0.6048^{+0.0091}_{-0.0080}$ (-0.2σ)	$F_{\rm AP}(0.57)$	0.67520	$0.6758^{+0.0019}_{-0.0022}$ (-0.2σ)
$\boldsymbol{A^{PS}_{143}}$	35.2	38 ± 7 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9907	$0.985^{+0.015}_{-0.013}$ (-0.2σ)	$f\sigma_8(0.57)$	0.4737	$0.4715^{+0.0065}_{-0.0058}$ (-0.1σ)
$\boldsymbol{A^{PS}_{217}}$	94.9	98 ± 10 $(+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4461	2.446 ± 0.025 (-0.3σ)	$\sigma_8(0.57)$	0.6077	$0.603^{+0.012}_{-0.0093}$ (-0.0σ)
$\boldsymbol{A^{CIB}_{217}}$	47.8	46 ± 7 (-2.9σ)	$z_{\rm re}$	8.83	9.12 ± 1.4 $(+0.2\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246296	0.246303 ± 0.000064 (-5.9σ)
$\boldsymbol{A^{tSZ}_{143}}$	3.30	$3.33^{+1.5}_{-2.5}$ (-1.0σ)	$10^9 A_{\rm s}$	2.135	$2.152^{+0.056}_{-0.067}$ $(+0.1\sigma)$	f^{143}_{2000}	29.32	28.7 ± 2.6 (-0.5σ)
$\boldsymbol{r^{PS}_{143\times217}}$	0.410	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	1.8701	1.870 ± 0.011 (-0.6σ)	f^{217}_{2000}	106.51	106.2 ± 1.8 $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.588 (-0.2σ)	D_{40}	1223.2	1223 ± 11 (-0.7σ)	$f^{143\times217}_{2000}$	31.74	31.5 ± 1.9 (-0.6σ)
$\boldsymbol{A^{kSZ}}$	5.16	$5.37^{+3.8}_{-2.2}$ $(+0.8\sigma)$	D_{220}	5707.7	5710 ± 38 (-0.5σ)	$\chi^2_{\rm lensing}$	9.37	9.80 ± 1.4 (-0.2σ)
$\boldsymbol{A^{dust}_{100}}$	0.993	0.99 ± 0.19	D_{810}	2527.3	2529 ± 14 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10494.81	10495.3 ± 1.2 (-0.5σ)
$\boldsymbol{A^{dust}_{143}}$	1.032	1.03 ± 0.18	D_{1420}	813.85	815.0 ± 4.8 (-0.0σ)	$\chi^2_{\rm CamSpec}$	12937.6	12953.9 ± 6.1
$\boldsymbol{A^{dust}_{217}}$	1.209	1.21 ± 0.12	$n_{\rm s,0.002}$	0.96799	0.9691 ± 0.0042 $(+0.6\sigma)$	$\chi^2_{\rm 6DF}$	0.0102	0.068 ± 0.092 (-0.1σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.957	0.98 ± 0.18	$Y_{\rm P}$	0.244964	$0.244974^{+0.000062}_{-0.000070}$ (-5.9σ)	$\chi^2_{\rm MGS}$	1.41	1.31 ± 0.53 $(+0.2\sigma)$
$\boldsymbol{c_{100}}$	0.99666	0.99677 ± 0.00097 (-1.8σ)	Age/Gyr	13.7919	$13.807^{+0.031}_{-0.042}$ (-0.2σ)	$\chi^2_{\rm DR11CMASS}$	2.409	2.93 ± 0.78 (-0.1σ)
$\boldsymbol{c_{217}}$	0.99731	0.9971 ± 0.0018 $(+0.7\sigma)$	z_*	1089.807	1089.77 ± 0.24 (-0.6σ)	$\chi^2_{\rm DR11LOWZ}$	0.482	0.80 ± 0.66 (-0.2σ)
$\boldsymbol{c_{TE}}$	1.00515	1.0052 ± 0.0044	r_*	144.782	144.82 ± 0.26 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	3.76	9.03 ± 3.5 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.00142	1.0015 ± 0.0042	$100\theta_*$	1.041087	1.04111 ± 0.00029 $(+0.0\sigma)$	$\chi^2_{\rm CMB}$	23441.8	23458.9 ± 6.1 $(+1593.8\sigma)$
$\boldsymbol{\beta^1_1}$	-0.11	-0.1 ± 1.0	$z_{\rm drag}$	1059.780	1059.82 ± 0.31 $(+0.5\sigma)$	$\chi^2_{\rm BAO}$	4.308	5.10 ± 1.1 (-0.1σ)

Best-fit $\chi^2_{\rm eff} = 23449.86$; $\Delta\chi^2_{\rm eff} = 10498.16$; $\bar{\chi}^2_{\rm eff} = 23473.05$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.57$; $R - 1 = 0.00818$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.41 (Δ 0.00) DR11CMASS: 2.41 (Δ 0.00) DR11LOWZ: 0.48 (Δ -0.00) CMB - smica_g30_ftl_full_pp: 9.37 (Δ -0.62) lowl_SMW_70_dx11d_2014_10_03 10494.81 (Δ -0.41) CamSpec like_v9.10CMH_unified: 12937.61

7.61 base_mnu_CamSpecHM_TTTEEE_lowTEB_lensing_BAO_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00015 \quad (+0.5\sigma)$	Ω_Λ	$0.6905^{+0.0084}_{-0.0070} \quad (+0.2\sigma)$	$100\theta_{\rm D}$	$0.16078 \pm 0.00018 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1184 \pm 0.0011 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3095^{+0.0070}_{-0.0084} \quad (-0.2\sigma)$	$z_{\rm eq}$	$3365 \pm 25 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{\rm MC}}$	$1.04090 \pm 0.00029 \quad (-0.0\sigma)$	$\Omega_{\rm m}h^2$	$0.1418 \pm 0.0010 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8201 \pm 0.0047 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.070^{+0.014}_{-0.016} \quad (+0.2\sigma)$	$\Omega_\nu h^2$	$< 0.00123 \quad (+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07170^{+0.00044}_{-0.00040} \quad (+0.2\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.114 \quad (+0.1\sigma)$	$\Omega_{\rm m}h^3$	$0.09597^{+0.00053}_{-0.00040} \quad (+0.1\sigma)$	$H(0.57)$	$93.02^{+0.36}_{-0.29} \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	$3.068^{+0.026}_{-0.030} \quad (+0.1\sigma)$	σ_8	$0.811^{+0.014}_{-0.011} \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1386.6^{+7.7}_{-9.5} \quad (-0.2\sigma)$
$\boldsymbol{n_{\rm s}}$	$0.9693 \pm 0.0042 \quad (+0.6\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.4513 \pm 0.0063 \quad (-0.3\sigma)$	$F_{\rm AP}(0.57)$	$0.6755^{+0.0018}_{-0.0021} \quad (-0.2\sigma)$
$\boldsymbol{y_{\rm cal}}$	$1.0001 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.6051^{+0.0088}_{-0.0078} \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4718^{+0.0063}_{-0.0057} \quad (-0.1\sigma)$
$\boldsymbol{A^{\rm PS}_{100}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.015}_{-0.012} \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.604^{+0.011}_{-0.0090} \quad (-0.0\sigma)$
$\boldsymbol{A^{\rm PS}_{143}}$	$38 \pm 7 \quad (-0.6\sigma)$	$\langle d^2\rangle^{1/2}$	$2.445 \pm 0.025 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246307 \pm 0.000063 \quad (-5.9\sigma)$
$\boldsymbol{A^{\rm PS}_{217}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.10 \pm 1.4 \quad (+0.2\sigma)$	f^{143}_{2000}	$28.7 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A^{\rm CIB}_{217}}$	$46 \pm 7 \quad (-2.8\sigma)$	$10^9A_{\rm s}$	$2.150^{+0.055}_{-0.067} \quad (+0.1\sigma)$	f^{217}_{2000}	$106.1 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{A^{\rm tSZ}_{143}}$	$3.32^{+1.5}_{-2.5} \quad (-1.1\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	$f^{143\times217}_{2000}$	$31.5 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{r^{\rm PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1222 \pm 11 \quad (-0.7\sigma)$	$\chi^2_{\rm lensing}$	$9.82 \pm 1.4 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	$< 0.587 \quad (-0.2\sigma)$	D_{220}	$5711 \pm 38 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.2 \pm 1.2 \quad (-0.5\sigma)$
$\boldsymbol{A^{\rm kSZ}}$	$5.36^{+3.9}_{-2.2} \quad (+0.8\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12953.9 ± 6.2
$\boldsymbol{A^{\rm dust}_{100}}$	0.99 ± 0.19	D_{1420}	$815.0 \pm 4.8 \quad (-0.0\sigma)$	$\chi^2_{\rm H070p6}$	$0.80 \pm 0.33 \quad (-0.2\sigma)$
$\boldsymbol{A^{\rm dust}_{143}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9693 \pm 0.0042 \quad (+0.6\sigma)$	$\chi^2_{\rm 6DF}$	$0.056 \pm 0.079 \quad (-0.1\sigma)$
$\boldsymbol{A^{\rm dust}_{217}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.244977^{+0.000062}_{-0.000070} \quad (-6.0\sigma)$	$\chi^2_{\rm MGS}$	$1.40 \pm 0.53 \quad (+0.2\sigma)$
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.98 ± 0.18	Age/Gyr	$13.802^{+0.029}_{-0.040} \quad (-0.2\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.86 \pm 0.67 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00097 \quad (-1.7\sigma)$	z_*	$1089.76 \pm 0.24 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.69 \pm 0.60 \quad (-0.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.8\sigma)$	r_*	$144.83 \pm 0.25 \quad (+0.1\sigma)$	$\chi^2_{\rm prior}$	$9.02 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0052 ± 0.0044	$100\theta_*$	$1.04111 \pm 0.00029 \quad (-0.0\sigma)$	$\chi^2_{\rm CMB}$	$23458.9 \pm 6.1 \quad (+1589.2\sigma)$
$\boldsymbol{c_{EE}}$	1.0015 ± 0.0042	$z_{\rm drag}$	$1059.83 \pm 0.31 \quad (+0.5\sigma)$	$\chi^2_{\rm BAO}$	$5.00 \pm 0.99 \quad (-0.1\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$r_{\rm drag}$	$147.50 \pm 0.26 \quad (-0.0\sigma)$		
H_0	$67.70^{+0.67}_{-0.56} \quad (+0.2\sigma)$	$k_{\rm D}$	$0.14046 \pm 0.00031 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23473.72$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.51$; $R - 1 = 0.00991$

7.62 base_mnu_CamSpecHM_TTTEEE_lowTEB_lensing_BAO_post_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00015 \quad (+0.5\sigma)$	Ω_Λ	$0.6912^{+0.0080}_{-0.0068} \quad (+0.2\sigma)$	$100\theta_{\rm D}$	$0.16078 \pm 0.00018 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1184 \pm 0.0011 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3088^{+0.0068}_{-0.0080} \quad (-0.2\sigma)$	$z_{\rm eq}$	$3364 \pm 25 \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{\rm MC}}$	$1.04091 \pm 0.00029 \quad (-0.0\sigma)$	$\Omega_{\rm m}h^2$	$0.1417 \pm 0.0010 \quad (-0.2\sigma)$	$100\theta_{\rm eq}$	$0.8203 \pm 0.0047 \quad (+0.2\sigma)$
$\boldsymbol{\tau}$	$0.070^{+0.014}_{-0.016} \quad (+0.2\sigma)$	$\Omega_\nu h^2$	$< 0.00118 \quad (+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07174 \pm 0.00040 \quad (+0.2\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.110 \quad (+0.1\sigma)$	$\Omega_{\rm m}h^3$	$0.09599^{+0.00052}_{-0.00040} \quad (+0.1\sigma)$	$H(0.57)$	$93.05^{+0.35}_{-0.28} \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	$3.068^{+0.026}_{-0.030} \quad (+0.1\sigma)$	σ_8	$0.812^{+0.014}_{-0.011} \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1385.8^{+7.5}_{-9.1} \quad (-0.2\sigma)$
$\boldsymbol{n_{\rm s}}$	$0.9694 \pm 0.0042 \quad (+0.6\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.4512 \pm 0.0063 \quad (-0.3\sigma)$	$F_{\rm AP}(0.57)$	$0.6753^{+0.0017}_{-0.0020} \quad (-0.2\sigma)$
$\boldsymbol{y_{\rm cal}}$	$1.0001 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.6053^{+0.0087}_{-0.0077} \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4720^{+0.0062}_{-0.0056} \quad (-0.1\sigma)$
$\boldsymbol{A^{\rm PS}_{100}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.987^{+0.014}_{-0.012} \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.605^{+0.011}_{-0.0088} \quad (-0.0\sigma)$
$\boldsymbol{A^{\rm PS}_{143}}$	$38 \pm 7 \quad (-0.6\sigma)$	$\langle d^2\rangle^{1/2}$	$2.445 \pm 0.025 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246308 \pm 0.000063 \quad (-5.9\sigma)$
$\boldsymbol{A^{\rm PS}_{217}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.10 \pm 1.4 \quad (+0.2\sigma)$	f^{143}_{2000}	$28.6 \pm 2.6 \quad (-0.5\sigma)$
$\boldsymbol{A^{\rm CIB}_{217}}$	$46 \pm 7 \quad (-2.8\sigma)$	$10^9A_{\rm s}$	$2.150^{+0.054}_{-0.066} \quad (+0.1\sigma)$	f^{217}_{2000}	$106.1 \pm 1.8 \quad (+0.0\sigma)$
$\boldsymbol{A^{\rm tSZ}_{143}}$	$3.32^{+1.5}_{-2.5} \quad (-1.1\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	$1.870 \pm 0.011 \quad (-0.6\sigma)$	$f^{143\times217}_{2000}$	$31.4 \pm 1.9 \quad (-0.6\sigma)$
$\boldsymbol{r^{\rm PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1222 \pm 11 \quad (-0.7\sigma)$	$\chi^2_{\rm lensing}$	$9.82 \pm 1.4 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	$< 0.588 \quad (-0.2\sigma)$	D_{220}	$5711 \pm 38 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.2 \pm 1.2 \quad (-0.5\sigma)$
$\boldsymbol{A^{\rm kSZ}}$	$5.36^{+3.9}_{-2.2} \quad (+0.8\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12953.9 ± 6.2
$\boldsymbol{A^{\rm dust}_{100}}$	0.99 ± 0.19	D_{1420}	$815.0 \pm 4.8 \quad (-0.0\sigma)$	$\chi^2_{\rm H070p6}$	$0.76 \pm 0.31 \quad (-0.2\sigma)$
$\boldsymbol{A^{\rm dust}_{143}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9694 \pm 0.0042 \quad (+0.6\sigma)$	$\chi^2_{\rm JLA}$	$706.72 \pm 0.20 \quad (-0.2\sigma)$
$\boldsymbol{A^{\rm dust}_{217}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.244979^{+0.000061}_{-0.000070} \quad (-6.0\sigma)$	$\chi^2_{\rm 6DF}$	$0.049 \pm 0.070 \quad (-0.1\sigma)$
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.98 ± 0.18	Age/Gyr	$13.799^{+0.028}_{-0.039} \quad (-0.2\sigma)$	$\chi^2_{\rm MGS}$	$1.45 \pm 0.53 \quad (+0.2\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00097 \quad (-1.7\sigma)$	z_*	$1089.74 \pm 0.24 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.82 \pm 0.60 \quad (-0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.8\sigma)$	r_*	$144.84 \pm 0.25 \quad (+0.1\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.63 \pm 0.55 \quad (-0.2\sigma)$
$\boldsymbol{c_{TE}}$	1.0052 ± 0.0044	$100\theta_*$	$1.04112 \pm 0.00029 \quad (-0.0\sigma)$	$\chi^2_{\rm prior}$	$9.02 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0015 ± 0.0042	$z_{\rm drag}$	$1059.84 \pm 0.31 \quad (+0.5\sigma)$	$\chi^2_{\rm CMB}$	$23458.9 \pm 6.1 \quad (+1588.4\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$r_{\rm drag}$	$147.51 \pm 0.26 \quad (-0.0\sigma)$	$\chi^2_{\rm BAO}$	$4.95 \pm 0.89 \quad (-0.0\sigma)$
H_0	$67.75^{+0.64}_{-0.55} \quad (+0.2\sigma)$	$k_{\rm D}$	$0.14045 \pm 0.00031 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 24180.34$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.48$; $R - 1 = 0.01012$

7.63 base_mnu_lensonly

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02236	0.02231 ± 0.00088	z_{re}	9.45	10.52 ± 0.90	z_{drag}	1060.43	1063.7 ± 3.4
$\boldsymbol{\Omega_c h^2}$	0.1259	$0.169^{+0.037}_{-0.044}$	$10^9 A_s$	2.216	$1.89^{+0.29}_{-0.45}$	r_{drag}	145.4	$135.2^{+8.5}_{-10}$
$\boldsymbol{100\theta_{MC}}$	1.055	$1.112^{+0.076}_{-0.065}$	$10^9 A_s e^{-2\tau}$	1.926	$1.64^{+0.26}_{-0.40}$	k_D	0.1428	0.155 ± 0.011
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	0.56	< 2.63	D_{40}	1257	1014^{+200}_{-300}	$100\theta_D$	0.1626	0.1701 ± 0.0096
$\boldsymbol{\ln(10^{10} A_s)}$	3.098	2.92 ± 0.19	D_{220}	5764	4276^{+900}_{-2000}	z_{eq}	3542	4564^{+900}_{-1000}
$\boldsymbol{n_s}$	0.9606	0.960 ± 0.020	D_{810}	2578	1778^{+500}_{-700}	k_{eq}	0.01082	$0.0140^{+0.0027}_{-0.0033}$
H_0	65.7	—	D_{1420}	827	524^{+100}_{-300}	$100\theta_{eq}$	0.801	$0.720^{+0.062}_{-0.095}$
Ω_Λ	0.643	$0.46^{+0.38}_{-0.13}$	D_{2000}	235	156^{+40}_{-80}	$100\theta_{s,eq}$	0.4431	$0.402^{+0.033}_{-0.050}$
Ω_m	0.357	$0.54^{+0.14}_{-0.38}$	$n_{s,0.002}$	0.9606	0.960 ± 0.020	$r_{drag}/D_V(0.57)$	0.0703	$0.0715^{+0.0096}_{-0.015}$
$\Omega_m h^2$	0.154	$0.213^{+0.046}_{-0.065}$	Y_P	0.245388	$0.24536^{+0.00043}_{-0.00038}$	$H(0.57)$	93.5	105 ± 10
$\Omega_\nu h^2$	0.0061	< 0.0283	Y_P^{BBN}	0.246715	$0.24668^{+0.00043}_{-0.00038}$	$D_A(0.57)$	1403	1333^{+200}_{-300}
$\Omega_m h^3$	0.101	$0.148^{+0.038}_{-0.068}$	10^5D/H	2.593	$2.61^{+0.15}_{-0.19}$	$F_{AP}(0.57)$	0.687	$0.716^{+0.038}_{-0.071}$
σ_8	0.754	0.69 ± 0.11	Age/Gyr	13.65	$12.4^{+1.3}_{-2.1}$	$f\sigma_8(0.57)$	0.4542	$0.420^{+0.056}_{-0.029}$
$\sigma_8 \Omega_m^{0.5}$	0.451	$0.470^{+0.058}_{-0.076}$	z_*	1090.56	$1094.8^{+3.7}_{-4.3}$	$\sigma_8(0.57)$	0.554	$0.50^{+0.11}_{-0.13}$
$\sigma_8 \Omega_m^{0.25}$	0.5829	0.566 ± 0.025	r_*	142.8	$132.8^{+8.3}_{-10}$	$\chi^2_{lensing}$	8.25	11.1 ± 2.1
$\sigma_8/h^{0.5}$	0.930	$0.841^{+0.072}_{-0.088}$	$100\theta_*$	1.055	$1.112^{+0.076}_{-0.065}$	χ^2_{prior}	0.01	1.96 ± 1.9
$\langle d^2 \rangle^{1/2}$	2.494	2.455 ± 0.064	D_A/Gpc	13.53	$12.0^{+1.1}_{-1.7}$			

Best-fit $\chi^2_{eff} = 8.25$; $\bar{\chi}^2_{eff} = 13.05$; $R - 1 = 0.00493$
χ^2_{eff}: CMB - smica_g30_ftl_full_pp_lensonly: 8.24

7.64 base_mnu_lensonly_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02228	0.02235 ± 0.00091	$10^9 A_s e^{-2\tau}$	1.959	$1.66^{+0.21}_{-0.27}$	z_{eq}	3438	4551^{+700}_{-900}
$\mathbf{\Omega_c h^2}$	0.1216	$0.168^{+0.030}_{-0.036}$	D_{40}	1296	1028^{+200}_{-200}	k_{eq}	0.01050	$0.0140^{+0.0022}_{-0.0028}$
$\mathbf{100\theta_{MC}}$	1.0531	$1.121^{+0.050}_{-0.036}$	D_{220}	5952	4333^{+900}_{-1000}	$100\theta_{eq}$	0.817	$0.723^{+0.052}_{-0.068}$
$\mathbf{\Sigma m_\nu}$ **[eV]**	0.41	$1.93^{+0.77}_{-1.6}$	D_{810}	2633	1842^{+500}_{-700}	$100\theta_{s,eq}$	0.4515	$0.403^{+0.027}_{-0.035}$
$\mathbf{ln(10^{10} A_s)}$	3.115	2.94 ± 0.14	D_{1420}	842	527^{+100}_{-300}	$r_{drag}/D_V(0.57)$	0.07184	0.07251 ± 0.00063
$\mathbf{n_s}$	0.9604	0.959 ± 0.020	D_{2000}	239	153^{+40}_{-80}	$H(0.57)$	94.1	$105.4^{+7.3}_{-8.6}$
H_0	67.74	$71.3^{+2.4}_{-3.0}$	$n_{s,0.002}$	0.9604	0.959 ± 0.020	$D_A(0.57)$	1378	1272 ± 67
Ω_Λ	0.677	0.589 ± 0.057	Y_P	0.245354	0.24537 ± 0.00041	$F_{AP}(0.57)$	0.6790	$0.699^{+0.015}_{-0.012}$
Ω_m	0.323	0.411 ± 0.057	Y_P^{BBN}	0.246680	0.24670 ± 0.00041	$f\sigma_8(0.57)$	0.4592	$0.438^{+0.026}_{-0.022}$
$\Omega_m h^2$	0.1483	$0.211^{+0.038}_{-0.053}$	10^5D/H	2.608	$2.61^{+0.16}_{-0.19}$	$\sigma_8(0.57)$	0.5766	$0.517^{+0.040}_{-0.050}$
$\Omega_\nu h^2$	0.0044	$0.0208^{+0.0083}_{-0.017}$	Age/Gyr	13.62	$12.14^{+0.84}_{-1.1}$	$\chi^2_{lensing}$	8.27	11.0 ± 2.1
$\Omega_m h^3$	0.1005	$0.152^{+0.029}_{-0.046}$	z_*	1090.24	$1094.6^{+3.1}_{-3.6}$	χ^2_{6DF}	0.043	0.64 ± 0.56
σ_8	0.776	$0.715^{+0.046}_{-0.053}$	r_*	144.0	132.8 ± 7.0	χ^2_{MGS}	1.156	0.49 ± 0.56
$\sigma_8 \Omega_m^{0.5}$	0.4412	0.456 ± 0.021	$100\theta_*$	1.0534	$1.121^{+0.050}_{-0.036}$	$\chi^2_{DR11CMASS}$	2.00	1.76 ± 1.5
$\sigma_8 \Omega_m^{0.25}$	0.5852	0.571 ± 0.025	D_A/Gpc	13.67	$11.88^{+0.94}_{-1.3}$	$\chi^2_{DR11LOWZ}$	0.62	1.42 ± 1.1
$\sigma_8/h^{0.5}$	0.943	$0.848^{+0.064}_{-0.077}$	z_{drag}	1059.89	1063.7 ± 3.2	χ^2_{prior}	0.00	2.01 ± 2.0
$\langle d^2 \rangle^{1/2}$	2.486	2.454 ± 0.060	r_{drag}	146.7	135.2 ± 7.2	χ^2_{BAO}	3.81	4.32 ± 1.5
z_{re}	9.36	10.51 ± 0.77	k_D	0.1413	$0.1552^{+0.0092}_{-0.011}$			
$10^9 A_s$	2.253	$1.91^{+0.24}_{-0.31}$	$100\theta_D$	0.1626	$0.1714^{+0.0063}_{-0.0050}$			

Best-fit $\chi^2_{eff} = 12.08$; $\bar{\chi}^2_{eff} = 17.34$; $R - 1 = 0.01298$

χ^2_{eff}: BAO - 6DF: 0.04 MGS: 1.16 DR11CMASS: 2.00 DR11LOWZ: 0.61 CMB - smica_g30_ftl_full_pp_lensonly: 8.27

7.65 base_mnu_lensonly_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02222	0.02232 ± 0.00091	$10^9 A_s$	2.174	$1.88^{+0.23}_{-0.41}$	$r_{\rm drag}$	146.0	$140.4^{+5.1}_{-6.8}$
$\mathbf{\Omega_c h^2}$	0.1243	0.146 ± 0.021	$10^9 A_s e^{-2\tau}$	1.890	$1.64^{+0.20}_{-0.35}$	$k_{\rm D}$	0.1420	0.1487 ± 0.0067
$\mathbf{\Sigma m_\nu}$ **[eV]**	0.53	$1.22^{+0.51}_{-1.1}$	D_{40}	1220	1017^{+100}_{-300}	$100\theta_{\rm D}$	0.16071	$0.1598^{+0.0015}_{-0.0017}$
$\mathbf{\ln(10^{10} A_s)}$	3.079	$2.92^{+0.15}_{-0.20}$	D_{220}	5667	4637^{+700}_{-1000}	$z_{\rm eq}$	3502	4013 ± 500
$\mathbf{n_s}$	0.9632	0.960 ± 0.020	D_{810}	2540	2169^{+300}_{-500}	$k_{\rm eq}$	0.01069	0.0123 ± 0.0016
H_0	61.8	< 57.1	D_{1420}	820	710^{+90}_{-200}	$100\theta_{\rm eq}$	0.796	$0.731^{+0.051}_{-0.088}$
Ω_Λ	0.602	$0.27^{+0.47}_{-0.24}$	D_{2000}	231.6	202^{+30}_{-40}	$100\theta_{\rm s,eq}$	0.4406	$0.406^{+0.027}_{-0.046}$
$\Omega_{\rm m}$	0.398	$0.73^{+0.24}_{-0.47}$	$n_{\rm s,0.002}$	0.9632	0.960 ± 0.020	$r_{\rm drag}/D_{\rm V}(0.57)$	0.0676	$0.0618^{+0.0035}_{-0.0081}$
$\Omega_{\rm m} h^2$	0.1522	$0.181^{+0.034}_{-0.029}$	$Y_{\rm P}$	0.245326	0.24536 ± 0.00041	$H(0.57)$	90.52	$89.89^{+0.88}_{-1.9}$
$\Omega_\nu h^2$	0.0057	$0.0131^{+0.0055}_{-0.012}$	$Y_{\rm P}^{\rm BBN}$	0.246652	0.24669 ± 0.00041	$D_{\rm A}(0.57)$	1470	1595^{+170}_{-89}
$\Omega_{\rm m} h^3$	0.09412	0.0935 ± 0.0028	10^5D/H	2.620	$2.61^{+0.16}_{-0.19}$	$F_{\rm AP}(0.57)$	0.697	0.750 ± 0.051
σ_8	0.736	$0.639^{+0.079}_{-0.13}$	Age/Gyr	14.058	$14.23^{+0.30}_{-0.19}$	$f\sigma_8(0.57)$	0.450	$0.400^{+0.063}_{-0.040}$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.465	$0.514^{+0.066}_{-0.048}$	z_*	1090.60	1092.6 ± 2.3	$\sigma_8(0.57)$	0.533	$0.437^{+0.068}_{-0.13}$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5849	0.569 ± 0.024	r_*	143.3	$137.9^{+4.8}_{-6.7}$	$\chi^2_{\rm lensing}$	8.25	10.7 ± 2.1
$\sigma_8/h^{0.5}$	0.936	0.876 ± 0.060	$100\theta_*$	1.041191	$1.04125^{+0.00016}_{-0.00013}$	$\chi^2_{\rm prior}$	0.00	2.04 ± 2.1
$\langle d^2 \rangle^{1/2}$	2.490	2.485 ± 0.055	$D_{\rm A}$/Gpc	13.76	$13.24^{+0.46}_{-0.64}$			
$z_{\rm re}$	9.43	9.91 ± 0.54	$z_{\rm drag}$	1059.97	1061.9 ± 2.7			

Best-fit $\chi^2_{\rm eff} = 8.25$; $\bar{\chi}^2_{\rm eff} = 12.70$; $R - 1 = 0.00639$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp_lensonly: 8.25

7.66 base_mnu_lensonly_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227	0.02226 ± 0.00088	$10^9 A_s e^{-2\tau}$	1.988	$2.02^{+0.13}_{-0.22}$	$100\theta_D$	0.16102	0.1611 ± 0.0013
$\boldsymbol{\Omega_c h^2}$	0.11516	$0.1146^{+0.0041}_{-0.0034}$	D_{40}	1328	1345^{+97}_{-130}	z_{eq}	3284	3269^{+110}_{-86}
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	0.243	$0.278^{+0.074}_{-0.28}$	D_{220}	6196	6310^{+470}_{-770}	k_{eq}	0.010025	$0.00998^{+0.00032}_{-0.00026}$
$\boldsymbol{\ln(10^{10} A_s)}$	3.130	$3.141^{+0.074}_{-0.10}$	D_{810}	2693	2738^{+190}_{-320}	$100\theta_{eq}$	0.8349	$0.838^{+0.015}_{-0.021}$
$\boldsymbol{n_s}$	0.9618	0.963 ± 0.020	D_{1420}	862	876^{+64}_{-110}	$100\theta_{s,eq}$	0.4607	$0.4625^{+0.0080}_{-0.011}$
H_0	67.34	67.25 ± 0.96	D_{2000}	242.5	246^{+19}_{-31}	$r_{drag}/D_V(0.57)$	0.07177	0.07176 ± 0.00055
Ω_Λ	0.6912	$0.691^{+0.011}_{-0.0093}$	$n_{s,0.002}$	0.9618	0.963 ± 0.020	$H(0.57)$	92.50	$92.39^{+0.95}_{-0.82}$
Ω_m	0.3088	$0.3093^{+0.0093}_{-0.011}$	Y_P	0.245349	0.24533 ± 0.00039	$D_A(0.57)$	1394.2	1396^{+15}_{-18}
$\Omega_m h^2$	0.14005	0.1398 ± 0.0026	Y_P^{BBN}	0.246675	0.24666 ± 0.00040	$F_{AP}(0.57)$	0.67535	0.6754 ± 0.0025
$\Omega_\nu h^2$	0.00262	$0.00299^{+0.00079}_{-0.0030}$	10^5D/H	2.610	$2.62^{+0.16}_{-0.18}$	$f\sigma_8(0.57)$	0.4601	$0.457^{+0.014}_{-0.011}$
$\Omega_m h^3$	0.09431	$0.0940^{+0.0026}_{-0.0023}$	Age/Gyr	13.882	$13.90^{+0.11}_{-0.14}$	$\sigma_8(0.57)$	0.5872	$0.582^{+0.022}_{-0.017}$
σ_8	0.7868	$0.780^{+0.029}_{-0.022}$	z_*	1089.64	1089.7 ± 1.1	$\chi^2_{lensing}$	8.35	9.98 ± 1.8
$\sigma_8 \Omega_m^{0.5}$	0.4373	$0.434^{+0.016}_{-0.014}$	r_*	145.74	$145.9^{+1.2}_{-1.4}$	χ^2_{6DF}	0.0106	0.08 ± 0.11
$\sigma_8 \Omega_m^{0.25}$	0.5866	$0.582^{+0.021}_{-0.016}$	$100\theta_*$	1.041102	$1.04111^{+0.00012}_{-0.00015}$	χ^2_{MGS}	1.41	1.49 ± 0.71
$\sigma_8/h^{0.5}$	0.9588	$0.952^{+0.033}_{-0.025}$	D_A/Gpc	13.999	$14.01^{+0.11}_{-0.13}$	$\chi^2_{DR11CMASS}$	2.39	3.12 ± 1.1
$\langle d^2 \rangle^{1/2}$	2.485	$2.492^{+0.050}_{-0.060}$	z_{drag}	1059.36	1059.3 ± 2.1	$\chi^2_{DR11LOWZ}$	0.480	0.72 ± 0.74
z_{re}	9.178	9.18 ± 0.23	r_{drag}	148.47	$148.6^{+1.4}_{-1.7}$	χ^2_{prior}	0.01	1.95 ± 2.0
$10^9 A_s$	2.287	$2.32^{+0.15}_{-0.25}$	k_D	0.13937	0.1392 ± 0.0021	χ^2_{BAO}	4.28	5.41 ± 1.6

Best-fit $\chi^2_{eff} = 12.65$; $\bar{\chi}^2_{eff} = 17.34$; $R - 1 = 0.00450$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.39 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp_lensonly: 8.35

7.67 base_mnu_WLonlyHeymans_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02221	0.02224 ± 0.00089	$10^9 A_s e^{-2\tau}$	1.526	$2.04^{+0.25}_{-0.65}$	$100\theta_D$	0.16098	$0.1611^{+0.0012}_{-0.0014}$
$\mathbf{\Omega_c h^2}$	0.1194	$0.1119^{+0.0079}_{-0.0040}$	D_{40}	1011	1358^{+200}_{-500}	z_{eq}	3383	3205^{+190}_{-100}
$\mathbf{\Sigma m_\nu}$ **[eV]**	0.008	< 0.528	D_{220}	4666	6493^{+800}_{-2000}	k_{eq}	0.010325	$0.00979^{+0.00057}_{-0.00031}$
$\mathbf{ln(10^{10} A_s)}$	2.865	$3.12^{+0.17}_{-0.30}$	D_{810}	2062	2785^{+300}_{-900}	$100\theta_{eq}$	0.8162	$0.852^{+0.018}_{-0.040}$
$\mathbf{n_s}$	0.9613	0.965 ± 0.019	D_{1420}	663	890^{+100}_{-300}	$100\theta_{s,eq}$	0.4510	$0.4698^{+0.0095}_{-0.021}$
H_0	67.89	66.9 ± 1.1	D_{2000}	185	250^{+30}_{-80}	$r_{drag}/D_V(0.57)$	0.07181	0.07176 ± 0.00053
Ω_Λ	0.6927	0.6904 ± 0.0095	$n_{s,0.002}$	0.9613	0.965 ± 0.019	$H(0.57)$	93.15	$92.0^{+1.2}_{-0.96}$
Ω_m	0.3073	0.3096 ± 0.0095	Y_P	0.245323	0.24533 ± 0.00040	$D_A(0.57)$	1383.7	1403^{+17}_{-21}
$\Omega_m h^2$	0.14165	$0.1386^{+0.0037}_{-0.0030}$	Y_P^{BBN}	0.246649	0.24665 ± 0.00040	$F_{AP}(0.57)$	0.67496	0.6755 ± 0.0024
$\Omega_\nu h^2$	0.00008	< 0.00568	10^5D/H	2.621	$2.62^{+0.16}_{-0.19}$	$f\sigma_8(0.57)$	0.4344	0.430 ± 0.018
$\Omega_m h^3$	0.09617	$0.0928^{+0.0036}_{-0.0027}$	Age/Gyr	13.787	$13.96^{+0.13}_{-0.19}$	$\sigma_8(0.57)$	0.5588	0.547 ± 0.025
σ_8	0.7504	0.732 ± 0.032	z_*	1090.06	1089.5 ± 1.2	χ^2_{6DF}	0.0061	0.07 ± 0.10
$\sigma_8 \Omega_m^{0.5}$	0.4160	$0.407^{+0.018}_{-0.016}$	r_*	144.73	$146.6^{+1.4}_{-2.0}$	χ^2_{MGS}	1.47	1.47 ± 0.69
$\sigma_8 \Omega_m^{0.25}$	0.5587	$0.546^{+0.024}_{-0.022}$	$100\theta_*$	1.040980	$1.04117^{+0.00015}_{-0.00018}$	$\chi^2_{DR11CMASS}$	2.41	3.06 ± 0.98
$\sigma_8/h^{0.5}$	0.9107	$0.895^{+0.040}_{-0.036}$	D_A/Gpc	13.903	$14.08^{+0.13}_{-0.19}$	$\chi^2_{DR11LOWZ}$	0.427	0.71 ± 0.70
$\langle d^2 \rangle^{1/2}$	2.245	$2.44^{+0.15}_{-0.29}$	z_{drag}	1059.51	1059.1 ± 2.1	$\chi^2_{CFHTLENS}$	96.78	98.9 ± 2.1
z_{re}	9.236	$9.16^{+0.23}_{-0.26}$	r_{drag}	147.45	$149.3^{+1.7}_{-2.2}$	χ^2_{prior}	0.01	1.99 ± 1.9
$10^9 A_s$	1.76	$2.35^{+0.29}_{-0.74}$	k_D	0.14037	0.1385 ± 0.0023	χ^2_{BAO}	4.32	5.32 ± 1.5

Best-fit $\chi^2_{eff} = 101.11$; $\bar{\chi}^2_{eff} = 106.23$; $R - 1 = 0.00737$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.41 DR11LOWZ: 0.43 WL - CFHTLENS_6bin_conservative: 96.78

7.68 base_mnu_WLonlyHeymans_H070p6_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02230	0.02234 ± 0.00093	$10^9 A_s$	2.09	$2.78^{+0.62}_{-1.2}$	$r_{\rm drag}$	149.13	150.6 ± 3.3
$\mathbf{\Omega_c h^2}$	0.1128	$0.1072^{+0.0098}_{-0.012}$	$10^9 A_s e^{-2\tau}$	1.82	$2.42^{+0.54}_{-1.1}$	$k_{\rm D}$	0.13867	$0.1373^{+0.0035}_{-0.0041}$
$\mathbf{\Sigma m_\nu}$ **[eV]**	0.011	< 0.436	D_{40}	1218	1654^{+400}_{-800}	$100\theta_{\rm D}$	0.16109	$0.1612^{+0.0013}_{-0.0015}$
$\mathbf{\ln(10^{10} A_s)}$	3.042	3.27 ± 0.34	D_{220}	5713	7949^{+2000}_{-4000}	$z_{\rm eq}$	3228	3096^{+240}_{-290}
$\mathbf{n_s}$	0.9652	0.963 ± 0.019	D_{810}	2476	3312^{+700}_{-1000}	$k_{\rm eq}$	0.00985	$0.00946^{+0.00072}_{-0.00089}$
H_0	70.37	69.6 ± 3.4	D_{1420}	793	1049^{+200}_{-500}	$100\theta_{\rm eq}$	0.846	$0.878^{+0.053}_{-0.060}$
Ω_Λ	0.7270	$0.721^{+0.055}_{-0.034}$	D_{2000}	222	295^{+60}_{-100}	$100\theta_{\rm s,eq}$	0.4663	0.483 ± 0.028
$\Omega_{\rm m}$	0.2730	$0.279^{+0.034}_{-0.055}$	$n_{\rm s,0.002}$	0.9652	0.963 ± 0.019	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07394	0.0740 ± 0.0031
$\Omega_{\rm m} h^2$	0.1352	$0.1333^{+0.0081}_{-0.011}$	$Y_{\rm P}$	0.245360	0.24537 ± 0.00042	$H(0.57)$	93.98	93.1 ± 1.4
$\Omega_\nu h^2$	0.00011	< 0.00469	$Y_{\rm P}^{\rm BBN}$	0.246686	0.24669 ± 0.00042	$D_{\rm A}(0.57)$	1353.1	1368 ± 42
$\Omega_{\rm m} h^3$	0.09513	0.0924 ± 0.0035	10^5D/H	2.605	$2.61^{+0.16}_{-0.19}$	$F_{\rm AP}(0.57)$	0.6660	$0.667^{+0.010}_{-0.014}$
σ_8	0.797	0.781 ± 0.070	Age/Gyr	13.747	$13.88^{+0.13}_{-0.17}$	$f\sigma_8(0.57)$	0.4516	0.447 ± 0.029
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4163	0.408 ± 0.016	z_*	1089.37	$1088.9^{+1.2}_{-1.5}$	$\sigma_8(0.57)$	0.602	0.592 ± 0.064
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5759	0.564 ± 0.032	r_*	146.40	$147.9^{+3.4}_{-3.0}$	$\chi^2_{\rm H070p6}$	0.01	1.08 ± 1.7
$\sigma_8/h^{0.5}$	0.950	0.935 ± 0.065	$100\theta_*$	1.040972	$1.04114^{+0.00015}_{-0.00018}$	$\chi^2_{\rm CFHTLENS}$	96.91	98.8 ± 1.8
$\langle d^2 \rangle^{1/2}$	2.380	$2.58^{+0.28}_{-0.39}$	$D_{\rm A}$/Gpc	14.064	$14.20^{+0.32}_{-0.29}$	$\chi^2_{\rm prior}$	0.07	2.05 ± 2.1
$z_{\rm re}$	9.081	$9.02^{+0.25}_{-0.31}$	$z_{\rm drag}$	1059.25	1058.9 ± 2.4			

Best-fit $\chi^2_{\rm eff} = 96.99$; $\bar{\chi}^2_{\rm eff} = 101.89$; $R - 1 = 0.00931$

$\chi^2_{\rm eff}$: Hubble - H070p6: 0.01 WL - CFHTLENS_6bin_conservative: 96.91

7.69 base_mnu_WLonlyHeymans_H070p6_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02238	0.02245 ± 0.00088	D_{40}	1006	1314^{+200}_{-400}	$k_{\rm eq}$	0.010347	$0.00986^{+0.00052}_{-0.00029}$
$\mathbf{\Omega_c h^2}$	0.1195	$0.1127^{+0.0072}_{-0.0036}$	D_{220}	4658	6248^{+700}_{-2000}	$100\theta_{\rm eq}$	0.8153	$0.847^{+0.016}_{-0.035}$
$\mathbf{\Sigma m_\nu}$ **[eV]**	0.006	< 0.448	D_{810}	2059	2679^{+300}_{-800}	$100\theta_{\rm s,eq}$	0.4504	$0.4671^{+0.0085}_{-0.019}$
$\mathbf{\ln(10^{10} A_s)}$	2.863	$3.09^{+0.15}_{-0.28}$	D_{1420}	663	857^{+94}_{-250}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07179	$0.07188^{+0.00051}_{-0.00057}$
$\mathbf{n_s}$	0.9631	0.964 ± 0.020	D_{2000}	185.9	241^{+30}_{-70}	$H(0.57)$	93.26	$92.3^{+1.1}_{-0.91}$
H_0	67.99	67.3 ± 1.0	$n_{\rm s,0.002}$	0.9631	0.964 ± 0.020	$D_{\rm A}(0.57)$	1381.8	1396^{+16}_{-19}
Ω_Λ	0.6930	0.6933 ± 0.0094	$Y_{\rm P}$	0.245397	0.24542 ± 0.00039	$F_{\rm AP}(0.57)$	0.67489	0.6748 ± 0.0024
$\Omega_{\rm m}$	0.3070	0.3067 ± 0.0094	$Y_{\rm P}^{\rm BBN}$	0.246724	0.24674 ± 0.00039	$f\sigma_8(0.57)$	0.4342	$0.431^{+0.020}_{-0.017}$
$\Omega_{\rm m}h^2$	0.14194	$0.1390^{+0.0035}_{-0.0030}$	10^5D/H	2.589	$2.59^{+0.15}_{-0.18}$	$\sigma_8(0.57)$	0.5586	0.550 ± 0.025
$\Omega_\nu h^2$	0.00007	< 0.00482	Age/Gyr	13.770	$13.91^{+0.13}_{-0.17}$	$\chi^2_{\rm H070p6}$	0.62	1.06 ± 0.61
$\Omega_{\rm m}h^3$	0.09650	$0.0936^{+0.0033}_{-0.0026}$	z_*	1089.86	$1089.3^{+1.1}_{-1.2}$	$\chi^2_{\rm 6DF}$	0.0065	0.063 ± 0.086
σ_8	0.7501	$0.736^{+0.035}_{-0.032}$	r_*	144.56	$146.2^{+1.4}_{-1.8}$	$\chi^2_{\rm MGS}$	1.47	1.65 ± 0.71
$\sigma_8\Omega_{\rm m}^{0.5}$	0.4156	$0.407^{+0.018}_{-0.016}$	$100\theta_*$	1.040955	$1.04112^{+0.00014}_{-0.00017}$	$\chi^2_{\rm DR11CMASS}$	2.42	3.09 ± 0.96
$\sigma_8\Omega_{\rm m}^{0.25}$	0.5583	$0.548^{+0.025}_{-0.022}$	$D_{\rm A}$/Gpc	13.887	$14.04^{+0.13}_{-0.17}$	$\chi^2_{\rm DR11LOWZ}$	0.438	0.56 ± 0.60
$\sigma_8/h^{0.5}$	0.9097	$0.897^{+0.041}_{-0.036}$	$z_{\rm drag}$	1059.93	1059.6 ± 2.1	$\chi^2_{\rm CFHTLENS}$	96.76	98.7 ± 1.9
$\langle d^2\rangle^{1/2}$	2.240	$2.42^{+0.15}_{-0.25}$	$r_{\rm drag}$	147.22	$148.9^{+1.6}_{-2.0}$	$\chi^2_{\rm prior}$	0.03	2.03 ± 2.0
$z_{\rm re}$	9.193	$9.11^{+0.22}_{-0.25}$	$k_{\rm D}$	0.14073	0.1391 ± 0.0022	$\chi^2_{\rm BAO}$	4.34	5.36 ± 1.4
$10^9 A_{\rm s}$	1.752	$2.26^{+0.25}_{-0.66}$	$100\theta_{\rm D}$	0.16074	$0.1609^{+0.0011}_{-0.0013}$			
$10^9 A_{\rm s}e^{-2\tau}$	1.523	$1.97^{+0.22}_{-0.57}$	$z_{\rm eq}$	3390	3230^{+170}_{-95}			

Best-fit $\chi^2_{\rm eff} = 101.75$; $\bar{\chi}^2_{\rm eff} = 107.16$; $R - 1 = 0.00667$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.42 DR11LOWZ: 0.44 Hubble - H070p6: 0.62 WL - CFHTLENS_6bin_conservative: 96.76

7.70 base_mnu_CamSpecDS_TT_lowTEB

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02211 ± 0.00027 (-0.1σ)	H_0	$65.0^{+3.5}_{-1.7}$ (-0.2σ)	$100\theta_*$	1.04098 ± 0.00049 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1205 ± 0.0023 $(+0.1\sigma)$	Ω_Λ	$0.652^{+0.050}_{-0.021}$ (-0.2σ)	$z_{\rm drag}$	1059.39 ± 0.51 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04066 ± 0.00054 (-0.0σ)	$\Omega_{\rm m}$	$0.348^{+0.021}_{-0.050}$ $(+0.2\sigma)$	$r_{\rm drag}$	147.18 ± 0.52 (-0.1σ)
$\boldsymbol{\tau}$	0.077 ± 0.020 (-0.2σ)	$\Omega_{\rm m} h^2$	$0.1457^{+0.0028}_{-0.0048}$ $(+0.2\sigma)$	$k_{\rm D}$	0.14063 ± 0.00054 $(+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.348 $(+0.2\sigma)$	$\Omega_\nu h^2$	< 0.00375 $(+0.2\sigma)$	$100\theta_{\rm D}$	0.16101 ± 0.00028 (-0.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.088 ± 0.038 (-0.2σ)	$\Omega_{\rm m} h^3$	$0.0946^{+0.0021}_{-0.00089}$ (-0.2σ)	$z_{\rm eq}$	3408 ± 52 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9638 ± 0.0069 $(+0.0\sigma)$	σ_8	$0.782^{+0.065}_{-0.028}$ (-0.3σ)	$100\theta_{\rm eq}$	0.8119 ± 0.0097 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.459 ± 0.014 (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0699^{+0.0022}_{-0.0012}$ (-0.2σ)
$\boldsymbol{A_{100}^{PS}}$	282 ± 22 $(+0.8\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.599^{+0.032}_{-0.018}$ (-0.3σ)	$H(0.57)$	$91.7^{+1.7}_{-0.85}$ (-0.2σ)
$\boldsymbol{A_{143}^{PS}}$	48 ± 7 $(+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.970^{+0.058}_{-0.029}$ (-0.3σ)	$D_{\rm A}(0.57)$	1426^{+23}_{-52} $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	88 ± 10 (-0.9σ)	$\langle d^2 \rangle^{1/2}$	2.487 ± 0.047 (-0.2σ)	$F_{\rm AP}(0.57)$	$0.6847^{+0.0054}_{-0.012}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	54 ± 7 (-1.6σ)	$z_{\rm re}$	$9.91^{+2.0}_{-1.8}$ (-0.2σ)	$f\sigma_8(0.57)$	$0.465^{+0.027}_{-0.013}$ (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	$2.93^{+1.0}_{-2.6}$ (-1.1σ)	$10^9 A_{\rm s}$	2.195 ± 0.083 (-0.2σ)	$\sigma_8(0.57)$	$0.576^{+0.056}_{-0.023}$ (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.551^{+0.092}_{-0.11}$	$10^9 A_{\rm s} e^{-2\tau}$	1.880 ± 0.014 (-0.1σ)	$Y_{\rm P}^{\rm BBN}$	0.24619 ± 0.00012 (-3.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.604 (-0.2σ)	D_{40}	1233 ± 15 (-0.3σ)	f_{2000}^{143}	33.3 ± 2.9 $(+0.8\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.55^{+4.3}_{-1.6}$ $(+0.7\sigma)$	D_{220}	5706 ± 41 (-0.2σ)	f_{2000}^{217}	108.7 ± 2.1 $(+1.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.97 ± 0.19	D_{810}	2534 ± 14 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	35.7 ± 2.1 $(+1.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.07 ± 0.18	D_{1420}	814.7 ± 5.0 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10497.0 ± 2.3 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.16 ± 0.11	$n_{\rm s,0.002}$	0.9638 ± 0.0069 $(+0.0\sigma)$	$\chi^2_{\rm CamSpec}$	8156.0 ± 5.9
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$Y_{\rm P}$	0.24486 ± 0.00012 (-3.5σ)	$\chi^2_{\rm prior}$	7.37 ± 3.3 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99837 ± 0.00096 $(+0.6\sigma)$	Age/Gyr	$13.942^{+0.083}_{-0.19}$ $(+0.2\sigma)$	$\chi^2_{\rm CMB}$	18653.0 ± 5.9 $(+1252.8\sigma)$
$\boldsymbol{c_{217}}$	0.9994 ± 0.0018 $(+2.4\sigma)$	z_*	$1090.34^{+0.50}_{-0.61}$ $(+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	144.43 ± 0.54 (-0.1σ)		

$\bar{\chi}^2_{\rm eff} = 18660.37$; $\Delta\bar{\chi}^2_{\rm eff} = 7376.73$; $R - 1 = 0.00823$

7.71 base_mnu_plikDS_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022320	0.02214 ± 0.00026 $(+0.0\sigma)$	Ω_m	0.3064	$0.344^{+0.018}_{-0.048}$ $(+0.1\sigma)$	$100\theta_*$	1.041105	1.04094 ± 0.00047 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.11944	0.1205 ± 0.0023 $(+0.1\sigma)$	$\Omega_m h^2$	0.14178	$0.1455^{+0.0026}_{-0.0047}$ $(+0.2\sigma)$	D_A/Gpc	13.891	13.874 ± 0.050 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04095	1.04064 ± 0.00052 (-0.1σ)	$\Omega_\nu h^2$	0.00002	< 0.00328 $(+0.1\sigma)$	z_{drag}	1059.780	1059.48 ± 0.50 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0757	0.077 ± 0.019 (-0.2σ)	$\Omega_m h^3$	0.09645	$0.0948^{+0.0020}_{-0.00074}$ (-0.1σ)	r_{drag}	147.30	147.15 ± 0.52 (-0.2σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.002	< 0.305 $(+0.1\sigma)$	σ_8	0.8400	$0.787^{+0.061}_{-0.024}$ (-0.2σ)	k_D	0.14060	0.14067 ± 0.00055 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0850	3.089 ± 0.037 (-0.2σ)	$\sigma_8 \Omega_m^{0.5}$	0.4650	0.460 ± 0.014 (-0.1σ)	$100\theta_D$	0.160852	0.16098 ± 0.00027 (-0.1σ)
$\boldsymbol{n_s}$	0.9670	0.9630 ± 0.0068 (-0.1σ)	$\sigma_8 \Omega_m^{0.25}$	0.6250	$0.602^{+0.030}_{-0.016}$ (-0.2σ)	z_{eq}	3388	3408 ± 52 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.00026	1.0004 ± 0.0025 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	1.0185	$0.974^{+0.055}_{-0.026}$ (-0.2σ)	k_{eq}	0.010339	0.01040 ± 0.00016 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	69.3	68.1 ± 6.5 $(+0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4951	2.492 ± 0.047 (-0.1σ)	$100\theta_{eq}$	0.8157	0.8120 ± 0.0097 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.11	—	z_{re}	9.74	9.91 ± 1.8 (-0.2σ)	$100\theta_{s,eq}$	0.45070	0.4488 ± 0.0050 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	6.74	4.57 ± 1.9 (-0.2σ)	$10^9 A_s$	2.187	$2.198^{+0.078}_{-0.089}$ (-0.2σ)	$r_{drag}/D_V(0.57)$	0.07185	$0.0701^{+0.0022}_{-0.0011}$ (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	275.5	285 ± 28 $(+0.9\sigma)$	$10^9 A_s e^{-2\tau}$	1.8796	1.882 ± 0.014 $(+0.1\sigma)$	$H(0.57)$	93.26	$91.9^{+1.6}_{-0.73}$ (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	44.8	50 ± 7 $(+0.6\sigma)$	D_{40}	1233.2	1237 ± 15 (-0.0σ)	$D_A(0.57)$	1381.4	1422^{+20}_{-49} $(+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{PS}}$	37.1	41^{+9}_{-10} $(+0.1\sigma)$	D_{220}	5720.8	5719 ± 41 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6747	$0.6839^{+0.0047}_{-0.011}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	95.2	93 ± 10 (-0.4σ)	D_{810}	2534.9	2536 ± 14 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4859	$0.467^{+0.025}_{-0.011}$ (-0.2σ)
$\boldsymbol{A^{kSZ}}$	0.01	< 5.29 $(+0.1\sigma)$	D_{1420}	815.6	814.6 ± 5.0 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6257	$0.580^{+0.052}_{-0.020}$ (-0.2σ)
$\boldsymbol{A_{100}^{dustTT}}$	7.30	7.36 ± 1.9 (-0.0σ)	D_{2000}	230.90	229.8 ± 2.0 $(+0.0\sigma)$	f_{2000}^{143}	32.19	34.0 ± 2.8 $(+1.0\sigma)$
$\boldsymbol{A_{143}^{dustTT}}$	9.12	9.08 ± 1.8 $(+0.0\sigma)$	$n_{s,0.002}$	0.9670	0.9630 ± 0.0068 (-0.1σ)	$f_{2000}^{143\times217}$	32.48	33.8 ± 2.1 $(+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.93	17.4 ± 4.2 $(+0.0\sigma)$	Y_P	0.245371	0.24529 ± 0.00012 $(+0.0\sigma)$	f_{2000}^{217}	113.32	114.5 ± 2.0 $(+3.6\sigma)$
$\boldsymbol{A_{217}^{dustTT}}$	81.1	80.6 ± 7.3 (-0.2σ)	Y_P^{BBN}	0.246697	0.24661 ± 0.00012 $(+0.0\sigma)$	χ^2_{lowTEB}	10496.12	10497.4 ± 2.4 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99794	0.99790 ± 0.00078 $(+0.0\sigma)$	10^5D/H	2.601	$2.635^{+0.048}_{-0.055}$ (-0.0σ)	χ^2_{plik}	747.8	762.7 ± 5.8 (-2.6σ)
$\boldsymbol{c_{217}}$	0.99626	0.9964 ± 0.0014 $(+0.3\sigma)$	Age/Gyr	13.771	$13.927^{+0.069}_{-0.18}$ $(+0.1\sigma)$	χ^2_{prior}	1.87	7.34 ± 3.5 (-0.0σ)
H_0	68.02	$65.2^{+3.3}_{-1.5}$ (-0.1σ)	z_*	1089.93	$1090.30^{+0.47}_{-0.60}$ $(+0.0\sigma)$	χ^2_{CMB}	11243.9	11260.1 ± 5.8 (-2.7σ)
Ω_Λ	0.6936	$0.656^{+0.048}_{-0.018}$ (-0.1σ)	r_*	144.62	$144.42^{+0.57}_{-0.52}$ (-0.1σ)			

Best-fit $\chi^2_{eff} = 11245.77$; $\Delta\chi^2_{eff} = -15.77$; $\bar{\chi}^2_{eff} = 11267.42$; $\Delta\bar{\chi}^2_{eff} = -16.22$; $R - 1 = 0.01142$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.12 (Δ -0.40) plik_dx11dr2_DS_v18_TT: 747.78

7.72 base_mnu_plikHM_TT_WMAPTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022243	0.02211 ± 0.00026	Ω_m	0.3091	$0.340^{+0.017}_{-0.042}$	$100\theta_*$	1.041044	1.04093 ± 0.00048
$\boldsymbol{\Omega_c h^2}$	0.11983	0.1205 ± 0.0023	$\Omega_m h^2$	0.14209	$0.1451^{+0.0025}_{-0.0043}$	D_A/Gpc	13.8879	13.877 ± 0.048
$\boldsymbol{100\theta_{MC}}$	1.04087	1.04064 ± 0.00052	$\Omega_\nu h^2$	0.00002	< 0.00279	z_{drag}	1059.628	1059.40 ± 0.50
$\boldsymbol{\tau}$	0.0728	$0.075^{+0.011}_{-0.013}$	$\Omega_m h^3$	0.09634	$0.0949^{+0.0018}_{-0.00066}$	r_{drag}	147.29	147.19 ± 0.52
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.002	< 0.259	σ_8	0.8389	$0.794^{+0.055}_{-0.019}$	k_D	0.14056	0.14059 ± 0.00055
$\boldsymbol{\ln(10^{10} A_s)}$	3.0797	3.084 ± 0.023	$\sigma_8 \Omega_m^{0.5}$	0.4664	0.461 ± 0.014	$100\theta_D$	0.160935	0.16103 ± 0.00027
$\boldsymbol{n_s}$	0.9657	0.9628 ± 0.0066	$\sigma_8 \Omega_m^{0.25}$	0.6255	$0.605^{+0.029}_{-0.015}$	z_{eq}	3395	3408 ± 51
$\boldsymbol{y_{cal}}$	1.00020	1.0005 ± 0.0025	$\sigma_8/h^{0.5}$	1.0188	$0.980^{+0.051}_{-0.022}$	k_{eq}	0.010362	0.01041 ± 0.00016
$\boldsymbol{A_{217}^{CIB}}$	66.5	64.5 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.4957	2.490 ± 0.040	$100\theta_{eq}$	0.8141	0.8117 ± 0.0095
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	z_{re}	9.50	9.72 ± 1.1	$100\theta_{s,eq}$	0.44991	0.4487 ± 0.0049
$\boldsymbol{A_{143}^{tSZ}}$	7.19	4.94 ± 2.0	$10^9 A_s$	2.175	$2.186^{+0.047}_{-0.055}$	$r_{drag}/D_V(0.57)$	0.07170	$0.0702^{+0.0019}_{-0.00098}$
$\boldsymbol{A_{100}^{PS}}$	251.9	261 ± 28	$10^9 A_s e^{-2\tau}$	1.8804	1.883 ± 0.014	$H(0.57)$	93.15	$92.0^{+1.5}_{-0.65}$
$\boldsymbol{A_{143}^{PS}}$	39.1	45 ± 8	D_{40}	1234.1	1237 ± 15	$D_A(0.57)$	1384.6	1418^{+18}_{-44}
$\boldsymbol{A_{143\times217}^{PS}}$	33.8	40^{+10}_{-10}	D_{220}	5714.4	5716 ± 42	$F_{AP}(0.57)$	0.6754	$0.6830^{+0.0043}_{-0.010}$
$\boldsymbol{A_{217}^{PS}}$	98.1	97 ± 10	D_{810}	2533.9	2536 ± 14	$f\sigma_8(0.57)$	0.4860	$0.469^{+0.023}_{-0.0098}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.99	D_{1420}	814.6	814.3 ± 5.1	$\sigma_8(0.57)$	0.6242	$0.585^{+0.047}_{-0.016}$
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.46 ± 1.9	D_{2000}	230.43	229.7 ± 2.0	f_{2000}^{143}	29.43	30.9 ± 3.1
$\boldsymbol{A_{143}^{dustTT}}$	9.00	9.02 ± 1.9	$n_{s,0.002}$	0.9657	0.9628 ± 0.0066	$f_{2000}^{143\times217}$	32.16	33.2 ± 2.2
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.57	17.2 ± 4.2	Y_P	0.245337	0.24527 ± 0.00012	f_{2000}^{217}	105.78	106.8 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.4	Y_P^{BBN}	0.246663	0.24660 ± 0.00012	$\chi^2_{WMAPTEB}$	19734.25	19735.4 ± 2.3
$\boldsymbol{c_{100}}$	0.99791	0.99787 ± 0.00078	10^5D/H	2.615	$2.641^{+0.047}_{-0.053}$	χ^2_{plik}	763.4	779.0 ± 6.0
$\boldsymbol{c_{217}}$	0.99588	0.9960 ± 0.0014	Age/Gyr	13.782	$13.913^{+0.061}_{-0.16}$	χ^2_{prior}	2.06	7.40 ± 3.6
H_0	67.80	$65.5^{+3.0}_{-1.3}$	z_*	1090.06	$1090.33^{+0.46}_{-0.56}$	χ^2_{CMB}	20497.7	20514.4 ± 5.9
Ω_Λ	0.6909	$0.660^{+0.042}_{-0.017}$	r_*	144.58	144.45 ± 0.53			

Best-fit $\chi^2_{eff} = 20499.74$; $\bar{\chi}^2_{eff} = 20521.79$; $R - 1 = 0.00732$

χ^2_{eff}: CMB - bflike_WMAP353ggf_LFI312_nw8: 19734.25 plik_dx11dr2_HM_v18_TT: 763.42

7.73 base_mnu_plikHM_TT_WMAPTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02210 ± 0.00027	Ω_m	$0.344^{+0.025}_{-0.047}$	$100\theta_*$	1.04100 ± 0.00048
$\boldsymbol{\Omega_c h^2}$	0.1200 ± 0.0023	$\Omega_m h^2$	$0.1452^{+0.0031}_{-0.0048}$	D_A/Gpc	$13.888^{+0.053}_{-0.048}$
$\boldsymbol{100\theta_{MC}}$	1.04069 ± 0.00054	$\Omega_\nu h^2$	< 0.00388	z_{drag}	1059.35 ± 0.51
$\boldsymbol{\tau}$	0.073 ± 0.012	$\Omega_m h^3$	$0.0945^{+0.0017}_{-0.00099}$	r_{drag}	147.33 ± 0.52
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.360	σ_8	$0.777^{+0.047}_{-0.026}$	k_D	0.14045 ± 0.00054
$\boldsymbol{\ln(10^{10} A_s)}$	3.079 ± 0.022	$\sigma_8 \Omega_m^{0.5}$	0.4538 ± 0.0089	$100\theta_D$	0.16107 ± 0.00028
$\boldsymbol{n_s}$	0.9637 ± 0.0069	$\sigma_8 \Omega_m^{0.25}$	$0.593^{+0.018}_{-0.012}$	z_{eq}	3396 ± 52
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025	$\sigma_8/h^{0.5}$	$0.962^{+0.035}_{-0.021}$	k_{eq}	0.01037 ± 0.00016
$\boldsymbol{A_{217}^{CIB}}$	64.8 ± 6.6	$\langle d^2 \rangle^{1/2}$	$2.469^{+0.029}_{-0.035}$	$100\theta_{eq}$	0.8140 ± 0.0097
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	z_{re}	9.58 ± 1.1	$100\theta_{s,eq}$	0.4500 ± 0.0049
$\boldsymbol{A_{143}^{tSZ}}$	4.87 ± 2.0	$10^9 A_s$	$2.175^{+0.046}_{-0.052}$	$r_{drag}/D_V(0.57)$	$0.0701^{+0.0021}_{-0.0014}$
$\boldsymbol{A_{100}^{PS}}$	263 ± 28	$10^9 A_s e^{-2\tau}$	1.879 ± 0.013	$H(0.57)$	$91.8^{+1.5}_{-1.0}$
$\boldsymbol{A_{143}^{PS}}$	46 ± 8	D_{40}	1232 ± 13	$D_A(0.57)$	1423^{+28}_{-47}
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+9}_{-10}	D_{220}	5714 ± 42	$F_{AP}(0.57)$	$0.6838^{+0.0064}_{-0.011}$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{810}	2534 ± 14	$f\sigma_8(0.57)$	$0.461^{+0.016}_{-0.0090}$
$\boldsymbol{A^{kSZ}}$	< 5.28	D_{1420}	814.3 ± 5.2	$\sigma_8(0.57)$	$0.572^{+0.043}_{-0.023}$
$\boldsymbol{A_{100}^{dustTT}}$	7.48 ± 1.9	D_{2000}	229.4 ± 2.0	f_{2000}^{143}	31.3 ± 3.0
$\boldsymbol{A_{143}^{dustTT}}$	9.04 ± 1.9	$n_{s,0.002}$	0.9637 ± 0.0069	$f_{2000}^{143\times217}$	33.5 ± 2.2
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	Y_P	0.24527 ± 0.00012	f_{2000}^{217}	107.0 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.5	Y_P^{BBN}	0.24660 ± 0.00012	$\chi^2_{lensing}$	9.46 ± 1.3
$\boldsymbol{c_{100}}$	0.99788 ± 0.00077	10^5D/H	2.643 ± 0.052	$\chi^2_{WMAPTEB}$	19734.7 ± 1.9
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	Age/Gyr	$13.940^{+0.099}_{-0.17}$	χ^2_{plik}	780.1 ± 5.6
H_0	$65.2^{+3.2}_{-2.0}$	z_*	$1090.31^{+0.52}_{-0.59}$	χ^2_{prior}	7.46 ± 3.6
Ω_Λ	$0.656^{+0.047}_{-0.025}$	r_*	144.58 ± 0.54	χ^2_{CMB}	20524.2 ± 5.7

$\bar{\chi}^2_{eff} = 20531.70$; $R - 1 = 0.01261$

7.74 base_mnu_plikHM_TT_WMAPTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02226 ± 0.00020	$\Omega_\nu h^2$	< 0.00102	$k_{\rm D}$	$0.14036^{+0.00050}_{-0.00045}$
$\boldsymbol{\Omega_c h^2}$	0.1189 ± 0.0014	$\Omega_{\rm m} h^3$	$0.09594^{+0.00066}_{-0.00051}$	$100\theta_{\rm D}$	0.16095 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.04095 ± 0.00042	σ_8	$0.823^{+0.021}_{-0.013}$	$z_{\rm eq}$	3374^{+35}_{-31}
$\boldsymbol{\tau}$	$0.076^{+0.011}_{-0.013}$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.459^{+0.011}_{-0.0099}$	$k_{\rm eq}$	$0.01030^{+0.00011}_{-0.000096}$
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.0952	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.615^{+0.015}_{-0.011}$	$100\theta_{\rm eq}$	0.8181 ± 0.0061
$\boldsymbol{\ln(10^{10} A_s)}$	$3.085^{+0.022}_{-0.025}$	$\sigma_8/h^{0.5}$	$1.001^{+0.023}_{-0.017}$	$100\theta_{\rm s,eq}$	$0.4520^{+0.0030}_{-0.0034}$
$\boldsymbol{n_s}$	0.9671 ± 0.0046	$\langle d^2 \rangle^{1/2}$	2.479 ± 0.035	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07161^{+0.00048}_{-0.00043}$
$\boldsymbol{y_{cal}}$	1.0005 ± 0.0025	$z_{\rm re}$	9.77 ± 1.1	$H(0.57)$	$92.96^{+0.37}_{-0.31}$
$\boldsymbol{A_{217}^{CIB}}$	$63.8^{+6.4}_{-7.1}$	$10^9 A_{\rm s}$	$2.187^{+0.048}_{-0.056}$	$D_{\rm A}(0.57)$	$1388.6^{+8.2}_{-9.8}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	1.878 ± 0.012	$F_{\rm AP}(0.57)$	$0.6760^{+0.0019}_{-0.0022}$
$\boldsymbol{A_{143}^{tSZ}}$	5.09 ± 1.9	D_{40}	1233 ± 13	$f\sigma_8(0.57)$	$0.479^{+0.010}_{-0.0078}$
$\boldsymbol{A_{100}^{PS}}$	258 ± 27	D_{220}	5723 ± 41	$\sigma_8(0.57)$	$0.612^{+0.016}_{-0.0095}$
$\boldsymbol{A_{143}^{PS}}$	43 ± 8	D_{810}	2535 ± 14	f_{2000}^{143}	29.9 ± 2.8
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{1420}	$815.1^{+5.4}_{-4.9}$	$f_{2000}^{143\times217}$	32.3 ± 2.0
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{2000}	230.4 ± 1.8	f_{2000}^{217}	106.0 ± 1.9
$\boldsymbol{A^{kSZ}}$	< 4.65	$n_{\rm s,0.002}$	0.9671 ± 0.0046	$\chi^2_{\rm WMAPTEB}$	19735.1 ± 2.2
$\boldsymbol{A_{100}^{dustTT}}$	7.49 ± 1.9	$Y_{\rm P}$	0.245342 ± 0.000090	$\chi^2_{\rm plik}$	778 ± 10
$\boldsymbol{A_{143}^{dustTT}}$	9.01 ± 1.8	$Y_{\rm P}^{\rm BBN}$	0.246669 ± 0.000091	$\chi^2_{\rm 6DF}$	0.074 ± 0.098
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.1 ± 4.1	10^5D/H	2.612 ± 0.038	$\chi^2_{\rm MGS}$	1.29 ± 0.55
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.4	Age/Gyr	$13.808^{+0.033}_{-0.042}$	$\chi^2_{\rm DR11CMASS}$	2.97 ± 0.83
$\boldsymbol{c_{100}}$	0.99791 ± 0.00078	z_*	1089.97 ± 0.30	$\chi^2_{\rm DR11LOWZ}$	0.84 ± 0.69
$\boldsymbol{c_{217}}$	0.9959 ± 0.0014	r_*	$144.79^{+0.34}_{-0.38}$	$\chi^2_{\rm prior}$	7.28 ± 3.5
H_0	$67.55^{+0.69}_{-0.60}$	$100\theta_*$	1.04115 ± 0.00042	$\chi^2_{\rm CMB}$	20510 ± 10
Ω_Λ	$0.6886^{+0.0089}_{-0.0075}$	$D_{\rm A}$/Gpc	$13.907^{+0.032}_{-0.036}$	$\chi^2_{\rm BAO}$	5.17 ± 1.2
$\Omega_{\rm m}$	$0.3114^{+0.0075}_{-0.0089}$	$z_{\rm drag}$	1059.61 ± 0.45		
$\Omega_{\rm m} h^2$	0.1420 ± 0.0012	$r_{\rm drag}$	$147.50^{+0.36}_{-0.41}$		

$\bar{\chi}^2_{\rm eff} = 20525.59$; $R - 1 = 0.01723$

8 mnu+Alens

8.1 base_mnu_Alens_plikHM_TT_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022407	0.02238 ± 0.00022	Ω_m	0.3115	0.3115 ± 0.0089	D_A/Gpc	13.9469	13.947 ± 0.039
$\boldsymbol{\Omega_c h^2}$	0.11664	0.1167 ± 0.0019	$\Omega_m h^2$	0.14133	0.1413 ± 0.0012	z_{drag}	1059.780	1059.73 ± 0.47
$\boldsymbol{100\theta_{MC}}$	1.041240	1.04124 ± 0.00045	$\Omega_\nu h^2$	0.00229	$0.0022^{+0.0011}_{-0.0016}$	r_{drag}	147.925	147.94 ± 0.42
$\boldsymbol{\tau}$	0.0602	0.060 ± 0.021	$\Omega_m h^3$	0.09519	$0.09518^{+0.00094}_{-0.00074}$	k_D	0.140033	0.14000 ± 0.00046
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.213	$0.21^{+0.10}_{-0.15}$	σ_8	0.7696	$0.772^{+0.039}_{-0.033}$	$100\theta_D$	0.160858	0.16089 ± 0.00027
$\boldsymbol{A_L}$	1.091	$1.087^{+0.071}_{-0.084}$	$\sigma_8\Omega_m^{0.5}$	0.4295	0.430 ± 0.018	z_{eq}	3322.7	3324 ± 43
$\boldsymbol{\ln(10^{10} A_s)}$	3.0458	3.046 ± 0.042	$\sigma_8\Omega_m^{0.25}$	0.5750	$0.576^{+0.028}_{-0.025}$	k_{eq}	0.010142	0.01014 ± 0.00013
$\boldsymbol{n_s}$	0.9727	0.9721 ± 0.0057	$\sigma_8/h^{0.5}$	0.9377	$0.940^{+0.045}_{-0.039}$	$100\theta_{eq}$	0.8283	$0.8282^{+0.0083}_{-0.0096}$
$\boldsymbol{y_{cal}}$	0.99988	1.0000 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4815	2.480 ± 0.038	$100\theta_{s,eq}$	0.45720	$0.4572^{+0.0042}_{-0.0049}$
$\boldsymbol{A_{217}^{CIB}}$	66.8	64.0 ± 6.6	z_{re}	8.22	$8.11^{+2.4}_{-1.9}$	$r_{drag}/D_V(0.57)$	0.071623	0.07164 ± 0.00049
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.103	2.105 ± 0.088	$H(0.57)$	92.705	$92.71^{+0.48}_{-0.43}$
$\boldsymbol{A_{143}^{tSZ}}$	7.26	5.17 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8643	1.865 ± 0.014	$D_A(0.57)$	1392.5	1392 ± 11
$\boldsymbol{A_{100}^{PS}}$	252.4	258 ± 28	D_{40}	1210.4	1212 ± 17	$F_{AP}(0.57)$	0.67603	0.6760 ± 0.0023
$\boldsymbol{A_{143}^{PS}}$	36.9	43 ± 8	D_{220}	5723.4	5725 ± 41	$f\sigma_8(0.57)$	0.4502	$0.451^{+0.020}_{-0.018}$
$\boldsymbol{A_{143\times217}^{PS}}$	31.4	38^{+10}_{-10}	D_{810}	2528.8	2529 ± 14	$\sigma_8(0.57)$	0.5735	$0.575^{+0.029}_{-0.025}$
$\boldsymbol{A_{217}^{PS}}$	96.8	96 ± 10	D_{1420}	815.1	814.8 ± 5.1	$\chi^2_{lensing}$	9.53	10.3 ± 2.1
$\boldsymbol{A^{kSZ}}$	0.00	< 4.75	D_{2000}	230.74	230.5 ± 1.8	χ^2_{lowTEB}	10493.50	10494.7 ± 1.7
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.48 ± 1.9	$n_{s,0.002}$	0.9727	0.9721 ± 0.0057	χ^2_{plik}	766.7	780.1 ± 5.7
$\boldsymbol{A_{143}^{dustTT}}$	9.18	9.07 ± 1.8	Y_P	0.245409	0.24540 ± 0.00010	χ^2_{6DF}	0.0300	0.08 ± 0.11
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.37	17.1 ± 4.1	Y_P^{BBN}	0.246735	0.24672 ± 0.00010	χ^2_{MGS}	1.22	1.31 ± 0.62
$\boldsymbol{A_{217}^{dustTT}}$	81.5	81.6 ± 7.4	10^5D/H	2.5845	2.590 ± 0.042	$\chi^2_{DR11CMASS}$	2.46	3.05 ± 0.94
$\boldsymbol{c_{100}}$	0.99796	0.99789 ± 0.00077	Age/Gyr	13.845	$13.845^{+0.049}_{-0.058}$	$\chi^2_{DR11LOWZ}$	0.68	0.85 ± 0.75
$\boldsymbol{c_{217}}$	0.99584	0.9959 ± 0.0014	z_*	1089.595	1089.64 ± 0.38	χ^2_{prior}	2.01	7.39 ± 3.6
H_0	67.35	67.37 ± 0.75	r_*	145.257	145.26 ± 0.42	χ^2_{CMB}	11269.7	11285.2 ± 5.7
Ω_Λ	0.6885	0.6885 ± 0.0089	$100\theta_*$	1.041504	1.04150 ± 0.00046	χ^2_{BAO}	4.38	5.30 ± 1.4

Best-fit $\chi^2_{eff} = 11276.09$; $\bar{\chi}^2_{eff} = 11297.84$; $R - 1 = 0.00467$

χ^2_{eff}: BAO - 6DF: 0.03 MGS: 1.22 DR11CMASS: 2.46 DR11LOWZ: 0.68 CMB - smica_g30_ftl_full_pp: 9.53 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.50 plik_dx11dr2_HM_v18_TT: 766.67

9 mnu+omegak

9.1 base_mnu_omegak_plikHM_TT_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022282	0.02223 ± 0.00024	Ω_m	0.3090	$0.3123^{+0.0086}_{-0.010}$	D_A/Gpc	13.9149	$13.911^{+0.049}_{-0.044}$
$\boldsymbol{\Omega_c h^2}$	0.11851	0.1188 ± 0.0023	$\Omega_m h^2$	0.14182	$0.1426^{+0.0024}_{-0.0030}$	z_{drag}	1059.628	1059.52 ± 0.48
$\boldsymbol{100\theta_{MC}}$	1.040997	1.04095 ± 0.00050	$\Omega_\nu h^2$	0.00102	< 0.00203	r_{drag}	147.584	147.56 ± 0.49
$\boldsymbol{\tau}$	0.0690	$0.074^{+0.017}_{-0.020}$	$\Omega_m h^3$	0.09607	$0.0964^{+0.0019}_{-0.0021}$	k_D	0.14028	0.14027 ± 0.00051
$\boldsymbol{\Omega_K}$	0.00032	$0.0014^{+0.0029}_{-0.0039}$	σ_8	0.8117	$0.804^{+0.020}_{-0.014}$	$100\theta_D$	0.160944	0.16100 ± 0.00027
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.095	< 0.189	$\sigma_8\Omega_m^{0.5}$	0.4512	0.4493 ± 0.0074	z_{eq}	3365	3370 ± 51
$\boldsymbol{\ln(10^{10} A_s)}$	3.0684	$3.080^{+0.031}_{-0.038}$	$\sigma_8\Omega_m^{0.25}$	0.6052	$0.601^{+0.012}_{-0.0094}$	k_{eq}	0.010269	0.01028 ± 0.00015
$\boldsymbol{n_s}$	0.9684	0.9672 ± 0.0064	$\sigma_8/h^{0.5}$	0.9862	$0.978^{+0.021}_{-0.015}$	$100\theta_{eq}$	0.8199	0.8190 ± 0.0097
$\boldsymbol{y_{cal}}$	1.00017	1.0004 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.4456	2.451 ± 0.027	$100\theta_{s,eq}$	0.45290	0.4525 ± 0.0050
$\boldsymbol{A_{217}^{CIB}}$	67.5	64.6 ± 6.5	z_{re}	9.12	9.59 ± 1.7	$r_{drag}/D_V(0.57)$	0.07178	0.07175 ± 0.00052
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.151	$2.177^{+0.065}_{-0.086}$	$H(0.57)$	93.07	93.13 ± 0.73
$\boldsymbol{A_{143}^{tSZ}}$	7.27	4.98 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8735	$1.875^{+0.013}_{-0.015}$	$D_A(0.57)$	1385.7	1387 ± 12
$\boldsymbol{A_{100}^{PS}}$	253.8	261 ± 28	D_{40}	1225.0	1230 ± 16	$F_{AP}(0.57)$	0.67544	$0.6764^{+0.0023}_{-0.0029}$
$\boldsymbol{A_{143}^{PS}}$	38.8	44 ± 8	D_{220}	5714.1	5718 ± 42	$f\sigma_8(0.57)$	0.4720	$0.4691^{+0.0082}_{-0.0066}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	39^{+10}_{-10}	D_{810}	2533.0	2533 ± 14	$\sigma_8(0.57)$	0.6047	$0.599^{+0.016}_{-0.011}$
$\boldsymbol{A_{217}^{PS}}$	96.8	97 ± 10	D_{1420}	815.08	814.8 ± 5.0	$\chi^2_{lensing}$	9.13	9.58 ± 1.4
$\boldsymbol{A^{kSZ}}$	0.00	< 5.01	D_{2000}	230.35	230.0 ± 1.8	χ^2_{lowTEB}	10494.95	10496.4 ± 2.2
$\boldsymbol{A_{100}^{dustTT}}$	7.34	7.46 ± 1.9	$n_{s,0.002}$	0.9684	0.9672 ± 0.0064	χ^2_{plik}	766.2	780.1 ± 5.5
$\boldsymbol{A_{143}^{dustTT}}$	9.09	9.04 ± 1.8	Y_P	0.245354	0.24533 ± 0.00011	χ^2_{6DF}	0.0104	0.073 ± 0.098
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.84	17.1 ± 4.2	Y_P^{BBN}	0.246680	0.24665 ± 0.00011	χ^2_{MGS}	1.41	1.38 ± 0.62
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.7 ± 7.5	10^5D/H	2.6080	2.619 ± 0.047	$\chi^2_{DR11CMASS}$	2.37	2.95 ± 0.94
$\boldsymbol{c_{100}}$	0.99791	0.99787 ± 0.00078	Age/Gyr	13.795	13.78 ± 0.10	$\chi^2_{DR11LOWZ}$	0.473	0.74 ± 0.68
$\boldsymbol{c_{217}}$	0.99599	0.9960 ± 0.0014	z_*	1089.900	1090.01 ± 0.47	χ^2_{prior}	2.12	7.44 ± 3.6
H_0	67.74	67.60 ± 0.74	r_*	144.885	144.85 ± 0.50	χ^2_{CMB}	11270.3	11286.1 ± 5.7
Ω_Λ	0.6906	$0.686^{+0.013}_{-0.0096}$	$100\theta_*$	1.041215	1.04119 ± 0.00047	χ^2_{BAO}	4.26	5.15 ± 1.4

Best-fit $\chi^2_{eff} = 11276.69$; $\bar{\chi}^2_{eff} = 11298.64$; $R - 1 = 0.03072$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.37 DR11LOWZ: 0.47 CMB - smica_g30_ftl_full_pp: 9.13 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.95 plik_dx11dr2_HM_v18_TT: 766.23

10 mnu+w

10.1 base_mnu_w_plikHM_TT_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022346	0.02225 ± 0.00022	Ω_m	0.3148	$0.307^{+0.015}_{-0.013}$	D_A/Gpc	13.9313	13.918 ± 0.038
$\boldsymbol{\Omega_c h^2}$	0.11763	0.1184 ± 0.0018	$\Omega_m h^2$	0.14001	$0.1423^{+0.0021}_{-0.0023}$	z_{drag}	1059.704	1059.55 ± 0.45
$\boldsymbol{100\theta_{MC}}$	1.041176	1.04099 ± 0.00045	$\Omega_\nu h^2$	0.00003	< 0.00213	r_{drag}	147.754	147.63 ± 0.41
$\boldsymbol{\tau}$	0.0710	0.074 ± 0.018	$\Omega_m h^3$	0.09338	$0.0971^{+0.0030}_{-0.0043}$	k_D	0.140147	0.14021 ± 0.00046
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.003	< 0.198	σ_8	0.8089	0.810 ± 0.018	$100\theta_D$	0.160907	0.16099 ± 0.00026
$\boldsymbol{w}$	-0.934	$-1.04^{+0.12}_{-0.073}$	$\sigma_8\Omega_m^{0.5}$	0.4538	$0.4484^{+0.0089}_{-0.0077}$	z_{eq}	3345.1	3361 ± 40
$\boldsymbol{\ln(10^{10} A_s)}$	3.0709	3.077 ± 0.033	$\sigma_8\Omega_m^{0.25}$	0.6059	0.603 ± 0.010	k_{eq}	0.010209	0.01026 ± 0.00012
$\boldsymbol{n_s}$	0.9706	0.9681 ± 0.0056	$\sigma_8/h^{0.5}$	0.9905	$0.981^{+0.017}_{-0.015}$	$100\theta_{eq}$	0.8237	0.8206 ± 0.0077
$\boldsymbol{y_{cal}}$	1.00029	1.0002 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.4393	2.457 ± 0.031	$100\theta_{s,eq}$	0.45484	0.4533 ± 0.0039
$\boldsymbol{A_{217}^{CIB}}$	66.6	64.4 ± 6.6	z_{re}	9.27	9.49 ± 1.7	$r_{drag}/D_V(0.57)$	0.07186	0.07157 ± 0.00050
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	$10^9 A_s$	2.156	$2.171^{+0.068}_{-0.079}$	$H(0.57)$	93.56	$92.5^{+1.1}_{-0.58}$
$\boldsymbol{A_{143}^{tSZ}}$	7.24	5.06 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8709	1.873 ± 0.012	$D_A(0.57)$	1389.4	1389 ± 12
$\boldsymbol{A_{100}^{PS}}$	251.6	260 ± 28	D_{40}	1223.0	1227 ± 12	$F_{AP}(0.57)$	0.6807	$0.6726^{+0.0097}_{-0.0072}$
$\boldsymbol{A_{143}^{PS}}$	39.0	44 ± 8	D_{220}	5721.3	5718 ± 40	$f\sigma_8(0.57)$	0.4631	$0.476^{+0.014}_{-0.018}$
$\boldsymbol{A_{143\times217}^{PS}}$	33.6	39^{+10}_{-10}	D_{810}	2532.7	2532 ± 13	$\sigma_8(0.57)$	0.6030	0.603 ± 0.014
$\boldsymbol{A_{217}^{PS}}$	97.7	97 ± 10	D_{1420}	815.8	814.7 ± 5.0	$\chi^2_{lensing}$	9.37	9.61 ± 1.4
$\boldsymbol{A^{kSZ}}$	0.02	< 4.93	D_{2000}	230.69	230.1 ± 1.8	χ^2_{lowTEB}	10494.95	10495.9 ± 1.6
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.47 ± 1.9	$n_{s,0.002}$	0.9706	0.9681 ± 0.0056	χ^2_{plik}	766.5	779.6 ± 5.5
$\boldsymbol{A_{143}^{dustTT}}$	9.08	9.08 ± 1.8	Y_P	0.245382	0.245337 ± 0.000099	χ^2_{6DF}	0.0999	0.18 ± 0.27
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.72	17.2 ± 4.1	Y_P^{BBN}	0.246709	0.24666 ± 0.00010	χ^2_{MGS}	0.93	1.73 ± 1.1
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.4	10^5D/H	2.5958	2.615 ± 0.041	$\chi^2_{DR11CMASS}$	1.83	3.57 ± 1.5
$\boldsymbol{c_{100}}$	0.99787	0.99787 ± 0.00078	Age/Gyr	13.7993	13.827 ± 0.045	$\chi^2_{DR11LOWZ}$	0.699	0.77 ± 0.78
$\boldsymbol{c_{217}}$	0.99589	0.9960 ± 0.0015	z_*	1089.738	1089.95 ± 0.38	χ^2_{prior}	2.18	7.38 ± 3.6
H_0	66.69	$68.2^{+1.5}_{-2.1}$	r_*	145.071	144.92 ± 0.41	χ^2_{CMB}	11270.9	11285.0 ± 5.5
Ω_Λ	0.6852	$0.693^{+0.013}_{-0.015}$	$100\theta_*$	1.041329	1.04124 ± 0.00043	χ^2_{BAO}	3.55	6.25 ± 2.3

Best-fit $\chi^2_{eff} = 11276.58$; $\bar{\chi}^2_{eff} = 11298.68$; $R - 1 = 0.00919$

χ^2_{eff}: BAO - 6DF: 0.10 MGS: 0.93 DR11CMASS: 1.83 DR11LOWZ: 0.70 CMB - smica_g30_ftl_full_pp: 9.37 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.95 plik_dx11dr2_HM_v18_TT: 766.52

11 nnu

11.1 base_nnu_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022238	0.02230 ± 0.00037	Ω_m	0.3142	0.312 ± 0.021	D_A/Gpc	13.894	13.83 ± 0.25
$\boldsymbol{\Omega_c h^2}$	0.11961	0.1205 ± 0.0041	$\Omega_m h^2$	0.14249	0.1435 ± 0.0042	z_{drag}	1059.59	1059.9 ± 1.3
$\boldsymbol{100\theta_{MC}}$	1.04088	1.04082 ± 0.00057	$\Omega_m h^3$	0.0960	$0.0976^{+0.0059}_{-0.0069}$	r_{drag}	147.36	146.7 ± 2.8
$\boldsymbol{\tau}$	0.0775	0.080 ± 0.022	σ_8	0.8290	$0.834^{+0.022}_{-0.025}$	k_D	0.14050	0.1410 ± 0.0020
$\boldsymbol{N_{eff}}$	3.044	$3.13^{+0.30}_{-0.34}$	$\sigma_8\Omega_m^{0.5}$	0.4647	0.465 ± 0.013	$100\theta_D$	0.16094	0.16111 ± 0.00069
$\boldsymbol{\ln(10^{10}A_s)}$	3.0887	3.096 ± 0.047	$\sigma_8\Omega_m^{0.25}$	0.6207	0.622 ± 0.014	z_{eq}	3391	3380 ± 74
$\boldsymbol{n_s}$	0.9662	0.969 ± 0.016	$\sigma_8/h^{0.5}$	1.0102	1.011 ± 0.019	k_{eq}	0.010347	0.01036 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00028	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4950	2.495 ± 0.048	$100\theta_{eq}$	0.8150	$0.817^{+0.014}_{-0.015}$
$\boldsymbol{A_{217}^{CIB}}$	66.5	64.1 ± 6.8	z_{re}	9.94	10.1 ± 2.0	$100\theta_{s,eq}$	0.4503	$0.4516^{+0.0069}_{-0.0078}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.08	—	$10^9 A_s$	2.195	$2.214^{+0.097}_{-0.12}$	$r_{drag}/D_V(0.57)$	0.07143	$0.0716^{+0.0010}_{-0.0012}$
$\boldsymbol{A_{143}^{tSZ}}$	7.09	5.08 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8796	1.883 ± 0.022	$H(0.57)$	92.88	$93.5^{+2.4}_{-2.7}$
$\boldsymbol{A_{100}^{PS}}$	252.1	259 ± 29	D_{40}	1234.5	1234 ± 22	$D_A(0.57)$	1391.3	1382 ± 47
$\boldsymbol{A_{143}^{PS}}$	39.8	44 ± 8	D_{220}	5714.9	5717 ± 42	$F_{AP}(0.57)$	0.6767	0.6759 ± 0.0053
$\boldsymbol{A_{143\times217}^{PS}}$	34.7	39^{+10}_{-10}	D_{810}	2534.4	2535 ± 14	$f\sigma_8(0.57)$	0.4827	0.484 ± 0.011
$\boldsymbol{A_{217}^{PS}}$	98.2	97 ± 10	D_{1420}	815.0	814.2 ± 5.2	$\sigma_8(0.57)$	0.6161	$0.620^{+0.019}_{-0.022}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.76	D_{2000}	230.51	230.0 ± 2.3	f_{2000}^{143}	29.41	30 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.46	7.44 ± 1.9	$n_{s,0.002}$	0.9662	0.969 ± 0.016	$f_{2000}^{143\times217}$	32.15	32.7 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	8.99	8.99 ± 1.8	Y_P	0.24530	0.2463 ± 0.0044	f_{2000}^{217}	105.73	106.3 ± 2.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.55	17.1 ± 4.2	Y_P^{BBN}	0.24663	0.2477 ± 0.0044	χ^2_{lowTEB}	10496.30	10497.5 ± 2.8
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	10^5D/H	2.615	2.631 ± 0.070	χ^2_{plik}	763.6	778.2 ± 6.0
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00078	Age/Gyr	13.813	13.74 ± 0.33	χ^2_{prior}	2.00	7.35 ± 3.6
$\boldsymbol{c_{217}}$	0.99592	0.9960 ± 0.0015	z_*	1090.050	1090.13 ± 0.50	χ^2_{CMB}	11259.9	11275.7 ± 5.7
H_0	67.34	$68.0^{+2.6}_{-3.0}$	r_*	144.65	144.0 ± 2.7			
Ω_Λ	0.6858	0.688 ± 0.021	$100\theta_*$	1.04108	1.04096 ± 0.00071			

Best-fit $\chi^2_{eff} = 11261.94$; $\bar{\chi}^2_{eff} = 11283.02$; $R - 1 = 0.00593$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.30 plik_dx11dr2_HM_v18_TT: 763.64

11.2 base_nnu_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022324	0.02237 ± 0.00034	Ω_m	0.3091	0.306 ± 0.018	D_A/Gpc	13.856	13.80 ± 0.24
$\boldsymbol{\Omega_c h^2}$	0.11984	0.1208 ± 0.0041	$\Omega_m h^2$	0.14281	0.1439 ± 0.0043	z_{drag}	1059.86	1060.1 ± 1.2
$\boldsymbol{100\theta_{MC}}$	1.04087	1.04080 ± 0.00057	$\Omega_m h^3$	0.0971	$0.0988^{+0.0055}_{-0.0065}$	r_{drag}	146.92	146.3 ± 2.7
$\boldsymbol{\tau}$	0.0827	0.084 ± 0.021	σ_8	0.8335	$0.837^{+0.021}_{-0.024}$	k_D	0.14081	0.1413 ± 0.0020
$\boldsymbol{N_{eff}}$	3.099	$3.18^{+0.28}_{-0.32}$	$\sigma_8\Omega_m^{0.5}$	0.4634	0.463 ± 0.013	$100\theta_D$	0.16102	0.16121 ± 0.00068
$\boldsymbol{\ln(10^{10}A_s)}$	3.1000	3.104 ± 0.046	$\sigma_8\Omega_m^{0.25}$	0.6215	0.622 ± 0.014	z_{eq}	3373	3363 ± 64
$\boldsymbol{n_s}$	0.9695	0.972 ± 0.014	$\sigma_8/h^{0.5}$	1.0110	1.010 ± 0.019	k_{eq}	0.010332	0.01035 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00042	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4943	2.489 ± 0.047	$100\theta_{eq}$	0.8184	$0.821^{+0.012}_{-0.014}$
$\boldsymbol{A_{217}^{CIB}}$	67.1	64.3 ± 6.8	z_{re}	10.40	10.4 ± 1.9	$100\theta_{s,eq}$	0.4521	$0.4532^{+0.0060}_{-0.0069}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$10^9 A_s$	2.220	$2.230^{+0.095}_{-0.11}$	$r_{drag}/D_V(0.57)$	0.07170	$0.07188^{+0.00092}_{-0.0011}$
$\boldsymbol{A_{143}^{tSZ}}$	7.23	5.04 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8814	1.885 ± 0.022	$H(0.57)$	93.39	$94.0^{+2.2}_{-2.5}$
$\boldsymbol{A_{100}^{PS}}$	253.0	260 ± 29	D_{40}	1231.7	1229 ± 21	$D_A(0.57)$	1381.0	1371 ± 42
$\boldsymbol{A_{143}^{PS}}$	38.6	45 ± 8	D_{220}	5719.4	5719 ± 41	$F_{AP}(0.57)$	0.67541	0.6747 ± 0.0046
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	39^{+10}_{-10}	D_{810}	2534.9	2535 ± 14	$f\sigma_8(0.57)$	0.4840	0.485 ± 0.011
$\boldsymbol{A_{217}^{PS}}$	97.2	97 ± 10	D_{1420}	815.0	814.2 ± 5.2	$\sigma_8(0.57)$	0.6207	$0.624^{+0.018}_{-0.021}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.88	D_{2000}	230.44	229.9 ± 2.3	f_{2000}^{143}	29.62	31 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.45 ± 1.9	$n_{s,0.002}$	0.9695	0.972 ± 0.014	$f_{2000}^{143\times217}$	32.28	32.9 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	9.06	9.01 ± 1.8	Y_P	0.24610	0.2471 ± 0.0041	f_{2000}^{217}	105.94	106.4 ± 2.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.76	17.2 ± 4.2	Y_P^{BBN}	0.24743	0.2485 ± 0.0042	χ^2_{lowTEB}	10496.30	10497.1 ± 2.8
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.8 ± 7.5	10^5D/H	2.619	2.637 ± 0.071	χ^2_{plik}	763.6	778.5 ± 7.8
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00078	Age/Gyr	13.747	13.67 ± 0.31	χ^2_{JLA}	706.683	706.89 ± 0.53
$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0015	z_*	1090.017	1090.12 ± 0.50	χ^2_{prior}	2.12	7.37 ± 3.6
H_0	67.98	$68.6^{+2.3}_{-2.8}$	r_*	144.24	143.6 ± 2.6	χ^2_{CMB}	11259.9	11275.6 ± 7.6
Ω_Λ	0.6909	0.694 ± 0.018	$100\theta_*$	1.04103	1.04090 ± 0.00071			

Best-fit $\chi^2_{eff} = 11968.68$; $\bar{\chi}^2_{eff} = 11989.87$; $R - 1 = 0.00852$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.30 plik_dx11dr2_HM_v18_TT: 763.57 SN - JLA December_2013: 706.68

11.3 base_nnu_plikHM_TT_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022271	$0.02232^{+0.00035}_{-0.00039}$	Ω_m	0.3074	0.305 ± 0.019	D_A/Gpc	13.915	13.86 ± 0.25
$\boldsymbol{\Omega_c h^2}$	0.11854	$0.1195^{+0.0037}_{-0.0043}$	$\Omega_m h^2$	0.14146	$0.1424^{+0.0039}_{-0.0045}$	z_{drag}	1059.59	1059.8 ± 1.2
$\boldsymbol{100\theta_{MC}}$	1.04104	1.04097 ± 0.00056	$\Omega_m h^3$	0.0960	$0.0976^{+0.0057}_{-0.0068}$	r_{drag}	147.59	146.9 ± 2.8
$\boldsymbol{\tau}$	0.0666	0.069 ± 0.020	σ_8	0.8158	$0.820^{+0.018}_{-0.021}$	k_D	0.14027	0.1407 ± 0.0020
$\boldsymbol{N_{eff}}$	3.047	$3.13^{+0.29}_{-0.34}$	$\sigma_8\Omega_m^{0.5}$	0.4523	0.4520 ± 0.0089	$100\theta_D$	0.16096	$0.16115^{+0.00064}_{-0.00073}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0638	3.070 ± 0.042	$\sigma_8\Omega_m^{0.25}$	0.6074	0.6086 ± 0.0089	z_{eq}	3365	3353 ± 69
$\boldsymbol{n_s}$	0.9684	0.971 ± 0.015	$\sigma_8/h^{0.5}$	0.9905	0.991 ± 0.011	k_{eq}	0.010270	0.01029 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00014	1.0002 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4480	2.446 ± 0.030	$100\theta_{eq}$	0.8199	$0.822^{+0.013}_{-0.015}$
$\boldsymbol{A_{217}^{CIB}}$	67.2	64.9 ± 6.8	z_{re}	8.89	9.02 ± 1.8	$100\theta_{s,eq}$	0.4529	$0.4542^{+0.0064}_{-0.0075}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.141	$2.156^{+0.084}_{-0.098}$	$r_{drag}/D_V(0.57)$	0.07182	$0.07202^{+0.00098}_{-0.0011}$
$\boldsymbol{A_{143}^{tSZ}}$	7.18	4.96 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8739	1.877 ± 0.021	$H(0.57)$	93.08	$93.7^{+2.3}_{-2.7}$
$\boldsymbol{A_{100}^{PS}}$	254.0	262 ± 29	D_{40}	1224.3	1223 ± 20	$D_A(0.57)$	1384.8	1375 ± 45
$\boldsymbol{A_{143}^{PS}}$	39.1	45 ± 9	D_{220}	5715.0	5716 ± 42	$F_{AP}(0.57)$	0.67499	0.6742 ± 0.0049
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39^{+10}_{-10}	D_{810}	2532.7	2533 ± 14	$f\sigma_8(0.57)$	0.4732	0.4744 ± 0.0077
$\boldsymbol{A_{217}^{PS}}$	97.4	96 ± 10	D_{1420}	815.1	814.2 ± 5.2	$\sigma_8(0.57)$	0.6078	$0.612^{+0.017}_{-0.020}$
$\boldsymbol{A^{kSZ}}$	0.00	< 5.31	D_{2000}	230.26	229.7 ± 2.2	f_{2000}^{143}	29.90	31.0 ± 3.4
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.46 ± 1.8	$n_{s,0.002}$	0.9684	0.971 ± 0.015	$f_{2000}^{143\times217}$	32.51	33.2 ± 2.5
$\boldsymbol{A_{143}^{dustTT}}$	9.12	9.10 ± 1.8	Y_P	0.24536	0.2464 ± 0.0043	f_{2000}^{217}	106.14	106.7 ± 2.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.76	17.3 ± 4.2	Y_P^{BBN}	0.24668	0.2477 ± 0.0043	$\chi^2_{lensing}$	9.24	10.0 ± 1.6
$\boldsymbol{A_{217}^{dustTT}}$	82.3	81.7 ± 7.5	10^5D/H	2.610	2.628 ± 0.068	χ^2_{lowTEB}	10494.83	10495.6 ± 2.0
$\boldsymbol{c_{100}}$	0.99788	0.99788 ± 0.00077	Age/Gyr	13.797	13.72 ± 0.32	χ^2_{plik}	766.2	780.5 ± 6.3
$\boldsymbol{c_{217}}$	0.99600	0.9960 ± 0.0015	z_*	1089.916	1090.01 ± 0.48	χ^2_{prior}	2.14	7.41 ± 3.6
H_0	67.83	$68.5^{+2.5}_{-3.0}$	r_*	144.88	144.3 ± 2.6	χ^2_{CMB}	11270.3	11286.2 ± 6.2
Ω_Λ	0.6926	0.695 ± 0.019	$100\theta_*$	1.04123	1.04111 ± 0.00070			

Best-fit $\chi^2_{eff} = 11272.43$; $\bar{\chi}^2_{eff} = 11293.59$; $R - 1 = 0.01075$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.24 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.83 plik_dx11dr2_HM_v18_TT: 766.22

11.4 base_nnu_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022402	0.02242 ± 0.00031	Ω_m	0.3056	0.304 ± 0.016	D_A/Gpc	13.784	13.75 ± 0.21
$\boldsymbol{\Omega_c h^2}$	0.12093	0.1214 ± 0.0037	$\Omega_m h^2$	0.14398	0.1445 ± 0.0039	z_{drag}	1060.20	1060.3 ± 1.0
$\boldsymbol{100\theta_{MC}}$	1.04080	1.04075 ± 0.00056	$\Omega_m h^3$	0.0988	0.0998 ± 0.0051	r_{drag}	146.12	145.8 ± 2.3
$\boldsymbol{\tau}$	0.0843	0.085 ± 0.021	σ_8	0.8379	0.839 ± 0.020	k_D	0.14139	0.1416 ± 0.0017
$\boldsymbol{N_{eff}}$	3.186	3.23 ± 0.26	$\sigma_8\Omega_m^{0.5}$	0.4632	0.463 ± 0.013	$100\theta_D$	0.16119	0.16131 ± 0.00060
$\boldsymbol{\ln(10^{10}A_s)}$	3.1061	3.108 ± 0.043	$\sigma_8\Omega_m^{0.25}$	0.6230	0.623 ± 0.014	z_{eq}	3362	3355 ± 59
$\boldsymbol{n_s}$	0.9731	0.975 ± 0.012	$\sigma_8/h^{0.5}$	1.0114	1.011 ± 0.019	k_{eq}	0.010357	0.01036 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00041	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4897	2.487 ± 0.046	$100\theta_{eq}$	0.8206	0.822 ± 0.012
$\boldsymbol{A_{217}^{CIB}}$	67.3	64.5 ± 6.7	z_{re}	10.55	$10.5^{+2.0}_{-1.7}$	$100\theta_{s,eq}$	0.4532	0.4540 ± 0.0059
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.233	2.240 ± 0.096	$r_{drag}/D_V(0.57)$	0.07188	0.07200 ± 0.00091
$\boldsymbol{A_{143}^{tSZ}}$	7.18	4.98 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8869	1.888 ± 0.020	$H(0.57)$	94.05	94.4 ± 2.0
$\boldsymbol{A_{100}^{PS}}$	254.0	261 ± 29	D_{40}	1227.6	1227 ± 19	$D_A(0.57)$	1369.5	1364 ± 35
$\boldsymbol{A_{143}^{PS}}$	39.5	45 ± 8	D_{220}	5720.3	5720 ± 42	$F_{AP}(0.57)$	0.67454	0.6741 ± 0.0042
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	39^{+10}_{-10}	D_{810}	2536.3	2536 ± 14	$f\sigma_8(0.57)$	0.4856	0.486 ± 0.011
$\boldsymbol{A_{217}^{PS}}$	97.5	97 ± 10	D_{1420}	814.8	814.0 ± 5.3	$\sigma_8(0.57)$	0.6248	0.626 ± 0.017
$\boldsymbol{A^{kSZ}}$	0.01	< 5.03	D_{2000}	230.09	229.7 ± 2.2	f_{2000}^{143}	30.09	30.9 ± 3.3
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.47 ± 1.9	$n_{s,0.002}$	0.9731	0.975 ± 0.012	$f_{2000}^{143\times217}$	32.65	33.1 ± 2.5
$\boldsymbol{A_{143}^{dustTT}}$	9.02	9.00 ± 1.8	Y_P	0.24729	0.2479 ± 0.0035	f_{2000}^{217}	106.27	106.7 ± 2.3
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.1 ± 4.2	Y_P^{BBN}	0.24862	0.2492 ± 0.0035	χ^2_{lowTEB}	10495.93	10496.8 ± 2.7
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.7 ± 7.5	10^5D/H	2.634	2.646 ± 0.066	χ^2_{plik}	764.2	778.7 ± 6.1
$\boldsymbol{c_{100}}$	0.99794	0.99789 ± 0.00078	Age/Gyr	13.658	13.62 ± 0.26	χ^2_{H070p6}	0.349	0.66 ± 0.84
$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0015	z_*	1090.100	1090.16 ± 0.49	χ^2_{prior}	2.05	7.41 ± 3.6
H_0	68.64	69.0 ± 2.2	r_*	143.48	143.2 ± 2.2	χ^2_{CMB}	11260.1	11275.5 ± 5.8
Ω_Λ	0.6944	0.696 ± 0.016	$100\theta_*$	1.04089	1.04081 ± 0.00066			

Best-fit $\chi^2_{eff} = 11262.49$; $\bar{\chi}^2_{eff} = 11283.57$; $R - 1 = 0.00564$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.93 plik_dx11dr2_HM_v18_TT: 764.16 Hubble - H070p6: 0.35

11.5 base_nnu_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02232^{+0.00035}_{-0.00040}$	Ω_m	0.310 ± 0.020	D_A/Gpc	13.83 ± 0.25
$\boldsymbol{\Omega_c h^2}$	0.1206 ± 0.0040	$\Omega_m h^2$	0.1436 ± 0.0042	z_{drag}	1059.9 ± 1.2
$\boldsymbol{100\theta_{MC}}$	1.04081 ± 0.00057	$\Omega_m h^3$	$0.0979^{+0.0058}_{-0.0068}$	r_{drag}	146.6 ± 2.8
$\boldsymbol{\tau}$	$0.082^{+0.018}_{-0.024}$	σ_8	$0.835^{+0.019}_{-0.024}$	k_D	0.1410 ± 0.0020
$\boldsymbol{N_{eff}}$	$3.14^{+0.30}_{-0.34}$	$\sigma_8\Omega_m^{0.5}$	0.465 ± 0.013	$100\theta_D$	0.16113 ± 0.00069
$\boldsymbol{\ln(10^{10} A_s)}$	$3.100^{+0.040}_{-0.051}$	$\sigma_8\Omega_m^{0.25}$	0.623 ± 0.013	z_{eq}	3376 ± 72
$\boldsymbol{n_s}$	0.970 ± 0.015	$\sigma_8/h^{0.5}$	1.012 ± 0.019	k_{eq}	0.01036 ± 0.00016
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.496 ± 0.048	$100\theta_{eq}$	$0.818^{+0.013}_{-0.015}$
$\boldsymbol{A_{217}^{CIB}}$	64.1 ± 6.8	z_{re}	10.3 ± 1.8	$100\theta_{s,eq}$	$0.4519^{+0.0066}_{-0.0076}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.222^{+0.083}_{-0.12}$	$r_{drag}/D_V(0.57)$	$0.0717^{+0.0010}_{-0.0012}$
$\boldsymbol{A_{143}^{tSZ}}$	5.08 ± 2.0	$10^9 A_s e^{-2\tau}$	1.884 ± 0.022	$H(0.57)$	$93.6^{+2.3}_{-2.7}$
$\boldsymbol{A_{100}^{PS}}$	259 ± 29	D_{40}	1233 ± 22	$D_A(0.57)$	1379 ± 46
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{220}	5717 ± 42	$F_{AP}(0.57)$	0.6757 ± 0.0052
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{810}	2535 ± 14	$f\sigma_8(0.57)$	$0.485^{+0.010}_{-0.011}$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{1420}	814.1 ± 5.3	$\sigma_8(0.57)$	$0.622^{+0.017}_{-0.022}$
$\boldsymbol{A^{kSZ}}$	< 4.76	D_{2000}	230.0 ± 2.3	f_{2000}^{143}	30 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.44 ± 1.9	$n_{s,0.002}$	0.970 ± 0.015	$f_{2000}^{143\times217}$	32.7 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	9.00 ± 1.8	Y_P	0.2465 ± 0.0043	f_{2000}^{217}	106.3 ± 2.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.1 ± 4.2	Y_P^{BBN}	0.2478 ± 0.0043	χ^2_{lowTEB}	10497.4 ± 2.8
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.5	10^5D/H	2.632 ± 0.070	χ^2_{plik}	778.2 ± 8.0
$\boldsymbol{c_{100}}$	0.99789 ± 0.00078	Age/Gyr	13.72 ± 0.33	χ^2_{prior}	7.38 ± 3.6
$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	z_*	1090.13 ± 0.49	χ^2_{CMB}	11275.6 ± 7.8
H_0	$68.1^{+2.6}_{-3.0}$	r_*	143.9 ± 2.7		
Ω_Λ	0.690 ± 0.020	$100\theta_*$	1.04095 ± 0.00071		

$\bar{\chi}^2_{eff} = 11282.96$; $R - 1 = 0.00790$

11.6 base_nnu_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022167	0.02220 ± 0.00024	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.303 ± 0.084	Age/Gyr	13.925	13.88 ± 0.22
$\boldsymbol{\Omega_c h^2}$	0.11830	0.1191 ± 0.0031	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	z_*	1089.920	1090.00 ± 0.36
$\boldsymbol{100\theta_{MC}}$	1.040933	1.04087 ± 0.00045	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.341	0.339 ± 0.081	r_*	145.58	145.1 ± 1.9
$\boldsymbol{\tau}$	0.0778	0.077 ± 0.018	$\boldsymbol{A^{dustTE}_{217}}$	1.667	1.67 ± 0.26	$100\theta_*$	1.04120	1.04111 ± 0.00056
$\boldsymbol{N_{eff}}$	2.938	2.99 ± 0.20	$\boldsymbol{c_{100}}$	0.99823	0.99817 ± 0.00076	D_A/Gpc	13.982	13.94 ± 0.18
$\boldsymbol{\ln(10^{10}A_s)}$	3.0869	3.088 ± 0.038	$\boldsymbol{c_{217}}$	0.99587	0.9960 ± 0.0014	z_{drag}	1059.25	1059.42 ± 0.86
$\boldsymbol{n_s}$	0.9607	0.9620 ± 0.0097	H_0	66.52	66.8 ± 1.6	r_{drag}	148.32	147.9 ± 2.0
$\boldsymbol{y_{cal}}$	1.00032	1.0005 ± 0.0025	Ω_Λ	0.6811	0.682 ± 0.012	k_D	0.13984	0.1402 ± 0.0015
$\boldsymbol{A^{CIB}_{217}}$	64.2	63.5 ± 6.6	Ω_m	0.3189	0.318 ± 0.012	$100\theta_D$	0.160680	0.16079 ± 0.00043
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.35	—	$\Omega_m h^2$	0.14111	0.1419 ± 0.0032	z_{eq}	3406.3	3403 ± 41
$\boldsymbol{A^{tSZ}_{143}}$	6.98	5.42 ± 1.9	$\Omega_m h^3$	0.09387	0.0949 ± 0.0041	k_{eq}	0.010321	0.01034 ± 0.00012
$\boldsymbol{A^{PS}_{100}}$	252.0	259 ± 28	σ_8	0.8256	0.828 ± 0.018	$100\theta_{eq}$	0.8119	0.8127 ± 0.0078
$\boldsymbol{A^{PS}_{143}}$	42.8	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4662	0.4664 ± 0.0098	$100\theta_{s,eq}$	0.44881	0.4492 ± 0.0039
$\boldsymbol{A^{PS}_{143\times217}}$	42.4	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6204	0.621 ± 0.012	$r_{drag}/D_V(0.57)$	0.07119	0.07126 ± 0.00060
$\boldsymbol{A^{PS}_{217}}$	101.6	98 ± 10	$\sigma_8/h^{0.5}$	1.0123	1.012 ± 0.017	$H(0.57)$	92.07	92.4 ± 1.5
$\boldsymbol{A^{kSZ}}$	0.00	< 3.95	$\langle d^2\rangle^{1/2}$	2.5104	2.508 ± 0.039	$D_A(0.57)$	1405.9	1400 ± 28
$\boldsymbol{A^{dustTT}_{100}}$	7.37	7.41 ± 1.9	z_{re}	9.94	$9.86^{+1.8}_{-1.5}$	$F_{AP}(0.57)$	0.67790	0.6776 ± 0.0030
$\boldsymbol{A^{dustTT}_{143}}$	8.90	8.91 ± 1.8	$10^9 A_s$	2.191	2.195 ± 0.083	$f\sigma_8(0.57)$	0.4819	0.4826 ± 0.0095
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.77	17.0 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8752	1.878 ± 0.018	$\sigma_8(0.57)$	0.6124	0.614 ± 0.015
$\boldsymbol{A^{dustTT}_{217}}$	82.2	81.7 ± 7.4	D_{40}	1245.0	1245 ± 16	f^{143}_{2000}	28.37	29.2 ± 2.9
$\boldsymbol{A^{dustEE}_{100}}$	0.0810	0.0811 ± 0.0057	D_{220}	5728.0	5730 ± 39	$f^{143\times217}_{2000}$	31.57	31.9 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0485	0.0486 ± 0.0050	D_{810}	2535.1	2535 ± 14	f^{217}_{2000}	105.13	105.6 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0996	0.0996 ± 0.032	D_{1420}	815.68	815.0 ± 4.9	χ^2_{lowTEB}	10497.53	10498.2 ± 2.3
$\boldsymbol{A^{dustEE}_{143}}$	0.1001	0.0999 ± 0.0069	D_{2000}	231.12	230.7 ± 1.9	χ^2_{plik}	2431.2	2451.0 ± 6.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2246	0.224 ± 0.047	$n_{s,0.002}$	0.9607	0.9620 ± 0.0097	χ^2_{prior}	6.53	19.2 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.654	0.65 ± 0.13	Y_P	0.24381	0.2445 ± 0.0029	χ^2_{CMB}	12928.7	12949.2 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1413	0.141 ± 0.038	Y_P^{BBN}	0.24513	0.2458 ± 0.0029			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1311	0.132 ± 0.029	10^5D/H	2.5918	2.603 ± 0.047			

Best-fit $\chi^2_{eff} = 12935.24$; $\bar{\chi}^2_{eff} = 12968.38$; $R - 1 = 0.00667$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.53 plik_dx11dr2_HM_v18_TTTEEE: 2431.18

11.7 base_nnu_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022223	0.02224 ± 0.00024	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.302 ± 0.084	Age/Gyr	13.866	13.85 ± 0.21
$\boldsymbol{\Omega_c h^2}$	0.11884	0.1192 ± 0.0031	$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.154 ± 0.054	z_*	1089.948	1089.98 ± 0.36
$\boldsymbol{100\theta_{MC}}$	1.040879	1.04086 ± 0.00045	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.342	0.338 ± 0.081	r_*	145.12	144.9 ± 1.9
$\boldsymbol{\tau}$	0.0790	0.079 ± 0.018	$\boldsymbol{A^{dustTE}_{217}}$	1.669	1.67 ± 0.26	$100\theta_*$	1.04112	1.04108 ± 0.00056
$\boldsymbol{N_{eff}}$	2.992	3.02 ± 0.20	$\boldsymbol{c_{100}}$	0.99820	0.99817 ± 0.00076	D_A/Gpc	13.939	13.92 ± 0.18
$\boldsymbol{\ln(10^{10}A_s)}$	3.0904	3.092 ± 0.038	$\boldsymbol{c_{217}}$	0.99585	0.9960 ± 0.0014	z_{drag}	1059.47	1059.55 ± 0.84
$\boldsymbol{n_s}$	0.9633	0.9637 ± 0.0094	H_0	66.99	67.1 ± 1.6	r_{drag}	147.84	147.6 ± 2.0
$\boldsymbol{y_{cal}}$	1.00027	1.0005 ± 0.0025	Ω_Λ	0.6843	0.685 ± 0.011	k_D	0.14018	0.1403 ± 0.0015
$\boldsymbol{A^{CIB}_{217}}$	65.3	63.6 ± 6.6	Ω_m	0.3157	0.315 ± 0.011	$100\theta_D$	0.160786	0.16083 ± 0.00043
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.20	—	$\Omega_m h^2$	0.14170	0.1421 ± 0.0032	z_{eq}	3395.7	3394 ± 38
$\boldsymbol{A^{tSZ}_{143}}$	7.16	5.41 ± 1.9	$\Omega_m h^3$	0.09493	0.0954 ± 0.0040	k_{eq}	0.010326	0.01034 ± 0.00012
$\boldsymbol{A^{PS}_{100}}$	253.4	259 ± 28	σ_8	0.8279	0.829 ± 0.018	$100\theta_{eq}$	0.8140	0.8143 ± 0.0074
$\boldsymbol{A^{PS}_{143}}$	40.6	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4652	0.4656 ± 0.0097	$100\theta_{s,eq}$	0.44985	0.4500 ± 0.0037
$\boldsymbol{A^{PS}_{143\times217}}$	38.3	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6206	0.621 ± 0.012	$r_{drag}/D_V(0.57)$	0.07135	0.07138 ± 0.00058
$\boldsymbol{A^{PS}_{217}}$	100.0	98 ± 10	$\sigma_8/h^{0.5}$	1.0114	1.012 ± 0.017	$H(0.57)$	92.51	92.7 ± 1.5
$\boldsymbol{A^{kSZ}}$	0.00	< 4.00	$\langle d^2\rangle^{1/2}$	2.5049	2.506 ± 0.039	$D_A(0.57)$	1397.7	1395 ± 27
$\boldsymbol{A^{dustTT}_{100}}$	7.31	7.43 ± 1.9	z_{re}	10.05	$10.0^{+1.7}_{-1.5}$	$F_{AP}(0.57)$	0.67710	0.6770 ± 0.0028
$\boldsymbol{A^{dustTT}_{143}}$	8.90	8.92 ± 1.8	$10^9 A_s$	2.199	2.204 ± 0.083	$f\sigma_8(0.57)$	0.4824	0.4830 ± 0.0095
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.45	17.0 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8773	1.879 ± 0.018	$\sigma_8(0.57)$	0.6148	0.616 ± 0.015
$\boldsymbol{A^{dustTT}_{217}}$	81.8	81.7 ± 7.5	D_{40}	1241.3	1243 ± 16	f^{143}_{2000}	28.77	29.2 ± 2.9
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0812 ± 0.0057	D_{220}	5727.2	5731 ± 39	$f^{143\times217}_{2000}$	31.84	32.0 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0488	0.0487 ± 0.0050	D_{810}	2534.7	2535 ± 14	f^{217}_{2000}	105.45	105.7 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1009	0.0996 ± 0.032	D_{1420}	815.21	815.0 ± 4.9	χ^2_{lowTEB}	10497.16	10498.0 ± 2.3
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.1000 ± 0.0069	D_{2000}	230.79	230.6 ± 1.9	χ^2_{plik}	2431.4	2451.1 ± 6.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2225	0.224 ± 0.046	$n_{s,0.002}$	0.9633	0.9637 ± 0.0094	χ^2_{JLA}	706.886	706.97 ± 0.42
$\boldsymbol{A^{dustEE}_{217}}$	0.650	0.65 ± 0.13	Y_P	0.24458	0.2449 ± 0.0028	χ^2_{prior}	6.82	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1406	0.141 ± 0.038	Y_P^{BBN}	0.24591	0.2462 ± 0.0028	χ^2_{CMB}	12928.5	12949.1 ± 6.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1318	0.131 ± 0.029	10^5D/H	2.6000	2.605 ± 0.047			

Best-fit $\chi^2_{eff} = 13642.26$; $\bar{\chi}^2_{eff} = 13675.33$; $R - 1 = 0.00924$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.16 plik_dx11dr2_HM_v18_TTTEEE: 2431.40 SN - JLA December_2013: 706.89

11.8 base_nnu_plikHM_TTTEEE_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022137	0.02216 ± 0.00023	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.303 ± 0.083	Age/Gyr	13.959	13.93 ± 0.21
$\boldsymbol{\Omega_c h^2}$	0.11732	0.1178 ± 0.0030	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.154 ± 0.053	z_*	1089.831	1089.89 ± 0.35
$\boldsymbol{100\theta_{MC}}$	1.041072	1.04103 ± 0.00043	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.341 ± 0.081	r_*	146.05	145.7 ± 1.9
$\boldsymbol{\tau}$	0.0599	0.060 ± 0.014	$\boldsymbol{A^{dustTE}_{217}}$	1.675	1.67 ± 0.25	$100\theta_*$	1.04138	1.04131 ± 0.00054
$\boldsymbol{N_{eff}}$	2.900	2.94 ± 0.20	$\boldsymbol{c_{100}}$	0.99820	0.99816 ± 0.00077	D_A/Gpc	14.025	14.00 ± 0.17
$\boldsymbol{\ln(10^{10}A_s)}$	3.0476	3.049 ± 0.029	$\boldsymbol{c_{217}}$	0.99590	0.9961 ± 0.0015	z_{drag}	1059.09	1059.19 ± 0.82
$\boldsymbol{n_s}$	0.9598	0.9606 ± 0.0092	H_0	66.46	66.7 ± 1.5	r_{drag}	148.81	148.5 ± 1.9
$\boldsymbol{y_{cal}}$	1.00004	1.0002 ± 0.0025	Ω_Λ	0.6828	$0.684^{+0.012}_{-0.011}$	k_D	0.13945	0.1397 ± 0.0014
$\boldsymbol{A^{CIB}_{217}}$	65.8	64.2 ± 6.7	Ω_m	0.3172	0.316 ± 0.011	$100\theta_D$	0.160632	0.16072 ± 0.00042
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.20	—	$\Omega_m h^2$	0.14010	0.1406 ± 0.0031	z_{eq}	3399.0	3395 ± 39
$\boldsymbol{A^{tSZ}_{143}}$	7.15	5.37 ± 2.0	$\Omega_m h^3$	0.09311	0.0938 ± 0.0039	k_{eq}	0.010272	0.01029 ± 0.00012
$\boldsymbol{A^{PS}_{100}}$	254.6	262 ± 28	σ_8	0.8075	0.809 ± 0.013	$100\theta_{eq}$	0.8132	0.8140 ± 0.0075
$\boldsymbol{A^{PS}_{143}}$	40.6	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4548	0.4548 ± 0.0069	$100\theta_{s,eq}$	0.44952	0.4499 ± 0.0038
$\boldsymbol{A^{PS}_{143\times217}}$	38.1	39 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6060	0.6065 ± 0.0079	$r_{drag}/D_V(0.57)$	0.07130	0.07136 ± 0.00058
$\boldsymbol{A^{PS}_{217}}$	99.2	97^{+10}_{-10}	$\sigma_8/h^{0.5}$	0.9905	0.990 ± 0.010	$H(0.57)$	91.87	92.1 ± 1.5
$\boldsymbol{A^{kSZ}}$	0.00	< 4.40	$\langle d^2\rangle^{1/2}$	2.4600	2.459 ± 0.026	$D_A(0.57)$	1408.2	1404 ± 27
$\boldsymbol{A^{dustTT}_{100}}$	7.37	7.41 ± 1.9	z_{re}	8.23	$8.21^{+1.5}_{-1.3}$	$F_{AP}(0.57)$	0.67748	0.6772 ± 0.0028
$\boldsymbol{A^{dustTT}_{143}}$	9.03	9.03 ± 1.8	$10^9 A_s$	2.106	$2.111^{+0.058}_{-0.066}$	$f\sigma_8(0.57)$	0.4709	0.4714 ± 0.0064
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.57	17.2 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8686	1.871 ± 0.018	$\sigma_8(0.57)$	0.5993	0.601 ± 0.012
$\boldsymbol{A^{dustTT}_{217}}$	81.7	81.9 ± 7.6	D_{40}	1237.3	1238 ± 15	f^{143}_{2000}	28.82	29.7 ± 2.9
$\boldsymbol{A^{dustEE}_{100}}$	0.0810	0.0810 ± 0.0057	D_{220}	5724.1	5726 ± 39	$f^{143\times217}_{2000}$	31.85	32.3 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0487	0.0487 ± 0.0050	D_{810}	2532.8	2533 ± 14	f^{217}_{2000}	105.36	105.8 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1000	0.099 ± 0.033	D_{1420}	815.64	815.0 ± 4.8	$\chi^2_{lensing}$	9.64	10.3 ± 1.8
$\boldsymbol{A^{dustEE}_{143}}$	0.0999	0.1000 ± 0.0069	D_{2000}	230.82	230.5 ± 1.8	χ^2_{lowTEB}	10496.14	10496.7 ± 1.7
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2253	0.226 ± 0.046	$n_{s,0.002}$	0.9598	0.9606 ± 0.0092	χ^2_{plik}	2434.3	2453.6 ± 6.8
$\boldsymbol{A^{dustEE}_{217}}$	0.658	$0.66^{+0.12}_{-0.14}$	Y_P	0.24328	0.2438 ± 0.0028	χ^2_{prior}	6.64	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1401	0.141 ± 0.038	Y_P^{BBN}	0.24460	0.2451 ± 0.0028	χ^2_{CMB}	12940.0	12960.5 ± 6.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1314	0.131 ± 0.029	10^5D/H	2.5842	2.593 ± 0.046			

Best-fit $\chi^2_{eff} = 12946.67$; $\bar{\chi}^2_{eff} = 12979.84$; $R - 1 = 0.02934$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.64 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.14 plik_dx11dr2_HM_v18_TTTEEE: 2434.25

11.9 base_nnu_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022284	0.02229 ± 0.00023	$\boldsymbol{A^{\rm dust}_{100\times217}}$	0.302	0.302 ± 0.084	Age/Gyr	13.801	13.79 ± 0.20
$\boldsymbol{\Omega_{\rm c}h^2}$	0.11955	0.1199 ± 0.0030	$\boldsymbol{A^{\rm dust}_{143}}$	0.155	0.154 ± 0.054	z_*	1089.997	1090.03 ± 0.36
$\boldsymbol{100\theta_{\rm MC}}$	1.040807	1.04078 ± 0.00043	$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.336	0.338 ± 0.081	r_*	144.58	144.4 ± 1.8
$\boldsymbol{\tau}$	0.0827	0.081 ± 0.018	$\boldsymbol{A^{\rm dust}_{217}}$	1.665	1.67 ± 0.26	$100\theta_*$	1.04100	1.04096 ± 0.00053
$\boldsymbol{N_{\rm eff}}$	3.052	3.07 ± 0.19	$\boldsymbol{c_{100}}$	0.99820	0.99816 ± 0.00076	$D_{\rm A}$/Gpc	13.889	13.87 ± 0.17
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0999	3.098 ± 0.037	$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0014	$z_{\rm drag}$	1059.70	1059.77 ± 0.79
$\boldsymbol{n_{\rm s}}$	0.9662	0.9660 ± 0.0089	H_0	67.48	67.6 ± 1.5	$r_{\rm drag}$	147.28	147.1 ± 1.9
$\boldsymbol{y_{\rm cal}}$	1.00035	1.0005 ± 0.0025	Ω_Λ	0.6871	0.687 ± 0.011	$k_{\rm D}$	0.14058	0.1407 ± 0.0014
$\boldsymbol{A^{\rm CIB}_{217}}$	66.1	63.8 ± 6.6	$\Omega_{\rm m}$	0.3129	0.313 ± 0.011	$100\theta_{\rm D}$	0.160898	0.16094 ± 0.00041
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.17	—	$\Omega_{\rm m}h^2$	0.14248	0.1429 ± 0.0031	$z_{\rm eq}$	3386.4	3388 ± 38
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.14	5.37 ± 1.9	$\Omega_{\rm m}h^3$	0.09614	0.0966 ± 0.0038	$k_{\rm eq}$	0.010340	0.01036 ± 0.00012
$\boldsymbol{A^{\rm PS}_{100}}$	255.4	260 ± 28	σ_8	0.8329	0.833 ± 0.018	$100\theta_{\rm eq}$	0.8158	0.8157 ± 0.0073
$\boldsymbol{A^{\rm PS}_{143}}$	40.5	43 ± 8	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4659	0.4660 ± 0.0098	$100\theta_{\rm s,eq}$	0.45075	0.4507 ± 0.0037
$\boldsymbol{A^{PS}_{143\times217}}$	37.2	40 ± 10	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6230	0.623 ± 0.012	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07149	0.07148 ± 0.00057
$\boldsymbol{A^{\rm PS}_{217}}$	99.0	98 ± 10	$\sigma_8/h^{0.5}$	1.0140	1.013 ± 0.017	$H(0.57)$	92.98	93.1 ± 1.4
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.12	$\langle d^2\rangle^{1/2}$	2.5067	2.505 ± 0.039	$D_{\rm A}(0.57)$	1389.2	1388 ± 26
$\boldsymbol{A^{\rm dust}_{100}}^{TT}$	7.42	7.46 ± 1.9	$z_{\rm re}$	10.40	$10.2^{+1.7}_{-1.5}$	$F_{\rm AP}(0.57)$	0.67639	0.6765 ± 0.0027
$\boldsymbol{A^{\rm dust}_{143}}^{TT}$	9.00	8.94 ± 1.8	$10^9A_{\rm s}$	2.220	2.216 ± 0.083	$f\sigma_8(0.57)$	0.4846	0.4845 ± 0.0094
$\boldsymbol{A^{\rm dust}_{143\times217}}^{TT}$	17.57	17.0 ± 4.2	$10^9A_{\rm s}e^{-2\tau}$	1.8811	1.883 ± 0.017	$\sigma_8(0.57)$	0.6193	0.619 ± 0.014
$\boldsymbol{A^{\rm dust}_{217}}^{TT}$	81.8	81.7 ± 7.5	D_{40}	1238.7	1240 ± 15	f^{143}_{2000}	29.06	29.5 ± 2.9
$\boldsymbol{A^{\rm dust}_{100}}^{EE}$	0.0814	0.0813 ± 0.0058	D_{220}	5727.2	5731 ± 39	$f^{143\times217}_{2000}$	32.01	32.2 ± 2.1
$\boldsymbol{A^{\rm dust}_{100\times143}}^{EE}$	0.0491	0.0489 ± 0.0050	D_{810}	2535.6	2536 ± 14	f^{217}_{2000}	105.60	105.9 ± 2.0
$\boldsymbol{A^{\rm dust}_{100\times217}}^{EE}$	0.0988	0.099 ± 0.032	D_{1420}	815.10	814.8 ± 4.9	$\chi^2_{\rm lowTEB}$	10497.09	10497.8 ± 2.4
$\boldsymbol{A^{\rm dust}_{143}}^{EE}$	0.1005	0.1002 ± 0.0069	D_{2000}	230.63	230.4 ± 1.8	$\chi^2_{\rm plik}$	2431.6	2451.4 ± 6.9
$\boldsymbol{A^{\rm dust}_{143\times217}}^{EE}$	0.2221	0.223 ± 0.046	$n_{\rm s,0.002}$	0.9662	0.9660 ± 0.0089	$\chi^2_{\rm H070p6}$	0.88	1.03 ± 0.84
$\boldsymbol{A^{\rm dust}_{217}}^{EE}$	0.653	0.65 ± 0.13	$Y_{\rm P}$	0.24544	0.2457 ± 0.0027	$\chi^2_{\rm prior}$	6.92	19.4 ± 5.5
$\boldsymbol{A^{\rm dust}_{100}}^{TE}$	0.1420	0.141 ± 0.038	$Y_{\rm P}^{\rm BBN}$	0.24677	0.2470 ± 0.0027	$\chi^2_{\rm CMB}$	12928.7	12949.2 ± 6.7
$\boldsymbol{A^{\rm dust}_{100\times143}}^{TE}$	0.1316	0.131 ± 0.029	10^5D/H	2.6099	2.614 ± 0.045			

Best-fit $\chi^2_{\rm eff} = 12936.50$; $\bar{\chi}^2_{\rm eff} = 12969.57$; $R-1 = 0.00977$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.09 plik_dx11dr2_HM_v18_TTTEEE: 2431.62 Hubble - H070p6: 0.88

11.10 base_nnu_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.02220 ± 0.00024	$\boldsymbol{A^{\rm dust}_{100\times217}}$	0.302 ± 0.084	Age/Gyr	13.87 ± 0.22
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1191 ± 0.0031	$\boldsymbol{A^{\rm dust}_{143}}$	0.155 ± 0.054	z_*	1089.99 ± 0.36
$\boldsymbol{100\theta_{\rm MC}}$	1.04087 ± 0.00045	$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.338 ± 0.081	r_*	145.1 ± 1.9
$\boldsymbol{\tau}$	$0.079^{+0.016}_{-0.019}$	$\boldsymbol{A^{\rm dust}_{217}}$	1.67 ± 0.26	$100\theta_*$	1.04111 ± 0.00056
$\boldsymbol{N_{\rm eff}}$	2.99 ± 0.20	$\boldsymbol{c_{100}}$	0.99817 ± 0.00076	$D_{\rm A}$/Gpc	13.94 ± 0.18
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	$3.090^{+0.034}_{-0.040}$	$\boldsymbol{c_{217}}$	0.9959 ± 0.0014	$z_{\rm drag}$	1059.43 ± 0.86
$\boldsymbol{n_{\rm s}}$	0.9622 ± 0.0096	H_0	66.9 ± 1.6	$r_{\rm drag}$	147.8 ± 2.0
$\boldsymbol{y_{\rm cal}}$	1.0004 ± 0.0025	Ω_Λ	0.682 ± 0.012	$k_{\rm D}$	0.1402 ± 0.0015
$\boldsymbol{A^{\rm CIB}_{217}}$	63.5 ± 6.6	$\Omega_{\rm m}$	0.318 ± 0.012	$100\theta_{\rm D}$	0.16080 ± 0.00043
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	$\Omega_{\rm m}h^2$	0.1419 ± 0.0032	$z_{\rm eq}$	3402 ± 40
$\boldsymbol{A^{\rm tSZ}_{143}}$	5.42 ± 1.9	$\Omega_{\rm m}h^3$	0.0950 ± 0.0041	$k_{\rm eq}$	0.01034 ± 0.00012
$\boldsymbol{A^{\rm PS}_{100}}$	259 ± 28	σ_8	$0.828^{+0.017}_{-0.019}$	$100\theta_{\rm eq}$	0.8129 ± 0.0077
$\boldsymbol{A^{\rm PS}_{143}}$	43 ± 8	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4667 ± 0.0097	$100\theta_{\rm s,eq}$	0.4493 ± 0.0039
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_{\rm m}^{0.25}$	0.622 ± 0.012	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07127 ± 0.00060
$\boldsymbol{A^{\rm PS}_{217}}$	98 ± 10	$\sigma_8/h^{0.5}$	1.013 ± 0.016	$H(0.57)$	92.5 ± 1.5
$\boldsymbol{A^{\rm kSZ}}$	< 3.94	$\langle d^2\rangle^{1/2}$	2.510 ± 0.038	$D_{\rm A}(0.57)$	1400 ± 28
$\boldsymbol{A^{\rm dust}_{100}}^{TT}$	7.42 ± 1.9	$z_{\rm re}$	9.97 ± 1.5	$F_{\rm AP}(0.57)$	0.6775 ± 0.0029
$\boldsymbol{A^{\rm dust}_{143}}^{TT}$	8.91 ± 1.8	$10^9A_{\rm s}$	$2.200^{+0.072}_{-0.091}$	$f\sigma_8(0.57)$	0.4831 ± 0.0091
$\boldsymbol{A^{\rm dust}_{143\times217}}^{TT}$	16.9 ± 4.2	$10^9A_{\rm s}e^{-2\tau}$	1.878 ± 0.018	$\sigma_8(0.57)$	$0.615^{+0.013}_{-0.016}$
$\boldsymbol{A^{\rm dust}_{217}}^{TT}$	81.7 ± 7.5	D_{40}	1245 ± 16	f^{143}_{2000}	29.1 ± 2.9
$\boldsymbol{A^{\rm dust}_{100}}^{EE}$	0.0811 ± 0.0057	D_{220}	5730 ± 39	$f^{143\times217}_{2000}$	31.9 ± 2.1
$\boldsymbol{A^{\rm dust}_{100\times143}}^{EE}$	0.0486 ± 0.0050	D_{810}	2535 ± 14	f^{217}_{2000}	105.6 ± 2.0
$\boldsymbol{A^{\rm dust}_{100\times217}}^{EE}$	0.0996 ± 0.032	D_{1420}	815.0 ± 4.9	$\chi^2_{\rm lowTEB}$	10498.1 ± 2.3
$\boldsymbol{A^{\rm dust}_{143}}^{EE}$	0.0999 ± 0.0069	D_{2000}	230.7 ± 1.9	$\chi^2_{\rm plik}$	2450.9 ± 6.8
$\boldsymbol{A^{\rm dust}_{143\times217}}^{EE}$	0.224 ± 0.047	$n_{\rm s,0.002}$	0.9622 ± 0.0096	$\chi^2_{\rm prior}$	19.2 ± 5.5
$\boldsymbol{A^{\rm dust}_{217}}^{EE}$	0.65 ± 0.13	$Y_{\rm P}$	0.2445 ± 0.0029	$\chi^2_{\rm CMB}$	12949.1 ± 6.7
$\boldsymbol{A^{\rm dust}_{100}}^{TE}$	0.141 ± 0.038	$Y_{\rm P}^{\rm BBN}$	0.2459 ± 0.0029		
$\boldsymbol{A^{\rm dust}_{100\times143}}^{TE}$	0.131 ± 0.029	10^5D/H	2.603 ± 0.047		

$\bar{\chi}^2_{\rm eff} = 12968.24$; $R - 1 = 0.00849$

11.11 base_nnu_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022259	0.02230 ± 0.00037 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.13	-0.1 ± 1.0	r_*	144.21	144.2 ± 2.7 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.12018	0.1201 ± 0.0040 (-0.1σ)	H_0	67.78	68.0 ± 2.8 $(+0.0\sigma)$	$100\theta_*$	1.04102	1.04106 ± 0.00070 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04085	1.04090 ± 0.00056 $(+0.1\sigma)$	Ω_Λ	0.6886	$0.690^{+0.022}_{-0.020}$ $(+0.1\sigma)$	z_{drag}	1059.70	1059.8 ± 1.2 (-0.0σ)
$\boldsymbol{\tau}$	0.0787	0.081 ± 0.022 $(+0.0\sigma)$	Ω_m	0.3114	$0.310^{+0.020}_{-0.022}$ (-0.1σ)	r_{drag}	146.91	146.9 ± 2.8 $(+0.1\sigma)$
$\boldsymbol{N_{eff}}$	3.098	$3.11^{+0.30}_{-0.34}$ (-0.0σ)	$\Omega_m h^2$	0.14308	0.1430 ± 0.0042 (-0.1σ)	k_D	0.14079	0.1409 ± 0.0020 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0900	3.095 ± 0.047 (-0.0σ)	$\Omega_m h^3$	0.0970	$0.0974^{+0.0059}_{-0.0069}$ (-0.0σ)	$100\theta_D$	0.16108	0.16106 ± 0.00069 (-0.1σ)
$\boldsymbol{n_s}$	0.9692	0.971 ± 0.015 $(+0.1\sigma)$	σ_8	0.8308	$0.833^{+0.021}_{-0.024}$ (-0.0σ)	z_{eq}	3380	3375 ± 72 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00013	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_m^{0.5}$	0.4636	0.463 ± 0.013 (-0.1σ)	$100\theta_{eq}$	0.8169	0.818 ± 0.014 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	249.5	246 ± 23 (-0.4σ)	$\sigma_8 \Omega_m^{0.25}$	0.6206	0.621 ± 0.014 (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07158	0.0717 ± 0.0011 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	36.2	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0091	1.010 ± 0.019 (-0.1σ)	$H(0.57)$	93.29	93.5 ± 2.5 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	96.3	98 ± 10 $(+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4863	2.487 ± 0.048 (-0.2σ)	$D_A(0.57)$	1383.7	1382 ± 46 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47.5	46 ± 7 (-2.7σ)	z_{re}	10.06	10.2 ± 2.0 $(+0.0\sigma)$	$F_{AP}(0.57)$	0.6760	0.6756 ± 0.0052 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.26	$3.18^{+1.3}_{-2.7}$ (-1.0σ)	$10^9 A_s$	2.198	$2.211^{+0.096}_{-0.11}$ (-0.0σ)	$f\sigma_8(0.57)$	0.4830	0.483 ± 0.011 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.422	$0.52^{+0.11}_{-0.12}$	$10^9 A_s e^{-2\tau}$	1.8775	1.877 ± 0.022 (-0.3σ)	$\sigma_8(0.57)$	0.6180	$0.620^{+0.019}_{-0.022}$ (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.005	< 0.595 (-0.2σ)	D_{40}	1226.6	1226 ± 22 (-0.3σ)	Y_P^{BBN}	0.24695	0.2470 ± 0.0043 (-0.1σ)
$\boldsymbol{A^{kSZ}}$	5.09	$5.36^{+4.2}_{-1.9}$ $(+0.7\sigma)$	D_{220}	5695.4	5698 ± 41 (-0.5σ)	f_{2000}^{143}	29.59	29 ± 3 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.993	0.99 ± 0.19	D_{810}	2529.2	2531 ± 14 (-0.3σ)	f_{2000}^{217}	106.94	106.6 ± 2.4 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.021	1.02 ± 0.18	D_{1420}	813.2	814.2 ± 5.2 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	32.12	31.9 ± 2.7 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.225	1.22 ± 0.12	$n_{s,0.002}$	0.9692	0.971 ± 0.015 $(+0.1\sigma)$	χ^2_{lowTEB}	10495.66	10496.9 ± 2.8 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.970	0.98 ± 0.18	Y_P	0.24562	0.2457 ± 0.0043 (-0.1σ)	$\chi^2_{CamSpec}$	8045.2	8060.4 ± 6.1
$\boldsymbol{c_{100}}$	0.99671	0.99679 ± 0.00096 (-1.4σ)	Age/Gyr	13.758	13.75 ± 0.33 $(+0.0\sigma)$	χ^2_{prior}	3.57	8.40 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99747	0.9973 ± 0.0018 $(+0.9\sigma)$	z_*	1090.11	1090.05 ± 0.50 (-0.2σ)	χ^2_{CMB}	18540.8	18557.3 ± 5.8 $(+1275.2\sigma)$

Best-fit $\chi^2_{eff} = 18544.41$; $\Delta\chi^2_{eff} = 7282.47$; $\bar{\chi}^2_{eff} = 18565.65$; $\Delta\bar{\chi}^2_{eff} = 7282.63$; $R - 1 = 0.00762$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.66 (Δ -0.64) CamSpec like_v9.10CMH_unified: 8045.18

11.12 base_nnu_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00033 \quad (-0.0\sigma)$	H_0	$68.5 \pm 2.5 \quad (-0.0\sigma)$	$z_{\rm drag}$	$1060.0 \pm 1.1 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1203 \pm 0.0040 \quad (-0.1\sigma)$	Ω_Λ	$0.694^{+0.019}_{-0.017} \quad (+0.0\sigma)$	$r_{\rm drag}$	$146.5 \pm 2.7 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04089 \pm 0.00056 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.306^{+0.017}_{-0.019} \quad (-0.0\sigma)$	$k_{\rm D}$	$0.1411 \pm 0.0019 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.084 \pm 0.021 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1433 \pm 0.0042 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16115 \pm 0.00066 \quad (-0.1\sigma)$
$\boldsymbol{N_{eff}}$	$3.16 \pm 0.29 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.0983^{+0.0057}_{-0.0063} \quad (-0.1\sigma)$	$z_{\rm eq}$	$3360 \pm 62 \quad (-0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.101 \pm 0.045 \quad (-0.1\sigma)$	σ_8	$0.835^{+0.021}_{-0.024} \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.821 \pm 0.012 \quad (+0.0\sigma)$
$\boldsymbol{n_s}$	$0.974 \pm 0.014 \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.462 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07192 \pm 0.00095 \quad (+0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0024 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.621 \pm 0.014 \quad (-0.1\sigma)$	$H(0.57)$	$93.9 \pm 2.3 \quad (-0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$247 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.009 \pm 0.019 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1373 \pm 41 \quad (+0.0\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$40 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.482 \pm 0.047 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6745 \pm 0.0044 \quad (-0.0\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$10.4^{+2.0}_{-1.8} \quad (+0.0\sigma)$	$f\sigma_8(0.57)$	$0.484 \pm 0.011 \quad (-0.1\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.225^{+0.095}_{-0.11} \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.623^{+0.018}_{-0.020} \quad (-0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.17^{+1.3}_{-2.7} \quad (-0.9\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.879 \pm 0.022 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.2477 \pm 0.0040 \quad (-0.2\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.52^{+0.10}_{-0.12}$	D_{40}	$1223 \pm 20 \quad (-0.3\sigma)$	f^{143}_{2000}	$29 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.594 \quad (-0.2\sigma)$	D_{220}	$5699 \pm 41 \quad (-0.5\sigma)$	f^{217}_{2000}	$106.7 \pm 2.4 \quad (+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.43^{+4.2}_{-1.8} \quad (+0.7\sigma)$	D_{810}	$2531 \pm 14 \quad (-0.3\sigma)$	$f^{143\times217}_{2000}$	$32.0 \pm 2.7 \quad (-0.3\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{1420}	$814.2 \pm 5.2 \quad (-0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.6 \pm 2.7 \quad (-0.2\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.974 \pm 0.014 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8060.5 ± 6.1
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.12	$Y_{\rm P}$	$0.2464 \pm 0.0039 \quad (-0.2\sigma)$	$\chi^2_{\rm JLA}$	$706.86 \pm 0.50 \quad (-0.1\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	Age/Gyr	$13.69 \pm 0.30 \quad (+0.1\sigma)$	$\chi^2_{\rm prior}$	$8.38 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00096 \quad (-1.4\sigma)$	z_*	$1090.04 \pm 0.50 \quad (-0.2\sigma)$	$\chi^2_{\rm CMB}$	$18557.1 \pm 5.8 \quad (+954.7\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$143.9 \pm 2.5 \quad (+0.1\sigma)$		
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$100\theta_*$	$1.04101 \pm 0.00069 \quad (+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 19272.38$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.51$; $R - 1 = 0.01011$

11.13 base_nnu_CamSpecHM_TT_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00037 $(+0.0\sigma)$	H_0	68.4 ± 2.7 (-0.0σ)	$z_{\rm drag}$	1059.8 ± 1.2 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0039 (-0.1σ)	Ω_Λ	$0.696^{+0.021}_{-0.018}$ $(+0.0\sigma)$	$r_{\rm drag}$	147.2 ± 2.8 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04103 ± 0.00056 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.304^{+0.018}_{-0.021}$ (-0.0σ)	$k_{\rm D}$	0.1406 ± 0.0020 (-0.1σ)
$\boldsymbol{\tau}$	0.071 ± 0.019 $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.1420 ± 0.0041 (-0.1σ)	$100\theta_{\rm D}$	0.16108 ± 0.00067 (-0.1σ)
$\boldsymbol{N_{eff}}$	3.11 ± 0.31 (-0.1σ)	$\Omega_{\rm m} h^3$	$0.0972^{+0.0058}_{-0.0066}$ (-0.1σ)	$z_{\rm eq}$	3353 ± 68 (-0.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.072 ± 0.041 $(+0.0\sigma)$	σ_8	0.820 ± 0.019 $(+0.0\sigma)$	$100\theta_{\rm eq}$	0.823 ± 0.013 $(+0.0\sigma)$
$\boldsymbol{n_s}$	0.972 ± 0.015 $(+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4521 ± 0.0089 $(+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.0720 ± 0.0010 $(+0.0\sigma)$
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0024 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6089 ± 0.0089 $(+0.0\sigma)$	$H(0.57)$	93.6 ± 2.5 (-0.0σ)
$\boldsymbol{A_{100}^{PS}}$	248 ± 23 (-0.5σ)	$\sigma_8/h^{0.5}$	$0.992^{+0.011}_{-0.012}$ $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1377 ± 45 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	40 ± 8 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.444 ± 0.030 (-0.0σ)	$F_{\rm AP}(0.57)$	0.6742 ± 0.0049 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	96 ± 10 $(+0.0\sigma)$	$z_{\rm re}$	$9.23^{+1.9}_{-1.7}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4746 ± 0.0076 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.7σ)	$10^9 A_{\rm s}$	$2.160^{+0.084}_{-0.096}$ $(+0.0\sigma)$	$\sigma_8(0.57)$	0.612 ± 0.018 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.08^{+1.2}_{-2.7}$ (-1.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.872 ± 0.021 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.2470 ± 0.0042 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	1217^{+19}_{-21} (-0.3σ)	f_{2000}^{143}	30 ± 3 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.586 (-0.1σ)	D_{220}	5697 ± 40 (-0.4σ)	f_{2000}^{217}	106.8 ± 2.4 $(+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	> 4.44 $(+0.7\sigma)$	D_{810}	2529 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	32.2 ± 2.6 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	814.2 ± 5.1 (-0.0σ)	$\chi^2_{\rm lensing}$	9.86 ± 1.4 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	0.972 ± 0.015 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10495.3 ± 1.9 (-0.2σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	0.2457 ± 0.0042 (-0.2σ)	$\chi^2_{\rm CamSpec}$	8062.0 ± 5.9
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	13.74 ± 0.32 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	8.36 ± 3.4 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99675 ± 0.00096 (-1.5σ)	z_*	1089.94 ± 0.48 (-0.2σ)	$\chi^2_{\rm CMB}$	18567.1 ± 5.9 $(+1174.0\sigma)$
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	r_*	144.5 ± 2.7 $(+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.05 ± 0.98	$100\theta_*$	1.04120 ± 0.00070 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18575.50$; $\Delta\bar{\chi}^2_{\rm eff} = 7281.91$; $R - 1 = 0.02320$

11.14 base_nnu_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02243 \pm 0.00031 \quad (+0.0\sigma)$	H_0	$69.0 \pm 2.2 \quad (+0.0\sigma)$	$z_{\rm drag}$	$1060.3 \pm 1.0 \quad (-0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1210 \pm 0.0038 \quad (-0.1\sigma)$	Ω_Λ	$0.697^{+0.017}_{-0.015} \quad (+0.1\sigma)$	$r_{\rm drag}$	$146.0 \pm 2.3 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04083 \pm 0.00055 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.303^{+0.015}_{-0.017} \quad (-0.1\sigma)$	$k_{\rm D}$	$0.1415 \pm 0.0017 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.086 \pm 0.021 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1441 \pm 0.0039 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16127 \pm 0.00060 \quad (-0.1\sigma)$
$\boldsymbol{N_{eff}}$	$3.22 \pm 0.26 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.0995 \pm 0.0051 \quad (-0.0\sigma)$	$z_{\rm eq}$	$3350 \pm 58 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.107 \pm 0.043 \quad (-0.0\sigma)$	σ_8	$0.839^{+0.020}_{-0.022} \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.823 \pm 0.011 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.976 \pm 0.012 \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.461 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07208 \pm 0.00089 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0024 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.622 \pm 0.014 \quad (-0.1\sigma)$	$H(0.57)$	$94.4 \pm 2.0 \quad (-0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.009 \pm 0.020 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1364 \pm 35 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.479 \pm 0.047 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6738 \pm 0.0041 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.0\sigma)$	$z_{\rm re}$	$10.6^{+2.0}_{-1.7} \quad (+0.0\sigma)$	$f\sigma_8(0.57)$	$0.485^{+0.010}_{-0.012} \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.237 \pm 0.096 \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.626^{+0.016}_{-0.019} \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.12^{+1.2}_{-2.7} \quad (-0.9\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.882 \pm 0.020 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.2486 \pm 0.0034 \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	$1220 \pm 19 \quad (-0.4\sigma)$	f_{2000}^{143}	$30 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.591 \quad (-0.2\sigma)$	D_{220}	$5700 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.9 \pm 2.3 \quad (+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.53^{+4.3}_{-1.5} \quad (+0.7\sigma)$	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.3 \pm 2.6 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.0 \pm 5.2 \quad (-0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.4 \pm 2.7 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.976 \pm 0.012 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8060.8 ± 6.1
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.2472 \pm 0.0034 \quad (-0.2\sigma)$	$\chi^2_{\rm H070p6}$	$0.64 \pm 0.83 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.63 \pm 0.26 \quad (+0.0\sigma)$	$\chi^2_{\rm prior}$	$8.38 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00096 \quad (-1.4\sigma)$	z_*	$1090.09 \pm 0.50 \quad (-0.2\sigma)$	$\chi^2_{\rm CMB}$	$18557.1 \pm 5.8 \quad (+1260.1\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$143.3 \pm 2.2 \quad (+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04091 \pm 0.00065 \quad (+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18566.14$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.57$; $R - 1 = 0.01071$

11.15 base_nnu_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00036 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	144.1 ± 2.7 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1201 ± 0.0040 (-0.1σ)	H_0	$68.1^{+2.6}_{-2.9}$ $(+0.0\sigma)$	$100\theta_*$	1.04105 ± 0.00070 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04090 ± 0.00056 $(+0.2\sigma)$	Ω_Λ	0.691 ± 0.020 $(+0.1\sigma)$	$z_{\rm drag}$	1059.9 ± 1.2 (-0.0σ)
$\boldsymbol{\tau}$	$0.083^{+0.018}_{-0.024}$ $(+0.0\sigma)$	$\Omega_{\rm m}$	0.309 ± 0.020 (-0.1σ)	$r_{\rm drag}$	146.8 ± 2.8 $(+0.1\sigma)$
$\boldsymbol{N_{eff}}$	3.12 ± 0.31 (-0.0σ)	$\Omega_{\rm m}h^2$	0.1431 ± 0.0042 (-0.1σ)	$k_{\rm D}$	0.1409 ± 0.0020 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	$3.099^{+0.040}_{-0.051}$ (-0.0σ)	$\Omega_{\rm m}h^3$	$0.0976^{+0.0059}_{-0.0068}$ (-0.0σ)	$100\theta_{\rm D}$	0.16108 ± 0.00069 (-0.1σ)
$\boldsymbol{n_s}$	0.971 ± 0.015 $(+0.1\sigma)$	σ_8	$0.834^{+0.019}_{-0.024}$ (-0.1σ)	$z_{\rm eq}$	3372 ± 70 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0024 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.463 ± 0.013 (-0.1σ)	$100\theta_{\rm eq}$	0.819 ± 0.014 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	246 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.622 ± 0.013 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0718^{+0.0010}_{-0.0012}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.011 ± 0.019 (-0.1σ)	$H(0.57)$	93.6 ± 2.5 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.488 ± 0.048 (-0.2σ)	$D_{\rm A}(0.57)$	1380 ± 45 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$z_{\rm re}$	10.4 ± 1.8 $(+0.0\sigma)$	$F_{\rm AP}(0.57)$	0.6754 ± 0.0050 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.21^{+1.3}_{-2.6}$ (-1.0σ)	$10^9A_{\rm s}$	$2.219^{+0.084}_{-0.12}$ (-0.0σ)	$f\sigma_8(0.57)$	$0.484^{+0.010}_{-0.012}$ (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.878 ± 0.022 (-0.3σ)	$\sigma_8(0.57)$	$0.621^{+0.017}_{-0.022}$ (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.596 (-0.2σ)	D_{40}	1226 ± 22 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.2472 ± 0.0042 (-0.1σ)
$\boldsymbol{A^{kSZ}}$	$5.36^{+4.0}_{-2.0}$ $(+0.7\sigma)$	D_{220}	5698 ± 41 (-0.5σ)	f_{2000}^{143}	29 ± 3 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	2531 ± 14 (-0.3σ)	f_{2000}^{217}	106.6 ± 2.4 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	814.2 ± 5.2 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	31.9 ± 2.7 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$n_{\rm s,0.002}$	0.971 ± 0.015 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10496.8 ± 2.7 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	0.2459 ± 0.0042 (-0.1σ)	$\chi^2_{\rm CamSpec}$	8060.3 ± 6.1
$\boldsymbol{c_{100}}$	0.99678 ± 0.00096 (-1.4σ)	Age/Gyr	13.73 ± 0.33 $(+0.0\sigma)$	$\chi^2_{\rm prior}$	8.39 ± 3.4 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	z_*	1090.05 ± 0.50 (-0.2σ)	$\chi^2_{\rm CMB}$	18557.1 ± 5.8 $(+933.9\sigma)$

$\bar{\chi}^2_{\rm eff} = 18565.51$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.56$; $R - 1 = 0.00937$

11.16 base_nnu_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022174	0.02219 ± 0.00023 (-0.0σ)	$\boldsymbol{c_{EE}}$	0.99820	0.9987 ± 0.0048	r_*	146.94	146.8 ± 2.1 $(+0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11581	0.1161 ± 0.0032 (-1.0σ)	$\boldsymbol{\beta_1^1}$	0.00	-0.08 ± 0.99	$100\theta_*$	1.04159	1.04155 ± 0.00059 $(+0.8\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.041224	1.04120 ± 0.00047 $(+0.7\sigma)$	H_0	65.92	66.1 ± 1.6 (-0.5σ)	$z_{\rm drag}$	1058.98	1059.03 ± 0.85 (-0.4σ)
$\boldsymbol{\tau}$	0.0736	0.074 ± 0.018 (-0.2σ)	Ω_Λ	0.6809	0.682 ± 0.012 (-0.0σ)	$r_{\rm drag}$	149.70	149.5 ± 2.1 $(+0.8\sigma)$
$\boldsymbol{N_{\rm eff}}$	2.802	2.83 ± 0.21 (-0.8σ)	$\Omega_{\rm m}$	0.3191	0.318 ± 0.012 $(+0.0\sigma)$	$k_{\rm D}$	0.13897	0.1391 ± 0.0015 (-0.7σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0693	3.069 ± 0.037 (-0.5σ)	$\Omega_{\rm m} h^2$	0.13863	0.1389 ± 0.0033 (-0.9σ)	$100\theta_{\rm D}$	0.160253	0.16031 ± 0.00049 (-1.1σ)
$\boldsymbol{n_s}$	0.9588	0.9595 ± 0.0097 (-0.3σ)	$\Omega_{\rm m} h^3$	0.09138	$0.0919^{+0.0040}_{-0.0045}$ (-0.7σ)	$z_{\rm eq}$	3408.9	3406 ± 41 $(+0.1\sigma)$
$\boldsymbol{y_{\rm cal}}$	1.00041	1.0002 ± 0.0025 (-0.1σ)	σ_8	0.8138	0.814 ± 0.018 (-0.7σ)	$100\theta_{\rm eq}$	0.8116	0.8122 ± 0.0077 (-0.1σ)
$\boldsymbol{A_{100}^{\rm PS}}$	239.0	239 ± 23 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4597	0.4593 ± 0.0096 (-0.7σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07121	0.07126 ± 0.00059 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{\rm PS}}$	35.2	36 ± 8 (-0.9σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6116	0.612 ± 0.012 (-0.8σ)	$H(0.57)$	91.24	91.4 ± 1.6 (-0.7σ)
$\boldsymbol{A_{217}^{\rm PS}}$	101.7	100 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	1.0024	1.002 ± 0.017 (-0.6σ)	$D_{\rm A}(0.57)$	1418.8	1416 ± 30 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{\rm CIB}}$	44.8	44 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.4907	2.488 ± 0.040 (-0.5σ)	$F_{\rm AP}(0.57)$	0.67794	0.6778 ± 0.0029 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{\rm tSZ}}$	4.29	$3.65^{+1.8}_{-2.3}$ (-0.9σ)	$z_{\rm re}$	9.49	$9.41^{+1.8}_{-1.5}$ (-0.3σ)	$f\sigma_8(0.57)$	0.4751	0.4751 ± 0.0093 (-0.8σ)
$\boldsymbol{r_{143\times217}^{\rm PS}}$	0.499	0.52 ± 0.12	$10^9 A_{\rm s}$	2.153	2.154 ± 0.081 (-0.5σ)	$\sigma_8(0.57)$	0.6036	0.604 ± 0.015 (-0.7σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.19	—	$10^9 A_{\rm s} e^{-2\tau}$	1.8579	1.858 ± 0.019 (-1.1σ)	$Y_{\rm P}^{\rm BBN}$	0.24288	0.2432 ± 0.0031 (-0.9σ)
$\boldsymbol{A^{\rm kSZ}}$	2.88	$4.63^{+2.1}_{-4.0}$ $(+0.7\sigma)$	D_{40}	1239.0	1238 ± 16 (-0.4σ)	f_{2000}^{143}	26.68	27 ± 3 (-0.8σ)
$\boldsymbol{A_{100}^{\rm dust}}$	0.984	0.98 ± 0.19	D_{220}	5711.5	5709 ± 39 (-0.5σ)	f_{2000}^{217}	104.72	104.9 ± 2.1 (-0.4σ)
$\boldsymbol{A_{143}^{\rm dust}}$	1.021	1.02 ± 0.18	D_{810}	2528.4	2527 ± 14 (-0.6σ)	$f_{2000}^{143\times217}$	29.72	29.9 ± 2.3 (-1.0σ)
$\boldsymbol{A_{217}^{\rm dust}}$	1.221	1.22 ± 0.12	D_{1420}	816.69	816.1 ± 4.9 $(+0.2\sigma)$	$\chi^2_{\rm lowTEB}$	10496.81	10497.5 ± 2.2 (-0.3σ)
$\boldsymbol{A_{143\times217}^{\rm dust}}$	0.977	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9588	0.9595 ± 0.0097 (-0.3σ)	$\chi^2_{\rm CamSpec}$	12934.2	12951.2 ± 6.2
$\boldsymbol{c_{100}}$	0.99680	0.99681 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.24157	0.2419 ± 0.0030 (-0.9σ)	$\chi^2_{\rm prior}$	3.30	8.96 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99674	0.9969 ± 0.0018 $(+0.6\sigma)$	Age/Gyr	14.051	14.03 ± 0.23 $(+0.7\sigma)$	$\chi^2_{\rm CMB}$	23431.0	23448.7 ± 6.1 $(+1553.7\sigma)$
$\boldsymbol{c_{TE}}$	1.00323	1.0033 ± 0.0046	z_*	1089.539	1089.57 ± 0.39 (-1.2σ)			

Best-fit $\chi^2_{\rm eff} = 23434.36$; $\Delta\chi^2_{\rm eff} = 10499.12$; $\bar{\chi}^2_{\rm eff} = 23457.66$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.28$; $R - 1 = 0.00681$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.81 (Δ -0.72) CamSpec like_v9.10CMH_unified: 12934.24

11.17 base_nnu_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02222 \pm 0.00022 \quad (-0.1\sigma)$	$\boldsymbol{c_{EE}}$	0.9990 ± 0.0047	r_*	$146.5 \pm 2.0 \quad (+0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1163 \pm 0.0032 \quad (-0.9\sigma)$	$\boldsymbol{\beta_1^1}$	-0.09 ± 0.99	$100\theta_*$	$1.04150 \pm 0.00058 \quad (+0.8\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04117 \pm 0.00046 \quad (+0.7\sigma)$	H_0	$66.4 \pm 1.6 \quad (-0.5\sigma)$	$z_{\rm drag}$	$1059.16 \pm 0.82 \quad (-0.5\sigma)$
$\boldsymbol{\tau}$	$0.075 \pm 0.018 \quad (-0.2\sigma)$	Ω_Λ	$0.684 \pm 0.011 \quad (-0.0\sigma)$	$r_{\rm drag}$	$149.3 \pm 2.1 \quad (+0.8\sigma)$
$\boldsymbol{N_{eff}}$	$2.86 \pm 0.21 \quad (-0.8\sigma)$	$\Omega_{\rm m}$	$0.316 \pm 0.011 \quad (+0.0\sigma)$	$k_{\rm D}$	$0.1393 \pm 0.0015 \quad (-0.7\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.073 \pm 0.037 \quad (-0.5\sigma)$	$\Omega_{\rm m} h^2$	$0.1392 \pm 0.0033 \quad (-0.9\sigma)$	$100\theta_{\rm D}$	$0.16036 \pm 0.00049 \quad (-1.1\sigma)$
$\boldsymbol{n_s}$	$0.9612 \pm 0.0093 \quad (-0.3\sigma)$	$\Omega_{\rm m} h^3$	$0.0924^{+0.0040}_{-0.0044} \quad (-0.8\sigma)$	$z_{\rm eq}$	$3398 \pm 39 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (-0.1\sigma)$	σ_8	$0.816 \pm 0.018 \quad (-0.7\sigma)$	$100\theta_{\rm eq}$	$0.8139 \pm 0.0074 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$239 \pm 23 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4585 \pm 0.0096 \quad (-0.7\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07138 \pm 0.00056 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$36 \pm 8 \quad (-0.9\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.612 \pm 0.012 \quad (-0.8\sigma)$	$H(0.57)$	$91.7 \pm 1.6 \quad (-0.7\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.001 \pm 0.017 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1411 \pm 29 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.486 \pm 0.040 \quad (-0.5\sigma)$	$F_{\rm AP}(0.57)$	$0.6771 \pm 0.0028 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.63^{+1.8}_{-2.3} \quad (-0.9\sigma)$	$z_{\rm re}$	$9.56^{+1.8}_{-1.5} \quad (-0.3\sigma)$	$f\sigma_8(0.57)$	$0.4755 \pm 0.0093 \quad (-0.8\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s}$	$2.162 \pm 0.080 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.606 \pm 0.014 \quad (-0.7\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	$1.859 \pm 0.019 \quad (-1.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.2436 \pm 0.0030 \quad (-0.9\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.67^{+2.4}_{-3.7} \quad (+0.7\sigma)$	D_{40}	$1236 \pm 16 \quad (-0.4\sigma)$	f_{2000}^{143}	$27 \pm 3 \quad (-0.8\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	$5710 \pm 39 \quad (-0.5\sigma)$	f_{2000}^{217}	$104.9 \pm 2.1 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2527 \pm 14 \quad (-0.6\sigma)$	$f_{2000}^{143\times217}$	$30.0 \pm 2.3 \quad (-0.9\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$816.0 \pm 5.0 \quad (+0.2\sigma)$	$\chi^2_{\rm lowTEB}$	$10497.4 \pm 2.2 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9612 \pm 0.0093 \quad (-0.3\sigma)$	$\chi^2_{\rm CamSpec}$	12951.3 ± 6.3
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00096 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.2423 \pm 0.0030 \quad (-0.9\sigma)$	$\chi^2_{\rm JLA}$	$706.99 \pm 0.42 \quad (+0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9969 \pm 0.0018 \quad (+0.6\sigma)$	Age/Gyr	$14.00 \pm 0.22 \quad (+0.7\sigma)$	$\chi^2_{\rm prior}$	$8.93 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0034 ± 0.0046	z_*	$1089.57 \pm 0.39 \quad (-1.1\sigma)$	$\chi^2_{\rm CMB}$	$23448.7 \pm 6.1 \quad (+1564.1\sigma)$

$\bar{\chi}^2_{\rm eff} = 24164.59$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.26$; $R - 1 = 0.00732$

11.18 base_nnu_CamSpecHM_TTTEEE_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02216 ± 0.00023 $(+0.0\sigma)$	$\boldsymbol{c_{EE}}$	0.9989 ± 0.0047	r_*	147.1 ± 2.0 $(+0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1155 ± 0.0031 (-0.8σ)	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04165 ± 0.00059 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04128 ± 0.00047 $(+0.6\sigma)$	H_0	66.1 ± 1.6 (-0.4σ)	$z_{\rm drag}$	1058.91 ± 0.84 (-0.3σ)
$\boldsymbol{\tau}$	0.062 ± 0.014 $(+0.1\sigma)$	Ω_Λ	0.683 ± 0.011 (-0.1σ)	$r_{\rm drag}$	149.8 ± 2.1 $(+0.7\sigma)$
$\boldsymbol{N_{eff}}$	2.80 ± 0.21 (-0.7σ)	$\Omega_{\rm m}$	0.317 ± 0.011 $(+0.1\sigma)$	$k_{\rm D}$	0.1388 ± 0.0015 (-0.6σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.043 ± 0.029 (-0.2σ)	$\Omega_{\rm m} h^2$	0.1383 ± 0.0033 (-0.8σ)	$100\theta_{\rm D}$	0.16029 ± 0.00049 (-1.0σ)
$\boldsymbol{n_s}$	0.9590 ± 0.0096 (-0.2σ)	$\Omega_{\rm m} h^3$	$0.0914^{+0.0039}_{-0.0044}$ (-0.6σ)	$z_{\rm eq}$	3401 ± 40 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0025 (-0.1σ)	σ_8	0.802 ± 0.014 (-0.5σ)	$100\theta_{\rm eq}$	0.8131 ± 0.0076 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	240^{+24}_{-22} (-0.8σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4519 ± 0.0068 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07133 ± 0.00058 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	36 ± 8 (-0.9σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6022 ± 0.0080 (-0.6σ)	$H(0.57)$	91.3 ± 1.6 (-0.6σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.987 ± 0.011 (-0.3σ)	$D_{\rm A}(0.57)$	1418 ± 30 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	44 ± 7 (-3.0σ)	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.029}_{-0.026}$ (-0.2σ)	$F_{\rm AP}(0.57)$	0.6775 ± 0.0029 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.62^{+1.8}_{-2.3}$ (-0.9σ)	$z_{\rm re}$	$8.31^{+1.5}_{-1.3}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4679 ± 0.0065 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s}$	2.099 ± 0.061 (-0.2σ)	$\sigma_8(0.57)$	0.596 ± 0.012 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	1.854 ± 0.019 (-0.9σ)	$Y_{\rm P}^{\rm BBN}$	0.2429 ± 0.0030 (-0.8σ)
$\boldsymbol{A^{kSZ}}$	4.85 ± 2.7 $(+0.6\sigma)$	D_{40}	1233 ± 15 (-0.3σ)	f_{2000}^{143}	27 ± 3 (-0.9σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	5706 ± 39 (-0.5σ)	f_{2000}^{217}	105.0 ± 2.1 (-0.4σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	2526 ± 14 (-0.5σ)	$f_{2000}^{143\times217}$	30.2 ± 2.3 (-1.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	815.9 ± 4.9 $(+0.2\sigma)$	$\chi^2_{\rm lensing}$	9.71 ± 1.4 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9590 ± 0.0096 (-0.2σ)	$\chi^2_{\rm lowTEB}$	10496.4 ± 1.7 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00096 (-1.8σ)	$Y_{\rm P}$	0.2415 ± 0.0030 (-0.8σ)	$\chi^2_{\rm CamSpec}$	12952.5 ± 6.3
$\boldsymbol{c_{217}}$	0.9969 ± 0.0018 $(+0.6\sigma)$	Age/Gyr	14.05 ± 0.23 $(+0.6\sigma)$	$\chi^2_{\rm prior}$	8.98 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0041 ± 0.0046	z_*	1089.53 ± 0.38 (-1.0σ)	$\chi^2_{\rm CMB}$	23458.6 ± 6.2 $(+1570.0\sigma)$

$\bar{\chi}^2_{\rm eff} = 23467.61$; $\Delta\bar{\chi}^2_{\rm eff} = 10487.76$; $R - 1 = 0.01554$

11.19 base_nnu_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02229 \pm 0.00022 \quad (-0.0\sigma)$	$\boldsymbol{c_{EE}}$	0.9998 ± 0.0047	r_*	$145.8 \pm 1.9 \quad (+0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1173 \pm 0.0031 \quad (-0.9\sigma)$	$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	$100\theta_*$	$1.04133 \pm 0.00056 \quad (+0.7\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04105 \pm 0.00045 \quad (+0.6\sigma)$	H_0	$67.0 \pm 1.5 \quad (-0.4\sigma)$	$z_{\rm drag}$	$1059.45 \pm 0.77 \quad (-0.4\sigma)$
$\boldsymbol{\tau}$	$0.077 \pm 0.018 \quad (-0.2\sigma)$	Ω_Λ	$0.687 \pm 0.011 \quad (+0.0\sigma)$	$r_{\rm drag}$	$148.5 \pm 2.0 \quad (+0.8\sigma)$
$\boldsymbol{N_{eff}}$	$2.93 \pm 0.20 \quad (-0.7\sigma)$	$\Omega_{\rm m}$	$0.313 \pm 0.011 \quad (-0.0\sigma)$	$k_{\rm D}$	$0.1398 \pm 0.0014 \quad (-0.7\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.080 \pm 0.037 \quad (-0.5\sigma)$	$\Omega_{\rm m} h^2$	$0.1402 \pm 0.0032 \quad (-0.9\sigma)$	$100\theta_{\rm D}$	$0.16052 \pm 0.00047 \quad (-1.0\sigma)$
$\boldsymbol{n_s}$	$0.9644 \pm 0.0088 \quad (-0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.0939 \pm 0.0039 \quad (-0.7\sigma)$	$z_{\rm eq}$	$3387 \pm 38 \quad (-0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (-0.1\sigma)$	σ_8	$0.820 \pm 0.017 \quad (-0.7\sigma)$	$100\theta_{\rm eq}$	$0.8159 \pm 0.0072 \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$241 \pm 23 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4587 \pm 0.0096 \quad (-0.7\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07153 \pm 0.00055 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$37 \pm 8 \quad (-0.9\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.613 \pm 0.012 \quad (-0.8\sigma)$	$H(0.57)$	$92.3 \pm 1.5 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.002 \pm 0.017 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1400 \pm 27 \quad (+0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.483 \pm 0.040 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6764 \pm 0.0027 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.56^{+1.7}_{-2.3} \quad (-1.0\sigma)$	$z_{\rm re}$	$9.75^{+1.8}_{-1.5} \quad (-0.3\sigma)$	$f\sigma_8(0.57)$	$0.4772 \pm 0.0092 \quad (-0.8\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s}$	$2.177 \pm 0.080 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.610 \pm 0.014 \quad (-0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	$1.864 \pm 0.018 \quad (-1.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.2447 \pm 0.0028 \quad (-0.9\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.82^{+2.8}_{-3.4} \quad (+0.7\sigma)$	D_{40}	$1233 \pm 15 \quad (-0.5\sigma)$	f_{2000}^{143}	$27 \pm 3 \quad (-0.7\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	$5711 \pm 39 \quad (-0.5\sigma)$	f_{2000}^{217}	$105.3 \pm 2.1 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2528 \pm 14 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$30.4 \pm 2.3 \quad (-0.9\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$815.6 \pm 5.0 \quad (+0.2\sigma)$	$\chi^2_{\rm lowTEB}$	$10497.0 \pm 2.2 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9644 \pm 0.0088 \quad (-0.2\sigma)$	$\chi^2_{\rm CamSpec}$	12951.9 ± 6.4
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00096 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.2434 \pm 0.0028 \quad (-0.9\sigma)$	$\chi^2_{\rm H070p6}$	$1.39 \pm 1.0 \quad (+0.4\sigma)$
$\boldsymbol{c_{217}}$	$0.9969 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.91 \pm 0.21 \quad (+0.6\sigma)$	$\chi^2_{\rm prior}$	$8.92 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0038 ± 0.0046	z_*	$1089.65 \pm 0.38 \quad (-1.1\sigma)$	$\chi^2_{\rm CMB}$	$23448.9 \pm 6.2 \quad (+1563.3\sigma)$

$\bar{\chi}^2_{\rm eff} = 23459.19$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.62$; $R - 1 = 0.01028$

11.20 base_nnu_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02219 \pm 0.00023 \quad (-0.0\sigma)$	$\boldsymbol{c_{EE}}$	0.9987 ± 0.0047	r_*	$146.7 \pm 2.0 \quad (+0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1161 \pm 0.0032 \quad (-1.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.09 ± 0.99	$100\theta_*$	$1.04154 \pm 0.00059 \quad (+0.8\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04119 \pm 0.00046 \quad (+0.7\sigma)$	H_0	$66.1 \pm 1.6 \quad (-0.5\sigma)$	$z_{\rm drag}$	$1059.05 \pm 0.84 \quad (-0.4\sigma)$
$\boldsymbol{\tau}$	$0.075^{+0.015}_{-0.019} \quad (-0.2\sigma)$	Ω_Λ	$0.682 \pm 0.011 \quad (-0.0\sigma)$	$r_{\rm drag}$	$149.5 \pm 2.1 \quad (+0.8\sigma)$
$\boldsymbol{N_{eff}}$	$2.83 \pm 0.21 \quad (-0.8\sigma)$	$\Omega_{\rm m}$	$0.318 \pm 0.011 \quad (+0.0\sigma)$	$k_{\rm D}$	$0.1391 \pm 0.0015 \quad (-0.7\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.073^{+0.033}_{-0.040} \quad (-0.5\sigma)$	$\Omega_{\rm m} h^2$	$0.1390 \pm 0.0033 \quad (-0.9\sigma)$	$100\theta_{\rm D}$	$0.16032 \pm 0.00049 \quad (-1.1\sigma)$
$\boldsymbol{n_s}$	$0.9599 \pm 0.0095 \quad (-0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.0920^{+0.0040}_{-0.0044} \quad (-0.7\sigma)$	$z_{\rm eq}$	$3404 \pm 40 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (-0.1\sigma)$	σ_8	$0.816^{+0.016}_{-0.019} \quad (-0.7\sigma)$	$100\theta_{\rm eq}$	$0.8125 \pm 0.0076 \quad (-0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$239 \pm 23 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4598 \pm 0.0094 \quad (-0.7\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07128 \pm 0.00058 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$36 \pm 8 \quad (-0.9\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.612 \pm 0.011 \quad (-0.8\sigma)$	$H(0.57)$	$91.5 \pm 1.6 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.003 \pm 0.016 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1415 \pm 29 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.491 \pm 0.038 \quad (-0.5\sigma)$	$F_{\rm AP}(0.57)$	$0.6776 \pm 0.0029 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.66^{+1.8}_{-2.3} \quad (-0.9\sigma)$	$z_{\rm re}$	$9.58 \pm 1.5 \quad (-0.3\sigma)$	$f\sigma_8(0.57)$	$0.4758^{+0.0085}_{-0.0097} \quad (-0.8\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9 A_{\rm s}$	$2.161^{+0.067}_{-0.088} \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.605^{+0.013}_{-0.015} \quad (-0.7\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	$1.858 \pm 0.019 \quad (-1.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.2432 \pm 0.0030 \quad (-0.9\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.60^{+2.2}_{-3.9} \quad (+0.6\sigma)$	D_{40}	$1238 \pm 16 \quad (-0.4\sigma)$	f_{2000}^{143}	$27 \pm 3 \quad (-0.8\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	$5709 \pm 39 \quad (-0.5\sigma)$	f_{2000}^{217}	$104.8 \pm 2.1 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2527 \pm 14 \quad (-0.6\sigma)$	$f_{2000}^{143\times217}$	$29.9 \pm 2.3 \quad (-1.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$816.0 \pm 4.9 \quad (+0.2\sigma)$	$\chi^2_{\rm lowTEB}$	$10497.5 \pm 2.2 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9599 \pm 0.0095 \quad (-0.2\sigma)$	$\chi^2_{\rm CamSpec}$	12951.0 ± 6.3
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00096 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.2419 \pm 0.0030 \quad (-0.9\sigma)$	$\chi^2_{\rm prior}$	$8.92 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{217}}$	$0.9969 \pm 0.0018 \quad (+0.6\sigma)$	Age/Gyr	$14.02 \pm 0.23 \quad (+0.7\sigma)$	$\chi^2_{\rm CMB}$	$23448.5 \pm 6.0 \quad (+1571.0\sigma)$
$\boldsymbol{c_{TE}}$	1.0032 ± 0.0046	z_*	$1089.57 \pm 0.38 \quad (-1.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23457.44$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.19$; $R - 1 = 0.00674$

11.21 base_nnu_plikHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022311	0.02235 ± 0.00035	σ_8	0.8017	0.805 ± 0.025	$100\theta_*$	1.04160	1.0414 ± 0.0012
$\boldsymbol{\Omega_c h^2}$	0.1156	$0.1169^{+0.0061}_{-0.0075}$	$\sigma_8\Omega_m^{0.5}$	0.4437	0.444 ± 0.015	D_A/Gpc	14.056	13.99 ± 0.39
$\boldsymbol{100\theta_{MC}}$	1.04130	1.04121 ± 0.00095	$\sigma_8\Omega_m^{0.25}$	0.5964	0.598 ± 0.017	z_{drag}	1059.36	1059.6 ± 1.5
$\boldsymbol{\tau}$	0.0603	0.060 ± 0.021	$\sigma_8/h^{0.5}$	0.9776	0.978 ± 0.025	r_{drag}	149.12	148.4 ± 4.4
$\boldsymbol{N_{eff}}$	2.896	$2.99^{+0.42}_{-0.50}$	$\langle d^2\rangle^{1/2}$	2.412	2.408 ± 0.058	k_D	0.13929	$0.1398^{+0.0029}_{-0.0033}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0412	3.043 ± 0.047	z_{re}	8.20	$8.11^{+2.3}_{-2.0}$	$100\theta_D$	0.16046	$0.1607^{+0.0011}_{-0.0012}$
$\boldsymbol{n_s}$	0.9705	0.973 ± 0.015	$10^9 A_s$	2.093	$2.099^{+0.094}_{-0.11}$	z_{eq}	3363	3356 ± 64
$\boldsymbol{y_{cal}}$	0.99998	1.0002 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8553	1.859 ± 0.029	k_{eq}	0.010160	$0.01019^{+0.00021}_{-0.00024}$
$\boldsymbol{A_{100}^{dustTE}}$	0.1374	0.136 ± 0.038	D_{40}	1207.4	1205 ± 26	$100\theta_{eq}$	0.8204	0.822 ± 0.012
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1325	0.133 ± 0.029	D_{220}	5683	5679 ± 56	$100\theta_{s,eq}$	0.4532	0.4539 ± 0.0062
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.303	0.303 ± 0.084	D_{810}	2529.4	2528 ± 27	$r_{drag}/D_V(0.57)$	0.07190	0.07201 ± 0.00090
$\boldsymbol{A_{143}^{dustTE}}$	0.151	0.153 ± 0.054	D_{1420}	819.3	818 ± 16	$H(0.57)$	92.19	$92.8^{+3.0}_{-3.6}$
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.332	0.335 ± 0.080	D_{2000}	232.6	231.9 ± 6.9	$D_A(0.57)$	1397	1389 ± 56
$\boldsymbol{A_{217}^{dustTE}}$	1.649	1.65 ± 0.25	$n_{s,0.002}$	0.9705	0.973 ± 0.015	$F_{AP}(0.57)$	0.67472	0.6743 ± 0.0043
$\boldsymbol{c_{100}}$	0.99927	0.9992 ± 0.0010	Y_P	0.2433	0.2444 ± 0.0063	$f\sigma_8(0.57)$	0.4648	0.466 ± 0.014
H_0	67.24	$67.8^{+2.9}_{-3.4}$	Y_P^{BBN}	0.2446	0.2457 ± 0.0063	$\sigma_8(0.57)$	0.5976	0.600 ± 0.021
Ω_Λ	0.6936	0.695 ± 0.017	10^5D/H	2.550	$2.57^{+0.11}_{-0.13}$	χ^2_{lowTEB}	10493.65	10494.7 ± 2.2
Ω_m	0.3064	0.305 ± 0.017	Age/Gyr	13.932	13.86 ± 0.45	χ^2_{plikTE}	931.46	939.4 ± 4.6
$\Omega_m h^2$	0.1385	$0.1399^{+0.0063}_{-0.0077}$	z_*	1089.45	$1089.60^{+0.77}_{-0.87}$	χ^2_{prior}	1.95	7.82 ± 3.6
$\Omega_m h^3$	0.0932	$0.0950^{+0.0077}_{-0.0099}$	r_*	146.41	145.7 ± 4.2	χ^2_{CMB}	11425.12	11434.2 ± 4.4

Best-fit $\chi^2_{eff} = 11427.06$; $\bar{\chi}^2_{eff} = 11441.99$; $R-1 = 0.00488$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.65 plik_dx11dr2_HM_v18_TE: 931.46

11.22 base_nnu_plikHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02383	$0.0244^{+0.0025}_{-0.0023}$	$\sigma_8\Omega_m^{0.5}$	0.4116	$0.414^{+0.031}_{-0.035}$	D_A/Gpc	14.15	$13.8^{+1.1}_{-1.5}$
$\boldsymbol{\Omega_c h^2}$	0.1093	$0.117^{+0.020}_{-0.023}$	$\sigma_8\Omega_m^{0.25}$	0.5685	0.576 ± 0.037	z_{drag}	1062.3	$1064.0^{+8.3}_{-6.6}$
$\boldsymbol{100\theta_{MC}}$	1.04058	$1.0401^{+0.0023}_{-0.0040}$	$\sigma_8/h^{0.5}$	0.9401	0.941 ± 0.045	r_{drag}	149.5	146^{+12}_{-18}
$\boldsymbol{\tau}$	0.0652	0.068 ± 0.022	$\langle d^2\rangle^{1/2}$	2.355	2.350 ± 0.090	k_D	0.1402	0.144 ± 0.011
$\boldsymbol{N_{eff}}$	2.83	$3.35^{+1.4}_{-1.6}$	z_{re}	8.19	$8.37^{+2.2}_{-2.0}$	$100\theta_D$	0.15839	0.1592 ± 0.0023
$\boldsymbol{\ln(10^{10}A_s)}$	3.064	$3.075^{+0.086}_{-0.068}$	$10^9 A_s$	2.141	2.17 ± 0.16	z_{eq}	3276	3261^{+120}_{-150}
$\boldsymbol{n_s}$	0.9825	$0.991^{+0.038}_{-0.033}$	$10^9 A_s e^{-2\tau}$	1.879	$1.89^{+0.12}_{-0.067}$	k_{eq}	0.00985	0.01008 ± 0.00070
$\boldsymbol{y_{cal}}$	1.00000	1.0000 ± 0.0025	D_{40}	1221.6	1218 ± 30	$100\theta_{eq}$	0.8403	0.846 ± 0.030
$\boldsymbol{A_{100}^{dustEE}}$	0.0827	0.0826 ± 0.0059	D_{220}	5963	5991 ± 260	$100\theta_{s,eq}$	0.4623	0.465 ± 0.014
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0501	0.0500 ± 0.0053	D_{810}	2593.0	2588 ± 42	$r_{drag}/D_V(0.57)$	0.07356	0.0741 ± 0.0026
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0982	0.099 ± 0.032	D_{1420}	850.0	842 ± 29	$H(0.57)$	93.3	97 ± 10
$\boldsymbol{A_{143}^{dustEE}}$	0.1010	0.1012 ± 0.0071	D_{2000}	244.3	240^{+14}_{-16}	$D_A(0.57)$	1364	1328^{+140}_{-210}
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2239	0.223 ± 0.047	$n_{s,0.002}$	0.9825	$0.991^{+0.038}_{-0.033}$	$F_{AP}(0.57)$	0.6665	$0.665^{+0.010}_{-0.014}$
$\boldsymbol{A_{217}^{dustEE}}$	0.641	0.65 ± 0.13	Y_P	0.2430	$0.248^{+0.023}_{-0.017}$	$f\sigma_8(0.57)$	0.4465	0.452 ± 0.029
H_0	69.8	73^{+10}_{-10}	Y_P^{BBN}	0.2443	$0.249^{+0.023}_{-0.017}$	$\sigma_8(0.57)$	0.593	0.608 ± 0.052
Ω_Λ	0.7251	$0.730^{+0.055}_{-0.034}$	10^5D/H	2.272	$2.34^{+0.24}_{-0.28}$	χ^2_{lowTEB}	10493.70	10494.9 ± 2.6
Ω_m	0.2749	$0.270^{+0.034}_{-0.055}$	Age/Gyr	13.84	$13.5^{+1.2}_{-1.8}$	χ^2_{plikEE}	750.93	759.4 ± 4.9
$\Omega_m h^2$	0.1337	$0.142^{+0.022}_{-0.025}$	z_*	1087.09	$1087.5^{+1.9}_{-2.2}$	χ^2_{prior}	4.15	8.36 ± 3.6
$\Omega_m h^3$	0.0933	$0.106^{+0.025}_{-0.038}$	r_*	147.3	144^{+11}_{-17}	χ^2_{CMB}	11244.62	11254.3 ± 4.8
σ_8	0.785	0.802 ± 0.059	$100\theta_*$	1.04075	$1.0400^{+0.0031}_{-0.0052}$			

Best-fit $\chi^2_{eff} = 11248.77$; $\bar{\chi}^2_{eff} = 11262.63$; $R-1 = 0.01533$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.69 plik_dx11dr2_HM_v18_EE: 750.93

11.23 base_nnu_CamSpecHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022417	0.02246 ± 0.00036 $(+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9677	0.969 ± 0.026 (-0.4σ)	$k_{\rm D}$	0.14005	0.1406 ± 0.0031 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1166	$0.1178^{+0.0064}_{-0.0073}$ $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.371	2.370 ± 0.059 (-0.7σ)	$100\theta_{\rm D}$	0.16093	0.1611 ± 0.0011 $(+0.4\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04127	$1.04119^{+0.00085}_{-0.00096}$ (-0.0σ)	$z_{\rm re}$	8.55	$8.61^{+2.3}_{-1.9}$ $(+0.2\sigma)$	$z_{\rm eq}$	3311	3304 ± 65 (-0.8σ)
$\boldsymbol{\tau}$	0.0637	0.066 ± 0.022 $(+0.2\sigma)$	$10^9 A_{\rm s}$	2.097	2.11 ± 0.10 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8303	0.832 ± 0.013 $(+0.8\sigma)$
$\boldsymbol{N_{\rm eff}}$	3.070	$3.16^{+0.44}_{-0.51}$ $(+0.4\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	1.8462	1.849 ± 0.035 (-0.3σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07265	0.07279 ± 0.00096 $(+0.9\sigma)$
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0432	3.048 ± 0.049 $(+0.1\sigma)$	D_{40}	1178.5	1177 ± 26 (-1.1σ)	$H(0.57)$	93.66	$94.3^{+3.2}_{-3.6}$ $(+0.5\sigma)$
$\boldsymbol{n_{\rm s}}$	0.9821	0.985 ± 0.016 $(+0.8\sigma)$	D_{220}	5623	5622 ± 77 (-1.0σ)	$D_{\rm A}(0.57)$	1369	1361 ± 55 (-0.5σ)
$\boldsymbol{y_{\rm cal}}$	1.00005	0.99999 ± 0.0025 (-0.1σ)	D_{810}	2511.8	2511 ± 37 (-0.6σ)	$F_{\rm AP}(0.57)$	0.67135	0.6708 ± 0.0044 (-0.8σ)
$\boldsymbol{c_{TE}}$	0.9983	0.9986 ± 0.0098	D_{1420}	813.4	812 ± 17 (-0.4σ)	$f\sigma_8(0.57)$	0.4626	0.464 ± 0.014 (-0.1σ)
H_0	69.01	$69.6^{+3.1}_{-3.5}$ $(+0.6\sigma)$	$n_{\rm s,0.002}$	0.9821	0.985 ± 0.016 $(+0.8\sigma)$	$\sigma_8(0.57)$	0.6025	0.606 ± 0.022 $(+0.3\sigma)$
Ω_Λ	0.7067	0.708 ± 0.017 $(+0.8\sigma)$	$Y_{\rm P}$	0.2453	0.2463 ± 0.0062 $(+0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.2466	0.2476 ± 0.0063 $(+0.3\sigma)$
$\Omega_{\rm m}$	0.2933	0.292 ± 0.017 (-0.8σ)	Age/Gyr	13.742	13.67 ± 0.45 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10492.09	10493.4 ± 1.7 (-0.6σ)
$\Omega_{\rm m} h^2$	0.1397	$0.1409^{+0.0066}_{-0.0076}$ $(+0.1\sigma)$	z_*	1089.57	1089.68 ± 0.80 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	2694.71	2700.6 ± 3.5
$\Omega_{\rm m} h^3$	0.0964	$0.0982^{+0.0082}_{-0.010}$ $(+0.4\sigma)$	r_*	145.16	144.6 ± 4.2 (-0.3σ)	$\chi^2_{\rm prior}$	10.06	12.0 ± 1.9 $(+1.1\sigma)$
σ_8	0.8038	0.808 ± 0.026 $(+0.1\sigma)$	$100\theta_*$	1.04145	1.0413 ± 0.0012 (-0.1σ)	$\chi^2_{\rm CMB}$	13186.80	13193.9 ± 3.8 $(+397.4\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4353	0.436 ± 0.015 (-0.5σ)	$z_{\rm drag}$	1059.82	1060.0 ± 1.5 $(+0.3\sigma)$			
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5916	0.593 ± 0.018 (-0.3σ)	$r_{\rm drag}$	147.82	147.2 ± 4.4 (-0.3σ)			

Best-fit $\chi^2_{\rm eff} = 13196.85$; $\Delta\chi^2_{\rm eff} = 1769.79$; $\bar{\chi}^2_{\rm eff} = 13205.90$; $\Delta\bar{\chi}^2_{\rm eff} = 1763.91$; $R - 1 = 0.00676$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.09 (Δ -1.57) CamSpec like_v9.10CMH_unified: 2694.71

11.24 base_nnu_CamSpecHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02478	$0.0251^{+0.0022}_{-0.0019}$ $(+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9449	0.943 ± 0.039 $(+0.1\sigma)$	$k_{\rm D}$	0.1462	$0.148^{+0.010}_{-0.0094}$ $(+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1207	0.126 ± 0.018 $(+0.4\sigma)$	$\langle d^2\rangle^{1/2}$	2.370	2.362 ± 0.082 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.15906	0.1596 ± 0.0018 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.03902	$1.0388^{+0.0017}_{-0.0028}$ (-0.4σ)	$z_{\rm re}$	8.16	$8.15^{+2.3}_{-1.9}$ (-0.1σ)	$z_{\rm eq}$	3282	3271^{+100}_{-130} $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0641	0.065 ± 0.022 (-0.1σ)	$10^9 A_{\rm s}$	2.183	2.20 ± 0.15 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8411	0.845 ± 0.027 (-0.0σ)
$\boldsymbol{N_{\rm eff}}$	3.49	3.85 ± 1.2 $(+0.3\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	1.920	$1.927^{+0.093}_{-0.058}$ $(+0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07368	0.0741 ± 0.0023 (-0.0σ)
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.083	$3.087^{+0.074}_{-0.062}$ $(+0.2\sigma)$	D_{40}	1236.6	1232 ± 28 $(+0.5\sigma)$	$H(0.57)$	98.1	100.7 ± 9.6 $(+0.3\sigma)$
$\boldsymbol{n_{\rm s}}$	0.9867	$0.993^{+0.032}_{-0.028}$ $(+0.1\sigma)$	D_{220}	6040	6051^{+250}_{-220} $(+0.2\sigma)$	$D_{\rm A}(0.57)$	1294	1272^{+110}_{-170} (-0.3σ)
$\boldsymbol{y_{\rm cal}}$	1.00012	1.0001 ± 0.0025 $(+0.0\sigma)$	D_{810}	2576.1	2571 ± 42 (-0.4σ)	$F_{\rm AP}(0.57)$	0.6649	$0.6638^{+0.0088}_{-0.012}$ (-0.1σ)
$\boldsymbol{c_{EE}}$	0.9979	0.998 ± 0.010	D_{1420}	832.1	827 ± 23 (-0.5σ)	$f\sigma_8(0.57)$	0.4594	0.462 ± 0.024 $(+0.3\sigma)$
H_0	73.7	76 ± 9 $(+0.3\sigma)$	$n_{\rm s,0.002}$	0.9867	$0.993^{+0.032}_{-0.028}$ $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6143	0.623 ± 0.044 $(+0.3\sigma)$
Ω_Λ	0.7309	$0.734^{+0.046}_{-0.030}$ $(+0.1\sigma)$	$Y_{\rm P}$	0.2517	$0.255^{+0.018}_{-0.014}$ $(+0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.2530	$0.256^{+0.018}_{-0.014}$ $(+0.4\sigma)$
$\Omega_{\rm m}$	0.2691	$0.266^{+0.030}_{-0.046}$ (-0.1σ)	Age/Gyr	13.18	$12.98^{+0.96}_{-1.4}$ (-0.4σ)	$\chi^2_{\rm lowTEB}$	10494.28	10495.3 ± 2.6 $(+0.2\sigma)$
$\Omega_{\rm m} h^2$	0.1462	0.152 ± 0.019 $(+0.4\sigma)$	z_*	1087.60	1087.9 ± 1.6 $(+0.2\sigma)$	$\chi^2_{\rm CamSpec}$	2187.02	2193.0 ± 4.0
$\Omega_{\rm m} h^3$	0.1077	$0.117^{+0.025}_{-0.032}$ $(+0.4\sigma)$	r_*	140.3	$138.4^{+9.0}_{-13}$ (-0.4σ)	$\chi^2_{\rm prior}$	10.08	12.1 ± 2.1 $(+1.1\sigma)$
σ_8	0.8112	0.821 ± 0.049 $(+0.3\sigma)$	$100\theta_*$	1.03871	$1.0383^{+0.0024}_{-0.0038}$ (-0.4σ)	$\chi^2_{\rm CMB}$	12681.30	12688.3 ± 3.7 $(+300.3\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4208	$0.421^{+0.026}_{-0.030}$ $(+0.2\sigma)$	$z_{\rm drag}$	1065.7	$1066.7^{+6.8}_{-5.3}$ $(+0.4\sigma)$			
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5842	0.588 ± 0.030 $(+0.3\sigma)$	$r_{\rm drag}$	142.2	$140.2^{+9.4}_{-13}$ (-0.4σ)			

Best-fit $\chi^2_{\rm eff} = 12691.38$; $\Delta\chi^2_{\rm eff} = 1442.61$; $\bar{\chi}^2_{\rm eff} = 12700.44$; $\Delta\bar{\chi}^2_{\rm eff} = 1437.81$; $R - 1 = 0.00829$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.28 (Δ 0.59) CamSpec like_v9.10CMH_unified: 2187.02

11.25 base_nnu_plikHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.021936	0.02199 ± 0.00040	σ_8	0.7865	$0.787^{+0.023}_{-0.026}$	$100\theta_*$	1.04238	1.0423 ± 0.0014
$\boldsymbol{\Omega_c h^2}$	0.1121	$0.1130^{+0.0061}_{-0.0076}$	$\sigma_8\Omega_m^{0.5}$	0.4483	0.448 ± 0.015	D_A/Gpc	14.340	14.30 ± 0.43
$\boldsymbol{100\theta_{MC}}$	1.04183	1.0418 ± 0.0010	$\sigma_8\Omega_m^{0.25}$	0.5938	0.594 ± 0.016	z_{drag}	1057.95	1058.2 ± 1.7
$\boldsymbol{\tau}$	0.0537	0.052 ± 0.019	$\sigma_8/h^{0.5}$	0.9803	0.979 ± 0.024	r_{drag}	152.36	151.9 ± 4.8
$\boldsymbol{N_{eff}}$	2.558	$2.63^{+0.42}_{-0.52}$	$\langle d^2\rangle^{1/2}$	2.456	2.448 ± 0.064	k_D	0.13705	$0.1375^{+0.0031}_{-0.0035}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0181	3.016 ± 0.044	z_{re}	7.53	$7.21^{+2.3}_{-1.8}$	$100\theta_D$	0.15985	$0.1600^{+0.0011}_{-0.0013}$
$\boldsymbol{n_s}$	0.9483	0.951 ± 0.019	$10^9 A_s$	2.045	$2.043^{+0.087}_{-0.099}$	z_{eq}	3426	3422 ± 74
$\boldsymbol{y_{cal}}$	0.99954	0.99999 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8369	1.841 ± 0.033	k_{eq}	0.010110	0.01014 ± 0.00022
$\boldsymbol{A_{100}^{dustTE}}$	0.1447	0.137 ± 0.038	D_{40}	1245.7	1244 ± 33	$100\theta_{eq}$	0.8081	0.809 ± 0.014
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1360	0.133 ± 0.029	D_{220}	5713	5715 ± 59	$100\theta_{s,eq}$	0.4470	0.4475 ± 0.0069
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.315	0.303 ± 0.085	D_{810}	2523.5	2526 ± 28	$r_{drag}/D_V(0.57)$	0.07098	0.07107 ± 0.00099
$\boldsymbol{A_{143}^{dustTE}}$	0.156	0.154 ± 0.054	D_{1420}	816.9	817 ± 16	$H(0.57)$	89.49	$90.0^{+3.2}_{-3.8}$
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.344	0.337 ± 0.080	D_{2000}	232.6	232.6 ± 6.9	$D_A(0.57)$	1450	1444 ± 64
$\boldsymbol{A_{217}^{dustTE}}$	1.701	1.65 ± 0.26	$n_{s,0.002}$	0.9483	0.951 ± 0.019	$F_{AP}(0.57)$	0.6794	0.6791 ± 0.0051
$\boldsymbol{c_{100}}$	0.99908	0.9992 ± 0.0010	Y_P	0.2383	0.2391 ± 0.0069	$f\sigma_8(0.57)$	0.4605	0.460 ± 0.013
H_0	64.37	$64.8^{+3.1}_{-3.6}$	Y_P^{BBN}	0.2396	0.2404 ± 0.0069	$\sigma_8(0.57)$	0.5820	$0.583^{+0.019}_{-0.022}$
Ω_Λ	0.6750	$0.676^{+0.022}_{-0.020}$	10^5D/H	2.500	$2.51^{+0.11}_{-0.13}$	χ^2_{lowEB}	5430.74	5431.7 ± 1.1
Ω_m	0.3250	$0.324^{+0.020}_{-0.022}$	Age/Gyr	14.31	14.26 ± 0.51	χ^2_{plikTE}	930.16	938.1 ± 4.3
$\Omega_m h^2$	0.1346	$0.1356^{+0.0064}_{-0.0078}$	z_*	1089.26	$1089.34^{+0.75}_{-0.88}$	χ^2_{prior}	1.73	7.79 ± 3.6
$\Omega_m h^3$	0.0867	$0.0881^{+0.0076}_{-0.010}$	r_*	149.48	149.0 ± 4.6	χ^2_{CMB}	6360.90	6369.8 ± 4.4

Best-fit $\chi^2_{eff} = 6362.64$; $\bar{\chi}^2_{eff} = 6377.60$; $R - 1 = 0.00720$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.74 plik_dx11dr2_HM_v18_TE: 930.16

11.26 base_nnu_plikHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.01826	$0.0212^{+0.0018}_{-0.0030}$	$\sigma_8\Omega_m^{0.5}$	0.4527	$0.438^{+0.036}_{-0.041}$	D_A/Gpc	17.67	$15.7^{+1.9}_{-0.89}$
$\boldsymbol{\Omega_c h^2}$	0.0748	$0.0947^{+0.0084}_{-0.021}$	$\sigma_8\Omega_m^{0.25}$	0.5578	0.569 ± 0.033	z_{drag}	1042.9	$1053.5^{+6.0}_{-10}$
$\boldsymbol{100\theta_{MC}}$	1.05075	$1.0447^{+0.0049}_{-0.0035}$	$\sigma_8/h^{0.5}$	1.008	0.976 ± 0.052	r_{drag}	191.3	168^{+20}_{-10}
$\boldsymbol{\tau}$	0.0496	0.055 ± 0.019	$\langle d^2\rangle^{1/2}$	2.594	$2.49^{+0.13}_{-0.11}$	k_D	0.1138	$0.1283^{+0.0062}_{-0.014}$
$\boldsymbol{N_{eff}}$	0.05	< 1.83	z_{re}	6.89	$7.22^{+2.0}_{-1.7}$	$100\theta_D$	0.15627	$0.1574^{+0.0017}_{-0.0022}$
$\boldsymbol{\ln(10^{10}A_s)}$	2.856	$2.972^{+0.072}_{-0.10}$	$10^9 A_s$	1.738	$1.96^{+0.13}_{-0.21}$	z_{eq}	3718	3509^{+210}_{-150}
$\boldsymbol{n_s}$	0.8685	$0.923^{+0.028}_{-0.053}$	$10^9 A_s e^{-2\tau}$	1.574	$1.754^{+0.095}_{-0.16}$	k_{eq}	0.00878	$0.00947^{+0.00040}_{-0.00072}$
$\boldsymbol{y_{cal}}$	1.00008	1.0000 ± 0.0025	D_{40}	1286.7	1276 ± 42	$100\theta_{eq}$	0.7557	$0.795^{+0.026}_{-0.043}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0776	0.0791 ± 0.0061	D_{220}	5477	5778^{+270}_{-310}	$100\theta_{s,eq}$	0.4220	$0.440^{+0.013}_{-0.020}$
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0443	0.0460 ± 0.0057	D_{810}	2564.1	2578 ± 41	$r_{drag}/D_V(0.57)$	0.06769	$0.0703^{+0.0019}_{-0.0033}$
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0991	0.099 ± 0.032	D_{1420}	869.9	855^{+27}_{-24}	$H(0.57)$	69.6	$82.0^{+4.8}_{-13}$
$\boldsymbol{A^{dustEE}_{143}}$	0.0953	0.0970 ± 0.0075	D_{2000}	260.7	250^{+14}_{-11}	$D_A(0.57)$	1932	1625^{+300}_{-200}
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2220	0.224 ± 0.047	$n_{s,0.002}$	0.8685	$0.923^{+0.028}_{-0.053}$	$F_{AP}(0.57)$	0.7045	$0.686^{+0.019}_{-0.015}$
$\boldsymbol{A^{dustEE}_{217}}$	0.643	0.65 ± 0.13	Y_P	0.1937	$0.220^{+0.011}_{-0.026}$	$f\sigma_8(0.57)$	0.4179	$0.437^{+0.023}_{-0.026}$
H_0	46.5	$58.2^{+5.0}_{-12}$	Y_P^{BBN}	0.1948	$0.221^{+0.011}_{-0.026}$	$\sigma_8(0.57)$	0.4898	$0.543^{+0.025}_{-0.058}$
Ω_Λ	0.566	0.643 ± 0.068	10^5D/H	2.174	$2.25^{+0.21}_{-0.24}$	χ^2_{lowEB}	5430.73	5431.7 ± 1.4
Ω_m	0.434	0.357 ± 0.068	Age/Gyr	18.24	$15.8^{+2.3}_{-1.1}$	χ^2_{plikEE}	746.48	756.1 ± 4.7
$\Omega_m h^2$	0.0937	$0.1165^{+0.0092}_{-0.024}$	z_*	1087.28	1087.4 ± 1.8	χ^2_{prior}	2.90	7.43 ± 3.4
$\Omega_m h^3$	0.0435	$0.0696^{+0.0086}_{-0.028}$	r_*	186.2	164^{+20}_{-10}	χ^2_{CMB}	6177.21	6187.8 ± 4.9
σ_8	0.6872	$0.740^{+0.035}_{-0.061}$	$100\theta_*$	1.0539	$1.0462^{+0.0065}_{-0.0040}$			

Best-fit $\chi^2_{eff} = 6180.11$; $\bar{\chi}^2_{eff} = 6195.27$; $R - 1 = 0.01852$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.73 plik_dx11dr2_HM_v18_EE: 746.48

11.27 base_nnu_CamSpecHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022194	0.02226 ± 0.00040 $(+0.7\sigma)$	$\sigma_8/h^{0.5}$	0.9638	0.963 ± 0.025 (-0.6σ)	k_D	0.13859	0.1393 ± 0.0033 $(+0.6\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1141	$0.1158^{+0.0067}_{-0.0075}$ $(+0.4\sigma)$	$\langle d^2\rangle^{1/2}$	2.384	2.378 ± 0.065 (-1.1σ)	$100\theta_D$	0.16051	0.1608 ± 0.0012 $(+0.7\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04158	$1.04147^{+0.00090}_{-0.0010}$ (-0.3σ)	z_{re}	7.61	$7.49^{+2.3}_{-1.9}$ $(+0.1\sigma)$	z_{eq}	3347	3337 ± 73 (-1.2σ)
$\boldsymbol{\tau}$	0.0544	0.054 ± 0.020 $(+0.1\sigma)$	$10^9 A_s$	2.049	$2.056^{+0.091}_{-0.10}$ $(+0.1\sigma)$	$100\theta_{eq}$	0.8232	0.825 ± 0.014 $(+1.2\sigma)$
$\boldsymbol{N_{eff}}$	2.85	2.97 ± 0.50 $(+0.7\sigma)$	$10^9 A_s e^{-2\tau}$	1.8379	1.843 ± 0.036 $(+0.1\sigma)$	$r_{drag}/D_V(0.57)$	0.07211	0.0723 ± 0.0010 $(+1.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0200	3.022 ± 0.046 $(+0.1\sigma)$	D_{40}	1200.7	1198 ± 35 (-1.4σ)	$H(0.57)$	91.91	92.8 ± 3.6 $(+0.8\sigma)$
$\boldsymbol{n_s}$	0.9687	0.972 ± 0.019 $(+1.1\sigma)$	D_{220}	5652	5652 ± 84 (-1.1σ)	$D_A(0.57)$	1400	1388^{+60}_{-68} (-0.9σ)
$\boldsymbol{y_{cal}}$	0.99992	1.0000 ± 0.0025 $(+0.0\sigma)$	D_{810}	2513.3	2513 ± 37 (-0.5σ)	$F_{AP}(0.57)$	0.67397	0.6733 ± 0.0050 (-1.1σ)
$\boldsymbol{c_{TE}}$	0.9998	1.000 ± 0.010	D_{1420}	814.1	813 ± 17 (-0.3σ)	$f\sigma_8(0.57)$	0.4573	0.458 ± 0.013 (-0.2σ)
H_0	67.19	68.0 ± 3.5 $(+0.9\sigma)$	$n_{s,0.002}$	0.9687	0.972 ± 0.019 $(+1.1\sigma)$	$\sigma_8(0.57)$	0.5896	$0.593^{+0.020}_{-0.022}$ $(+0.5\sigma)$
Ω_Λ	0.6966	$0.699^{+0.021}_{-0.018}$ $(+1.1\sigma)$	Y_P	0.2422	0.2436 ± 0.0068 $(+0.7\sigma)$	Y_P^{BBN}	0.2435	0.2450 ± 0.0069 $(+0.7\sigma)$
Ω_m	0.3034	$0.301^{+0.018}_{-0.021}$ (-1.1σ)	Age/Gyr	13.98	13.88 ± 0.50 (-0.8σ)	χ^2_{lowEB}	5430.76	5431.7 ± 1.2 $(+0.0\sigma)$
$\Omega_m h^2$	0.1370	$0.1387^{+0.0070}_{-0.0078}$ $(+0.4\sigma)$	z_*	1089.41	1089.57 ± 0.81 $(+0.3\sigma)$	$\chi^2_{CamSpec}$	2694.24	2700.3 ± 3.5
$\Omega_m h^3$	0.0920	$0.0945^{+0.0088}_{-0.011}$ $(+0.7\sigma)$	r_*	147.15	146.2 ± 4.6 (-0.6σ)	χ^2_{prior}	10.03	12.0 ± 2.0 $(+1.2\sigma)$
σ_8	0.7900	0.794 ± 0.025 $(+0.3\sigma)$	$100\theta_*$	1.04193	$1.0417^{+0.0012}_{-0.0014}$ (-0.4σ)	χ^2_{CMB}	8125.01	8132.1 ± 3.8 $(+400.0\sigma)$
$\sigma_8\Omega_m^{0.5}$	0.4351	0.435 ± 0.015 (-0.8σ)	z_{drag}	1058.94	1059.3 ± 1.7 $(+0.7\sigma)$			
$\sigma_8\Omega_m^{0.25}$	0.5863	0.588 ± 0.017 (-0.4σ)	r_{drag}	149.91	149.0 ± 4.8 (-0.6σ)			

Best-fit $\chi^2_{eff} = 8135.04$; $\Delta\chi^2_{eff} = 1772.40$; $\bar{\chi}^2_{eff} = 8144.09$; $\Delta\bar{\chi}^2_{eff} = 1766.49$; $R - 1 = 0.00592$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.76 (Δ 0.02) CamSpec like_v9.10CMH_unified: 2694.24

11.28 base_nnu_CamSpecHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02305	$0.0219^{+0.0020}_{-0.0028}$ $(+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9610	0.975 ± 0.043 (-0.0σ)	k_D	0.1367	$0.1321^{+0.0080}_{-0.014}$ $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1053	$0.101^{+0.011}_{-0.022}$ $(+0.3\sigma)$	$\langle d^2\rangle^{1/2}$	2.457	2.49 ± 0.10 (-0.0σ)	$100\theta_D$	0.15737	$0.1575^{+0.0014}_{-0.0020}$ $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04149	1.0433 ± 0.0036 (-0.4σ)	z_{re}	7.27	$6.98^{+2.1}_{-1.7}$ (-0.1σ)	z_{eq}	3425	3503 ± 160 (-0.0σ)
$\boldsymbol{\tau}$	0.0551	0.052 ± 0.018 (-0.1σ)	$10^9 A_s$	2.069	$1.99^{+0.16}_{-0.18}$ $(+0.2\sigma)$	$100\theta_{eq}$	0.8109	$0.797^{+0.028}_{-0.038}$ $(+0.0\sigma)$
$\boldsymbol{N_{eff}}$	2.27	< 2.29 $(+0.3\sigma)$	$10^9 A_s e^{-2\tau}$	1.853	1.79 ± 0.11 $(+0.3\sigma)$	$r_{drag}/D_V(0.57)$	0.07134	$0.0704^{+0.0020}_{-0.0029}$ $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.030	2.987 ± 0.081 $(+0.2\sigma)$	D_{40}	1287.5	1283 ± 35 $(+0.2\sigma)$	$H(0.57)$	88.3	$84.7^{+6.1}_{-13}$ $(+0.3\sigma)$
$\boldsymbol{n_s}$	0.9439	$0.928^{+0.034}_{-0.048}$ $(+0.1\sigma)$	D_{220}	5990	5836 ± 260 $(+0.2\sigma)$	$D_A(0.57)$	1463	1567^{+200}_{-200} (-0.3σ)
$\boldsymbol{y_{cal}}$	1.00016	0.99996 ± 0.0025 (-0.0σ)	D_{810}	2587.7	2570 ± 42 (-0.2σ)	$F_{AP}(0.57)$	0.6768	0.684 ± 0.015 (-0.1σ)
$\boldsymbol{c_{EE}}$	1.0011	1.000 ± 0.010	D_{1420}	848.1	847 ± 22 (-0.3σ)	$f\sigma_8(0.57)$	0.4480	$0.443^{+0.021}_{-0.025}$ $(+0.3\sigma)$
H_0	64.0	$60.3^{+6.3}_{-13}$ $(+0.2\sigma)$	$n_{s,0.002}$	0.9439	$0.928^{+0.034}_{-0.048}$ $(+0.1\sigma)$	$\sigma_8(0.57)$	0.5715	$0.554^{+0.034}_{-0.058}$ $(+0.2\sigma)$
Ω_Λ	0.685	$0.652^{+0.069}_{-0.060}$ $(+0.1\sigma)$	Y_P	0.2342	$0.226^{+0.016}_{-0.025}$ $(+0.3\sigma)$	Y_P^{BBN}	0.2355	$0.227^{+0.016}_{-0.025}$ $(+0.3\sigma)$
Ω_m	0.315	$0.348^{+0.060}_{-0.069}$ (-0.1σ)	Age/Gyr	14.52	$15.3^{+1.9}_{-1.5}$ (-0.3σ)	χ^2_{lowEB}	5430.72	5431.6 ± 1.2 (-0.1σ)
$\Omega_m h^2$	0.1290	$0.123^{+0.012}_{-0.024}$ $(+0.3\sigma)$	z_*	1087.04	$1087.4^{+1.4}_{-1.6}$ $(+0.0\sigma)$	$\chi^2_{CamSpec}$	2184.18	2189.1 ± 3.5
$\Omega_m h^3$	0.0826	$0.076^{+0.011}_{-0.030}$ $(+0.3\sigma)$	r_*	152.2	159^{+17}_{-14} (-0.3σ)	χ^2_{prior}	10.04	12.0 ± 2.0 $(+1.4\sigma)$
σ_8	0.7690	$0.753^{+0.039}_{-0.060}$ $(+0.3\sigma)$	$100\theta_*$	1.04210	1.0445 ± 0.0046 (-0.3σ)	χ^2_{CMB}	7614.91	7620.8 ± 3.7 $(+293.4\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4313	$0.441^{+0.028}_{-0.033}$ $(+0.1\sigma)$	z_{drag}	1059.8	$1056.0^{+7.0}_{-9.0}$ $(+0.3\sigma)$			
$\sigma_8 \Omega_m^{0.25}$	0.5759	$0.576^{+0.027}_{-0.030}$ $(+0.2\sigma)$	r_{drag}	154.7	162^{+20}_{-10} (-0.3σ)			

Best-fit $\chi^2_{eff} = 7624.95$; $\Delta\chi^2_{eff} = 1444.84$; $\bar{\chi}^2_{eff} = 7632.82$; $\Delta\bar{\chi}^2_{eff} = 1437.55$; $R - 1 = 0.00783$
χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.72 (Δ -0.01) CamSpec like_v9.10CMH_unified: 2184.18

11.29 base_nnu_plikHM_TT_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.021697	0.02176 ± 0.00038	Ω_m	0.3532	0.349 ± 0.025	D_A/Gpc	14.267	14.18 ± 0.27
$\boldsymbol{\Omega_c h^2}$	0.11591	$0.1171^{+0.0039}_{-0.0044}$	$\Omega_m h^2$	0.13825	$0.1395^{+0.0041}_{-0.0046}$	z_{drag}	1057.64	1058.0 ± 1.3
$\boldsymbol{100\theta_{MC}}$	1.04125	1.04112 ± 0.00060	$\Omega_m h^3$	0.0865	$0.0885^{+0.0055}_{-0.0069}$	r_{drag}	151.58	150.7 ± 3.1
$\boldsymbol{\tau}$	0.0588	0.060 ± 0.019	σ_8	0.8058	$0.809^{+0.019}_{-0.022}$	k_D	0.13768	0.1383 ± 0.0021
$\boldsymbol{N_{eff}}$	2.551	$2.66^{+0.29}_{-0.35}$	$\sigma_8\Omega_m^{0.5}$	0.4789	0.477 ± 0.015	$100\theta_D$	0.15994	$0.16022^{+0.00069}_{-0.00078}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0401	3.044 ± 0.042	$\sigma_8\Omega_m^{0.25}$	0.6212	0.621 ± 0.013	z_{eq}	3522	3504 ± 82
$\boldsymbol{n_s}$	0.9376	0.941 ± 0.017	$\sigma_8/h^{0.5}$	1.0187	1.017 ± 0.019	k_{eq}	0.010387	0.01041 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00023	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.551	2.542 ± 0.054	$100\theta_{eq}$	0.7906	0.794 ± 0.015
$\boldsymbol{A_{217}^{CIB}}$	62.5	62.9 ± 6.8	z_{re}	8.16	$8.15^{+2.0}_{-1.8}$	$100\theta_{s,eq}$	0.4380	0.4398 ± 0.0075
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.42	—	$10^9 A_s$	2.091	$2.102^{+0.081}_{-0.097}$	$r_{drag}/D_V(0.57)$	0.06959	$0.0699^{+0.0011}_{-0.0012}$
$\boldsymbol{A_{143}^{tSZ}}$	6.98	5.30 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8589	1.864 ± 0.024	$H(0.57)$	88.79	$89.6^{+2.3}_{-2.8}$
$\boldsymbol{A_{100}^{PS}}$	244.9	255 ± 30	D_{40}	1276.3	1273 ± 27	$D_A(0.57)$	1476	1462 ± 53
$\boldsymbol{A_{143}^{PS}}$	41.6	42 ± 8	D_{220}	5717.7	5720 ± 41	$F_{AP}(0.57)$	0.6863	0.6851 ± 0.0060
$\boldsymbol{A_{143\times217}^{PS}}$	42.7	38 ± 10	D_{810}	2531.1	2531 ± 14	$f\sigma_8(0.57)$	0.4779	0.479 ± 0.010
$\boldsymbol{A_{217}^{PS}}$	102.2	97 ± 10	D_{1420}	815.9	814.3 ± 5.2	$\sigma_8(0.57)$	0.5901	$0.594^{+0.017}_{-0.020}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.20	D_{2000}	232.23	231.2 ± 2.3	f_{2000}^{143}	27.26	29 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.24	7.22 ± 1.9	$n_{s,0.002}$	0.9376	0.941 ± 0.017	$f_{2000}^{143\times217}$	30.52	31.4 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	8.96	8.90 ± 1.9	Y_P	0.23811	0.2396 ± 0.0047	f_{2000}^{217}	104.15	105.1 ± 2.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.94	17.0 ± 4.2	Y_P^{BBN}	0.23941	0.2409 ± 0.0047	χ^2_{lowEB}	5430.94	5431.9 ± 1.6
$\boldsymbol{A_{217}^{dustTT}}$	82.8	81.9 ± 7.4	10^5D/H	2.543	$2.569^{+0.069}_{-0.077}$	χ^2_{plik}	762.3	777.0 ± 5.5
$\boldsymbol{c_{100}}$	0.99797	0.99792 ± 0.00077	Age/Gyr	14.382	14.27 ± 0.37	χ^2_{prior}	1.67	7.17 ± 3.5
$\boldsymbol{c_{217}}$	0.99569	0.9958 ± 0.0015	z_*	1089.912	1090.05 ± 0.49	χ^2_{CMB}	6193.3	6208.9 ± 5.7
H_0	62.57	$63.4^{+2.6}_{-3.1}$	r_*	148.63	147.8 ± 2.9			
Ω_Λ	0.6468	0.651 ± 0.025	$100\theta_*$	1.04182	1.04163 ± 0.00077			

Best-fit $\chi^2_{eff} = 6194.93$; $\bar{\chi}^2_{eff} = 6216.10$; $R - 1 = 0.01012$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.94 plik_dx11dr2_HM_v18_TT: 762.32

11.30 base_nnu_plikHM_TTTEEE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.021959	0.02199 ± 0.00025	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.305 ± 0.085	Age/Gyr	14.127	14.07 ± 0.23
$\boldsymbol{\Omega_c h^2}$	0.11671	0.1176 ± 0.0031	$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.157 ± 0.054	z_*	1089.863	1089.95 ± 0.36
$\boldsymbol{100\theta_{MC}}$	1.041135	1.04104 ± 0.00045	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.340	0.341 ± 0.081	r_*	147.09	146.6 ± 2.0
$\boldsymbol{\tau}$	0.0671	0.068 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.666	1.68 ± 0.26	$100\theta_*$	1.04155	1.04141 ± 0.00057
$\boldsymbol{N_{eff}}$	2.759	2.82 ± 0.21	$\boldsymbol{c_{100}}$	0.99828	0.99821 ± 0.00078	D_A/Gpc	14.122	14.07 ± 0.18
$\boldsymbol{\ln(10^{10}A_s)}$	3.0611	3.065 ± 0.036	$\boldsymbol{c_{217}}$	0.99578	0.9959 ± 0.0014	z_{drag}	1058.52	1058.69 ± 0.89
$\boldsymbol{n_s}$	0.9500	0.952 ± 0.010	H_0	64.89	65.3 ± 1.6	r_{drag}	149.93	149.4 ± 2.1
$\boldsymbol{y_{cal}}$	1.00025	1.0003 ± 0.0025	Ω_Λ	0.6691	0.671 ± 0.013	k_D	0.13873	0.1391 ± 0.0015
$\boldsymbol{A^{CIB}_{217}}$	63.4	63.4 ± 6.6	Ω_m	0.3309	0.329 ± 0.013	$100\theta_D$	0.160355	0.16050 ± 0.00044
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.42	—	$\Omega_m h^2$	0.13932	0.1402 ± 0.0032	z_{eq}	3446.9	3440 ± 43
$\boldsymbol{A^{tSZ}_{143}}$	6.95	$5.35^{+2.1}_{-1.9}$	$\Omega_m h^3$	0.09040	0.0916 ± 0.0040	k_{eq}	0.010315	0.01034 ± 0.00012
$\boldsymbol{A^{PS}_{100}}$	251.5	260 ± 28	σ_8	0.8131	0.816 ± 0.017	$100\theta_{eq}$	0.8042	0.8055 ± 0.0080
$\boldsymbol{A^{PS}_{143}}$	43.5	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4678	0.4680 ± 0.0099	$100\theta_{s,eq}$	0.44495	0.4456 ± 0.0040
$\boldsymbol{A^{PS}_{143\times217}}$	44.2	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6167	0.618 ± 0.011	$r_{drag}/D_V(0.57)$	0.07062	0.07071 ± 0.00061
$\boldsymbol{A^{PS}_{217}}$	102.6	98 ± 10	$\sigma_8/h^{0.5}$	1.0095	1.010 ± 0.016	$H(0.57)$	90.61	91.0 ± 1.6
$\boldsymbol{A^{kSZ}}$	0.00	< 4.04	$\langle d^2\rangle^{1/2}$	2.5184	2.518 ± 0.040	$D_A(0.57)$	1434.9	1428 ± 30
$\boldsymbol{A^{dustTT}_{100}}$	7.27	7.28 ± 1.9	z_{re}	8.94	8.98 ± 1.6	$F_{AP}(0.57)$	0.68088	0.6804 ± 0.0031
$\boldsymbol{A^{dustTT}_{143}}$	8.80	8.83 ± 1.8	$10^9 A_s$	2.135	2.144 ± 0.077	$f\sigma_8(0.57)$	0.4775	0.4786 ± 0.0090
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.68	16.9 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8672	1.870 ± 0.018	$\sigma_8(0.57)$	0.6004	0.603 ± 0.014
$\boldsymbol{A^{dustTT}_{217}}$	82.2	81.7 ± 7.4	D_{40}	1259.7	1259 ± 18	f^{143}_{2000}	28.05	29.1 ± 2.9
$\boldsymbol{A^{dustEE}_{100}}$	0.0799	0.0801 ± 0.0057	D_{220}	5734.9	5736 ± 39	$f^{143\times217}_{2000}$	31.27	31.8 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0474	0.0476 ± 0.0051	D_{810}	2534.1	2533 ± 14	f^{217}_{2000}	104.80	105.5 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0994	0.100 ± 0.033	D_{1420}	815.77	814.5 ± 4.8	χ^2_{lowEB}	5431.43	5432.3 ± 1.8
$\boldsymbol{A^{dustEE}_{143}}$	0.0986	0.0989 ± 0.0070	D_{2000}	231.48	230.8 ± 1.8	χ^2_{plik}	2431.5	2451.2 ± 6.8
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2257	0.225 ± 0.047	$n_{s,0.002}$	0.9500	0.952 ± 0.010	χ^2_{prior}	6.12	18.8 ± 5.4
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.66 ± 0.13	Y_P	0.24121	0.2420 ± 0.0030	χ^2_{CMB}	7862.9	7883.5 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1408	0.141 ± 0.038	Y_P^{BBN}	0.24252	0.2434 ± 0.0030			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1315	0.131 ± 0.029	10^5D/H	2.5676	2.582 ± 0.047			

Best-fit $\chi^2_{eff} = 7869.05$; $\bar{\chi}^2_{eff} = 7902.25$; $R - 1 = 0.01108$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5431.43 plik_dx11dr2_HM_v18_TTTEEE: 2431.50

11.31 base_nnu_plikHM_TT_tau07

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.021842	0.02191 ± 0.00038	Ω_Λ	0.6575	$0.661^{+0.026}_{-0.023}$	r_*	147.89	147.1 ± 3.0
$\boldsymbol{\Omega_c h^2}$	0.11631	0.1173 ± 0.0042	Ω_m	0.3425	$0.339^{+0.023}_{-0.026}$	$100\theta_*$	1.04172	1.04158 ± 0.00077
$\boldsymbol{100\theta_{MC}}$	1.04122	1.04114 ± 0.00060	$\Omega_m h^2$	0.13879	$0.1399^{+0.0042}_{-0.0047}$	D_A/Gpc	14.196	14.13 ± 0.28
$\boldsymbol{\tau}$	0.0774	0.077 ± 0.019	$\Omega_m h^3$	0.0884	$0.0902^{+0.0059}_{-0.0069}$	z_{drag}	1058.10	1058.4 ± 1.3
$\boldsymbol{N_{eff}}$	2.647	$2.74^{+0.31}_{-0.35}$	σ_8	0.8213	0.823 ± 0.021	r_{drag}	150.77	150.0 ± 3.1
$\boldsymbol{\ln(10^{10} A_s)}$	3.0789	3.080 ± 0.042	$\sigma_8 \Omega_m^{0.5}$	0.4806	0.479 ± 0.014	k_D	0.13822	0.1388 ± 0.0021
$\boldsymbol{n_s}$	0.9442	0.947 ± 0.017	$\sigma_8 \Omega_m^{0.25}$	0.6283	0.628 ± 0.013	$100\theta_D$	0.16011	0.16032 ± 0.00074
$\boldsymbol{A_{217}^{CIB}}$	62.8	62.7 ± 6.8	$\sigma_8/h^{0.5}$	1.0293	1.026 ± 0.019	z_{eq}	3488	3473 ± 80
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.39	—	$\langle d^2 \rangle^{1/2}$	2.571	2.560 ± 0.054	k_{eq}	0.010357	0.01037 ± 0.00016
$\boldsymbol{A_{143}^{tSZ}}$	7.04	5.31 ± 1.9	z_{re}	9.92	$9.80^{+1.9}_{-1.7}$	$100\theta_{eq}$	0.7968	0.800 ± 0.015
$\boldsymbol{A_{100}^{PS}}$	245.8	254 ± 30	$10^9 A_s$	2.173	$2.178^{+0.089}_{-0.099}$	$100\theta_{s,eq}$	0.4412	0.4427 ± 0.0074
$\boldsymbol{A_{143}^{PS}}$	41.0	42 ± 8	$10^9 A_s e^{-2\tau}$	1.8617	1.866 ± 0.025	$r_{drag}/D_V(0.57)$	0.07007	0.0703 ± 0.0011
$\boldsymbol{A_{143\times217}^{PS}}$	41.7	39 ± 10	D_{40}	1271.7	1269 ± 26	$H(0.57)$	89.65	$90.4^{+2.5}_{-2.7}$
$\boldsymbol{A_{217}^{PS}}$	101.7	98 ± 10	D_{220}	5719.5	5723 ± 41	$D_A(0.57)$	1456	1444 ± 52
$\boldsymbol{A^{kSZ}}$	0.00	< 4.14	D_{810}	2530.1	2530 ± 14	$F_{AP}(0.57)$	0.6837	0.6827 ± 0.0058
$\boldsymbol{A_{100}^{dustTT}}$	7.23	7.25 ± 1.9	D_{1420}	815.2	814.2 ± 5.2	$f\sigma_8(0.57)$	0.4848	0.485 ± 0.010
$\boldsymbol{A_{143}^{dustTT}}$	8.88	8.87 ± 1.8	D_{2000}	232.12	231.4 ± 2.3	$\sigma_8(0.57)$	0.6038	0.606 ± 0.019
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.81	16.9 ± 4.2	$n_{s,0.002}$	0.9442	0.947 ± 0.017	f_{2000}^{143}	27.19	29 ± 4
$\boldsymbol{A_{217}^{dustTT}}$	82.6	81.8 ± 7.4	Y_P	0.23957	0.2408 ± 0.0048	$f_{2000}^{143\times217}$	30.45	31.2 ± 2.6
$\boldsymbol{c_{100}}$	0.99802	0.99791 ± 0.00078	Y_P^{BBN}	0.24088	0.2421 ± 0.0048	f_{2000}^{217}	104.12	105.0 ± 2.4
$\boldsymbol{c_{217}}$	0.99570	0.9958 ± 0.0015	10^5D/H	2.550	2.570 ± 0.073	χ^2_{plik}	761.6	776.3 ± 5.5
$\boldsymbol{y_{cal}}$	1.00014	1.0003 ± 0.0025	Age/Gyr	14.259	14.17 ± 0.37	χ^2_{prior}	1.75	8.20 ± 3.8
H_0	63.66	64.4 ± 2.9	z_*	1089.86	1089.96 ± 0.50			

Best-fit $\chi^2_{eff} = 763.38$; $\bar{\chi}^2_{eff} = 784.49$; $R - 1 = 0.00828$
χ^2_{eff}: CMB - plik_dx11dr2_HM_v18_TT: 761.63

11.32 base_nnu_plikHM_TTTEEE_tau07

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022040	0.02206 ± 0.00024	$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.301	0.304 ± 0.085	$Y_{\rm P}^{\rm BBN}$	0.24308	0.2438 ± 0.0029
$\boldsymbol{\Omega_c h^2}$	0.11679	0.1175 ± 0.0031	$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.155	0.155 ± 0.053	10^5D/H	2.5654	2.580 ± 0.047
$\boldsymbol{100\theta_{\rm MC}}$	1.041130	1.04104 ± 0.00045	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.339	0.339 ± 0.079	Age/Gyr	14.079	14.03 ± 0.22
$\boldsymbol{\tau}$	0.0834	0.082 ± 0.017	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.673	1.67 ± 0.26	z_*	1089.804	1089.89 ± 0.36
$\boldsymbol{N_{\rm eff}}$	2.796	2.85 ± 0.20	$\boldsymbol{c_{100}}$	0.99830	0.99823 ± 0.00078	r_*	146.81	146.4 ± 1.9
$\boldsymbol{\ln(10^{10}A_s)}$	3.0942	3.093 ± 0.036	$\boldsymbol{c_{217}}$	0.99577	0.9959 ± 0.0015	$100\theta_*$	1.04151	1.04139 ± 0.00057
$\boldsymbol{n_s}$	0.9532	0.9542 ± 0.0099	$\boldsymbol{y_{\rm cal}}$	1.00014	1.0002 ± 0.0025	$D_{\rm A}$/Gpc	14.096	14.05 ± 0.18
$\boldsymbol{A^{\rm CIB}_{217}}$	62.3	63.0 ± 6.7	H_0	65.36	65.7 ± 1.6	$z_{\rm drag}$	1058.71	1058.88 ± 0.86
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.50	—	Ω_Λ	0.6735	0.675 ± 0.012	$r_{\rm drag}$	149.62	149.2 ± 2.0
$\boldsymbol{A^{\rm tSZ}_{143}}$	6.84	5.41 ± 1.9	$\Omega_{\rm m}$	0.3265	0.325 ± 0.012	$k_{\rm D}$	0.13896	0.1393 ± 0.0015
$\boldsymbol{A^{\rm PS}_{100}}$	250.5	258 ± 28	$\Omega_{\rm m}h^2$	0.13947	0.1402 ± 0.0032	$100\theta_{\rm D}$	0.160383	0.16052 ± 0.00043
$\boldsymbol{A^{\rm PS}_{143}}$	44.0	42 ± 8	$\Omega_{\rm m}h^3$	0.09116	0.0922 ± 0.0040	$z_{\rm eq}$	3432.9	3428 ± 41
$\boldsymbol{A^{PS}_{143\times217}}$	45.9	40 ± 10	σ_8	0.8264	0.827 ± 0.017	$k_{\rm eq}$	0.010300	0.01032 ± 0.00012
$\boldsymbol{A^{\rm PS}_{217}}$	103.8	98 ± 10	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4722	0.4715 ± 0.0099	$100\theta_{\rm eq}$	0.8069	0.8080 ± 0.0078
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 3.83	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6247	0.624 ± 0.012	$100\theta_{\rm s,eq}$	0.44630	0.4468 ± 0.0039
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.13	7.28 ± 1.9	$\sigma_8/h^{0.5}$	1.0222	1.020 ± 0.017	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07083	0.07090 ± 0.00060
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	8.80	8.79 ± 1.8	$\langle d^2\rangle^{1/2}$	2.5469	2.542 ± 0.041	$H(0.57)$	90.98	91.3 ± 1.5
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.80	16.7 ± 4.2	$z_{\rm re}$	10.43	$10.3^{+1.7}_{-1.4}$	$D_{\rm A}(0.57)$	1426.8	1421 ± 29
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	82.6	81.5 ± 7.4	$10^9 A_{\rm s}$	2.207	2.205 ± 0.079	$F_{\rm AP}(0.57)$	0.67979	0.6795 ± 0.0030
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0804	0.0803 ± 0.0057	$10^9 A_{\rm s}e^{-2\tau}$	1.8678	1.871 ± 0.018	$f\sigma_8(0.57)$	0.4842	0.4841 ± 0.0090
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0478	0.0478 ± 0.0050	D_{40}	1260.8	1260 ± 17	$\sigma_8(0.57)$	0.6112	0.612 ± 0.014
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0997	0.100 ± 0.032	D_{220}	5735.2	5737 ± 38	f^{143}_{2000}	27.54	28.7 ± 2.9
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.0992	0.0991 ± 0.0069	D_{810}	2533.1	2532 ± 14	$f^{143\times217}_{2000}$	30.87	31.5 ± 2.1
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2267	0.225 ± 0.047	D_{1420}	815.52	814.3 ± 4.7	f^{217}_{2000}	104.47	105.2 ± 2.0
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.654	0.65 ± 0.13	D_{2000}	231.69	231.0 ± 1.8	$\chi^2_{\rm plik}$	2430.2	2450.0 ± 6.7
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1410	0.141 ± 0.038	$n_{\rm s,0.002}$	0.9532	0.9542 ± 0.0099	$\chi^2_{\rm prior}$	6.52	19.9 ± 5.6
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1316	0.131 ± 0.029	$Y_{\rm P}$	0.24177	0.2425 ± 0.0029			

Best-fit $\chi^2_{\rm eff} = 2436.74$; $\bar{\chi}^2_{\rm eff} = 2469.87$; $R-1 = 0.00709$
$\chi^2_{\rm eff}$: CMB - plik_dx11dr2_HM_v18_TTTEEE: 2430.21

11.33 base_nnu_CamSpecHM_TT_tau07

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02193 ± 0.00037 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	147.3 ± 2.9 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1169 ± 0.0041 (-0.1σ)	H_0	64.5 ± 2.8 $(+0.0\sigma)$	$100\theta_*$	1.04167 ± 0.00078 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04122 ± 0.00062 $(+0.1\sigma)$	Ω_Λ	$0.663^{+0.025}_{-0.022}$ $(+0.1\sigma)$	$z_{\rm drag}$	1058.4 ± 1.3 (-0.0σ)
$\boldsymbol{\tau}$	0.078 ± 0.019 $(+0.0\sigma)$	$\Omega_{\rm m}$	$0.337^{+0.022}_{-0.025}$ (-0.1σ)	$r_{\rm drag}$	150.2 ± 3.0 $(+0.1\sigma)$
$\boldsymbol{N_{eff}}$	2.73 ± 0.32 (-0.0σ)	$\Omega_{\rm m}h^2$	0.1394 ± 0.0043 (-0.1σ)	$k_{\rm D}$	0.1387 ± 0.0021 (-0.0σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.078 ± 0.041 (-0.0σ)	$\Omega_{\rm m}h^3$	$0.0900^{+0.0059}_{-0.0066}$ (-0.0σ)	$100\theta_{\rm D}$	0.16027 ± 0.00072 (-0.1σ)
$\boldsymbol{n_s}$	0.950 ± 0.016 $(+0.1\sigma)$	σ_8	0.822 ± 0.020 (-0.1σ)	$z_{\rm eq}$	3467 ± 79 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	241 ± 24 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.476 ± 0.015 (-0.2σ)	$100\theta_{\rm eq}$	0.801 ± 0.014 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	36 ± 8 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.626 ± 0.014 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.0704 ± 0.0011 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.024 ± 0.020 (-0.1σ)	$H(0.57)$	90.4 ± 2.5 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	44 ± 7 (-2.7σ)	$\langle d^2\rangle^{1/2}$	2.549 ± 0.055 (-0.2σ)	$D_{\rm A}(0.57)$	1443 ± 51 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.47^{+1.7}_{-2.4}$ (-1.0σ)	$z_{\rm re}$	$9.85^{+1.8}_{-1.6}$ $(+0.0\sigma)$	$F_{\rm AP}(0.57)$	0.6822 ± 0.0057 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.13}$	$10^9A_{\rm s}$	2.174 ± 0.089 (-0.0σ)	$f\sigma_8(0.57)$	0.483 ± 0.010 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9A_{\rm s}e^{-2\tau}$	1.860 ± 0.024 (-0.3σ)	$\sigma_8(0.57)$	0.606 ± 0.018 (-0.0σ)
$\boldsymbol{A^{kSZ}}$	$4.85^{+2.8}_{-3.4}$ $(+0.7\sigma)$	D_{40}	1259 ± 26 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	0.2417 ± 0.0046 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.97 ± 0.19	D_{220}	5701 ± 41 (-0.5σ)	f_{2000}^{143}	27 ± 4 (-0.4σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2526 ± 14 (-0.3σ)	f_{2000}^{217}	105.1 ± 2.5 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	D_{1420}	814.2 ± 5.2 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	30.2 ± 2.7 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$n_{\rm s,0.002}$	0.950 ± 0.016 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8059.0 ± 5.7
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.1σ)	$Y_{\rm P}$	0.2403 ± 0.0046 (-0.1σ)	$\chi^2_{\rm prior}$	9.42 ± 3.8 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99683 ± 0.00097 (-1.4σ)	Age/Gyr	14.17 ± 0.36 $(+0.0\sigma)$		
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.9\sigma)$	z_*	1089.87 ± 0.50 (-0.2σ)		

$\bar{\chi}^2_{\rm eff} = 8068.43$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.94$; $R - 1 = 0.01002$

11.34 base_nnu_plikHM_TT_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022318	0.02233 ± 0.00024	$\Omega_m h^2$	0.14303	0.1437 ± 0.0040	r_{drag}	146.80	146.5 ± 2.3
$\boldsymbol{\Omega_c h^2}$	0.12007	0.1207 ± 0.0039	$\Omega_m h^3$	0.09731	0.0981 ± 0.0046	k_D	0.14088	0.1411 ± 0.0017
$\boldsymbol{100\theta_{MC}}$	1.04087	1.04079 ± 0.00055	σ_8	0.8342	0.835 ± 0.020	$100\theta_D$	0.16107	0.16117 ± 0.00057
$\boldsymbol{\tau}$	0.0827	0.082 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.4637	0.464 ± 0.011	z_{eq}	3372.7	3370 ± 33
$\boldsymbol{N_{eff}}$	3.112	3.15 ± 0.23	$\sigma_8\Omega_m^{0.25}$	0.6220	0.622 ± 0.014	k_{eq}	0.010339	0.01036 ± 0.00015
$\boldsymbol{\ln(10^{10}A_s)}$	3.1006	3.100 ± 0.038	$\sigma_8/h^{0.5}$	1.0114	1.011 ± 0.019	$100\theta_{eq}$	0.8185	0.8190 ± 0.0062
$\boldsymbol{n_s}$	0.9697	0.9707 ± 0.0089	$\langle d^2\rangle^{1/2}$	2.4947	2.491 ± 0.043	$100\theta_{s,eq}$	0.45212	0.4524 ± 0.0031
$\boldsymbol{y_{cal}}$	1.00045	1.0003 ± 0.0025	z_{re}	10.40	$10.3^{+1.8}_{-1.5}$	$r_{drag}/D_V(0.57)$	0.071707	0.07174 ± 0.00047
$\boldsymbol{A_{217}^{CIB}}$	67.1	64.3 ± 6.8	$10^9 A_s$	2.221	2.221 ± 0.085	$H(0.57)$	93.47	93.7 ± 1.6
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8828	1.884 ± 0.021	$D_A(0.57)$	1379.8	1376 ± 27
$\boldsymbol{A_{143}^{tSZ}}$	7.17	5.05 ± 2.0	D_{40}	1231.9	1231 ± 15	$F_{AP}(0.57)$	0.67540	0.6752 ± 0.0022
$\boldsymbol{A_{100}^{PS}}$	253.8	260 ± 28	D_{220}	5720.1	5718 ± 40	$f\sigma_8(0.57)$	0.4844	0.485 ± 0.011
$\boldsymbol{A_{143}^{PS}}$	38.9	45 ± 8	D_{810}	2535.4	2535 ± 14	$\sigma_8(0.57)$	0.6212	0.622 ± 0.015
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39 ± 10	D_{1420}	814.8	814.0 ± 5.2	f_{2000}^{143}	29.77	30.5 ± 3.3
$\boldsymbol{A_{217}^{PS}}$	97.7	97 ± 10	D_{2000}	230.31	229.9 ± 2.2	$f_{2000}^{143\times217}$	32.42	32.9 ± 2.5
$\boldsymbol{A^{kSZ}}$	0.00	< 4.80	$n_{s,0.002}$	0.9697	0.9707 ± 0.0089	f_{2000}^{217}	106.15	106.4 ± 2.3
$\boldsymbol{A_{100}^{dustTT}}$	7.36	7.49 ± 1.9	Y_P	0.24626	0.2468 ± 0.0032	χ^2_{lowTEB}	10496.29	10496.9 ± 2.5
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.03 ± 1.8	Y_P^{BBN}	0.24759	0.2481 ± 0.0032	χ^2_{plik}	763.6	777.8 ± 5.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.56	17.2 ± 4.2	10^5D/H	2.624	2.636 ± 0.066	χ^2_{6DF}	0.0156	0.062 ± 0.086
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.8 ± 7.4	Age/Gyr	13.736	13.70 ± 0.23	χ^2_{MGS}	1.34	1.47 ± 0.63
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00078	z_*	1090.056	1090.14 ± 0.48	$\chi^2_{DR11CMASS}$	2.430	2.97 ± 0.79
$\boldsymbol{c_{217}}$	0.99594	0.9960 ± 0.0015	r_*	144.12	143.8 ± 2.2	$\chi^2_{DR11LOWZ}$	0.547	0.68 ± 0.63
H_0	68.03	68.3 ± 1.5	$100\theta_*$	1.04101	1.04091 ± 0.00067	χ^2_{prior}	2.07	7.35 ± 3.6
Ω_Λ	0.6910	0.6915 ± 0.0088	D_A/Gpc	13.845	13.82 ± 0.20	χ^2_{CMB}	11259.9	11274.7 ± 5.5
Ω_m	0.3090	0.3085 ± 0.0088	z_{drag}	1059.86	1059.97 ± 0.88	χ^2_{BAO}	4.33	5.18 ± 1.2

Best-fit $\chi^2_{eff} = 11266.34$; $\bar{\chi}^2_{eff} = 11287.24$; $R - 1 = 0.01093$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.34 DR11CMASS: 2.43 DR11LOWZ: 0.55 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.30 plik_dx11dr2_HM_v18_TT: 763.64

11.35 base_nnu_plikHM_TT_lowTEB_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022365	0.02238 ± 0.00023	$\Omega_m h^3$	0.09837	$0.0994^{+0.0042}_{-0.0046}$	$100\theta_D$	0.16118	0.16130 ± 0.00054
$\boldsymbol{\Omega_c h^2}$	0.12062	0.1215 ± 0.0037	σ_8	0.8369	0.839 ± 0.019	z_{eq}	3362.5	3362 ± 31
$\boldsymbol{100\theta_{MC}}$	1.04079	1.04071 ± 0.00054	$\sigma_8\Omega_m^{0.5}$	0.4631	0.464 ± 0.011	k_{eq}	0.010345	0.01038 ± 0.00014
$\boldsymbol{\tau}$	0.0843	0.083 ± 0.018	$\sigma_8\Omega_m^{0.25}$	0.6225	0.624 ± 0.014	$100\theta_{eq}$	0.8204	0.8206 ± 0.0058
$\boldsymbol{N_{eff}}$	3.166	3.22 ± 0.21	$\sigma_8/h^{0.5}$	1.0112	1.012 ± 0.019	$100\theta_{s,eq}$	0.45311	0.4532 ± 0.0030
$\boldsymbol{\ln(10^{10}A_s)}$	3.1051	3.105 ± 0.038	$\langle d^2\rangle^{1/2}$	2.4906	2.490 ± 0.043	$r_{drag}/D_V(0.57)$	0.071854	0.07186 ± 0.00044
$\boldsymbol{n_s}$	0.9723	0.9733 ± 0.0081	z_{re}	10.55	$10.4^{+1.8}_{-1.5}$	$H(0.57)$	93.89	94.2 ± 1.5
$\boldsymbol{y_{cal}}$	1.00030	1.0003 ± 0.0025	$10^9 A_s$	2.231	2.233 ± 0.084	$D_A(0.57)$	1372.2	1368 ± 24
$\boldsymbol{A_{217}^{CIB}}$	67.2	64.6 ± 6.8	$10^9 A_s e^{-2\tau}$	1.8850	1.888 ± 0.020	$F_{AP}(0.57)$	0.67468	0.6746 ± 0.0021
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	D_{40}	1228.0	1228 ± 15	$f\sigma_8(0.57)$	0.4852	0.486 ± 0.011
$\boldsymbol{A_{143}^{tSZ}}$	7.11	4.96 ± 2.0	D_{220}	5717.5	5718 ± 41	$\sigma_8(0.57)$	0.6239	0.625 ± 0.015
$\boldsymbol{A_{100}^{PS}}$	255.1	261 ± 28	D_{810}	2535.2	2535 ± 14	f_{2000}^{143}	30.12	30.9 ± 3.3
$\boldsymbol{A_{143}^{PS}}$	40.1	45 ± 8	D_{1420}	814.5	813.8 ± 5.3	$f_{2000}^{143\times217}$	32.69	33.2 ± 2.4
$\boldsymbol{A_{143\times217}^{PS}}$	33.7	39^{+10}_{-10}	D_{2000}	230.02	229.6 ± 2.2	f_{2000}^{217}	106.30	106.7 ± 2.3
$\boldsymbol{A_{217}^{PS}}$	98.1	97 ± 10	$n_{s,0.002}$	0.9723	0.9733 ± 0.0081	χ^2_{lowTEB}	10496.03	10496.7 ± 2.5
$\boldsymbol{A^{kSZ}}$	0.01	< 5.00	Y_P	0.24701	0.2476 ± 0.0029	χ^2_{plik}	764.1	778.2 ± 5.8
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.54 ± 1.9	Y_P^{BBN}	0.24835	0.2490 ± 0.0029	χ^2_{H070p6}	0.403	0.48 ± 0.51
$\boldsymbol{A_{143}^{dustTT}}$	9.05	9.04 ± 1.8	10^5D/H	2.634	2.648 ± 0.064	χ^2_{JLA}	706.617	706.67 ± 0.18
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.56	17.2 ± 4.2	Age/Gyr	13.680	13.64 ± 0.20	χ^2_{6DF}	0.0029	0.046 ± 0.066
$\boldsymbol{A_{217}^{dustTT}}$	81.7	81.8 ± 7.3	z_*	1090.100	1090.20 ± 0.47	χ^2_{MGS}	1.54	1.63 ± 0.61
$\boldsymbol{c_{100}}$	0.99792	0.99788 ± 0.00077	r_*	143.68	143.2 ± 2.0	$\chi^2_{DR11CMASS}$	2.426	2.91 ± 0.70
$\boldsymbol{c_{217}}$	0.99592	0.9960 ± 0.0015	$100\theta_*$	1.04090	1.04078 ± 0.00064	$\chi^2_{DR11LOWZ}$	0.373	0.51 ± 0.51
H_0	68.49	68.7 ± 1.4	D_A/Gpc	13.803	13.76 ± 0.19	χ^2_{prior}	1.99	7.36 ± 3.6
Ω_Λ	0.6938	0.6940 ± 0.0081	z_{drag}	1060.05	1060.20 ± 0.81	χ^2_{CMB}	11260.1	11274.8 ± 5.5
Ω_m	0.3062	0.3060 ± 0.0081	r_{drag}	146.34	145.9 ± 2.1	χ^2_{BAO}	4.34	5.10 ± 1.1
$\Omega_m h^2$	0.14363	0.1445 ± 0.0038	k_D	0.14120	0.1415 ± 0.0016			

Best-fit $\chi^2_{eff} = 11973.47$; $\bar{\chi}^2_{eff} = 11994.45$; $R - 1 = 0.01034$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.43 DR11LOWZ: 0.37 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.03 plik_dx11dr2_HM_v18_TT: 764.08 Hubble - H070p6: 0.40 SN - JLA December_2013: 706.62

11.36 base_nnu_plikHM_TT_lowTEB_BAO_post_lensing_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022321	0.02232 ± 0.00022	$\Omega_m h^3$	0.09730	$0.0980^{+0.0039}_{-0.0044}$	$100\theta_D$	0.16110	0.16122 ± 0.00054
$\boldsymbol{\Omega_c h^2}$	0.11952	$0.1200^{+0.0033}_{-0.0040}$	σ_8	0.8191	0.820 ± 0.013	z_{eq}	3358.5	3355 ± 30
$\boldsymbol{100\theta_{MC}}$	1.04094	1.04086 ± 0.00054	$\sigma_8\Omega_m^{0.5}$	0.4528	0.4528 ± 0.0070	k_{eq}	0.010298	$0.01031^{+0.00013}_{-0.00015}$
$\boldsymbol{\tau}$	0.0674	0.067 ± 0.013	$\sigma_8\Omega_m^{0.25}$	0.6090	0.6093 ± 0.0087	$100\theta_{eq}$	0.8211	$0.8217^{+0.0056}_{-0.0062}$
$\boldsymbol{N_{eff}}$	3.115	3.15 ± 0.21	$\sigma_8/h^{0.5}$	0.9912	0.991 ± 0.011	$100\theta_{s,eq}$	0.45350	0.4538 ± 0.0029
$\boldsymbol{\ln(10^{10}A_s)}$	3.0678	3.068 ± 0.026	$\langle d^2\rangle^{1/2}$	2.4452	2.445 ± 0.027	$r_{drag}/D_V(0.57)$	0.071909	$0.07194^{+0.00042}_{-0.00048}$
$\boldsymbol{n_s}$	0.9710	0.9712 ± 0.0078	z_{re}	8.98	$8.91^{+1.4}_{-1.2}$	$H(0.57)$	93.57	93.8 ± 1.4
$\boldsymbol{y_{cal}}$	1.00008	1.0001 ± 0.0025	$10^9 A_s$	2.149	2.151 ± 0.055	$D_A(0.57)$	1376.6	1373 ± 24
$\boldsymbol{A_{217}^{CIB}}$	67.6	64.9 ± 6.8	$10^9 A_s e^{-2\tau}$	1.8783	1.881 ± 0.019	$F_{AP}(0.57)$	0.67451	0.6744 ± 0.0020
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1220.9	1222 ± 14	$f\sigma_8(0.57)$	0.4747	0.4750 ± 0.0068
$\boldsymbol{A_{143}^{tSZ}}$	7.22	4.95 ± 2.0	D_{220}	5713.0	5716 ± 40	$\sigma_8(0.57)$	0.6108	0.612 ± 0.011
$\boldsymbol{A_{100}^{PS}}$	253.9	262 ± 28	D_{810}	2533.4	2533 ± 14	f_{2000}^{143}	30.32	31.3 ± 3.3
$\boldsymbol{A_{143}^{PS}}$	39.9	45^{+9}_{-8}	D_{1420}	814.7	813.8 ± 5.3	$f_{2000}^{143\times217}$	32.88	33.4 ± 2.4
$\boldsymbol{A_{143\times217}^{PS}}$	33.3	39 ± 10	D_{2000}	229.91	229.4 ± 2.2	f_{2000}^{217}	106.38	106.9 ± 2.3
$\boldsymbol{A_{217}^{PS}}$	97.5	96^{+10}_{-10}	$n_{s,0.002}$	0.9710	0.9712 ± 0.0078	$\chi^2_{lensing}$	9.31	10.1 ± 1.6
$\boldsymbol{A^{kSZ}}$	0.01	< 5.30	Y_P	0.24630	0.2467 ± 0.0028	χ^2_{lowTEB}	10494.51	10495.0 ± 1.3
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.47 ± 1.9	Y_P^{BBN}	0.24763	0.2481 ± 0.0029	χ^2_{plik}	766.5	780.0 ± 5.5
$\boldsymbol{A_{143}^{dustTT}}$	9.13	9.07 ± 1.8	10^5D/H	2.624	$2.638^{+0.062}_{-0.070}$	χ^2_{H070p6}	0.485	0.57 ± 0.55
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.79	17.4 ± 4.2	Age/Gyr	13.729	13.70 ± 0.20	χ^2_{JLA}	706.604	706.65 ± 0.16
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.9 ± 7.5	z_*	1090.007	1090.09 ± 0.47	χ^2_{6DF}	0.00095	0.043 ± 0.062
$\boldsymbol{c_{100}}$	0.99789	0.99787 ± 0.00076	r_*	144.25	144.0 ± 2.0	χ^2_{MGS}	1.61	1.73 ± 0.62
$\boldsymbol{c_{217}}$	0.99599	0.9961 ± 0.0014	$100\theta_*$	1.04108	1.04099 ± 0.00064	$\chi^2_{DR11CMASS}$	2.441	2.93 ± 0.74
H_0	68.29	68.5 ± 1.3	D_A/Gpc	13.856	13.83 ± 0.18	$\chi^2_{DR11LOWZ}$	0.322	0.43 ± 0.45
Ω_Λ	0.6945	0.6950 ± 0.0080	z_{drag}	1059.86	1059.89 ± 0.78	χ^2_{prior}	2.15	7.39 ± 3.6
Ω_m	0.3055	0.3050 ± 0.0080	r_{drag}	146.93	146.7 ± 2.1	χ^2_{CMB}	11270.4	11285.1 ± 5.5
$\Omega_m h^2$	0.14248	$0.1430^{+0.0033}_{-0.0041}$	k_D	0.14074	$0.1409^{+0.0014}_{-0.0016}$	χ^2_{BAO}	4.37	5.14 ± 1.1

Best-fit $\chi^2_{eff} = 11983.97$; $\bar{\chi}^2_{eff} = 12004.83$; $R - 1 = 0.02766$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.31 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.51 plik_dx11dr2_HM_v18_TT: 766.54 Hubble - H070p6: 0.48 SN - JLA December_2013: 706.60

11.37 base_nnu_plikHM_TT_lowTEB_BAO_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022267	0.02226 ± 0.00023	$\Omega_m h^3$	0.09580	$0.0967^{+0.0042}_{-0.0047}$	$100\theta_D$	0.16095	0.16108 ± 0.00057
$\boldsymbol{\Omega_c h^2}$	0.11840	$0.1192^{+0.0034}_{-0.0041}$	σ_8	0.8157	0.817 ± 0.014	z_{eq}	3365.0	3364 ± 32
$\boldsymbol{100\theta_{MC}}$	1.04106	1.04095 ± 0.00055	$\sigma_8\Omega_m^{0.5}$	0.4523	0.4528 ± 0.0070	k_{eq}	0.010265	$0.01029^{+0.00013}_{-0.00015}$
$\boldsymbol{\tau}$	0.0671	0.066 ± 0.013	$\sigma_8\Omega_m^{0.25}$	0.6074	0.6080 ± 0.0089	$100\theta_{eq}$	0.8198	$0.8200^{+0.0059}_{-0.0065}$
$\boldsymbol{N_{eff}}$	3.038	$3.08^{+0.22}_{-0.24}$	$\sigma_8/h^{0.5}$	0.9907	0.990 ± 0.011	$100\theta_{s,eq}$	0.45287	$0.4530^{+0.0030}_{-0.0033}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0644	3.063 ± 0.026	$\langle d^2\rangle^{1/2}$	2.4494	2.447 ± 0.027	$r_{drag}/D_V(0.57)$	0.071816	$0.07181^{+0.00045}_{-0.00050}$
$\boldsymbol{n_s}$	0.9680	0.9685 ± 0.0086	z_{re}	8.93	$8.76^{+1.4}_{-1.2}$	$H(0.57)$	93.02	93.3 ± 1.6
$\boldsymbol{y_{cal}}$	1.00016	1.0001 ± 0.0025	$10^9 A_s$	2.142	2.140 ± 0.056	$D_A(0.57)$	1385.6	1382 ± 26
$\boldsymbol{A_{217}^{CIB}}$	67.6	64.7 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8732	1.876 ± 0.020	$F_{AP}(0.57)$	0.67502	0.6750 ± 0.0022
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1225.0	1225 ± 15	$f\sigma_8(0.57)$	0.4732	0.4737 ± 0.0071
$\boldsymbol{A_{143}^{tSZ}}$	7.26	5.01 ± 2.0	D_{220}	5715.5	5716 ± 40	$\sigma_8(0.57)$	0.6078	0.608 ± 0.011
$\boldsymbol{A_{100}^{PS}}$	253.3	261 ± 28	D_{810}	2532.5	2532 ± 14	f_{2000}^{143}	29.90	30.9 ± 3.3
$\boldsymbol{A_{143}^{PS}}$	38.8	45^{+9}_{-8}	D_{1420}	815.1	814.1 ± 5.2	$f_{2000}^{143\times217}$	32.55	33.1 ± 2.4
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	39 ± 10	D_{2000}	230.29	229.7 ± 2.2	f_{2000}^{217}	106.09	106.6 ± 2.3
$\boldsymbol{A_{217}^{PS}}$	96.8	96^{+10}_{-10}	$n_{s,0.002}$	0.9680	0.9685 ± 0.0086	$\chi^2_{lensing}$	9.25	10.0 ± 1.6
$\boldsymbol{A^{kSZ}}$	0.01	< 5.15	Y_P	0.24524	0.2458 ± 0.0031	χ^2_{lowTEB}	10494.91	10495.4 ± 1.4
$\boldsymbol{A_{100}^{dustTT}}$	7.51	7.45 ± 1.8	Y_P^{BBN}	0.24657	0.2471 ± 0.0031	χ^2_{plik}	766.1	779.8 ± 5.5
$\boldsymbol{A_{143}^{dustTT}}$	9.13	9.07 ± 1.8	10^5D/H	2.608	$2.625^{+0.063}_{-0.071}$	χ^2_{6DF}	0.0060	0.055 ± 0.076
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.3 ± 4.2	Age/Gyr	13.805	13.77 ± 0.22	χ^2_{MGS}	1.47	1.55 ± 0.63
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.8 ± 7.5	z_*	1089.901	1090.03 ± 0.48	$\chi^2_{DR11CMASS}$	2.401	2.93 ± 0.76
$\boldsymbol{c_{100}}$	0.99790	0.99788 ± 0.00076	r_*	144.96	144.6 ± 2.1	$\chi^2_{DR11LOWZ}$	0.423	0.59 ± 0.57
$\boldsymbol{c_{217}}$	0.99599	0.9960 ± 0.0014	$100\theta_*$	1.04126	1.04112 ± 0.00067	χ^2_{prior}	2.18	7.34 ± 3.5
H_0	67.79	68.0 ± 1.5	D_A/Gpc	13.922	13.89 ± 0.20	χ^2_{CMB}	11270.3	11285.2 ± 5.5
Ω_Λ	0.6925	0.6924 ± 0.0086	z_{drag}	1059.59	1059.64 ± 0.85	χ^2_{BAO}	4.30	5.13 ± 1.1
Ω_m	0.3075	0.3076 ± 0.0086	r_{drag}	147.67	147.3 ± 2.2			
$\Omega_m h^2$	0.14132	$0.1421^{+0.0035}_{-0.0042}$	k_D	0.14021	0.1405 ± 0.0016			

Best-fit $\chi^2_{eff} = 11276.73$; $\bar{\chi}^2_{eff} = 11297.63$; $R - 1 = 0.02506$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.40 DR11LOWZ: 0.42 CMB - smica_g30_ftl_full_pp: 9.25 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.91 plik_dx11dr2_HM_v18_TT: 766.09

11.38 base_nnu_plikHM_TTTEEE_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022261	0.02229 ± 0.00020	$\boldsymbol{A_{143}^{dustTE}}$	0.154	0.154 ± 0.054	r_*	145.17	144.8 ± 1.8
$\boldsymbol{\Omega_c h^2}$	0.11844	0.1192 ± 0.0030	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.337	0.336 ± 0.081	$100\theta_*$	1.04116	1.04107 ± 0.00053
$\boldsymbol{100\theta_{MC}}$	1.040934	1.04087 ± 0.00043	$\boldsymbol{A_{217}^{dustTE}}$	1.664	1.67 ± 0.25	D_A/Gpc	13.943	13.91 ± 0.16
$\boldsymbol{\tau}$	0.0832	0.082 ± 0.017	$\boldsymbol{c_{100}}$	0.99822	0.99816 ± 0.00077	z_{drag}	1059.51	1059.68 ± 0.73
$\boldsymbol{N_{eff}}$	2.996	3.04 ± 0.18	$\boldsymbol{c_{217}}$	0.99584	0.9959 ± 0.0015	r_{drag}	147.88	147.5 ± 1.8
$\boldsymbol{\ln(10^{10}A_s)}$	3.0977	3.098 ± 0.035	H_0	67.23	67.5 ± 1.2	k_D	0.14015	0.1405 ± 0.0014
$\boldsymbol{n_s}$	0.9651	0.9658 ± 0.0076	Ω_Λ	0.6873	0.6880 ± 0.0075	$100\theta_D$	0.160769	0.16086 ± 0.00041
$\boldsymbol{y_{cal}}$	1.00011	1.0005 ± 0.0025	Ω_m	0.3127	0.3120 ± 0.0075	z_{eq}	3385.0	3383 ± 27
$\boldsymbol{A_{217}^{CIB}}$	64.1	63.6 ± 6.7	$\Omega_m h^2$	0.14135	0.1421 ± 0.0031	k_{eq}	0.010297	0.01032 ± 0.00012
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.37	—	$\Omega_m h^3$	0.09503	0.0959 ± 0.0036	$100\theta_{eq}$	0.8160	0.8165 ± 0.0051
$\boldsymbol{A_{143}^{tSZ}}$	7.04	5.41 ± 1.9	σ_8	0.8298	0.831 ± 0.017	$100\theta_{s,eq}$	0.45090	0.4511 ± 0.0026
$\boldsymbol{A_{100}^{PS}}$	250.1	259 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4640	0.4642 ± 0.0092	$r_{drag}/D_V(0.57)$	0.071518	0.07155 ± 0.00039
$\boldsymbol{A_{143}^{PS}}$	42.7	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6205	0.621 ± 0.012	$H(0.57)$	92.62	92.9 ± 1.3
$\boldsymbol{A_{143\times217}^{PS}}$	42.9	40 ± 10	$\sigma_8/h^{0.5}$	1.0120	1.012 ± 0.017	$D_A(0.57)$	1394.3	1390 ± 22
$\boldsymbol{A_{217}^{PS}}$	101.8	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5051	2.504 ± 0.039	$F_{AP}(0.57)$	0.67633	0.6761 ± 0.0019
$\boldsymbol{A^{kSZ}}$	0.00	< 4.03	z_{re}	10.41	$10.3^{+1.6}_{-1.4}$	$f\sigma_8(0.57)$	0.4828	0.4833 ± 0.0094
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.46 ± 1.9	$10^9 A_s$	2.215	2.217 ± 0.077	$\sigma_8(0.57)$	0.6170	0.618 ± 0.014
$\boldsymbol{A_{143}^{dustTT}}$	8.96	8.92 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8753	1.879 ± 0.018	f_{2000}^{143}	28.23	29.2 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.77	17.0 ± 4.2	D_{40}	1238.8	1240 ± 14	$f_{2000}^{143\times217}$	31.51	31.9 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.6 ± 7.5	D_{220}	5725.4	5731 ± 39	f_{2000}^{217}	105.03	105.6 ± 2.0
$\boldsymbol{A_{100}^{dustEE}}$	0.0816	0.0813 ± 0.0056	D_{810}	2534.1	2535 ± 14	χ^2_{lowTEB}	10497.26	10497.8 ± 2.4
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04893	0.0490 ± 0.0049	D_{1420}	815.55	815.1 ± 4.9	χ^2_{plik}	2431.5	2450.9 ± 6.9
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0995	0.100 ± 0.032	D_{2000}	231.02	230.7 ± 1.8	χ^2_{6DF}	0.0468	0.075 ± 0.090
$\boldsymbol{A_{143}^{dustEE}}$	0.1003	0.1004 ± 0.0068	$n_{s,0.002}$	0.9651	0.9658 ± 0.0076	χ^2_{MGS}	1.097	1.21 ± 0.49
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2229	0.224 ± 0.046	Y_P	0.24466	0.2452 ± 0.0025	$\chi^2_{DR11CMASS}$	2.595	2.94 ± 0.73
$\boldsymbol{A_{217}^{dustEE}}$	0.651	0.65 ± 0.13	Y_P^{BBN}	0.24599	0.2466 ± 0.0025	$\chi^2_{DR11LOWZ}$	0.82	0.89 ± 0.63
$\boldsymbol{A_{100}^{dustTE}}$	0.1405	0.140 ± 0.038	10^5D/H	2.5944	2.604 ± 0.046	χ^2_{prior}	6.81	19.3 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1314	0.131 ± 0.029	Age/Gyr	13.854	13.81 ± 0.18	χ^2_{CMB}	12928.7	12948.7 ± 6.6
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.307	0.303 ± 0.084	z_*	1089.870	1089.94 ± 0.35	χ^2_{BAO}	4.56	5.11 ± 1.1

Best-fit $\chi^2_{eff} = 12940.09$; $\bar{\chi}^2_{eff} = 12973.12$; $R - 1 = 0.00881$

χ^2_{eff}: BAO - 6DF: 0.05 MGS: 1.10 DR11CMASS: 2.60 DR11LOWZ: 0.82 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.26 plik_dx11dr2_HM_v18_TTTEEE: 2431.46

11.39 base_nnu_plikHM_TTTEEE_lowTEB_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022366	0.02235 ± 0.00019	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.337 ± 0.081	D_A/Gpc	13.852	13.86 ± 0.15
$\boldsymbol{\Omega_c h^2}$	0.11986	0.1198 ± 0.0029	$\boldsymbol{A^{dustTE}_{217}}$	1.668	1.67 ± 0.26	z_{drag}	1059.97	1059.91 ± 0.69
$\boldsymbol{100\theta_{MC}}$	1.040778	1.04080 ± 0.00042	$\boldsymbol{c_{100}}$	0.99820	0.99816 ± 0.00077	r_{drag}	146.84	146.9 ± 1.7
$\boldsymbol{\tau}$	0.0863	0.084 ± 0.016	$\boldsymbol{c_{217}}$	0.99596	0.9959 ± 0.0015	k_D	0.14090	0.1408 ± 0.0013
$\boldsymbol{N_{eff}}$	3.103	3.10 ± 0.17	H_0	68.02	67.9 ± 1.1	$100\theta_D$	0.160965	0.16097 ± 0.00039
$\boldsymbol{\ln(10^{10}A_s)}$	3.1079	$3.104^{+0.037}_{-0.034}$	Ω_Λ	0.6912	0.6905 ± 0.0070	z_{eq}	3372.7	3375 ± 25
$\boldsymbol{n_s}$	0.9693	0.9684 ± 0.0071	Ω_m	0.3088	0.3095 ± 0.0070	k_{eq}	0.010334	0.01033 ± 0.00012
$\boldsymbol{y_{cal}}$	1.00038	1.0005 ± 0.0025	$\Omega_m h^2$	0.14287	0.1428 ± 0.0030	$100\theta_{eq}$	0.81852	0.8181 ± 0.0048
$\boldsymbol{A^{CIB}_{217}}$	66.1	63.8 ± 6.7	$\Omega_m h^3$	0.09718	0.0971 ± 0.0034	$100\theta_{s,eq}$	0.45211	0.4519 ± 0.0024
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.16	—	σ_8	0.8364	0.835 ± 0.017	$r_{drag}/D_V(0.57)$	0.071705	0.07168 ± 0.00037
$\boldsymbol{A^{tSZ}_{143}}$	7.18	5.37 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4648	0.4644 ± 0.0092	$H(0.57)$	93.43	93.4 ± 1.2
$\boldsymbol{A^{PS}_{100}}$	254.6	260 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6235	0.623 ± 0.012	$D_A(0.57)$	1380.3	1382 ± 20
$\boldsymbol{A^{PS}_{143}}$	40.4	43 ± 8	$\sigma_8/h^{0.5}$	1.0141	1.013 ± 0.017	$F_{AP}(0.57)$	0.67534	0.6755 ± 0.0018
$\boldsymbol{A^{PS}_{143\times217}}$	37.1	40 ± 10	$\langle d^2\rangle^{1/2}$	2.5039	2.502 ± 0.039	$f\sigma_8(0.57)$	0.4856	0.4848 ± 0.0093
$\boldsymbol{A^{PS}_{217}}$	98.9	98 ± 10	z_{re}	10.70	$10.5^{+1.6}_{-1.3}$	$\sigma_8(0.57)$	0.6228	0.622 ± 0.013
$\boldsymbol{A^{kSZ}}$	0.00	< 4.15	$10^9 A_s$	2.237	2.230 ± 0.076	f^{143}_{2000}	29.07	29.5 ± 2.9
$\boldsymbol{A^{dustTT}_{100}}$	7.43	7.48 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8827	1.883 ± 0.017	$f^{143\times217}_{2000}$	32.05	32.1 ± 2.1
$\boldsymbol{A^{dustTT}_{143}}$	8.99	8.96 ± 1.8	D_{40}	1235.2	1237 ± 14	f^{217}_{2000}	105.64	105.8 ± 2.0
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.65	17.0 ± 4.1	D_{220}	5729.2	5731 ± 39	χ^2_{lowTEB}	10496.97	10497.6 ± 2.4
$\boldsymbol{A^{dustTT}_{217}}$	82.1	81.7 ± 7.4	D_{810}	2535.9	2536 ± 14	χ^2_{plik}	2432.2	2451.4 ± 6.9
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0814 ± 0.0057	D_{1420}	815.19	815.0 ± 4.8	χ^2_{H070p6}	0.602	0.75 ± 0.56
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04930	0.0491 ± 0.0049	D_{2000}	230.59	230.5 ± 1.8	χ^2_{JLA}	706.676	706.73 ± 0.19
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0995	0.100 ± 0.033	$n_{s,0.002}$	0.9693	0.9684 ± 0.0071	χ^2_{6DF}	0.0153	0.051 ± 0.067
$\boldsymbol{A^{dustEE}_{143}}$	0.1007	0.1007 ± 0.0068	Y_P	0.24617	0.2460 ± 0.0024	χ^2_{MGS}	1.343	1.37 ± 0.48
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2246	0.224 ± 0.046	Y_P^{BBN}	0.24750	0.2474 ± 0.0024	$\chi^2_{DR11CMASS}$	2.438	2.79 ± 0.54
$\boldsymbol{A^{dustEE}_{217}}$	0.656	0.65 ± 0.13	10^5D/H	2.6120	2.613 ± 0.045	$\chi^2_{DR11LOWZ}$	0.546	0.69 ± 0.52
$\boldsymbol{A^{dustTE}_{100}}$	0.1408	0.140 ± 0.038	Age/Gyr	13.742	13.75 ± 0.17	χ^2_{prior}	6.93	19.4 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1316	0.131 ± 0.029	z_*	1089.969	1089.98 ± 0.35	χ^2_{CMB}	12929.2	12949.0 ± 6.6
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.304 ± 0.084	r_*	144.18	144.3 ± 1.7	χ^2_{BAO}	4.342	4.91 ± 0.79
$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.154 ± 0.054	$100\theta_*$	1.04093	1.04096 ± 0.00051			

Best-fit $\chi^2_{eff} = 13647.70$; $\bar{\chi}^2_{eff} = 13680.72$; $R - 1 = 0.01333$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.44 DR11LOWZ: 0.55 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.97 plik_dx11dr2_HM_v18_TTTEEE:

11.40 base_nnu_plikHM_TTTEEE_lowTEB_BAO_post_lensing_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022286	0.02229 ± 0.00018	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.334 ± 0.080	D_A/Gpc	13.937	13.92 ± 0.15
$\boldsymbol{\Omega_c h^2}$	0.11822	0.1187 ± 0.0028	$\boldsymbol{A^{dustTE}_{217}}$	1.663	1.67 ± 0.25	z_{drag}	1059.59	1059.64 ± 0.68
$\boldsymbol{100\theta_{MC}}$	1.040944	1.04095 ± 0.00041	$\boldsymbol{c_{100}}$	0.99817	0.99811 ± 0.00077	r_{drag}	147.81	147.6 ± 1.7
$\boldsymbol{\tau}$	0.0667	0.066 ± 0.012	$\boldsymbol{c_{217}}$	0.99606	0.9960 ± 0.0014	k_D	0.14016	0.1403 ± 0.0013
$\boldsymbol{N_{eff}}$	3.016	3.04 ± 0.17	H_0	67.57	67.7 ± 1.1	$100\theta_D$	0.160821	0.16089 ± 0.00039
$\boldsymbol{\ln(10^{10}A_s)}$	3.0632	3.063 ± 0.024	Ω_Λ	0.6909	0.6908 ± 0.0069	z_{eq}	3371.2	3372 ± 25
$\boldsymbol{n_s}$	0.9661	0.9664 ± 0.0071	Ω_m	0.3091	0.3092 ± 0.0069	k_{eq}	0.010268	0.01029 ± 0.00011
$\boldsymbol{y_{cal}}$	0.99990	1.0001 ± 0.0026	$\Omega_m h^2$	0.14115	0.1416 ± 0.0029	$100\theta_{\mathrm{eq}}$	0.81863	0.8186 ± 0.0048
$\boldsymbol{A^{CIB}_{217}}$	67.2	64.4 ± 6.8	$\Omega_m h^3$	0.09537	0.0959 ± 0.0034	$100\theta_{s,\mathrm{eq}}$	0.45223	0.4522 ± 0.0024
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.06	—	σ_8	0.8145	0.815 ± 0.012	$r_{\mathrm{drag}}/D_V(0.57)$	0.071713	0.07171 ± 0.00037
$\boldsymbol{A^{tSZ}_{143}}$	7.26	5.32 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4528	0.4534 ± 0.0062	$H(0.57)$	92.84	93.0 ± 1.2
$\boldsymbol{A^{PS}_{100}}$	256.3	260 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6073	0.6080 ± 0.0079	$D_A(0.57)$	1389.3	1387 ± 21
$\boldsymbol{A^{PS}_{143}}$	38.9	43 ± 8	$\sigma_8/h^{0.5}$	0.9908	0.991 ± 0.011	$F_{AP}(0.57)$	0.67543	0.6754 ± 0.0018
$\boldsymbol{A^{PS}_{143\times217}}$	33.8	39 ± 10	$\langle d^2\rangle^{1/2}$	2.4542	2.454 ± 0.025	$f\sigma_8(0.57)$	0.4729	0.4734 ± 0.0063
$\boldsymbol{A^{PS}_{217}}$	96.9	97 ± 10	z_{re}	8.89	8.79 ± 1.1	$\sigma_8(0.57)$	0.6065	0.6072 ± 0.0098
$\boldsymbol{A^{kSZ}}$	0.00	< 4.55	$10^9 A_s$	2.140	$2.140^{+0.049}_{-0.056}$	f^{143}_{2000}	29.39	29.9 ± 2.9
$\boldsymbol{A^{dustTT}_{100}}$	7.49	$7.47^{+2.0}_{-1.8}$	$10^9 A_s e^{-2\tau}$	1.8724	1.875 ± 0.017	$f^{143\times217}_{2000}$	32.24	32.4 ± 2.1
$\boldsymbol{A^{dustTT}_{143}}$	9.11	9.10 ± 1.8	D_{40}	1229.1	1230 ± 13	f^{217}_{2000}	105.74	106.0 ± 2.0
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.73	17.2 ± 4.1	D_{220}	5723.8	5726 ± 39	$\chi^2_{\mathrm{lensing}}$	9.62	10.3 ± 1.8
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.7 ± 7.3	D_{810}	2532.0	2533 ± 14	χ^2_{lowTEB}	10495.32	10495.7 ± 1.3
$\boldsymbol{A^{dustEE}_{100}}$	0.0816	0.0813 ± 0.0056	D_{1420}	814.89	814.9 ± 4.9	χ^2_{plik}	2435.1	2454.1 ± 6.7
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04915	0.0493 ± 0.0049	D_{2000}	230.34	230.2 ± 1.8	χ^2_{H070p6}	0.83	0.89 ± 0.62
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0988	$0.0999^{+0.035}_{-0.031}$	$n_{s,0.002}$	0.9661	0.9664 ± 0.0071	χ^2_{JLA}	706.684	706.73 ± 0.19
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	$0.1006^{+0.0077}_{-0.0067}$	Y_P	0.24494	0.2452 ± 0.0024	χ^2_{6DF}	0.0154	0.046 ± 0.063
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2233	0.224 ± 0.047	Y_P^{BBN}	0.24627	0.2466 ± 0.0024	χ^2_{MGS}	1.343	1.41 ± 0.49
$\boldsymbol{A^{dustEE}_{217}}$	0.650	0.65 ± 0.13	$10^5\mathrm{D/H}$	2.5967	2.604 ± 0.044	$\chi^2_{\mathrm{DR11CMASS}}$	2.422	2.76 ± 0.50
$\boldsymbol{A^{dustTE}_{100}}$	0.1406	$0.140^{+0.041}_{-0.037}$	Age/Gyr	13.829	13.81 ± 0.17	$\chi^2_{\mathrm{DR11LOWZ}}$	0.543	0.65 ± 0.50
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1314	0.131 ± 0.029	z_*	1089.839	1089.90 ± 0.33	χ^2_{prior}	7.13	19.6 ± 5.7
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.303 ± 0.084	r_*	145.11	144.9 ± 1.7	χ^2_{CMB}	12940.0	12960.1 ± 6.5
$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.153 ± 0.053	$100\theta_*$	1.04116	1.04115 ± 0.00050	χ^2_{BAO}	4.323	4.86 ± 0.74

Best-fit $\chi^2_{\rm eff} = 13659.02$; $\bar{\chi}^2_{\rm eff} = 13692.20$; $R - 1 = 0.03612$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.42 DR11LOWZ: 0.54 CMB - smica_g30_ftl_full_pp: 9.62 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.32 plik_dx11dr2_HM_v18_TTT
2435.11 Hubble - H070p6: 0.83 SN - JLA December_2013: 706.68

11.41 base_nnu_plikHM_TTTEEE_lowTEB_BAO_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022240	0.02222 ± 0.00019	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335	0.335 ± 0.081	D_A/Gpc	13.973	13.97 ± 0.16
$\boldsymbol{\Omega_c h^2}$	0.11771	0.1179 ± 0.0029	$\boldsymbol{A^{dustTE}_{217}}$	1.659	1.67 ± 0.25	z_{drag}	1059.40	1059.38 ± 0.72
$\boldsymbol{100\theta_{MC}}$	1.041036	1.04103 ± 0.00042	$\boldsymbol{c_{100}}$	0.99814	0.99812 ± 0.00077	r_{drag}	148.22	148.2 ± 1.8
$\boldsymbol{\tau}$	0.0652	0.064 ± 0.012	$\boldsymbol{c_{217}}$	0.99599	0.9960 ± 0.0014	k_D	0.13987	0.1399 ± 0.0013
$\boldsymbol{N_{eff}}$	2.972	2.98 ± 0.18	H_0	67.23	67.2 ± 1.2	$100\theta_D$	0.160746	0.16077 ± 0.00040
$\boldsymbol{\ln(10^{10}A_s)}$	3.0592	3.057 ± 0.024	Ω_Λ	0.6889	0.6881 ± 0.0075	z_{eq}	3377.8	3381 ± 26
$\boldsymbol{n_s}$	0.9644	0.9637 ± 0.0076	Ω_m	0.3111	0.3119 ± 0.0075	k_{eq}	0.010258	0.01027 ± 0.00011
$\boldsymbol{y_{cal}}$	1.00008	1.0001 ± 0.0026	$\Omega_m h^2$	0.14060	0.1408 ± 0.0030	$100\theta_{eq}$	0.81734	0.8168 ± 0.0051
$\boldsymbol{A^{CIB}_{217}}$	66.8	64.2 ± 6.8	$\Omega_m h^3$	0.09452	0.0946 ± 0.0035	$100\theta_{s,eq}$	0.45159	0.4513 ± 0.0026
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.07	—	σ_8	0.8121	0.812 ± 0.012	$r_{drag}/D_V(0.57)$	0.071620	0.07158 ± 0.00039
$\boldsymbol{A^{tSZ}_{143}}$	7.30	5.35 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4530	0.4534 ± 0.0062	$H(0.57)$	92.50	92.5 ± 1.3
$\boldsymbol{A^{PS}_{100}}$	255.0	259 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6065	0.6067 ± 0.0079	$D_A(0.57)$	1395.3	1396 ± 22
$\boldsymbol{A^{PS}_{143}}$	38.3	43 ± 8	$\sigma_8/h^{0.5}$	0.9905	0.991 ± 0.010	$F_{AP}(0.57)$	0.67592	0.6761 ± 0.0019
$\boldsymbol{A^{PS}_{143\times217}}$	33.7	39 ± 10	$\langle d^2\rangle^{1/2}$	2.4555	2.456 ± 0.025	$f\sigma_8(0.57)$	0.4721	0.4721 ± 0.0064
$\boldsymbol{A^{PS}_{217}}$	97.4	96 ± 10	z_{re}	8.74	8.62 ± 1.1	$\sigma_8(0.57)$	0.6043	0.604 ± 0.010
$\boldsymbol{A^{kSZ}}$	0.00	< 4.42	$10^9 A_s$	2.131	$2.128^{+0.049}_{-0.057}$	f^{143}_{2000}	29.06	29.6 ± 2.9
$\boldsymbol{A^{dustTT}_{100}}$	7.48	$7.47^{+2.0}_{-1.8}$	$10^9 A_s e^{-2\tau}$	1.8705	1.871 ± 0.018	$f^{143\times217}_{2000}$	31.97	32.2 ± 2.1
$\boldsymbol{A^{dustTT}_{143}}$	9.10	9.06 ± 1.8	D_{40}	1231.0	1233 ± 14	f^{217}_{2000}	105.59	105.8 ± 2.0
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.59	17.2 ± 4.1	D_{220}	5723.7	5725 ± 39	$\chi^2_{lensing}$	9.55	10.2 ± 1.8
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.7 ± 7.4	D_{810}	2532.6	2532 ± 14	χ^2_{lowTEB}	10495.48	10496.0 ± 1.4
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0812 ± 0.0056	D_{1420}	815.50	815.0 ± 4.9	χ^2_{plik}	2434.8	2453.7 ± 6.6
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04927	0.0491 ± 0.0049	D_{2000}	230.66	230.5 ± 1.8	χ^2_{6DF}	0.0290	0.071 ± 0.088
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0997	$0.100^{+0.035}_{-0.032}$	$n_{s,0.002}$	0.9644	0.9637 ± 0.0076	χ^2_{MGS}	1.217	1.24 ± 0.49
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	$0.1004^{+0.0075}_{-0.0068}$	Y_P	0.24433	0.2443 ± 0.0025	$\chi^2_{DR11CMASS}$	2.475	2.89 ± 0.69
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2258	0.225 ± 0.047	Y_P^{BBN}	0.24565	0.2456 ± 0.0025	$\chi^2_{DR11LOWZ}$	0.67	0.85 ± 0.62
$\boldsymbol{A^{dustEE}_{217}}$	0.656	0.65 ± 0.13	10^5D/H	2.5902	2.594 ± 0.045	χ^2_{prior}	7.11	19.5 ± 5.6
$\boldsymbol{A^{dustTE}_{100}}$	0.1419	0.140 ± 0.038	Age/Gyr	13.875	13.88 ± 0.18	χ^2_{CMB}	12939.8	12960.0 ± 6.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1318	0.131 ± 0.029	z_*	1089.811	1089.85 ± 0.34	χ^2_{BAO}	4.39	5.05 ± 1.0
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.299	0.304 ± 0.083	r_*	145.50	145.5 ± 1.7			
$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.153 ± 0.053	$100\theta_*$	1.04128	1.04128 ± 0.00052			

Best-fit $\chi^2_{eff} = 12951.35$; $\bar{\chi}^2_{eff} = 12984.50$; $R - 1 = 0.02938$

χ^2_{eff}: BAO - 6DF: 0.03 MGS: 1.22 DR11CMASS: 2.48 DR11LOWZ: 0.67 CMB - smica_g30_ftl_full_pp: 9.55 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.48 plik_dx11dr2_HM_v18_TTT

11.42 base_nnu_CamSpecHM_TTTEEE_lowTEB_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02229 ± 0.00019 (-0.0σ)	H_0	66.8 ± 1.3 (-0.6σ)	$k_{\rm D}$	0.1395 ± 0.0014 (-0.7σ)
$\boldsymbol{\Omega_c h^2}$	0.1165 ± 0.0032 (-0.9σ)	Ω_Λ	0.6876 ± 0.0074 (-0.1σ)	$100\theta_{\rm D}$	0.16041 ± 0.00046 (-1.1σ)
$\boldsymbol{100\theta_{\rm MC}}$	1.04116 ± 0.00045 $(+0.7\sigma)$	$\Omega_{\rm m}$	0.3124 ± 0.0074 $(+0.1\sigma)$	$z_{\rm eq}$	3386 ± 27 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.078 ± 0.016 (-0.3σ)	$\Omega_{\rm m} h^2$	0.1394 ± 0.0033 (-0.9σ)	$100\theta_{\rm eq}$	0.8161 ± 0.0051 (-0.1σ)
$\boldsymbol{N_{\rm eff}}$	2.89 ± 0.19 (-0.8σ)	$\Omega_{\rm m} h^3$	0.0932 ± 0.0037 (-0.8σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07156 ± 0.00039 $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.080 ± 0.034 (-0.5σ)	σ_8	0.819 ± 0.017 (-0.7σ)	$H(0.57)$	92.0 ± 1.4 (-0.7σ)
$\boldsymbol{n_{\rm s}}$	0.9636 ± 0.0075 (-0.3σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4575 ± 0.0091 (-0.7σ)	$D_{\rm A}(0.57)$	1404 ± 23 $(+0.6\sigma)$
$\boldsymbol{y_{\rm cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.612 ± 0.012 (-0.8σ)	$F_{\rm AP}(0.57)$	0.6762 ± 0.0019 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{\rm PS}}$	239 ± 23 (-0.7σ)	$\sigma_8/h^{0.5}$	1.002 ± 0.017 (-0.6σ)	$f\sigma_8(0.57)$	0.4762 ± 0.0092 (-0.8σ)
$\boldsymbol{A_{143}^{\rm PS}}$	36 ± 8 (-0.9σ)	$\langle d^2 \rangle^{1/2}$	2.484 ± 0.039 (-0.5σ)	$\sigma_8(0.57)$	0.609 ± 0.013 (-0.7σ)
$\boldsymbol{A_{217}^{\rm PS}}$	100 ± 10 $(+0.2\sigma)$	$z_{\rm re}$	$9.83^{+1.6}_{-1.4}$ (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.2442 ± 0.0027 (-0.9σ)
$\boldsymbol{A_{217}^{\rm CIB}}$	44 ± 7 (-2.9σ)	$10^9 A_{\rm s}$	2.177 ± 0.074 (-0.5σ)	f_{2000}^{143}	27 ± 3 (-0.8σ)
$\boldsymbol{A_{143}^{\rm tSZ}}$	$3.61^{+1.8}_{-2.4}$ (-0.9σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.861 ± 0.019 (-1.0σ)	f_{2000}^{217}	105.0 ± 2.2 (-0.3σ)
$\boldsymbol{r_{143\times217}^{\rm PS}}$	0.52 ± 0.12	D_{40}	1234 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	30.1 ± 2.3 (-0.9σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	D_{220}	5713 ± 39 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10497.1 ± 2.2 (-0.3σ)
$\boldsymbol{A^{\rm kSZ}}$	$4.71^{+2.3}_{-3.8}$ $(+0.7\sigma)$	D_{810}	2528 ± 14 (-0.5σ)	$\chi^2_{\rm CamSpec}$	12951.4 ± 6.2
$\boldsymbol{A_{100}^{\rm dust}}$	0.98 ± 0.19	D_{1420}	816.2 ± 5.0 $(+0.2\sigma)$	$\chi^2_{\rm 6DF}$	0.075 ± 0.089 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{\rm dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	0.9636 ± 0.0075 (-0.3σ)	$\chi^2_{\rm MGS}$	1.20 ± 0.48 (-0.0σ)
$\boldsymbol{A_{217}^{\rm dust}}$	1.22 ± 0.12	$Y_{\rm P}$	0.2428 ± 0.0027 (-1.0σ)	$\chi^2_{\rm DR11CMASS}$	2.92 ± 0.70 (-0.0σ)
$\boldsymbol{A_{143\times217}^{\rm dust}}$	0.98 ± 0.18	Age/Gyr	13.95 ± 0.20 $(+0.7\sigma)$	$\chi^2_{\rm DR11LOWZ}$	0.89 ± 0.62 $(+0.0\sigma)$
$\boldsymbol{c_{100}}$	0.99680 ± 0.00097 (-1.8σ)	z_*	1089.54 ± 0.39 (-1.1σ)	$\chi^2_{\rm prior}$	9.01 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9969 ± 0.0018 $(+0.7\sigma)$	r_*	146.2 ± 1.9 $(+0.8\sigma)$	$\chi^2_{\rm CMB}$	23448.5 ± 6.0 $(+1580.1\sigma)$
$\boldsymbol{c_{TE}}$	1.0035 ± 0.0046	$100\theta_*$	1.04147 ± 0.00056 $(+0.7\sigma)$	$\chi^2_{\rm BAO}$	5.09 ± 1.0 (-0.0σ)
$\boldsymbol{c_{EE}}$	0.9993 ± 0.0047	$z_{\rm drag}$	1059.35 ± 0.72 (-0.5σ)		
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$r_{\rm drag}$	149.0 ± 2.0 $(+0.8\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23462.61$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.49$; $R - 1 = 0.00667$

11.43 base_nnu_plikHM_TT_lowTEB_nnup39

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022604	0.02259 ± 0.00024	Ω_m	0.2953	0.295 ± 0.013	$100\theta_*$	1.040431	1.04045 ± 0.00047
$\boldsymbol{\Omega_c h^2}$	0.12385	0.1238 ± 0.0023	$\Omega_m h^2$	0.14710	0.1470 ± 0.0022	D_A/Gpc	13.5908	13.593 ± 0.045
$\boldsymbol{100\theta_{MC}}$	1.040513	1.04053 ± 0.00048	$\Omega_m h^3$	0.103814	0.10378 ± 0.00050	z_{drag}	1061.039	1061.03 ± 0.47
$\boldsymbol{\tau}$	0.0917	0.090 ± 0.020	σ_8	0.8518	0.850 ± 0.015	r_{drag}	143.952	143.98 ± 0.48
$\boldsymbol{\ln(10^{10} A_s)}$	3.1277	3.123 ± 0.038	$\sigma_8 \Omega_m^{0.5}$	0.4629	0.462 ± 0.013	k_D	0.14295	0.14290 ± 0.00054
$\boldsymbol{n_s}$	0.9836	0.9832 ± 0.0064	$\sigma_8 \Omega_m^{0.25}$	0.6279	0.626 ± 0.013	$100\theta_D$	0.161708	0.16173 ± 0.00027
$\boldsymbol{y_{cal}}$	1.00018	1.0003 ± 0.0025	$\sigma_8/h^{0.5}$	1.0139	1.011 ± 0.020	z_{eq}	3325.7	3324 ± 50
$\boldsymbol{A_{217}^{CIB}}$	68.4	65.5 ± 6.6	$\langle d^2 \rangle^{1/2}$	2.4803	2.476 ± 0.046	k_{eq}	0.010413	0.01041 ± 0.00016
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	z_{re}	11.24	$11.0^{+1.8}_{-1.6}$	$100\theta_{eq}$	0.8279	0.8283 ± 0.0098
$\boldsymbol{A_{143}^{tSZ}}$	6.98	4.76 ± 2.0	$10^9 A_s$	2.282	2.274 ± 0.086	$100\theta_{s,eq}$	0.45681	0.4570 ± 0.0050
$\boldsymbol{A_{100}^{PS}}$	258.5	265 ± 28	$10^9 A_s e^{-2\tau}$	1.8997	1.900 ± 0.014	$r_{drag}/D_V(0.57)$	0.07243	0.07246 ± 0.00078
$\boldsymbol{A_{143}^{PS}}$	42.6	47 ± 8	D_{40}	1215.6	1217 ± 15	$H(0.57)$	95.941	95.95 ± 0.47
$\boldsymbol{A_{143\times217}^{PS}}$	34.8	39^{+9}_{-10}	D_{220}	5717.9	5721 ± 41	$D_A(0.57)$	1337.2	1337 ± 13
$\boldsymbol{A_{217}^{PS}}$	97.9	96 ± 10	D_{810}	2538.0	2538 ± 14	$F_{AP}(0.57)$	0.67188	0.6718 ± 0.0034
$\boldsymbol{A^{kSZ}}$	0.16	< 5.58	D_{1420}	813.3	813.0 ± 5.1	$f\sigma_8(0.57)$	0.4907	0.4893 ± 0.0097
$\boldsymbol{A_{100}^{dustTT}}$	7.57	7.55 ± 1.9	D_{2000}	228.87	228.7 ± 1.9	$\sigma_8(0.57)$	0.6378	0.636 ± 0.012
$\boldsymbol{A_{143}^{dustTT}}$	9.13	9.09 ± 1.8	$n_{s,0.002}$	0.9836	0.9832 ± 0.0064	f_{2000}^{143}	31.53	32.1 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.86	17.3 ± 4.2	Y_P	0.250648	0.25064 ± 0.00010	$f_{2000}^{143\times217}$	33.90	34.1 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.6 ± 7.4	Y_P^{BBN}	0.251993	0.25199 ± 0.00010	f_{2000}^{217}	107.30	107.5 ± 2.0
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00077	10^5D/H	2.6805	2.683 ± 0.045	χ^2_{lowTEB}	10495.36	10496.0 ± 2.7
$\boldsymbol{c_{217}}$	0.99606	0.9961 ± 0.0014	Age/Gyr	13.4108	13.411 ± 0.039	χ^2_{plik}	766.0	779.8 ± 5.9
H_0	70.57	70.6 ± 1.0	z_*	1090.339	1090.35 ± 0.44	χ^2_{prior}	2.04	7.43 ± 3.6
Ω_Λ	0.7047	0.705 ± 0.013	r_*	141.403	141.43 ± 0.49	χ^2_{CMB}	11261.4	11275.8 ± 5.6

Best-fit $\chi^2_{eff} = 11263.42$; $\bar{\chi}^2_{eff} = 11283.25$; $R - 1 = 0.00929$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.36 plik_dx11dr2_HM_v18_TT: 766.01

11.44 base_nnu_plikHM_TTTEEE_lowTEB_nnup39

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022615	0.02261 ± 0.00016	$\boldsymbol{A^{{\rm dust}TE}_{100\times217}}$	0.302	0.301 ± 0.084	10^5D/H	2.6784	2.680 ± 0.031
$\boldsymbol{\Omega_{\rm c}h^2}$	0.12490	0.1249 ± 0.0015	$\boldsymbol{A^{{\rm dust}TE}_{143}}$	0.154	0.154 ± 0.054	Age/Gyr	13.4218	13.422 ± 0.026
$\boldsymbol{100\theta_{\rm MC}}$	1.040264	1.04025 ± 0.00032	$\boldsymbol{A^{{\rm dust}TE}_{143\times217}}$	0.336	0.336 ± 0.080	z_*	1090.412	1090.42 ± 0.30
$\boldsymbol{\tau}$	0.0937	0.091 ± 0.018	$\boldsymbol{A^{{\rm dust}TE}_{217}}$	1.659	1.66 ± 0.26	r_*	141.141	141.15 ± 0.32
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.1345	3.130 ± 0.034	$\boldsymbol{c_{100}}$	0.99813	0.99812 ± 0.00077	$100\theta_*$	1.040173	1.04017 ± 0.00032
$\boldsymbol{n_{\rm s}}$	0.98104	0.9804 ± 0.0049	$\boldsymbol{c_{217}}$	0.99609	0.9961 ± 0.0014	$D_{\rm A}$/Gpc	13.5690	13.570 ± 0.029
$\boldsymbol{y_{\rm cal}}$	1.00023	1.0005 ± 0.0025	H_0	70.12	70.12 ± 0.69	$z_{\rm drag}$	1061.153	1061.14 ± 0.31
$\boldsymbol{A^{\rm CIB}_{217}}$	68.7	65.6 ± 6.6	Ω_Λ	0.6987	0.6985 ± 0.0088	$r_{\rm drag}$	143.678	143.68 ± 0.31
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	$\Omega_{\rm m}$	0.3013	0.3015 ± 0.0088	$k_{\rm D}$	0.143251	0.14324 ± 0.00034
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.31	5.08 ± 2.0	$\Omega_{\rm m}h^2$	0.14816	0.1482 ± 0.0015	$100\theta_{\rm D}$	0.161624	0.16163 ± 0.00018
$\boldsymbol{A^{\rm PS}_{100}}$	259.4	266 ± 28	$\Omega_{\rm m}h^3$	0.103897	0.10388 ± 0.00033	$z_{\rm eq}$	3349.8	3350 ± 33
$\boldsymbol{A^{\rm PS}_{143}}$	40.9	46 ± 8	σ_8	0.8571	0.855 ± 0.014	$k_{\rm eq}$	0.010488	0.01049 ± 0.00010
$\boldsymbol{A^{PS}_{143\times217}}$	34.4	40^{+10}_{-10}	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4705	0.4693 ± 0.0097	$100\theta_{\rm eq}$	0.8232	0.8233 ± 0.0064
$\boldsymbol{A^{\rm PS}_{217}}$	97.2	97 ± 10	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6350	0.633 ± 0.011	$100\theta_{\rm s,eq}$	0.45438	0.4544 ± 0.0033
$\boldsymbol{A^{\rm kSZ}}$	0.01	< 5.09	$\sigma_8/h^{0.5}$	1.0235	1.021 ± 0.017	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07205	0.07205 ± 0.00051
$\boldsymbol{A^{{\rm dust}TT}_{100}}$	7.49	7.57 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5047	2.500 ± 0.039	$H(0.57)$	95.770	$95.77^{+0.29}_{-0.33}$
$\boldsymbol{A^{{\rm dust}TT}_{143}}$	9.08	9.09 ± 1.8	$z_{\rm re}$	11.44	$11.2^{+1.7}_{-1.5}$	$D_{\rm A}(0.57)$	1342.7	1342.8 ± 8.7
$\boldsymbol{A^{{\rm dust}TT}_{143\times217}}$	17.66	17.3 ± 4.2	$10^9A_{\rm s}$	2.298	2.288 ± 0.078	$F_{\rm AP}(0.57)$	0.67342	0.6735 ± 0.0023
$\boldsymbol{A^{{\rm dust}TT}_{217}}$	81.6	81.6 ± 7.4	$10^9A_{\rm s}e^{-2\tau}$	1.9050	1.906 ± 0.012	$f\sigma_8(0.57)$	0.4955	0.4942 ± 0.0081
$\boldsymbol{A^{{\rm dust}EE}_{100}}$	0.0821	0.0820 ± 0.0057	D_{40}	1223.3	1225 ± 13	$\sigma_8(0.57)$	0.6402	0.639 ± 0.011
$\boldsymbol{A^{{\rm dust}EE}_{100\times143}}$	0.04985	0.0497 ± 0.0050	D_{220}	5723.9	5729 ± 39	f^{143}_{2000}	30.94	31.6 ± 2.7
$\boldsymbol{A^{{\rm dust}EE}_{100\times217}}$	0.0984	0.099 ± 0.032	D_{810}	2539.4	2540 ± 14	$f^{143\times217}_{2000}$	33.59	33.9 ± 1.9
$\boldsymbol{A^{{\rm dust}EE}_{143}}$	0.1013	0.1011 ± 0.0068	D_{1420}	813.21	813.2 ± 4.8	f^{217}_{2000}	106.97	107.3 ± 1.9
$\boldsymbol{A^{{\rm dust}EE}_{143\times217}}$	0.2205	0.221 ± 0.046	D_{2000}	228.97	228.9 ± 1.6	$\chi^2_{\rm lowTEB}$	10496.26	10496.7 ± 2.6
$\boldsymbol{A^{{\rm dust}EE}_{217}}$	0.647	0.64 ± 0.13	$n_{\rm s,0.002}$	0.98104	0.9804 ± 0.0049	$\chi^2_{\rm plik}$	2436.8	2456.1 ± 7.0
$\boldsymbol{A^{{\rm dust}TE}_{100}}$	0.1412	0.141 ± 0.038	$Y_{\rm P}$	0.250653	0.250650 ± 0.000071	$\chi^2_{\rm prior}$	7.56	19.9 ± 5.6
$\boldsymbol{A^{{\rm dust}TE}_{100\times143}}$	0.1317	0.131 ± 0.029	$Y^{\rm BBN}_{\rm P}$	0.251998	0.251995 ± 0.000071	$\chi^2_{\rm CMB}$	12933.0	12952.9 ± 6.7

Best-fit $\chi^2_{\rm eff} = 12940.62$; $\bar{\chi}^2_{\rm eff} = 12972.81$; $R - 1 = 0.00717$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.26 plik_dx11dr2_HM_v18_TTTEEE: 2436.79

11.45 base_nnu_plikHM_TT_lowTEB_nnup57

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022748	0.02277 ± 0.00024	Ω_m	0.2872	0.287 ± 0.013	$100\theta_*$	1.040157	1.04019 ± 0.00046
$\boldsymbol{\Omega_c h^2}$	0.12571	0.1256 ± 0.0024	$\Omega_m h^2$	0.14910	0.1490 ± 0.0023	D_A/Gpc	13.4615	13.463 ± 0.045
$\boldsymbol{100\theta_{MC}}$	1.040366	1.04040 ± 0.00047	$\Omega_m h^3$	0.10744	0.10747 ± 0.00051	z_{drag}	1061.649	1061.69 ± 0.47
$\boldsymbol{\tau}$	0.0954	0.098 ± 0.020	σ_8	0.8595	0.861 ± 0.015	r_{drag}	142.504	142.51 ± 0.48
$\boldsymbol{\ln(10^{10} A_s)}$	3.1396	3.145 ± 0.038	$\sigma_8 \Omega_m^{0.5}$	0.4606	0.461 ± 0.013	k_D	0.14399	0.14399 ± 0.00054
$\boldsymbol{n_s}$	0.9910	0.9914 ± 0.0067	$\sigma_8 \Omega_m^{0.25}$	0.6292	0.630 ± 0.013	$100\theta_D$	0.162084	0.16207 ± 0.00027
$\boldsymbol{y_{cal}}$	1.00033	1.0005 ± 0.0025	$\sigma_8/h^{0.5}$	1.0126	1.014 ± 0.020	z_{eq}	3295	3293 ± 50
$\boldsymbol{A_{217}^{CIB}}$	69.2	66.0 ± 6.7	$\langle d^2 \rangle^{1/2}$	2.4676	2.472 ± 0.045	k_{eq}	0.010436	0.01043 ± 0.00016
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	z_{re}	11.59	$11.7^{+1.8}_{-1.5}$	$100\theta_{eq}$	0.8340	0.835 ± 0.010
$\boldsymbol{A_{143}^{tSZ}}$	6.09	4.61 ± 2.0	$10^9 A_s$	2.309	2.324 ± 0.087	$100\theta_{s,eq}$	0.4599	0.4602 ± 0.0051
$\boldsymbol{A_{100}^{PS}}$	265.0	268 ± 28	$10^9 A_s e^{-2\tau}$	1.9083	1.908 ± 0.015	$r_{drag}/D_V(0.57)$	0.07290	0.07296 ± 0.00081
$\boldsymbol{A_{143}^{PS}}$	44.0	48 ± 8	D_{40}	1207.2	1209 ± 15	$H(0.57)$	97.33	97.39 ± 0.50
$\boldsymbol{A_{143\times217}^{PS}}$	33.4	40^{+9}_{-10}	D_{220}	5721.4	5725 ± 41	$D_A(0.57)$	1313.9	1313 ± 13
$\boldsymbol{A_{217}^{PS}}$	95.6	96 ± 10	D_{810}	2540.0	2541 ± 14	$F_{AP}(0.57)$	0.66974	0.6696 ± 0.0034
$\boldsymbol{A^{kSZ}}$	1.81	< 5.91	D_{1420}	812.5	812.8 ± 5.0	$f\sigma_8(0.57)$	0.4927	0.4935 ± 0.0097
$\boldsymbol{A_{100}^{dustTT}}$	7.49	7.57 ± 1.9	D_{2000}	228.00	228.2 ± 1.8	$\sigma_8(0.57)$	0.6458	0.648 ± 0.012
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.13 ± 1.8	$n_{s,0.002}$	0.9910	0.9914 ± 0.0067	f_{2000}^{143}	32.95	32.9 ± 3.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.57	17.3 ± 4.2	Y_P	0.252987	0.25300 ± 0.00011	$f_{2000}^{143\times217}$	34.93	34.8 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	81.7	81.7 ± 7.5	Y_P^{BBN}	0.254340	0.25435 ± 0.00011	f_{2000}^{217}	108.29	108.1 ± 2.1
$\boldsymbol{c_{100}}$	0.99790	0.99790 ± 0.00078	10^5D/H	2.7139	2.711 ± 0.046	χ^2_{lowTEB}	10494.90	10496.1 ± 2.9
$\boldsymbol{c_{217}}$	0.99626	0.9962 ± 0.0015	Age/Gyr	13.2377	13.234 ± 0.039	χ^2_{plik}	767.8	781.1 ± 5.9
H_0	72.06	72.1 ± 1.1	z_*	1090.483	1090.45 ± 0.45	χ^2_{prior}	2.33	7.47 ± 3.6
Ω_Λ	0.7128	0.713 ± 0.013	r_*	140.020	140.04 ± 0.49	χ^2_{CMB}	11262.7	11277.3 ± 5.6

Best-fit $\chi^2_{eff} = 11265.05$; $\bar{\chi}^2_{eff} = 11284.75$; $R - 1 = 0.00538$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.90 plik_dx11dr2_HM_v18_TT: 767.82

11.46 base_nnu_plikHM_TTTEEE_lowTEB_nnup57

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022771	0.02276 ± 0.00016	$\boldsymbol{A^{\rm dust}_{100\times217}}$	0.303	0.302 ± 0.084	10^5D/H	2.7095	2.712 ± 0.031
$\boldsymbol{\Omega_{\rm c}h^2}$	0.12727	0.1273 ± 0.0016	$\boldsymbol{A^{\rm dust}_{143}}$	0.155	0.154 ± 0.054	Age/Gyr	13.2518	13.253 ± 0.026
$\boldsymbol{100\theta_{\rm MC}}$	1.040025	1.04002 ± 0.00032	$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.335	0.338 ± 0.081	z_*	1090.588	1090.61 ± 0.30
$\boldsymbol{\tau}$	0.0985	0.096 ± 0.017	$\boldsymbol{A^{\rm dust}_{217}}$	1.659	1.67 ± 0.25	r_*	139.634	139.64 ± 0.31
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.1495	3.145 ± 0.033	$\boldsymbol{c_{100}}$	0.99812	0.99810 ± 0.00077	$100\theta_*$	1.039814	1.03981 ± 0.00032
$\boldsymbol{n_{\rm s}}$	0.98802	0.9875 ± 0.0049	$\boldsymbol{c_{217}}$	0.99615	0.9962 ± 0.0014	$D_{\rm A}$/Gpc	13.4288	13.429 ± 0.029
$\boldsymbol{y_{\rm cal}}$	1.00029	1.0005 ± 0.0025	H_0	71.41	71.40 ± 0.71	$z_{\rm drag}$	1061.802	1061.79 ± 0.31
$\boldsymbol{A^{\rm CIB}_{217}}$	68.9	66.3 ± 6.6	Ω_Λ	0.7045	0.7042 ± 0.0086	$r_{\rm drag}$	142.103	142.11 ± 0.30
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	$\Omega_{\rm m}$	0.2955	0.2958 ± 0.0086	$k_{\rm D}$	0.144455	0.14443 ± 0.00033
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.13	4.92 ± 2.0	$\Omega_{\rm m}h^2$	0.15069	0.1507 ± 0.0015	$100\theta_{\rm D}$	0.161951	0.16197 ± 0.00018
$\boldsymbol{A^{\rm PS}_{100}}$	263.1	269 ± 28	$\Omega_{\rm m}h^3$	0.107607	0.10758 ± 0.00033	$z_{\rm eq}$	3330.8	3331 ± 33
$\boldsymbol{A^{\rm PS}_{143}}$	42.9	47 ± 8	σ_8	0.8677	0.866 ± 0.014	$k_{\rm eq}$	0.010548	0.01055 ± 0.00010
$\boldsymbol{A^{PS}_{143\times217}}$	35.3	40^{+10}_{-10}	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4717	0.4707 ± 0.0098	$100\theta_{\rm eq}$	0.8272	0.8272 ± 0.0065
$\boldsymbol{A^{\rm PS}_{217}}$	97.7	96 ± 10	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6398	0.638 ± 0.011	$100\theta_{\rm s,eq}$	0.45629	0.4563 ± 0.0033
$\boldsymbol{A^{\rm kSZ}}$	0.27	< 5.56	$\sigma_8/h^{0.5}$	1.0268	1.024 ± 0.017	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07235	0.07235 ± 0.00052
$\boldsymbol{A^{\rm dust}_{100}}^{TT}$	7.59	7.66 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5015	2.497 ± 0.039	$H(0.57)$	97.089	97.08 ± 0.32
$\boldsymbol{A^{\rm dust}_{143}}^{TT}$	9.20	9.15 ± 1.8	$z_{\rm re}$	11.88	$11.6^{+1.6}_{-1.4}$	$D_{\rm A}(0.57)$	1321.5	1321.8 ± 8.6
$\boldsymbol{A^{\rm dust}_{143\times217}}^{TT}$	18.03	17.3 ± 4.2	$10^9A_{\rm s}$	2.332	2.323 ± 0.078	$F_{\rm AP}(0.57)$	0.67193	0.6720 ± 0.0022
$\boldsymbol{A^{\rm dust}_{217}}^{TT}$	82.0	81.4 ± 7.4	$10^9A_{\rm s}e^{-2\tau}$	1.9152	1.916 ± 0.013	$f\sigma_8(0.57)$	0.4999	0.4987 ± 0.0082
$\boldsymbol{A^{\rm dust}_{100}}^{EE}$	0.0822	0.0823 ± 0.0056	D_{40}	1216.2	1217 ± 13	$\sigma_8(0.57)$	0.6497	0.648 ± 0.011
$\boldsymbol{A^{\rm dust}_{100\times143}}^{EE}$	0.04993	0.0501 ± 0.0050	D_{220}	5724.4	5727 ± 39	f^{143}_{2000}	31.94	32.5 ± 2.7
$\boldsymbol{A^{\rm dust}_{100\times217}}^{EE}$	0.0985	0.099 ± 0.033	D_{810}	2541.8	2542 ± 14	$f^{143\times217}_{2000}$	34.37	34.6 ± 1.9
$\boldsymbol{A^{\rm dust}_{143}}^{EE}$	0.1016	0.1015 ± 0.0068	D_{1420}	812.61	812.4 ± 4.8	f^{217}_{2000}	107.67	107.9 ± 1.9
$\boldsymbol{A^{\rm dust}_{143\times217}}^{EE}$	0.2203	0.219 ± 0.047	D_{2000}	228.28	228.1 ± 1.6	$\chi^2_{\rm lowTEB}$	10496.02	10496.4 ± 2.7
$\boldsymbol{A^{\rm dust}_{217}}^{EE}$	0.638	0.64 ± 0.13	$n_{\rm s,0.002}$	0.98802	0.9875 ± 0.0049	$\chi^2_{\rm plik}$	2441.4	2460.4 ± 7.0
$\boldsymbol{A^{\rm dust}_{100}}^{TE}$	0.1408	0.141 ± 0.038	$Y_{\rm P}$	0.252997	0.252991 ± 0.000071	$\chi^2_{\rm prior}$	7.66	20 ± 6
$\boldsymbol{A^{\rm dust}_{100\times143}}^{TE}$	0.1319	0.132 ± 0.029	$Y_{\rm P}^{\rm BBN}$	0.254350	0.254345 ± 0.000071	$\chi^2_{\rm CMB}$	12937.5	12956.8 ± 6.8

Best-fit $\chi^2_{\rm eff} = 12945.11$; $\bar{\chi}^2_{\rm eff} = 12977.07$; $R - 1 = 0.01276$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.02 plik_dx11dr2_HM_v18_TTTEEE: 2441.43

11.47 base_nnu_plikHM_TT_lowTEB_nnu1

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.023135	0.02316 ± 0.00025	Ω_m	0.2667	$0.268^{+0.012}_{-0.013}$	$100\theta_*$	1.039652	1.03964 ± 0.00047
$\boldsymbol{\Omega_c h^2}$	0.12964	0.1298 ± 0.0025	$\Omega_m h^2$	0.15342	0.1536 ± 0.0024	D_A/Gpc	13.1723	13.168 ± 0.043
$\boldsymbol{100\theta_{MC}}$	1.040157	1.04014 ± 0.00048	$\Omega_m h^3$	0.11636	0.11643 ± 0.00055	z_{drag}	1063.137	1063.18 ± 0.47
$\boldsymbol{\tau}$	0.1112	0.113 ± 0.021	σ_8	0.8822	0.885 ± 0.017	r_{drag}	139.271	139.21 ± 0.46
$\boldsymbol{\ln(10^{10} A_s)}$	3.1791	3.184 ± 0.040	$\sigma_8 \Omega_m^{0.5}$	0.4556	0.458 ± 0.013	k_D	0.14640	0.14648 ± 0.00053
$\boldsymbol{n_s}$	1.0098	1.0101 ± 0.0069	$\sigma_8 \Omega_m^{0.25}$	0.6340	0.636 ± 0.014	$100\theta_D$	0.162915	0.16288 ± 0.00027
$\boldsymbol{y_{cal}}$	1.00040	1.0005 ± 0.0025	$\sigma_8/h^{0.5}$	1.0130	1.016 ± 0.020	z_{eq}	3218.7	3223 ± 50
$\boldsymbol{A_{217}^{CIB}}$	70.3	67.6 ± 6.7	$\langle d^2 \rangle^{1/2}$	2.4458	2.453 ± 0.046	k_{eq}	0.010462	0.01048 ± 0.00016
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.593	z_{re}	12.93	$13.0^{+1.9}_{-1.5}$	$100\theta_{eq}$	0.8501	0.850 ± 0.010
$\boldsymbol{A_{143}^{tSZ}}$	4.75	$4.19^{+2.0}_{-2.3}$	$10^9 A_s$	2.402	2.416 ± 0.098	$100\theta_{s,eq}$	0.4679	0.4676 ± 0.0053
$\boldsymbol{A_{100}^{PS}}$	276.8	275 ± 28	$10^9 A_s e^{-2\tau}$	1.9234	1.925 ± 0.015	$r_{drag}/D_V(0.57)$	0.07417	0.07414 ± 0.00084
$\boldsymbol{A_{143}^{PS}}$	46.4	51 ± 8	D_{40}	1187.7	1190 ± 14	$H(0.57)$	100.78	100.80 ± 0.56
$\boldsymbol{A_{143\times217}^{PS}}$	31.6	40^{+9}_{-10}	D_{220}	5725.5	5727 ± 41	$D_A(0.57)$	1258.6	1259 ± 13
$\boldsymbol{A_{217}^{PS}}$	92.4	96 ± 10	D_{810}	2542.9	2544 ± 14	$F_{AP}(0.57)$	0.66427	0.6645 ± 0.0033
$\boldsymbol{A^{kSZ}}$	4.52	$5.19^{+3.6}_{-2.6}$	D_{1420}	810.8	811.5 ± 5.2	$f\sigma_8(0.57)$	0.4987	0.500 ± 0.010
$\boldsymbol{A_{100}^{dustTT}}$	7.65	7.68 ± 1.9	D_{2000}	226.27	226.6 ± 1.9	$\sigma_8(0.57)$	0.6688	0.671 ± 0.013
$\boldsymbol{A_{143}^{dustTT}}$	9.16	9.18 ± 1.8	$n_{s,0.002}$	1.0098	1.0101 ± 0.0069	f_{2000}^{143}	35.40	35.0 ± 3.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.02	17.5 ± 4.2	Y_P	0.258339	$0.25835^{+0.00011}_{-0.00010}$	$f_{2000}^{143\times217}$	36.72	36.5 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	80.8	81.5 ± 7.4	Y_P^{BBN}	0.259712	$0.25972^{+0.00011}_{-0.00010}$	f_{2000}^{217}	109.97	109.6 ± 2.1
$\boldsymbol{c_{100}}$	0.99787	0.99791 ± 0.00077	10^5D/H	2.7819	2.778 ± 0.047	χ^2_{lowTEB}	10495.37	10496.6 ± 3.8
$\boldsymbol{c_{217}}$	0.99637	0.9963 ± 0.0014	Age/Gyr	12.8361	12.834 ± 0.040	χ^2_{plik}	772.2	785.8 ± 6.4
H_0	75.84	75.8 ± 1.2	z_*	1090.726	1090.71 ± 0.46	χ^2_{prior}	2.87	7.61 ± 3.6
Ω_Λ	0.7333	$0.732^{+0.013}_{-0.012}$	r_*	136.946	136.90 ± 0.47	χ^2_{CMB}	11267.5	11282.5 ± 5.6

Best-fit $\chi^2_{eff} = 11270.42$; $\bar{\chi}^2_{eff} = 11290.08$; $R - 1 = 0.00663$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.37 plik_dx11dr2_HM_v18_TT: 772.19

11.48 base_nnu_plikHM_TTTEEE_lowTEB_nnu1

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.023117	0.02313 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.300	0.301 ± 0.085	10^5D/H	2.7853	2.783 ± 0.031
$\boldsymbol{\Omega_c h^2}$	0.13287	0.1328 ± 0.0016	$\boldsymbol{A^{dustTE}_{143}}$	0.152	0.152 ± 0.054	Age/Gyr	12.8680	12.866 ± 0.025
$\boldsymbol{100\theta_{MC}}$	1.039565	1.03957 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.334	0.333 ± 0.080	z_*	1091.008	1090.99 ± 0.30
$\boldsymbol{\tau}$	0.1083	0.110 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.662	1.66 ± 0.26	r_*	136.244	136.25 ± 0.30
$\boldsymbol{\ln(10^{10}A_s)}$	3.1795	3.184 ± 0.034	$\boldsymbol{c_{100}}$	0.99803	0.99805 ± 0.00077	$100\theta_*$	1.039064	1.03907 ± 0.00032
$\boldsymbol{n_s}$	1.0036	1.0041 ± 0.0050	$\boldsymbol{c_{217}}$	0.99642	0.9964 ± 0.0015	D_A/Gpc	13.1122	13.113 ± 0.028
$\boldsymbol{y_{cal}}$	1.00025	1.0005 ± 0.0024	H_0	74.47	74.52 ± 0.73	z_{drag}	1063.290	1063.33 ± 0.30
$\boldsymbol{A^{CIB}_{217}}$	70.8	68.0 ± 6.7	Ω_Λ	0.7176	0.7179 ± 0.0082	r_{drag}	138.562	138.56 ± 0.30
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.581	Ω_m	0.2824	0.2821 ± 0.0082	k_D	0.147212	0.14722 ± 0.00034
$\boldsymbol{A^{tSZ}_{143}}$	5.62	4.61 ± 2.0	$\Omega_m h^2$	0.15663	0.1566 ± 0.0016	$100\theta_D$	0.162753	0.16274 ± 0.00018
$\boldsymbol{A^{PS}_{100}}$	275.5	275 ± 28	$\Omega_m h^3$	0.116643	0.11666 ± 0.00035	z_{eq}	3286.4	3285 ± 33
$\boldsymbol{A^{PS}_{143}}$	45.4	50 ± 8	σ_8	0.8908	0.892 ± 0.014	k_{eq}	0.010682	0.01068 ± 0.00011
$\boldsymbol{A^{PS}_{143\times217}}$	32.7	40^{+9}_{-10}	$\sigma_8\Omega_m^{0.5}$	0.4734	0.4740 ± 0.0099	$100\theta_{eq}$	0.8364	0.8367 ± 0.0066
$\boldsymbol{A^{PS}_{217}}$	92.8	95 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6494	0.650 ± 0.011	$100\theta_{s,eq}$	0.46085	0.4610 ± 0.0034
$\boldsymbol{A^{kSZ}}$	3.39	—	$\sigma_8/h^{0.5}$	1.0322	1.034 ± 0.017	$r_{drag}/D_V(0.57)$	0.07307	0.07310 ± 0.00053
$\boldsymbol{A^{dustTT}_{100}}$	7.78	7.78 ± 1.9	$\langle d^2\rangle^{1/2}$	2.4902	2.494 ± 0.039	$H(0.57)$	100.217	100.25 ± 0.34
$\boldsymbol{A^{dustTT}_{143}}$	9.33	9.32 ± 1.8	z_{re}	12.79	$12.9^{+1.5}_{-1.3}$	$D_A(0.57)$	1273.7	1273.2 ± 8.4
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.55	17.6 ± 4.2	$10^9 A_s$	2.404	2.415 ± 0.081	$F_{AP}(0.57)$	0.66849	0.6684 ± 0.0022
$\boldsymbol{A^{dustTT}_{217}}$	81.2	81.4 ± 7.4	$10^9 A_s e^{-2\tau}$	1.9353	1.937 ± 0.012	$f\sigma_8(0.57)$	0.5090	0.5098 ± 0.0084
$\boldsymbol{A^{dustEE}_{100}}$	0.0833	0.0832 ± 0.0056	D_{40}	1199.5	1201 ± 13	$\sigma_8(0.57)$	0.6706	0.672 ± 0.011
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.05100	0.0510 ± 0.0050	D_{220}	5721.1	5725 ± 38	f^{143}_{2000}	34.75	34.5 ± 2.8
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0985	0.098 ± 0.033	D_{810}	2544.4	2546 ± 13	$f^{143\times217}_{2000}$	36.44	36.3 ± 2.0
$\boldsymbol{A^{dustEE}_{143}}$	0.1025	0.1025 ± 0.0069	D_{1420}	810.05	810.9 ± 4.6	f^{217}_{2000}	109.57	109.4 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2158	0.216 ± 0.047	D_{2000}	226.27	226.6 ± 1.6	χ^2_{lowTEB}	10495.71	10496.6 ± 3.2
$\boldsymbol{A^{dustEE}_{217}}$	0.634	0.63 ± 0.13	$n_{s,0.002}$	1.0036	1.0041 ± 0.0050	χ^2_{plik}	2455.7	2474.5 ± 7.3
$\boldsymbol{A^{dustTE}_{100}}$	0.1404	0.140 ± 0.038	Y_P	0.258332	0.258338 ± 0.000069	χ^2_{prior}	9.04	21 ± 6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1311	0.131 ± 0.029	Y_P^{BBN}	0.259704	0.259710 ± 0.000069	χ^2_{CMB}	12951.4	12971.2 ± 6.9

Best-fit $\chi^2_{eff} = 12960.48$; $\bar{\chi}^2_{eff} = 12992.28$; $R - 1 = 0.00975$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.71 plik_dx11dr2_HM_v18_TTTEEE: 2455.73

11.49 base_nnu_plikHM_TT_lowTEB_nnup39_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022503	0.02249 ± 0.00020	$\Omega_m h^3$	0.103802	0.10376 ± 0.00049	k_D	0.143149	0.14309 ± 0.00045
$\boldsymbol{\Omega_c h^2}$	0.12532	0.1252 ± 0.0014	σ_8	0.8522	0.851 ± 0.015	$100\theta_D$	0.161778	0.16180 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.040352	1.04036 ± 0.00042	$\sigma_8\Omega_m^{0.5}$	0.4697	0.468 ± 0.010	z_{eq}	3356.8	3354 ± 30
$\boldsymbol{\tau}$	0.0855	0.085 ± 0.018	$\sigma_8\Omega_m^{0.25}$	0.6327	0.631 ± 0.012	k_{eq}	0.010510	0.010500 ± 0.000094
$\boldsymbol{\ln(10^{10} A_s)}$	3.1193	3.117 ± 0.036	$\sigma_8/h^{0.5}$	1.0192	1.017 ± 0.018	$100\theta_{eq}$	0.8217	0.8223 ± 0.0056
$\boldsymbol{n_s}$	0.97989	0.9799 ± 0.0045	$\langle d^2 \rangle^{1/2}$	2.4927	2.489 ± 0.044	$100\theta_{s,eq}$	0.45368	0.4540 ± 0.0029
$\boldsymbol{y_{cal}}$	1.00048	1.0004 ± 0.0025	z_{re}	10.77	$10.6^{+1.8}_{-1.5}$	$r_{drag}/D_V(0.57)$	0.071935	0.07198 ± 0.00044
$\boldsymbol{A_{217}^{CIB}}$	68.8	65.7 ± 6.6	$10^9 A_s$	2.263	2.259 ± 0.081	$H(0.57)$	95.662	95.67 ± 0.29
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.9074	1.906 ± 0.012	$D_A(0.57)$	1345.5	1345.0 ± 7.7
$\boldsymbol{A_{143}^{tSZ}}$	6.76	4.70 ± 2.0	D_{40}	1221.8	1222 ± 13	$F_{AP}(0.57)$	0.67405	0.6739 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	260.8	266 ± 28	D_{220}	5717.1	5716 ± 40	$f\sigma_8(0.57)$	0.4933	0.4923 ± 0.0090
$\boldsymbol{A_{143}^{PS}}$	43.5	48 ± 8	D_{810}	2540.8	2540 ± 14	$\sigma_8(0.57)$	0.6359	0.635 ± 0.011
$\boldsymbol{A_{143\times217}^{PS}}$	34.8	40^{+9}_{-10}	D_{1420}	813.0	812.6 ± 5.0	f_{2000}^{143}	32.15	32.6 ± 2.9
$\boldsymbol{A_{217}^{PS}}$	97.5	97 ± 10	D_{2000}	228.56	228.4 ± 1.8	$f_{2000}^{143\times217}$	34.39	34.5 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.62	< 5.62	$n_{s,0.002}$	0.97989	0.9799 ± 0.0045	f_{2000}^{217}	107.79	107.9 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.45	7.52 ± 1.9	Y_P	0.250603	0.250599 ± 0.000089	χ^2_{lowTEB}	10495.24	10495.9 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	9.04	9.06 ± 1.9	Y_P^{BBN}	0.251949	0.251944 ± 0.000089	χ^2_{plik}	766.5	779.6 ± 5.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.82	17.3 ± 4.2	10^5D/H	2.7000	2.702 ± 0.039	χ^2_{6DF}	0.0000	0.043 ± 0.060
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.6 ± 7.4	Age/Gyr	13.4316	13.432 ± 0.028	χ^2_{MGS}	1.68	1.81 ± 0.62
$\boldsymbol{c_{100}}$	0.99793	0.99788 ± 0.00078	z_*	1090.593	1090.60 ± 0.31	$\chi^2_{DR11CMASS}$	2.496	3.00 ± 0.76
$\boldsymbol{c_{217}}$	0.99617	0.9961 ± 0.0015	r_*	141.121	141.16 ± 0.32	$\chi^2_{DR11LOWZ}$	0.282	0.39 ± 0.43
H_0	69.91	69.96 ± 0.60	$100\theta_*$	1.040278	1.04029 ± 0.00041	χ^2_{prior}	2.13	7.49 ± 3.6
Ω_Λ	0.6963	$0.6968^{+0.0082}_{-0.0074}$	D_A/Gpc	13.5657	13.569 ± 0.031	χ^2_{CMB}	11261.8	11275.5 ± 5.4
Ω_m	0.3037	$0.3032^{+0.0074}_{-0.0082}$	z_{drag}	1060.925	1060.89 ± 0.44	χ^2_{BAO}	4.46	5.24 ± 1.2
$\Omega_m h^2$	0.14847	0.1483 ± 0.0013	r_{drag}	143.695	143.74 ± 0.34			

Best-fit $\chi^2_{eff} = 11268.34$; $\bar{\chi}^2_{eff} = 11288.24$; $R - 1 = 0.00687$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.68 DR11CMASS: 2.50 DR11LOWZ: 0.28 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.25 plik_dx11dr2_HM_v18_TT: 766.51

11.50 base_nnu_plikHM_TT_lowTEB_nnup39_BAO_post_lensing_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022477	0.02247 ± 0.00020	σ_8	0.8335	0.8332 ± 0.0094	$z_{\rm eq}$	3341.5	3339 ± 27
$\boldsymbol{\Omega_c h^2}$	0.12467	0.1246 ± 0.0013	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4569	0.4564 ± 0.0066	$k_{\rm eq}$	0.010462	0.010455 ± 0.000086
$\boldsymbol{100\theta_{\rm MC}}$	1.040407	1.04042 ± 0.00042	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6171	0.6166 ± 0.0071	$100\theta_{\rm eq}$	0.8245	0.8250 ± 0.0052
$\boldsymbol{\tau}$	0.0669	0.067 ± 0.013	$\sigma_8/h^{0.5}$	0.9953	0.995 ± 0.011	$100\theta_{\rm s,eq}$	0.45515	0.4554 ± 0.0027
$\boldsymbol{\ln(10^{10}A_s)}$	3.0797	3.079 ± 0.024	$\langle d^2\rangle^{1/2}$	2.4375	2.435 ± 0.026	$r_{\rm drag}/D_{\rm V}(0.57)$	0.072137	0.07217 ± 0.00041
$\boldsymbol{n_s}$	0.97996	0.9805 ± 0.0044	$z_{\rm re}$	9.04	8.98 ± 1.3	$H(0.57)$	95.724	95.73 ± 0.28
$\boldsymbol{y_{\rm cal}}$	1.00019	1.0002 ± 0.0025	$10^9 A_s$	2.175	2.175 ± 0.053	$D_{\rm A}(0.57)$	1342.9	1342.6 ± 7.2
$\boldsymbol{A_{217}^{\rm CIB}}$	69.2	66.6 ± 6.6	$10^9 A_s e^{-2\tau}$	1.9026	1.902 ± 0.011	$F_{\rm AP}(0.57)$	0.67320	0.6731 ± 0.0018
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.001	< 0.605	D_{40}	1212.4	1212 ± 12	$f\sigma_8(0.57)$	0.4816	0.4813 ± 0.0054
$\boldsymbol{A_{143}^{\rm tSZ}}$	6.07	$4.54^{+2.0}_{-2.2}$	D_{220}	5714.8	5712 ± 40	$\sigma_8(0.57)$	0.6228	0.6227 ± 0.0076
$\boldsymbol{A_{100}^{\rm PS}}$	266.4	269 ± 28	D_{810}	2538.2	2538 ± 14	f_{2000}^{143}	33.38	33.5 ± 2.8
$\boldsymbol{A_{143}^{\rm PS}}$	44.1	49 ± 8	D_{1420}	812.15	812.3 ± 4.9	$f_{2000}^{143\times217}$	35.24	35.2 ± 1.9
$\boldsymbol{A_{143\times217}^{PS}}$	33.2	40^{+9}_{-10}	D_{2000}	227.75	227.8 ± 1.7	f_{2000}^{217}	108.53	108.5 ± 1.9
$\boldsymbol{A_{217}^{\rm PS}}$	95.3	96 ± 10	$n_{\rm s,0.002}$	0.97996	0.9805 ± 0.0044	$\chi^2_{\rm lensing}$	9.94	10.5 ± 1.7
$\boldsymbol{A^{\rm kSZ}}$	2.26	$4.65^{+1.9}_{-4.2}$	$Y_{\rm P}$	0.250592	0.250587 ± 0.000087	$\chi^2_{\rm lowTEB}$	10493.58	10493.92 ± 0.88
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.58	7.55 ± 1.9	$Y_{\rm P}^{\rm BBN}$	0.251938	0.251933 ± 0.000087	$\chi^2_{\rm plik}$	769.0	782.1 ± 5.5
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.19	9.11 ± 1.9	10^5D/H	2.7049	2.707 ± 0.038	$\chi^2_{\rm H070p6}$	0.0194	0.044 ± 0.059
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.53	17.4 ± 4.3	Age/Gyr	13.4299	13.430 ± 0.028	$\chi^2_{\rm JLA}$	706.527	706.564 ± 0.095
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.5	81.6 ± 7.4	z_*	1090.568	1090.58 ± 0.30	$\chi^2_{\rm 6DF}$	0.0075	0.047 ± 0.067
$\boldsymbol{c_{100}}$	0.99791	0.99787 ± 0.00078	r_*	141.297	141.33 ± 0.30	$\chi^2_{\rm MGS}$	1.97	2.08 ± 0.60
$\boldsymbol{c_{217}}$	0.99621	0.9962 ± 0.0015	$100\theta_*$	1.040334	1.04035 ± 0.00041	$\chi^2_{\rm DR11CMASS}$	2.73	3.18 ± 0.94
H_0	70.14	70.17 ± 0.56	$D_{\rm A}$/Gpc	13.5819	13.585 ± 0.029	$\chi^2_{\rm DR11LOWZ}$	0.130	0.23 ± 0.29
Ω_Λ	0.6996	0.7000 ± 0.0070	$z_{\rm drag}$	1060.810	1060.79 ± 0.44	$\chi^2_{\rm prior}$	2.50	7.65 ± 3.6
$\Omega_{\rm m}$	0.3004	0.3000 ± 0.0070	$r_{\rm drag}$	143.883	143.92 ± 0.32	$\chi^2_{\rm CMB}$	11272.5	11286.5 ± 5.5
$\Omega_{\rm m}h^2$	0.14780	0.1477 ± 0.0012	$k_{\rm D}$	0.142922	0.14287 ± 0.00043	$\chi^2_{\rm BAO}$	4.83	5.53 ± 1.4
$\Omega_{\rm m}h^3$	0.103660	0.10363 ± 0.00049	$100\theta_{\rm D}$	0.161842	0.16187 ± 0.00025			

Best-fit $\chi^2_{\rm eff} = 11986.36$; $\bar{\chi}^2_{\rm eff} = 12006.31$; $R - 1 = 0.02151$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.97 DR11CMASS: 2.73 DR11LOWZ: 0.13 CMB - smica_g30_ftl_full_pp: 9.94 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.58 plik_dx11dr2_HM_v18_TT: 768.96 Hubble - H070p6: 0.02 SN - JLA December_2013: 706.53

11.51 base_nnu_plikHM_TTTEEE_lowTEB_nnup39_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022587	0.02258 ± 0.00014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.337 ± 0.080	$100\theta_*$	1.040114	1.04013 ± 0.00029
$\boldsymbol{\Omega_c h^2}$	0.12543	0.1253 ± 0.0011	$\boldsymbol{A^{dustTE}_{217}}$	1.669	1.67 ± 0.25	D_A/Gpc	13.5594	13.562 ± 0.023
$\boldsymbol{100\theta_{MC}}$	1.040205	1.04022 ± 0.00029	$\boldsymbol{c_{100}}$	0.99816	0.99813 ± 0.00078	z_{drag}	1061.115	1061.11 ± 0.29
$\boldsymbol{\tau}$	0.0905	0.090 ± 0.016	$\boldsymbol{c_{217}}$	0.99612	0.9961 ± 0.0014	r_{drag}	143.578	143.61 ± 0.25
$\boldsymbol{\ln(10^{10}A_s)}$	3.1295	3.128 ± 0.032	H_0	69.90	69.94 ± 0.50	k_D	0.143342	0.14330 ± 0.00030
$\boldsymbol{n_s}$	0.97946	0.9795 ± 0.0041	Ω_Λ	0.6957	0.6962 ± 0.0064	$100\theta_D$	0.161635	0.16165 ± 0.00017
$\boldsymbol{y_{cal}}$	1.00022	1.0004 ± 0.0024	Ω_m	0.3043	0.3038 ± 0.0064	z_{eq}	3361.2	3358 ± 25
$\boldsymbol{A^{CIB}_{217}}$	68.5	65.6 ± 6.6	$\Omega_m h^2$	0.14866	0.1485 ± 0.0011	k_{eq}	0.010524	0.010515 ± 0.000077
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^3$	0.103909	0.10388 ± 0.00031	$100\theta_{eq}$	0.82103	0.8216 ± 0.0047
$\boldsymbol{A^{tSZ}_{143}}$	7.14	5.06 ± 1.9	σ_8	0.8563	0.855 ± 0.014	$100\theta_{s,eq}$	0.45325	0.4535 ± 0.0024
$\boldsymbol{A^{PS}_{100}}$	261.6	267 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4723	0.4713 ± 0.0088	$r_{drag}/D_V(0.57)$	0.071878	0.07192 ± 0.00037
$\boldsymbol{A^{PS}_{143}}$	42.1	46 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6360	0.635 ± 0.010	$H(0.57)$	95.677	95.69 ± 0.23
$\boldsymbol{A^{PS}_{143\times217}}$	34.9	40^{+10}_{-10}	$\sigma_8/h^{0.5}$	1.0242	1.023 ± 0.016	$D_A(0.57)$	1345.5	1345.1 ± 6.4
$\boldsymbol{A^{PS}_{217}}$	97.9	97 ± 10	$\langle d^2\rangle^{1/2}$	2.5072	2.504 ± 0.039	$F_{AP}(0.57)$	0.67420	0.6741 ± 0.0017
$\boldsymbol{A^{kSZ}}$	0.00	< 5.04	z_{re}	11.18	$11.1^{+1.6}_{-1.3}$	$f\sigma_8(0.57)$	0.4958	0.4951 ± 0.0080
$\boldsymbol{A^{dustTT}_{100}}$	7.56	7.58 ± 1.9	$10^9 A_s$	2.286	2.283 ± 0.073	$\sigma_8(0.57)$	0.6388	0.638 ± 0.010
$\boldsymbol{A^{dustTT}_{143}}$	9.10	9.09 ± 1.8	$10^9 A_s e^{-2\tau}$	1.9078	1.907 ± 0.011	f^{143}_{2000}	31.29	31.6 ± 2.7
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.76	17.2 ± 4.2	D_{40}	1225.7	1226 ± 13	$f^{143\times217}_{2000}$	33.80	33.9 ± 1.9
$\boldsymbol{A^{dustTT}_{217}}$	81.8	81.5 ± 7.5	D_{220}	5725.5	5726 ± 39	f^{217}_{2000}	107.20	107.3 ± 1.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0818	0.0819 ± 0.0057	D_{810}	2540.3	2540 ± 13	χ^2_{lowTEB}	10496.13	10496.6 ± 2.4
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04953	0.0496 ± 0.0050	D_{1420}	813.01	813.0 ± 4.6	χ^2_{plik}	2437.3	2455.7 ± 6.8
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0985	0.099 ± 0.033	D_{2000}	228.81	228.8 ± 1.6	χ^2_{6DF}	0.0009	0.030 ± 0.042
$\boldsymbol{A^{dustEE}_{143}}$	0.1010	0.1010 ± 0.0069	$n_{s,0.002}$	0.97946	0.9795 ± 0.0041	χ^2_{MGS}	1.61	1.72 ± 0.52
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2211	0.221 ± 0.047	Y_P	0.250640	0.250638 ± 0.000061	$\chi^2_{DR11CMASS}$	2.476	2.83 ± 0.51
$\boldsymbol{A^{dustEE}_{217}}$	0.645	0.64 ± 0.13	Y_P^{BBN}	0.251986	0.251983 ± 0.000061	$\chi^2_{DR11LOWZ}$	0.332	0.40 ± 0.38
$\boldsymbol{A^{dustTE}_{100}}$	0.1408	0.140 ± 0.038	10^5D/H	2.6837	2.685 ± 0.027	χ^2_{prior}	7.29	19.9 ± 5.6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1314	0.132 ± 0.029	Age/Gyr	13.4284	13.428 ± 0.021	χ^2_{CMB}	12933.5	12952.3 ± 6.6
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.303 ± 0.084	z_*	1090.494	1090.49 ± 0.24	χ^2_{BAO}	4.417	4.98 ± 0.78
$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	r_*	141.033	141.07 ± 0.24			

Best-fit $\chi^2_{eff} = 12945.17$; $\bar{\chi}^2_{eff} = 12977.16$; $R - 1 = 0.00677$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.48 DR11LOWZ: 0.33 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.12 plik_dx11dr2_HM_v18_TTTEEE: 2437.34

11.52 base_nnu_plikHM_TTTEEE_lowTEB_nnup39_BAO_post_lensing_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022590	$0.02257^{+0.00013}_{-0.00015}$	$\boldsymbol{A_{217}^{dustTE}}$	1.668	1.67 ± 0.25	z_{drag}	1061.077	$1061.06^{+0.27}_{-0.32}$
$\boldsymbol{\Omega_c h^2}$	0.12483	0.1248 ± 0.0011	$\boldsymbol{c_{100}}$	0.99811	0.99805 ± 0.00077	r_{drag}	143.723	143.74 ± 0.24
$\boldsymbol{100\theta_{MC}}$	1.040297	1.04027 ± 0.00028	$\boldsymbol{c_{217}}$	0.99634	0.9962 ± 0.0014	k_D	0.143184	0.14316 ± 0.00030
$\boldsymbol{\tau}$	0.0684	0.068 ± 0.012	H_0	70.141	70.11 ± 0.48	$100\theta_D$	0.161664	0.16168 ± 0.00017
$\boldsymbol{\ln(10^{10} A_s)}$	3.0826	3.082 ± 0.023	Ω_Λ	0.6990	0.6987 ± 0.0061	z_{eq}	3347.6	3348 ± 23
$\boldsymbol{n_s}$	0.98007	0.9798 ± 0.0040	Ω_m	0.3010	0.3013 ± 0.0061	k_{eq}	0.010481	0.010481 ± 0.000073
$\boldsymbol{y_{cal}}$	0.99989	1.0001 ± 0.0026	$\Omega_m h^2$	0.14807	0.1481 ± 0.0010	$100\theta_{eq}$	0.82361	0.8236 ± 0.0045
$\boldsymbol{A_{217}^{CIB}}$	69.7	66.6 ± 6.4	$\Omega_m h^3$	0.103855	0.10381 ± 0.00031	$100\theta_{s,eq}$	0.45459	0.4546 ± 0.0023
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.612	σ_8	0.8347	0.8347 ± 0.0087	$r_{drag}/D_V(0.57)$	0.072079	0.07207 ± 0.00036
$\boldsymbol{A_{143}^{tSZ}}$	6.87	4.93 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4579	0.4581 ± 0.0060	$H(0.57)$	95.768	95.75 ± 0.22
$\boldsymbol{A_{100}^{PS}}$	265.3	270 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6183	0.6184 ± 0.0066	$D_A(0.57)$	1342.6	1343.0 ± 6.1
$\boldsymbol{A_{143}^{PS}}$	42.6	47 ± 8	$\sigma_8/h^{0.5}$	0.9967	0.997 ± 0.010	$F_{AP}(0.57)$	0.67334	0.6734 ± 0.0016
$\boldsymbol{A_{143\times217}^{PS}}$	33.8	39^{+9}_{-10}	$\langle d^2 \rangle^{1/2}$	2.4418	$2.442^{+0.028}_{-0.023}$	$f\sigma_8(0.57)$	0.48245	0.4825 ± 0.0050
$\boldsymbol{A_{217}^{PS}}$	95.2	95 ± 10	z_{re}	9.15	9.10 ± 1.2	$\sigma_8(0.57)$	0.6236	0.6235 ± 0.0070
$\boldsymbol{A^{kSZ}}$	0.99	< 5.87	$10^9 A_s$	2.182	2.182 ± 0.050	f_{2000}^{143}	32.30	32.7 ± 2.6
$\boldsymbol{A_{100}^{dustTT}}$	7.58	7.62 ± 1.9	$10^9 A_s e^{-2\tau}$	1.9027	1.903 ± 0.011	$f_{2000}^{143\times217}$	34.58	34.7 ± 1.7
$\boldsymbol{A_{143}^{dustTT}}$	9.28	9.31 ± 1.9	D_{40}	1213.1	1214 ± 12	f_{2000}^{217}	107.78	107.9 ± 1.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.18	17.5 ± 4.2	D_{220}	5720.7	5722^{+44}_{-37}	$\chi^2_{lensing}$	10.57	11.2 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.4 ± 7.4	D_{810}	2538.1	2538^{+14}_{-13}	χ^2_{lowTEB}	10493.68	10494.07 ± 0.85
$\boldsymbol{A_{100}^{dustEE}}$	0.0821	0.0822 ± 0.0057	D_{1420}	812.75	$812.7^{+5.0}_{-4.4}$	χ^2_{plik}	2441.6	2459.4 ± 6.6
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04993	0.0498 ± 0.0049	D_{2000}	228.19	$228.1^{+1.6}_{-1.4}$	χ^2_{H070p6}	0.0190	0.042 ± 0.050
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0990	0.098 ± 0.033	$n_{s,0.002}$	0.98007	0.9798 ± 0.0040	χ^2_{JLA}	706.533	706.568 ± 0.089
$\boldsymbol{A_{143}^{dustEE}}$	0.1012	$0.1012^{+0.0067}_{-0.0075}$	Y_P	0.250642	$0.250635^{+0.000058}_{-0.000065}$	χ^2_{6DF}	0.0041	0.031 ± 0.042
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2208	0.221 ± 0.047	Y_P^{BBN}	0.251987	$0.251980^{+0.000058}_{-0.000065}$	χ^2_{MGS}	1.89	1.93 ± 0.52
$\boldsymbol{A_{217}^{dustEE}}$	0.645	0.64 ± 0.13	10^5D/H	2.6831	2.686 ± 0.026	$\chi^2_{DR11CMASS}$	2.657	2.94 ± 0.62
$\boldsymbol{A_{100}^{dustTE}}$	0.1420	0.139 ± 0.038	Age/Gyr	13.4228	13.425 ± 0.020	$\chi^2_{DR11LOWZ}$	0.164	0.27 ± 0.29
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1312	0.134 ± 0.030	z_*	1090.437	1090.46 ± 0.23	χ^2_{prior}	7.83	20 ± 6
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.303	0.304 ± 0.082	r_*	141.176	$141.18^{+0.22}_{-0.26}$	χ^2_{CMB}	12945.9	12964.7 ± 6.5
$\boldsymbol{A_{143}^{dustTE}}$	0.155	$0.158^{+0.050}_{-0.059}$	$100\theta_*$	1.040212	1.04018 ± 0.00028	χ^2_{BAO}	4.72	5.17 ± 0.96
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.339	0.335 ± 0.083	D_A/Gpc	13.5719	13.573 ± 0.022			

Best-fit $\chi^2_{eff} = 13664.99$; $\bar{\chi}^2_{eff} = 13696.86$; $R - 1 = 0.04442$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.89 DR11CMASS: 2.66 DR11LOWZ: 0.16 CMB - smica_g30_ftl_full_pp: 10.57 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.68

11.53 base_nnu_plikHM_TT_lowTEB_nnup57_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022596	0.02260 ± 0.00020	$\Omega_m h^3$	0.107434	0.10744 ± 0.00050	k_D	0.144315	0.14432 ± 0.00044
$\boldsymbol{\Omega_c h^2}$	0.12804	0.1280 ± 0.0013	σ_8	0.8606	0.861 ± 0.016	$100\theta_D$	0.162183	0.16218 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.040103	1.04011 ± 0.00042	$\sigma_8\Omega_m^{0.5}$	0.4713	0.471 ± 0.010	z_{eq}	3343.7	3343 ± 29
$\boldsymbol{\tau}$	0.0869	0.087 ± 0.018	$\sigma_8\Omega_m^{0.25}$	0.6369	0.637 ± 0.012	k_{eq}	0.010589	0.010588 ± 0.000091
$\boldsymbol{\ln(10^{10}A_s)}$	3.1274	3.127 ± 0.036	$\sigma_8/h^{0.5}$	1.0212	1.021 ± 0.019	$100\theta_{eq}$	0.8243	0.8245 ± 0.0055
$\boldsymbol{n_s}$	0.98533	0.9856 ± 0.0045	$\langle d^2\rangle^{1/2}$	2.4878	2.487 ± 0.044	$100\theta_{s,eq}$	0.45496	0.4550 ± 0.0028
$\boldsymbol{y_{cal}}$	1.00031	1.0004 ± 0.0025	z_{re}	10.94	$10.9^{+1.8}_{-1.5}$	$r_{drag}/D_V(0.57)$	0.072121	0.07213 ± 0.00043
$\boldsymbol{A_{217}^{CIB}}$	69.4	66.7 ± 6.6	$10^9 A_s$	2.282	2.283 ± 0.083	$H(0.57)$	96.889	96.90 ± 0.30
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.003	< 0.606	$10^9 A_s e^{-2\tau}$	1.9178	1.918 ± 0.012	$D_A(0.57)$	1326.5	1326.3 ± 7.5
$\boldsymbol{A_{143}^{tSZ}}$	5.54	4.44 ± 2.0	D_{40}	1215.5	1216 ± 13	$F_{AP}(0.57)$	0.67307	0.6730 ± 0.0019
$\boldsymbol{A_{100}^{PS}}$	270.3	271 ± 28	D_{220}	5713.3	5715 ± 40	$f\sigma_8(0.57)$	0.4971	0.4970 ± 0.0093
$\boldsymbol{A_{143}^{PS}}$	45.2	50 ± 8	D_{810}	2541.4	2542 ± 14	$\sigma_8(0.57)$	0.6432	0.643 ± 0.012
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	40^{+9}_{-10}	D_{1420}	811.12	811.5 ± 5.0	f_{2000}^{143}	33.90	33.8 ± 2.9
$\boldsymbol{A_{217}^{PS}}$	94.6	96 ± 10	D_{2000}	227.30	227.4 ± 1.8	$f_{2000}^{143\times217}$	35.59	35.5 ± 2.1
$\boldsymbol{A^{kSZ}}$	2.82	$4.68^{+2.2}_{-4.0}$	$n_{s,0.002}$	0.98533	0.9856 ± 0.0045	f_{2000}^{217}	108.87	108.8 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.49	7.58 ± 1.9	Y_P	0.252920	0.252923 ± 0.000089	χ^2_{lowTEB}	10494.71	10495.4 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.09 ± 1.8	Y_P^{BBN}	0.254273	0.254276 ± 0.000089	χ^2_{plik}	769.0	782.1 ± 5.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.22	17.3 ± 4.2	10^5D/H	2.7432	2.742 ± 0.039	χ^2_{6DF}	0.0075	0.049 ± 0.069
$\boldsymbol{A_{217}^{dustTT}}$	81.3	81.5 ± 7.4	Age/Gyr	13.2696	13.269 ± 0.028	χ^2_{MGS}	1.97	2.05 ± 0.63
$\boldsymbol{c_{100}}$	0.99789	0.99789 ± 0.00078	z_*	1090.874	1090.86 ± 0.32	$\chi^2_{DR11CMASS}$	2.73	3.19 ± 0.95
$\boldsymbol{c_{217}}$	0.99626	0.9962 ± 0.0015	r_*	139.582	139.58 ± 0.30	$\chi^2_{DR11LOWZ}$	0.134	0.26 ± 0.32
H_0	71.02	71.04 ± 0.60	$100\theta_*$	1.039910	1.03991 ± 0.00041	χ^2_{prior}	2.43	7.48 ± 3.6
Ω_Λ	0.7001	0.7002 ± 0.0074	D_A/Gpc	13.4225	13.423 ± 0.029	χ^2_{CMB}	11263.7	11277.6 ± 5.5
Ω_m	0.2999	0.2998 ± 0.0074	z_{drag}	1061.459	1061.48 ± 0.44	χ^2_{BAO}	4.84	5.55 ± 1.5
$\Omega_m h^2$	0.15128	0.1513 ± 0.0013	r_{drag}	142.105	142.10 ± 0.32			

Best-fit $\chi^2_{eff} = 11270.95$; $\bar{\chi}^2_{eff} = 11290.61$; $R - 1 = 0.00564$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.97 DR11CMASS: 2.73 DR11LOWZ: 0.13 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.71 plik_dx11dr2_HM_v18_TT: 768.98

11.54 base_nnu_plikHM_TT_lowTEB_nnup57_BAO_post_lensing_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022551	$0.02257^{+0.00018}_{-0.00021}$	σ_8	0.8401	0.8406 ± 0.0094	$z_{\rm eq}$	3330.3	3330 ± 27
$\boldsymbol{\Omega_c h^2}$	0.12747	0.1274 ± 0.0013	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4582	0.4581 ± 0.0066	$k_{\rm eq}$	0.010546	0.010545 ± 0.000086
$\boldsymbol{100\theta_{MC}}$	1.040107	1.04015 ± 0.00040	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6204	0.6205 ± 0.0071	$100\theta_{\rm eq}$	0.8267	0.8269 ± 0.0052
$\boldsymbol{\tau}$	0.0663	0.066 ± 0.013	$\sigma_8/h^{0.5}$	0.9958	0.996 ± 0.011	$100\theta_{\rm s,eq}$	0.45622	0.4563 ± 0.0027
$\boldsymbol{\ln(10^{10} A_s)}$	3.0833	3.084 ± 0.024	$\langle d^2 \rangle^{1/2}$	2.4288	2.428 ± 0.026	$r_{\rm drag}/D_{\rm V}(0.57)$	0.072277	0.07231 ± 0.00041
$\boldsymbol{n_s}$	0.98516	0.9857 ± 0.0045	$z_{\rm re}$	9.03	$8.97^{+1.4}_{-1.2}$	$H(0.57)$	96.913	96.95 ± 0.29
$\boldsymbol{y_{cal}}$	0.99960	1.0001 ± 0.0025	$10^9 A_s$	2.183	2.186 ± 0.053	$D_{\rm A}(0.57)$	1324.9	1324.2 ± 7.2
$\boldsymbol{A_{217}^{CIB}}$	70.1	$67.5^{+6.4}_{-7.3}$	$10^9 A_s e^{-2\tau}$	1.9121	1.914 ± 0.011	$F_{\rm AP}(0.57)$	0.67243	0.6723 ± 0.0018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.574	D_{40}	1204.8	1206 ± 11	$f\sigma_8(0.57)$	0.4845	0.4847 ± 0.0054
$\boldsymbol{A_{143}^{tSZ}}$	5.12	$4.18^{+2.1}_{-2.3}$	D_{220}	5705.0	5711 ± 40	$\sigma_8(0.57)$	0.6285	0.6290 ± 0.0077
$\boldsymbol{A_{100}^{PS}}$	273.3	275 ± 28	D_{810}	2536.9	2540 ± 14	f_{2000}^{143}	35.02	34.9 ± 2.8
$\boldsymbol{A_{143}^{PS}}$	45.8	51 ± 8	D_{1420}	809.6	811.0 ± 5.1	$f_{2000}^{143\times217}$	36.48	$36.3^{+1.9}_{-2.2}$
$\boldsymbol{A_{143\times217}^{PS}}$	31.9	40^{+9}_{-10}	D_{2000}	226.22	$226.7^{+1.7}_{-1.9}$	f_{2000}^{217}	109.61	109.5 ± 1.9
$\boldsymbol{A_{217}^{PS}}$	92.6	95 ± 10	$n_{\rm s,0.002}$	0.98516	0.9857 ± 0.0045	$\chi^2_{\rm lensing}$	10.09	10.8 ± 1.8
$\boldsymbol{A^{kSZ}}$	4.05	—	$Y_{\rm P}$	0.252900	$0.252909^{+0.000082}_{-0.000093}$	$\chi^2_{\rm lowTEB}$	10493.06	10493.42 ± 0.80
$\boldsymbol{A_{100}^{dustTT}}$	7.62	7.65 ± 1.9	$Y_{\rm P}^{\rm BBN}$	0.254253	$0.254262^{+0.000082}_{-0.000094}$	$\chi^2_{\rm plik}$	771.5	784.5 ± 5.7
$\boldsymbol{A_{143}^{dustTT}}$	9.09	9.21 ± 1.8	10^5D/H	2.7519	2.748 ± 0.038	$\chi^2_{\rm H070p6}$	0.0299	0.064 ± 0.079
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.35	17.7 ± 4.2	Age/Gyr	13.2717	13.268 ± 0.027	$\chi^2_{\rm JLA}$	706.5024	706.542 ± 0.069
$\boldsymbol{A_{217}^{dustTT}}$	81.2	81.9 ± 7.3	z_*	1090.884	1090.86 ± 0.31	$\chi^2_{\rm 6DF}$	0.0250	0.067 ± 0.088
$\boldsymbol{c_{100}}$	0.99785	0.99788 ± 0.00080	r_*	139.746	139.74 ± 0.28	$\chi^2_{\rm MGS}$	2.19	2.30 ± 0.63
$\boldsymbol{c_{217}}$	0.99641	0.9964 ± 0.0014	$100\theta_*$	1.039915	$1.03996^{+0.00039}_{-0.00044}$	$\chi^2_{\rm DR11CMASS}$	3.03	3.50 ± 1.2
H_0	71.17	71.22 ± 0.58	$D_{\rm A}$/Gpc	13.4382	13.437 ± 0.028	$\chi^2_{\rm DR11LOWZ}$	0.056	0.17 ± 0.23
Ω_Λ	0.7026	0.7029 ± 0.0070	$z_{\rm drag}$	1061.344	1061.37 ± 0.43	$\chi^2_{\rm prior}$	2.97	7.73 ± 3.7
$\Omega_{\rm m}$	0.2974	0.2971 ± 0.0070	$r_{\rm drag}$	142.285	142.27 ± 0.31	$\chi^2_{\rm CMB}$	11274.6	11288.8 ± 5.7
$\Omega_{\rm m}h^2$	0.15067	0.1507 ± 0.0012	$k_{\rm D}$	0.144076	0.14410 ± 0.00042	$\chi^2_{\rm BAO}$	5.31	6.03 ± 1.8
$\Omega_{\rm m}h^3$	0.107238	0.10730 ± 0.00049	$100\theta_{\rm D}$	0.162262	$0.16224^{+0.00027}_{-0.00023}$			

Best-fit $\chi^2_{\rm eff} = 11989.40$; $\bar{\chi}^2_{\rm eff} = 12009.13$; $R - 1 = 0.02505$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.03 MGS: 2.19 DR11CMASS: 3.03 DR11LOWZ: 0.06 CMB - smica_g30_ftl_full_pp: 10.09 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.06 plik_dx11dr2_HM_v18_TT: 771.46 Hubble - H070p6: 0.03 SN - JLA December_2013: 706.50

11.55 base_nnu_plikHM_TTTEEE_lowTEB_nnup57_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022708	0.02271 ± 0.00014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.336 ± 0.081	$100\theta_*$	1.039730	1.03973 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.12815	0.1282 ± 0.0012	$\boldsymbol{A^{dustTE}_{217}}$	1.670	1.67 ± 0.25	D_A/Gpc	13.4146	13.415 ± 0.023
$\boldsymbol{100\theta_{MC}}$	1.039940	1.03994 ± 0.00030	$\boldsymbol{c_{100}}$	0.99813	0.99811 ± 0.00077	z_{drag}	1061.726	1061.73 ± 0.30
$\boldsymbol{\tau}$	0.0919	0.092 ± 0.016	$\boldsymbol{c_{217}}$	0.99623	0.9962 ± 0.0014	r_{drag}	141.960	141.96 ± 0.25
$\boldsymbol{\ln(10^{10}A_s)}$	3.1382	3.139 ± 0.032	H_0	71.02	71.02 ± 0.51	k_D	0.144563	0.14457 ± 0.00031
$\boldsymbol{n_s}$	0.98549	0.9853 ± 0.0041	Ω_Λ	0.6996	0.6995 ± 0.0064	$100\theta_D$	0.162000	0.16200 ± 0.00018
$\boldsymbol{y_{cal}}$	1.00028	1.0004 ± 0.0025	Ω_m	0.3004	0.3005 ± 0.0064	z_{eq}	3348.7	3349 ± 24
$\boldsymbol{A^{CIB}_{217}}$	69.5	66.4 ± 6.6	$\Omega_m h^2$	0.15150	0.1515 ± 0.0011	k_{eq}	0.010604	0.010605 ± 0.000077
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^3$	0.107592	0.10759 ± 0.00033	$100\theta_{eq}$	0.82359	0.8236 ± 0.0047
$\boldsymbol{A^{tSZ}_{143}}$	6.79	4.84 ± 2.0	σ_8	0.8650	0.865 ± 0.014	$100\theta_{s,eq}$	0.45449	0.4545 ± 0.0024
$\boldsymbol{A^{PS}_{100}}$	265.8	270 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4741	0.4743 ± 0.0089	$r_{drag}/D_V(0.57)$	0.072064	0.07206 ± 0.00037
$\boldsymbol{A^{PS}_{143}}$	43.7	48 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6404	0.641 ± 0.011	$H(0.57)$	96.922	96.92 ± 0.24
$\boldsymbol{A^{PS}_{143\times217}}$	34.9	40^{+9}_{-10}	$\sigma_8/h^{0.5}$	1.0265	1.027 ± 0.016	$D_A(0.57)$	1326.3	1326.3 ± 6.3
$\boldsymbol{A^{PS}_{217}}$	96.7	96 ± 10	$\langle d^2\rangle^{1/2}$	2.5015	2.503 ± 0.039	$F_{AP}(0.57)$	0.67319	0.6732 ± 0.0016
$\boldsymbol{A^{kSZ}}$	0.88	< 5.66	z_{re}	11.35	$11.3^{+1.6}_{-1.3}$	$f\sigma_8(0.57)$	0.4998	0.4999 ± 0.0080
$\boldsymbol{A^{dustTT}_{100}}$	7.62	7.63 ± 1.9	$10^9 A_s$	2.306	2.309 ± 0.074	$\sigma_8(0.57)$	0.6464	0.647 ± 0.010
$\boldsymbol{A^{dustTT}_{143}}$	9.19	9.15 ± 1.8	$10^9 A_s e^{-2\tau}$	1.9190	1.919 ± 0.011	f^{143}_{2000}	32.57	32.8 ± 2.7
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.86	17.4 ± 4.2	D_{40}	1218.7	1220 ± 13	$f^{143\times217}_{2000}$	34.84	34.8 ± 1.9
$\boldsymbol{A^{dustTT}_{217}}$	81.7	81.6 ± 7.4	D_{220}	5723.3	5726 ± 39	f^{217}_{2000}	108.11	108.2 ± 1.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0822	0.0821 ± 0.0057	D_{810}	2542.5	2543 ± 13	χ^2_{lowTEB}	10495.45	10496.1 ± 2.5
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04981	0.0498 ± 0.0050	D_{1420}	812.01	812.0 ± 4.7	χ^2_{plik}	2442.3	2460.7 ± 7.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0980	0.098 ± 0.033	D_{2000}	227.89	227.9 ± 1.6	χ^2_{6DF}	0.0042	0.035 ± 0.050
$\boldsymbol{A^{dustEE}_{143}}$	0.1012	0.1012 ± 0.0068	$n_{s,0.002}$	0.98549	0.9853 ± 0.0041	χ^2_{MGS}	1.89	1.95 ± 0.54
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2195	0.219 ± 0.047	Y_P	0.252969	0.252969 ± 0.000063	$\chi^2_{DR11CMASS}$	2.662	2.99 ± 0.70
$\boldsymbol{A^{dustEE}_{217}}$	0.642	0.64 ± 0.13	Y_P^{BBN}	0.254322	0.254323 ± 0.000063	$\chi^2_{DR11LOWZ}$	0.168	0.27 ± 0.29
$\boldsymbol{A^{dustTE}_{100}}$	0.1410	0.141 ± 0.038	10^5D/H	2.7217	2.722 ± 0.028	χ^2_{prior}	7.78	20 ± 6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1309	0.131 ± 0.029	Age/Gyr	13.2642	13.264 ± 0.021	χ^2_{CMB}	12937.7	12956.8 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.301 ± 0.085	z_*	1090.739	1090.74 ± 0.24	χ^2_{BAO}	4.73	5.25 ± 1.1
$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.154 ± 0.054	r_*	139.476	139.47 ± 0.24			

Best-fit $\chi^2_{eff} = 12950.22$; $\bar{\chi}^2_{eff} = 12982.18$; $R - 1 = 0.00793$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.89 DR11CMASS: 2.66 DR11LOWZ: 0.17 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.45 plik_dx11dr2_HM_v18_TTTEEE: 2442.26

11.56 base_nnu_plikHM_TTTEEE_lowTEB_nnup57_BAO_post_lensing_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022706	0.02269 ± 0.00014	$\boldsymbol{A_{217}^{dustTE}}$	1.663	1.67 ± 0.24	z_{drag}	1061.687	1061.66 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.12752	0.1277 ± 0.0011	$\boldsymbol{c_{100}}$	0.99805	0.99804 ± 0.00078	r_{drag}	142.113	142.08 ± 0.24
$\boldsymbol{100\theta_{MC}}$	1.040022	1.04001 ± 0.00029	$\boldsymbol{c_{217}}$	0.99640	0.9964 ± 0.0014	k_D	0.144390	0.14441 ± 0.00030
$\boldsymbol{\tau}$	0.0691	0.068 ± 0.012	H_0	71.265	71.18 ± 0.49	$100\theta_D$	0.162035	0.16205 ± 0.00017
$\boldsymbol{\ln(10^{10} A_s)}$	3.0900	3.088 ± 0.023	Ω_Λ	0.7029	$0.7018^{+0.0064}_{-0.0058}$	z_{eq}	3334.7	3339 ± 23
$\boldsymbol{n_s}$	0.98568	0.9854 ± 0.0039	Ω_m	0.2971	0.2982 ± 0.0061	k_{eq}	0.010560	0.010573 ± 0.000074
$\boldsymbol{y_{cal}}$	1.00008	0.9999 ± 0.0023	$\Omega_m h^2$	0.15087	0.1511 ± 0.0010	$100\theta_{eq}$	0.82624	0.8254 ± 0.0045
$\boldsymbol{A_{217}^{CIB}}$	70.5	67.9 ± 6.5	$\Omega_m h^3$	0.107516	0.10751 ± 0.00033	$100\theta_{s,eq}$	0.45587	0.4555 ± 0.0023
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.577	σ_8	0.8426	0.8425 ± 0.0088	$r_{drag}/D_V(0.57)$	0.072268	0.07220 ± 0.00036
$\boldsymbol{A_{143}^{tSZ}}$	5.77	4.55 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4592	0.4601 ± 0.0060	$H(0.57)$	97.010	96.97 ± 0.23
$\boldsymbol{A_{100}^{PS}}$	272.8	275^{+30}_{-27}	$\sigma_8\Omega_m^{0.25}$	0.6220	0.6226 ± 0.0066	$D_A(0.57)$	1323.4	1324.5 ± 6.1
$\boldsymbol{A_{143}^{PS}}$	43.8	49 ± 8	$\sigma_8/h^{0.5}$	0.9981	0.999 ± 0.010	$F_{AP}(0.57)$	0.67233	0.6726 ± 0.0016
$\boldsymbol{A_{143\times217}^{PS}}$	31.7	39^{+8}_{-10}	$\langle d^2\rangle^{1/2}$	2.4355	2.436 ± 0.024	$f\sigma_8(0.57)$	0.48585	0.4861 ± 0.0050
$\boldsymbol{A_{217}^{PS}}$	92.2	94 ± 10	z_{re}	9.26	9.14 ± 1.2	$\sigma_8(0.57)$	0.6305	0.6301 ± 0.0071
$\boldsymbol{A^{kSZ}}$	3.16	5.00 ± 2.6	$10^9 A_s$	2.1978	2.195 ± 0.050	f_{2000}^{143}	33.92	33.9 ± 2.5
$\boldsymbol{A_{100}^{dustTT}}$	7.70	7.75 ± 1.8	$10^9 A_s e^{-2\tau}$	1.9142	1.915 ± 0.011	$f_{2000}^{143\times217}$	35.68	35.7 ± 1.7
$\boldsymbol{A_{143}^{dustTT}}$	9.34	9.37 ± 1.8	D_{40}	1207.0	1207 ± 11	f_{2000}^{217}	108.86	108.8 ± 1.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.63	17.7 ± 4.1	D_{220}	5721.2	5719 ± 37	$\chi^2_{lensing}$	10.82	11.6 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	81.2	81.5 ± 7.3	D_{810}	2540.3	2540 ± 13	χ^2_{lowTEB}	10493.13	10493.51 ± 0.73
$\boldsymbol{A_{100}^{dustEE}}$	0.0823	0.0823 ± 0.0059	D_{1420}	811.54	811.4 ± 4.4	χ^2_{plik}	2446.7	2464.7 ± 6.8
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0500	0.0502 ± 0.0050	D_{2000}	227.15	227.1 ± 1.4	χ^2_{H070p6}	0.0402	0.052 ± 0.060
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0980	0.097 ± 0.033	$n_{s,0.002}$	0.98568	0.9854 ± 0.0039	χ^2_{JLA}	706.5004	706.539 ± 0.062
$\boldsymbol{A_{143}^{dustEE}}$	0.1014	0.1010 ± 0.0068	Y_P	0.252968	0.252961 ± 0.000062	χ^2_{6DF}	0.0253	0.045 ± 0.060
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2197	0.219 ± 0.046	Y_P^{BBN}	0.254321	0.254315 ± 0.000062	χ^2_{MGS}	2.19	2.15 ± 0.54
$\boldsymbol{A_{217}^{dustEE}}$	0.642	0.64 ± 0.12	10^5D/H	2.7221	2.725 ± 0.027	$\chi^2_{DR11CMASS}$	3.03	3.19 ± 0.84
$\boldsymbol{A_{100}^{dustTE}}$	0.1414	0.141 ± 0.037	Age/Gyr	13.2593	13.262 ± 0.020	$\chi^2_{DR11LOWZ}$	0.057	0.18 ± 0.22
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1319	$0.132^{+0.028}_{-0.031}$	z_*	1090.689	1090.73 ± 0.24	χ^2_{prior}	8.43	20 ± 6
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.301	0.301 ± 0.082	r_*	139.625	139.59 ± 0.23	χ^2_{CMB}	12950.6	12969.9 ± 6.7
$\boldsymbol{A_{143}^{dustTE}}$	0.155	$0.156^{+0.057}_{-0.052}$	$100\theta_*$	1.039817	1.03980 ± 0.00028	χ^2_{BAO}	5.31	5.57 ± 1.3
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.334	0.336 ± 0.078	D_A/Gpc	13.4278	13.425 ± 0.022			

Best-fit $\chi^2_{eff} = 13670.90$; $\bar{\chi}^2_{eff} = 13702.08$; $R - 1 = 0.08207$

χ^2_{eff}: BAO - 6DF: 0.03 MGS: 2.19 DR11CMASS: 3.03 DR11LOWZ: 0.06 CMB - smica_g30_ftl_full_pp: 10.82 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.13

11.57 base_nnu_plikHM_TT_lowTEB_nnup39_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022610	0.02263 ± 0.00023	$\Omega_m h^2$	0.14599	0.1459 ± 0.0020	z_{drag}	1061.001	1061.03 ± 0.46
$\boldsymbol{\Omega_c h^2}$	0.12274	0.1226 ± 0.0021	$\Omega_m h^3$	0.103682	0.10371 ± 0.00048	r_{drag}	144.221	144.24 ± 0.44
$\boldsymbol{100\theta_{MC}}$	1.040643	1.04068 ± 0.00046	σ_8	0.8370	0.8363 ± 0.0099	k_D	0.142650	0.14264 ± 0.00049
$\boldsymbol{\tau}$	0.0802	0.079 ± 0.017	$\sigma_8 \Omega_m^{0.5}$	0.4503	0.4492 ± 0.0087	$100\theta_D$	0.161757	0.16174 ± 0.00026
$\boldsymbol{\ln(10^{10} A_s)}$	3.1007	3.100 ± 0.031	$\sigma_8 \Omega_m^{0.25}$	0.6139	0.6129 ± 0.0076	z_{eq}	3300.5	3297 ± 45
$\boldsymbol{n_s}$	0.9848	0.9853 ± 0.0062	$\sigma_8/h^{0.5}$	0.9932	0.992 ± 0.011	k_{eq}	0.010334	0.01032 ± 0.00014
$\boldsymbol{y_{cal}}$	0.99967	1.0003 ± 0.0024	$\langle d^2 \rangle^{1/2}$	2.4336	2.430 ± 0.026	$100\theta_{eq}$	0.8327	0.8335 ± 0.0091
$\boldsymbol{A_{217}^{CIB}}$	69.7	66.1 ± 6.7	z_{re}	10.20	$10.1^{+1.6}_{-1.5}$	$100\theta_{s,eq}$	0.45933	0.4597 ± 0.0046
$\boldsymbol{\xi^{tSZ \times CIB}}$	0.00	—	$10^9 A_s$	2.221	$2.222^{+0.066}_{-0.076}$	$r_{drag}/D_V(0.57)$	0.07280	0.07287 ± 0.00073
$\boldsymbol{A_{143}^{tSZ}}$	6.14	4.67 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8922	1.894 ± 0.013	$H(0.57)$	96.104	96.16 ± 0.45
$\boldsymbol{A_{100}^{PS}}$	264.4	267 ± 28	D_{40}	1205.9	1207 ± 12	$D_A(0.57)$	1331.9	1331 ± 12
$\boldsymbol{A_{143}^{PS}}$	42.4	47 ± 8	D_{220}	5715.3	5724 ± 40	$F_{AP}(0.57)$	0.67034	0.6701 ± 0.0031
$\boldsymbol{A_{143\times217}^{PS}}$	31.7	39^{+9}_{-10}	D_{810}	2533.5	2537 ± 13	$f\sigma_8(0.57)$	0.4804	0.4797 ± 0.0055
$\boldsymbol{A_{217}^{PS}}$	93.8	96 ± 10	D_{1420}	812.11	813.5 ± 4.9	$\sigma_8(0.57)$	0.6283	0.6281 ± 0.0091
$\boldsymbol{A^{kSZ}}$	2.09	$4.49^{+1.7}_{-4.2}$	D_{2000}	228.12	228.6 ± 1.8	f_{2000}^{143}	32.55	32.5 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.58	7.54 ± 1.9	$n_{s,0.002}$	0.9848	0.9853 ± 0.0062	$f_{2000}^{143\times217}$	34.47	34.4 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.19	9.15 ± 1.9	Y_P	0.250650	0.25066 ± 0.00010	f_{2000}^{217}	107.84	107.8 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.14	17.3 ± 4.2	Y_P^{BBN}	0.251996	0.25201 ± 0.00010	$\chi^2_{lensing}$	9.48	10.1 ± 1.5
$\boldsymbol{A_{217}^{dustTT}}$	80.1	81.5 ± 7.4	10^5D/H	2.6793	2.676 ± 0.045	χ^2_{lowTEB}	10493.71	10494.2 ± 1.4
$\boldsymbol{c_{100}}$	0.99786	0.99788 ± 0.00078	Age/Gyr	13.4017	13.398 ± 0.038	χ^2_{plik}	768.4	782.0 ± 5.5
$\boldsymbol{c_{217}}$	0.99616	0.9962 ± 0.0015	z_*	1090.233	1090.20 ± 0.43	χ^2_{prior}	2.58	7.54 ± 3.6
H_0	71.02	71.11 ± 0.98	r_*	141.672	141.70 ± 0.44	χ^2_{CMB}	11271.6	11286.3 ± 5.5
Ω_Λ	0.7106	0.711 ± 0.012	$100\theta_*$	1.040562	1.04059 ± 0.00045			
Ω_m	0.2894	0.289 ± 0.012	D_A/Gpc	13.6149	13.617 ± 0.041			

Best-fit $\chi^2_{eff} = 11274.19$; $\bar{\chi}^2_{eff} = 11293.84$; $R - 1 = 0.00691$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.48 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.71 plik_dx11dr2_HM_v18_TT: 768.42

11.58 base_nnu_plikHM_TTTEEE_lowTEB_nnup39_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022623	0.02261 ± 0.00016	$\boldsymbol{A_{143}^{dustTE}}$	0.155	0.155 ± 0.054	z_*	1090.346	1090.37 ± 0.30
$\boldsymbol{\Omega_c h^2}$	0.12424	0.1243 ± 0.0015	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.335	0.336 ± 0.080	r_*	141.294	141.28 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040351	1.04033 ± 0.00032	$\boldsymbol{A_{217}^{dustTE}}$	1.647	1.66 ± 0.26	$100\theta_*$	1.040261	1.04025 ± 0.00031
$\boldsymbol{\tau}$	0.0716	0.071 ± 0.014	$\boldsymbol{c_{100}}$	0.99812	0.99808 ± 0.00077	D_A/Gpc	13.5826	13.582 ± 0.029
$\boldsymbol{\ln(10^{10}A_s)}$	3.0877	3.087 ± 0.026	$\boldsymbol{c_{217}}$	0.99623	0.9962 ± 0.0014	z_{drag}	1061.115	1061.11 ± 0.31
$\boldsymbol{n_s}$	0.98168	0.9810 ± 0.0049	H_0	70.39	70.35 ± 0.68	r_{drag}	143.833	143.82 ± 0.30
$\boldsymbol{y_{cal}}$	0.99992	1.0001 ± 0.0025	Ω_Λ	0.7023	0.7017 ± 0.0085	k_D	0.143089	0.14309 ± 0.00033
$\boldsymbol{A_{217}^{CIB}}$	69.2	66.6 ± 6.6	Ω_m	0.2977	0.2983 ± 0.0085	$100\theta_D$	0.161645	0.16166 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14751	0.1476 ± 0.0014	z_{eq}	3335.0	3337 ± 32
$\boldsymbol{A_{143}^{tSZ}}$	6.95	4.95 ± 2.0	$\Omega_m h^3$	0.103839	0.10382 ± 0.00032	k_{eq}	0.010442	0.01045 ± 0.00010
$\boldsymbol{A_{100}^{PS}}$	264.8	269 ± 28	σ_8	0.8354	0.8351 ± 0.0092	$100\theta_{eq}$	0.8261	0.8258 ± 0.0063
$\boldsymbol{A_{143}^{PS}}$	42.3	47 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4558	0.4560 ± 0.0069	$100\theta_{s,eq}$	0.45584	0.4557 ± 0.0032
$\boldsymbol{A_{143\times217}^{PS}}$	33.8	39^{+9}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6170	0.6171 ± 0.0069	$r_{drag}/D_V(0.57)$	0.07227	0.07225 ± 0.00050
$\boldsymbol{A_{217}^{PS}}$	95.8	95 ± 10	$\sigma_8/h^{0.5}$	0.9956	0.996 ± 0.010	$H(0.57)$	95.870	95.85 ± 0.31
$\boldsymbol{A^{kSZ}}$	0.81	$4.39^{+1.4}_{-4.4}$	$\langle d^2\rangle^{1/2}$	2.4389	2.440 ± 0.025	$D_A(0.57)$	1339.4	1340.0 ± 8.6
$\boldsymbol{A_{100}^{dustTT}}$	7.61	7.64 ± 1.9	z_{re}	9.43	$9.32^{+1.5}_{-1.2}$	$F_{AP}(0.57)$	0.67249	0.6726 ± 0.0022
$\boldsymbol{A_{143}^{dustTT}}$	9.35	9.25 ± 1.8	$10^9 A_s$	2.193	2.192 ± 0.058	$f\sigma_8(0.57)$	0.4819	0.4818 ± 0.0051
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.26	17.5 ± 4.1	$10^9 A_s e^{-2\tau}$	1.9002	1.901 ± 0.012	$\sigma_8(0.57)$	0.6249	0.6246 ± 0.0079
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.5 ± 7.4	D_{40}	1210.6	1213 ± 11	f_{2000}^{143}	32.05	32.4 ± 2.7
$\boldsymbol{A_{100}^{dustEE}}$	0.0823	0.0822 ± 0.0057	D_{220}	5720.9	5725 ± 39	$f_{2000}^{143\times217}$	34.33	34.5 ± 1.9
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.05010	0.0500 ± 0.0050	D_{810}	2537.5	2538 ± 14	f_{2000}^{217}	107.58	107.8 ± 1.9
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1017	0.099 ± 0.033	D_{1420}	813.06	813.0 ± 4.8	$\chi^2_{lensing}$	10.29	11.0 ± 2.1
$\boldsymbol{A_{143}^{dustEE}}$	0.1016	0.1013 ± 0.0068	D_{2000}	228.38	228.3 ± 1.6	χ^2_{lowTEB}	10493.57	10494.15 ± 0.98
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2267	0.222 ± 0.046	$n_{s,0.002}$	0.98168	0.9810 ± 0.0049	χ^2_{plik}	2442.1	2460.3 ± 6.9
$\boldsymbol{A_{217}^{dustEE}}$	0.648	0.65 ± 0.13	Y_P	0.250656	0.250651 ± 0.000071	χ^2_{prior}	7.69	20 ± 6
$\boldsymbol{A_{100}^{dustTE}}$	0.1413	0.141 ± 0.038	Y_P^{BBN}	0.252002	0.251997 ± 0.000071	χ^2_{CMB}	12945.9	12965.4 ± 6.8
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1333	0.132 ± 0.029	10^5D/H	2.6768	2.679 ± 0.031			
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.298	0.302 ± 0.084	Age/Gyr	13.4156	13.417 ± 0.026			

Best-fit $\chi^2_{eff} = 12953.61$; $\bar{\chi}^2_{eff} = 12985.61$; $R - 1 = 0.00787$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 10.29 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.57 plik_dx11dr2_HM_v18_TTTEEE: 2442.06

11.59 base_nnu_plikHM_TT_lowTEB_nnup57_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022761	0.02278 ± 0.00024	$\Omega_m h^2$	0.14828	0.1479 ± 0.0021	z_{drag}	1061.611	1061.63 ± 0.47
$\boldsymbol{\Omega_c h^2}$	0.12487	0.1245 ± 0.0023	$\Omega_m h^3$	0.10737	0.10735 ± 0.00050	r_{drag}	142.695	142.77 ± 0.44
$\boldsymbol{100\theta_{MC}}$	1.040494	1.04052 ± 0.00047	σ_8	0.8447	0.846 ± 0.010	k_D	0.14378	0.14371 ± 0.00050
$\boldsymbol{\tau}$	0.0822	0.085 ± 0.018	$\sigma_8 \Omega_m^{0.5}$	0.4492	0.4485 ± 0.0091	$100\theta_D$	0.162111	0.16211 ± 0.00027
$\boldsymbol{\ln(10^{10} A_s)}$	3.1102	3.116 ± 0.032	$\sigma_8 \Omega_m^{0.25}$	0.6160	0.6160 ± 0.0079	z_{eq}	3277.1	3270 ± 47
$\boldsymbol{n_s}$	0.9926	0.9930 ± 0.0065	$\sigma_8/h^{0.5}$	0.9927	0.993 ± 0.011	k_{eq}	0.010378	0.01035 ± 0.00015
$\boldsymbol{y_{cal}}$	0.99988	1.0003 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.4200	2.423 ± 0.026	$100\theta_{eq}$	0.8376	0.8392 ± 0.0096
$\boldsymbol{A_{217}^{CIB}}$	68.9	66.8 ± 6.7	z_{re}	10.40	$10.6^{+1.6}_{-1.4}$	$100\theta_{s,eq}$	0.46175	0.4626 ± 0.0049
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.030	< 0.604	$10^9 A_s$	2.243	2.258 ± 0.072	$r_{drag}/D_V(0.57)$	0.07318	0.07331 ± 0.00078
$\boldsymbol{A_{143}^{tSZ}}$	6.22	4.47 ± 2.0	$10^9 A_s e^{-2\tau}$	1.9027	1.903 ± 0.014	$H(0.57)$	97.47	97.55 ± 0.50
$\boldsymbol{A_{100}^{PS}}$	264.3	271 ± 28	D_{40}	1196.0	1198 ± 12	$D_A(0.57)$	1309.8	1308 ± 13
$\boldsymbol{A_{143}^{PS}}$	44.6	49 ± 8	D_{220}	5715.9	5724 ± 41	$F_{AP}(0.57)$	0.66859	0.6681 ± 0.0032
$\boldsymbol{A_{143\times217}^{PS}}$	34.6	39^{+9}_{-10}	D_{810}	2537.8	2539 ± 14	$f\sigma_8(0.57)$	0.4828	0.4829 ± 0.0057
$\boldsymbol{A_{217}^{PS}}$	96.2	95 ± 10	D_{1420}	812.5	812.7 ± 5.0	$\sigma_8(0.57)$	0.6359	0.6374 ± 0.0093
$\boldsymbol{A^{kSZ}}$	1.93	$4.81^{+2.8}_{-3.4}$	D_{2000}	227.65	227.7 ± 1.8	f_{2000}^{143}	33.19	33.6 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.62	7.57 ± 1.9	$n_{s,0.002}$	0.9926	0.9930 ± 0.0065	$f_{2000}^{143\times217}$	35.19	35.3 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.17	9.19 ± 1.8	Y_P	0.252992	0.25300 ± 0.00011	f_{2000}^{217}	108.46	108.5 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.92	17.5 ± 4.2	Y_P^{BBN}	0.254346	0.25435 ± 0.00011	$\chi^2_{lensing}$	9.44	10.2 ± 1.5
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.7 ± 7.4	10^5D/H	2.7116	2.709 ± 0.046	χ^2_{lowTEB}	10493.04	10494.0 ± 1.5
$\boldsymbol{c_{100}}$	0.99791	0.99790 ± 0.00078	Age/Gyr	13.2292	13.225 ± 0.040	χ^2_{plik}	770.9	783.7 ± 5.6
$\boldsymbol{c_{217}}$	0.99621	0.9963 ± 0.0015	z_*	1090.399	1090.35 ± 0.45	χ^2_{prior}	2.43	7.57 ± 3.7
H_0	72.41	72.6 ± 1.1	r_*	140.210	140.28 ± 0.45	χ^2_{CMB}	11273.3	11287.9 ± 5.6
Ω_Λ	0.7172	0.719 ± 0.012	$100\theta_*$	1.040281	1.04031 ± 0.00046			
Ω_m	0.2828	0.281 ± 0.012	D_A/Gpc	13.4781	13.485 ± 0.042			

Best-fit $\chi^2_{eff} = 11275.77$; $\bar{\chi}^2_{eff} = 11295.46$; $R - 1 = 0.00748$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.44 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.04 plik_dx11dr2_HM_v18_TT: 770.85

11.60 base_nnu_plikHM_TTTEEE_lowTEB_nnup57_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022774	0.02277 ± 0.00016	$\boldsymbol{A^{dustTE}_{143}}$	0.157	0.153 ± 0.054	z_*	1090.536	1090.53 ± 0.30
$\boldsymbol{\Omega_c h^2}$	0.12671	0.1266 ± 0.0015	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.335 ± 0.081	r_*	139.764	139.79 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040107	1.04012 ± 0.00032	$\boldsymbol{A^{dustTE}_{217}}$	1.648	1.66 ± 0.26	$100\theta_*$	1.039892	1.03991 ± 0.00031
$\boldsymbol{\tau}$	0.0742	0.075 ± 0.014	$\boldsymbol{c_{100}}$	0.99804	0.99805 ± 0.00077	D_A/Gpc	13.4403	13.443 ± 0.028
$\boldsymbol{\ln(10^{10} A_s)}$	3.0985	3.100 ± 0.026	$\boldsymbol{c_{217}}$	0.99633	0.9963 ± 0.0014	z_{drag}	1061.802	1061.77 ± 0.31
$\boldsymbol{n_s}$	0.98799	0.9881 ± 0.0049	H_0	71.64	71.68 ± 0.69	r_{drag}	142.232	142.27 ± 0.29
$\boldsymbol{y_{cal}}$	1.00019	1.0001 ± 0.0025	Ω_Λ	0.7074	0.7079 ± 0.0083	k_D	0.144308	0.14427 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	70.3	67.4 ± 6.6	Ω_m	0.2926	0.2921 ± 0.0083	$100\theta_D$	0.161977	0.16199 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.595	$\Omega_m h^2$	0.15013	0.1500 ± 0.0014	z_{eq}	3318.3	3316 ± 32
$\boldsymbol{A^{tSZ}_{143}}$	5.88	4.68 ± 2.0	$\Omega_m h^3$	0.107547	0.10752 ± 0.00033	k_{eq}	0.010508	0.01050 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	266.8	273 ± 27	σ_8	0.8441	0.8443 ± 0.0092	$100\theta_{eq}$	0.8295	0.8301 ± 0.0063
$\boldsymbol{A^{PS}_{143}}$	41.7	48 ± 8	$\sigma_8 \Omega_m^{0.5}$	0.4566	0.4563 ± 0.0069	$100\theta_{s,eq}$	0.45754	0.4578 ± 0.0032
$\boldsymbol{A^{PS}_{143\times217}}$	30.8	39^{+9}_{-10}	$\sigma_8 \Omega_m^{0.25}$	0.6208	0.6206 ± 0.0069	$r_{drag}/D_V(0.57)$	0.07254	0.07258 ± 0.00050
$\boldsymbol{A^{PS}_{217}}$	91.7	94 ± 10	$\sigma_8/h^{0.5}$	0.9973	0.997 ± 0.010	$H(0.57)$	97.173	97.19 ± 0.31
$\boldsymbol{A^{kSZ}}$	3.31	$4.87^{+2.8}_{-3.3}$	$\langle d^2 \rangle^{1/2}$	2.4331	2.433 ± 0.024	$D_A(0.57)$	1318.9	1318.4 ± 8.4
$\boldsymbol{A^{dustTT}_{100}}$	7.95	7.73 ± 1.9	z_{re}	9.71	$9.73^{+1.4}_{-1.2}$	$F_{AP}(0.57)$	0.67116	0.6710 ± 0.0022
$\boldsymbol{A^{dustTT}_{143}}$	9.31	9.35 ± 1.8	$10^9 A_s$	2.217	2.220 ± 0.057	$f\sigma_8(0.57)$	0.4854	0.4853 ± 0.0051
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.34	17.6 ± 4.2	$10^9 A_s e^{-2\tau}$	1.9108	1.911 ± 0.012	$\sigma_8(0.57)$	0.6328	0.6331 ± 0.0079
$\boldsymbol{A^{dustTT}_{217}}$	81.1	81.5 ± 7.4	D_{40}	1203.9	1205 ± 11	f^{143}_{2000}	33.23	33.5 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0819	0.0826 ± 0.0057	D_{220}	5723.4	5724 ± 39	$f^{143\times217}_{2000}$	35.33	35.3 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.05030	0.0504 ± 0.0050	D_{810}	2539.9	2540 ± 14	f^{217}_{2000}	108.62	108.5 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0984	0.099 ± 0.033	D_{1420}	812.25	812.2 ± 4.8	$\chi^2_{lensing}$	10.56	11.2 ± 2.1
$\boldsymbol{A^{dustEE}_{143}}$	0.1012	0.1018 ± 0.0069	D_{2000}	227.55	227.5 ± 1.6	χ^2_{lowTEB}	10493.07	10493.57 ± 0.95
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2190	0.219 ± 0.046	$n_{s,0.002}$	0.98799	0.9881 ± 0.0049	χ^2_{plik}	2446.8	2465.1 ± 7.1
$\boldsymbol{A^{dustEE}_{217}}$	0.630	0.64 ± 0.13	Y_P	0.252998	0.252996 ± 0.000071	χ^2_{prior}	8.40	21 ± 6
$\boldsymbol{A^{dustTE}_{100}}$	0.1366	0.141 ± 0.038	Y_P^{BBN}	0.254352	0.254350 ± 0.000071	χ^2_{CMB}	12950.4	12970.0 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1252	0.132 ± 0.029	10^5D/H	2.7089	2.710 ± 0.031			
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.302 ± 0.084	Age/Gyr	13.2470	13.246 ± 0.026			

Best-fit $\chi^2_{eff} = 12958.80$; $\bar{\chi}^2_{eff} = 12990.67$; $R - 1 = 0.00731$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 10.56 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.07 plik_dx11dr2_HM_v18_TTTEEE: 2446.77

11.61 base_nnu_plikHM_TT_lowTEB_nnu1_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.023209	0.02318 ± 0.00025	$\Omega_m h^2$	0.15195	0.1524 ± 0.0022	z_{drag}	1063.175	1063.15 ± 0.47
$\boldsymbol{\Omega_c h^2}$	0.12809	0.1285 ± 0.0023	$\Omega_m h^3$	0.11627	0.11629 ± 0.00054	r_{drag}	139.550	139.48 ± 0.42
$\boldsymbol{100\theta_{MC}}$	1.040273	1.04025 ± 0.00047	σ_8	0.8713	0.870 ± 0.011	k_D	0.146127	0.14619 ± 0.00049
$\boldsymbol{\tau}$	0.1066	0.102 ± 0.019	$\sigma_8 \Omega_m^{0.5}$	0.4439	0.4449 ± 0.0088	$100\theta_D$	0.162884	0.16291 ± 0.00027
$\boldsymbol{\ln(10^{10} A_s)}$	3.1650	3.158 ± 0.033	$\sigma_8 \Omega_m^{0.25}$	0.6219	0.6221 ± 0.0079	z_{eq}	3187.7	3197 ± 45
$\boldsymbol{n_s}$	1.0124	1.0121 ± 0.0065	$\sigma_8/h^{0.5}$	0.9961	0.996 ± 0.012	k_{eq}	0.010362	0.01039 ± 0.00015
$\boldsymbol{y_{cal}}$	0.99970	1.0003 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.4085	2.406 ± 0.026	$100\theta_{eq}$	0.8566	0.8549 ± 0.0097
$\boldsymbol{A_{217}^{CIB}}$	71.4	68.2 ± 6.6	z_{re}	12.50	$12.1^{+1.6}_{-1.4}$	$100\theta_{s,eq}$	0.47127	0.4704 ± 0.0049
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.570	$10^9 A_s$	2.369	2.354 ± 0.078	$r_{drag}/D_V(0.57)$	0.07469	0.07455 ± 0.00080
$\boldsymbol{A_{143}^{tSZ}}$	4.53	$4.07^{+1.9}_{-2.3}$	$10^9 A_s e^{-2\tau}$	1.9139	1.919 ± 0.014	$H(0.57)$	101.08	101.01 ± 0.54
$\boldsymbol{A_{100}^{PS}}$	278.3	277 ± 28	D_{40}	1178.0	1179 ± 11	$D_A(0.57)$	1251.1	1253 ± 12
$\boldsymbol{A_{143}^{PS}}$	46.1	52 ± 8	D_{220}	5723.7	5727 ± 41	$F_{AP}(0.57)$	0.66230	0.6629 ± 0.0030
$\boldsymbol{A_{143\times 217}^{PS}}$	30.0	40^{+8}_{-10}	D_{810}	2537.4	2542 ± 14	$f\sigma_8(0.57)$	0.4899	0.4898 ± 0.0058
$\boldsymbol{A_{217}^{PS}}$	89.3	95 ± 10	D_{1420}	809.84	811.4 ± 5.0	$\sigma_8(0.57)$	0.6627	0.661 ± 0.010
$\boldsymbol{A^{kSZ}}$	5.07	$5.50^{+4.3}_{-1.6}$	D_{2000}	225.86	226.2 ± 1.8	f_{2000}^{143}	35.69	35.5 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.72	7.69 ± 1.9	$n_{s,0.002}$	1.0124	1.0121 ± 0.0065	$f_{2000}^{143\times 217}$	36.90	36.9 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.32	9.25 ± 1.8	Y_P	0.258372	0.25836 ± 0.00011	f_{2000}^{217}	110.02	109.9 ± 2.1
$\boldsymbol{A_{143\times 217}^{dustTT}}$	17.61	17.6 ± 4.2	Y_P^{BBN}	0.259745	0.25973 ± 0.00011	$\chi^2_{lensing}$	9.70	10.5 ± 1.5
$\boldsymbol{A_{217}^{dustTT}}$	81.5	81.5 ± 7.4	10^5D/H	2.7677	2.773 ± 0.047	χ^2_{lowTEB}	10494.33	10494.3 ± 2.3
$\boldsymbol{c_{100}}$	0.99783	0.99791 ± 0.00078	Age/Gyr	12.8185	12.823 ± 0.039	χ^2_{plik}	773.9	788.3 ± 6.0
$\boldsymbol{c_{217}}$	0.99677	0.9964 ± 0.0014	z_*	1090.505	1090.58 ± 0.45	χ^2_{prior}	3.36	7.64 ± 3.7
H_0	76.52	76.3 ± 1.1	r_*	137.240	137.16 ± 0.43	χ^2_{CMB}	11278.0	11293.2 ± 5.7
Ω_Λ	0.7405	0.738 ± 0.011	$100\theta_*$	1.039773	1.03975 ± 0.00046			
Ω_m	0.2595	0.262 ± 0.011	D_A/Gpc	13.1990	13.191 ± 0.040			

Best-fit $\chi^2_{eff} = 11281.34$; $\bar{\chi}^2_{eff} = 11300.80$; $R - 1 = 0.00923$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.70 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.33 plik_dx11dr2_HM_v18_TT: 773.95

11.62 base_nnu_plikHM_TTTEEE_lowTEB_nnu1_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.023105	0.02314 ± 0.00016	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.153 ± 0.054	z_*	1090.985	1090.91 ± 0.31
$\boldsymbol{\Omega_c h^2}$	0.13238	0.1321 ± 0.0016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.332	0.333 ± 0.081	r_*	136.360	136.40 ± 0.29
$\boldsymbol{100\theta_{MC}}$	1.039604	1.03967 ± 0.00031	$\boldsymbol{A^{dustTE}_{217}}$	1.650	1.65 ± 0.25	$100\theta_*$	1.039112	1.03917 ± 0.00030
$\boldsymbol{\tau}$	0.0822	0.085 ± 0.015	$\boldsymbol{c_{100}}$	0.99802	0.99800 ± 0.00077	D_A/Gpc	13.1227	13.126 ± 0.027
$\boldsymbol{\ln(10^{10}A_s)}$	3.1248	3.131 ± 0.026	$\boldsymbol{c_{217}}$	0.99661	0.9965 ± 0.0014	z_{drag}	1063.251	1063.30 ± 0.31
$\boldsymbol{n_s}$	1.0028	1.0046 ± 0.0049	H_0	74.65	74.81 ± 0.72	r_{drag}	138.682	138.72 ± 0.29
$\boldsymbol{y_{cal}}$	0.99973	1.0002 ± 0.0025	Ω_Λ	0.7198	0.7214 ± 0.0080	k_D	0.147060	0.14705 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	71.6	69.3 ± 6.6	Ω_m	0.2802	0.2786 ± 0.0080	$100\theta_D$	0.162792	0.16276 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.545	$\Omega_m h^2$	0.15613	0.1559 ± 0.0015	z_{eq}	3275.8	3270 ± 32
$\boldsymbol{A^{tSZ}_{143}}$	4.56	$4.34^{+2.0}_{-2.3}$	$\Omega_m h^3$	0.116544	0.11659 ± 0.00035	k_{eq}	0.010648	0.01063 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	284.5	280 ± 28	σ_8	0.8649	0.8671 ± 0.0096	$100\theta_{eq}$	0.8384	0.8398 ± 0.0065
$\boldsymbol{A^{PS}_{143}}$	46.1	51 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4578	0.4576 ± 0.0068	$100\theta_{s,eq}$	0.46191	0.4626 ± 0.0033
$\boldsymbol{A^{PS}_{143\times217}}$	29.9	39^{+8}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6293	0.6299 ± 0.0069	$r_{drag}/D_V(0.57)$	0.07322	0.07334 ± 0.00052
$\boldsymbol{A^{PS}_{217}}$	88.9	93 ± 10	$\sigma_8/h^{0.5}$	1.0011	1.003 ± 0.011	$H(0.57)$	100.276	100.36 ± 0.34
$\boldsymbol{A^{kSZ}}$	5.77	> 4.34	$\langle d^2\rangle^{1/2}$	2.4201	2.421 ± 0.024	$D_A(0.57)$	1271.9	1269.9 ± 8.3
$\boldsymbol{A^{dustTT}_{100}}$	7.95	7.89 ± 1.9	z_{re}	10.52	$10.7^{+1.4}_{-1.2}$	$F_{AP}(0.57)$	0.66790	0.6675 ± 0.0021
$\boldsymbol{A^{dustTT}_{143}}$	9.52	9.54 ± 1.8	$10^9 A_s$	2.276	2.291 ± 0.060	$f\sigma_8(0.57)$	0.4935	0.4941 ± 0.0052
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.36	17.9 ± 4.1	$10^9 A_s e^{-2\tau}$	1.9306	1.932 ± 0.012	$\sigma_8(0.57)$	0.6518	0.6540 ± 0.0083
$\boldsymbol{A^{dustTT}_{217}}$	80.8	81.5 ± 7.4	D_{40}	1187.1	1186 ± 11	f^{143}_{2000}	36.40	35.7 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0831	0.0835 ± 0.0056	D_{220}	5719.2	5723 ± 39	$f^{143\times217}_{2000}$	37.52	37.1 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.05091	0.0514 ± 0.0050	D_{810}	2541.0	2544 ± 14	f^{217}_{2000}	110.53	110.0 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1005	0.098 ± 0.033	D_{1420}	808.84	810.6 ± 4.8	$\chi^2_{lensing}$	11.34	12.3 ± 2.5
$\boldsymbol{A^{dustEE}_{143}}$	0.1024	0.1028 ± 0.0069	D_{2000}	225.18	225.9 ± 1.6	χ^2_{lowTEB}	10492.41	10492.9 ± 1.1
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2154	0.217 ± 0.047	$n_{s,0.002}$	1.0028	1.0046 ± 0.0049	χ^2_{plik}	2462.5	2480.6 ± 7.4
$\boldsymbol{A^{dustEE}_{217}}$	0.665	0.63 ± 0.13	Y_P	0.258326	0.258342 ± 0.000071	χ^2_{prior}	9.45	22 ± 6
$\boldsymbol{A^{dustTE}_{100}}$	0.1388	0.141 ± 0.038	Y_P^{BBN}	0.259698	0.259714 ± 0.000071	χ^2_{CMB}	12966.2	12985.8 ± 7.1
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1318	0.132 ± 0.029	10^5D/H	2.7877	2.781 ± 0.031			
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.301 ± 0.084	Age/Gyr	12.8659	12.859 ± 0.025			

Best-fit $\chi^2_{eff} = 12975.67$; $\bar{\chi}^2_{eff} = 13007.41$; $R - 1 = 0.00946$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 11.35 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.41 plik_dx11dr2_HM_v18_TTTEEE: 2462.47

11.63 base_nnu_lensonly

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.02230	0.02230 ± 0.00091	$10^9 A_s$	2.252	$2.22^{+0.29}_{-0.39}$	$r_{\rm drag}$	153.5	138^{+12}_{-25}
$\mathbf{\Omega_c h^2}$	0.1092	$0.136^{+0.029}_{-0.038}$	$10^9 A_s e^{-2\tau}$	1.958	$1.93^{+0.26}_{-0.34}$	$k_{\rm D}$	0.1367	$0.147^{+0.014}_{-0.012}$
$\mathbf{100\theta_{MC}}$	1.075	$1.005^{+0.070}_{-0.098}$	D_{40}	1331	1290^{+200}_{-300}	$100\theta_{\rm D}$	0.1640	0.1604 ± 0.0088
$\mathbf{N_{eff}}$	2.44	—	D_{220}	6072	6047^{+1000}_{-1000}	$z_{\rm eq}$	3424	3076^{+400}_{-700}
$\mathbf{\ln(10^{10} A_s)}$	3.115	3.09 ± 0.15	D_{810}	2674	2206^{+400}_{-500}	$k_{\rm eq}$	0.01001	$0.01027^{+0.00091}_{-0.0012}$
$\mathbf{n_s}$	0.9621	0.959 ± 0.020	D_{1420}	849	710^{+100}_{-200}	$100\theta_{\rm eq}$	0.835	0.860 ± 0.075
H_0	75.1	—	D_{2000}	249	231^{+50}_{-70}	$100\theta_{\rm s,eq}$	0.4616	0.472 ± 0.038
Ω_Λ	0.765	$0.60^{+0.28}_{-0.10}$	$n_{\rm s,0.002}$	0.9621	0.959 ± 0.020	$r_{\rm drag}/D_{\rm V}(0.57)$	0.0795	$0.069^{+0.010}_{-0.018}$
$\Omega_{\rm m}$	0.235	$0.40^{+0.10}_{-0.28}$	$Y_{\rm P}$	0.2367	$0.262^{+0.037}_{-0.014}$	$H(0.57)$	97.1	97^{+10}_{-20}
$\Omega_{\rm m} h^2$	0.1322	$0.159^{+0.029}_{-0.038}$	$Y_{\rm P}^{\rm BBN}$	0.2380	$0.263^{+0.037}_{-0.015}$	$D_{\rm A}(0.57)$	1289	1395^{+200}_{-400}
$\Omega_{\rm m} h^3$	0.0992	$0.110^{+0.028}_{-0.049}$	10^5D/H	2.39	$3.33^{+1.2}_{-1.1}$	$F_{\rm AP}(0.57)$	0.6553	$0.691^{+0.031}_{-0.062}$
σ_8	0.847	$0.78^{+0.13}_{-0.10}$	Age/Gyr	13.43	$13.5^{+1.4}_{-2.4}$	$f\sigma_8(0.57)$	0.4665	$0.446^{+0.039}_{-0.020}$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.410	$0.459^{+0.062}_{-0.078}$	z_*	1088.4	$1092.9^{+6.2}_{-4.8}$	$\sigma_8(0.57)$	0.652	$0.57^{+0.13}_{-0.12}$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5894	0.591 ± 0.021	r_*	150.7	135^{+11}_{-25}	$\chi^2_{\rm lensing}$	8.41	10.6 ± 2.1
$\sigma_8/h^{0.5}$	0.9776	$0.942^{+0.036}_{-0.053}$	$100\theta_*$	1.075	$1.004^{+0.070}_{-0.10}$	$\chi^2_{\rm prior}$	0.01	2.00 ± 2.0
$\langle d^2 \rangle^{1/2}$	2.451	2.472 ± 0.063	$D_{\rm A}$/Gpc	14.01	$13.4^{+1.2}_{-1.6}$			
$z_{\rm re}$	8.99	9.65 ± 0.83	$z_{\rm drag}$	1058.48	$1062.1^{+5.3}_{-4.3}$			

Best-fit $\chi^2_{\rm eff} = 8.42$; $\bar{\chi}^2_{\rm eff} = 12.65$; $R - 1 = 0.00985$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp_lensonly: 8.41

11.64 base_nnu_lensonly_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02246	0.02231 ± 0.00091	$10^9 A_s e^{-2\tau}$	1.845	$1.83^{+0.20}_{-0.27}$	$100\theta_D$	0.1599	$0.1622^{+0.0042}_{-0.0068}$
$\boldsymbol{\Omega_c h^2}$	0.1140	$0.130^{+0.023}_{-0.047}$	D_{40}	1227	1228^{+100}_{-200}	z_{eq}	3385	3402^{+500}_{-600}
$\boldsymbol{100\theta_{MC}}$	1.0418	1.040 ± 0.029	D_{220}	5715	5663^{+800}_{-1000}	k_{eq}	0.01014	$0.01059^{+0.00089}_{-0.0013}$
$\boldsymbol{N_{eff}}$	2.78	< 5.01	D_{810}	2522	2403^{+300}_{-300}	$100\theta_{eq}$	0.817	$0.823^{+0.067}_{-0.081}$
$\boldsymbol{\ln(10^{10} A_s)}$	3.055	3.04 ± 0.13	D_{1420}	817	754^{+100}_{-200}	$100\theta_{s,eq}$	0.4513	$0.454^{+0.035}_{-0.041}$
$\boldsymbol{n_s}$	0.9623	0.957 ± 0.020	D_{2000}	233	219^{+50}_{-60}	$r_{drag}/D_V(0.57)$	0.07177	0.07181 ± 0.00059
H_0	66.6	70^{+8}_{-10}	$n_{s,0.002}$	0.9623	0.957 ± 0.020	$H(0.57)$	91.5	$96.4^{+9.6}_{-18}$
Ω_Λ	0.6912	$0.692^{+0.038}_{-0.033}$	Y_P	0.2417	$0.248^{+0.044}_{-0.025}$	$D_A(0.57)$	1409	1361^{+200}_{-200}
Ω_m	0.3088	$0.308^{+0.033}_{-0.038}$	Y_P^{BBN}	0.2430	$0.250^{+0.044}_{-0.025}$	$F_{AP}(0.57)$	0.6753	0.6749 ± 0.0084
$\Omega_m h^2$	0.1371	$0.153^{+0.023}_{-0.047}$	10^5D/H	2.48	$2.88^{+0.61}_{-1.3}$	$f\sigma_8(0.57)$	0.4662	0.468 ± 0.016
$\Omega_m h^3$	0.0914	$0.111^{+0.023}_{-0.056}$	Age/Gyr	14.03	13.5 ± 1.7	$\sigma_8(0.57)$	0.5979	0.603 ± 0.028
σ_8	0.8029	0.808 ± 0.031	z_*	1089.0	$1091.3^{+4.0}_{-7.3}$	$\chi^2_{lensing}$	8.52	10.7 ± 2.1
$\sigma_8 \Omega_m^{0.5}$	0.4461	0.448 ± 0.022	r_*	147.3	142 ± 20	χ^2_{6DF}	0.011	0.11 ± 0.15
$\sigma_8 \Omega_m^{0.25}$	0.5985	0.601 ± 0.021	$100\theta_*$	1.0421	1.040 ± 0.030	χ^2_{MGS}	1.41	1.61 ± 0.86
$\sigma_8/h^{0.5}$	0.983	$0.969^{+0.054}_{-0.046}$	D_A/Gpc	14.14	13.7 ± 1.6	$\chi^2_{DR11CMASS}$	2.39	3.26 ± 1.4
$\langle d^2 \rangle^{1/2}$	2.449	2.444 ± 0.056	z_{drag}	1059.5	$1060.7^{+4.7}_{-5.6}$	$\chi^2_{DR11LOWZ}$	0.484	0.64 ± 0.68
z_{re}	9.04	$9.44^{+0.77}_{-1.3}$	r_{drag}	150.0	145^{+20}_{-20}	χ^2_{prior}	0.04	2.06 ± 2.1
$10^9 A_s$	2.122	$2.11^{+0.24}_{-0.31}$	k_D	0.1390	$0.143^{+0.011}_{-0.017}$	χ^2_{BAO}	4.29	5.62 ± 1.9

Best-fit $\chi^2_{eff} = 12.86$; $\bar{\chi}^2_{eff} = 18.35$; $R - 1 = 0.00916$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.39 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp_lensonly: 8.52

11.65 base_nnu_lensonly_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228	0.02229 ± 0.00091	$10^9 A_s$	2.231	$2.24^{+0.33}_{-0.36}$	z_{drag}	1058.87	1061.6 ± 4.2
$\boldsymbol{\Omega_c h^2}$	0.1105	$0.135^{+0.027}_{-0.041}$	$10^9 A_s e^{-2\tau}$	1.940	$1.95^{+0.28}_{-0.32}$	r_{drag}	150.9	140^{+12}_{-23}
$\boldsymbol{N_{eff}}$	2.84	$4.43^{+2.8}_{-2.2}$	D_{40}	1304	1318^{+200}_{-300}	k_D	0.1377	0.146 ± 0.011
$\boldsymbol{\ln(10^{10} A_s)}$	3.105	$3.10^{+0.17}_{-0.14}$	D_{220}	6109	6050^{+1000}_{-1000}	$100\theta_D$	0.1604	$0.1647^{+0.0096}_{-0.0054}$
$\boldsymbol{n_s}$	0.9619	0.959 ± 0.020	D_{810}	2656	2532^{+300}_{-400}	z_{eq}	3264	3227^{+250}_{-480}
H_0	68.2	> 70.1	D_{1420}	855	781^{+100}_{-200}	k_{eq}	0.00982	$0.01052^{+0.00086}_{-0.0013}$
Ω_Λ	0.713	$0.716^{+0.11}_{-0.038}$	D_{2000}	242.0	213^{+40}_{-60}	$100\theta_{eq}$	0.838	$0.855^{+0.089}_{-0.064}$
Ω_m	0.287	$0.284^{+0.038}_{-0.11}$	$n_{s,0.002}$	0.9619	0.959 ± 0.020	$100\theta_{s,eq}$	0.4625	$0.471^{+0.046}_{-0.033}$
$\Omega_m h^2$	0.1335	$0.158^{+0.027}_{-0.041}$	Y_P	0.2425	$0.257^{+0.034}_{-0.014}$	$r_{drag}/D_V(0.57)$	0.0731	$0.0746^{+0.0066}_{-0.0049}$
$\Omega_m h^3$	0.091	$0.125^{+0.044}_{-0.057}$	Y_P^{BBN}	0.2438	$0.259^{+0.034}_{-0.014}$	$H(0.57)$	92.1	102^{+20}_{-10}
σ_8	0.808	$0.829^{+0.077}_{-0.036}$	10^5D/H	2.54	3.09 ± 0.81	$D_A(0.57)$	1388	1280^{+110}_{-320}
$\sigma_8 \Omega_m^{0.5}$	0.4323	$0.432^{+0.035}_{-0.048}$	Age/Gyr	13.99	$13.0^{+1.1}_{-2.6}$	$F_{AP}(0.57)$	0.6696	$0.667^{+0.012}_{-0.029}$
$\sigma_8 \Omega_m^{0.25}$	0.5909	0.597 ± 0.022	z_*	1089.0	1092.3 ± 4.8	$f\sigma_8(0.57)$	0.4629	$0.465^{+0.021}_{-0.018}$
$\sigma_8/h^{0.5}$	0.9777	$0.952^{+0.034}_{-0.053}$	r_*	148.1	138^{+12}_{-22}	$\sigma_8(0.57)$	0.607	$0.629^{+0.086}_{-0.040}$
$\langle d^2 \rangle^{1/2}$	2.468	2.453 ± 0.054	$100\theta_*$	1.04114	$1.0402^{+0.0010}_{-0.0018}$	$\chi^2_{lensing}$	8.44	10.6 ± 2.1
z_{re}	9.02	9.64 ± 0.91	D_A/Gpc	14.23	$13.2^{+1.1}_{-2.1}$	χ^2_{prior}	0.01	2.01 ± 2.0

Best-fit $\chi^2_{eff} = 8.45$; $\bar{\chi}^2_{eff} = 12.66$; $R - 1 = 0.00899$
χ^2_{eff}: CMB - smica_g30_ftl_full_pp_lensonly: 8.44

11.66 base_nnu_lensonly_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225	0.02230 ± 0.00092	D_{40}	1259	1213 ± 93	$z_{\rm eq}$	3351	3369 ± 57
$\boldsymbol{\Omega_c h^2}$	0.1077	$0.131^{+0.021}_{-0.043}$	D_{220}	5903	5564^{+600}_{-700}	$k_{\rm eq}$	0.00985	$0.01065^{+0.00088}_{-0.0015}$
$\boldsymbol{N_{\rm eff}}$	2.50	$3.67^{+1.1}_{-2.2}$	D_{810}	2610	2419^{+300}_{-400}	$100\theta_{\rm eq}$	0.8216	0.8196 ± 0.0086
$\boldsymbol{\ln(10^{10} A_s)}$	3.074	3.037 ± 0.066	D_{1420}	852	769^{+100}_{-200}	$100\theta_{\rm s,eq}$	0.45380	0.4528 ± 0.0048
$\boldsymbol{n_s}$	0.9616	0.957 ± 0.020	D_{2000}	244	215^{+50}_{-60}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07181	0.07184 ± 0.00052
H_0	65.2	$70.4^{+5.8}_{-9.9}$	$n_{\rm s,0.002}$	0.9616	0.957 ± 0.020	$H(0.57)$	89.4	$96.5^{+7.7}_{-13}$
Ω_Λ	0.6924	0.6932 ± 0.0095	$Y_{\rm P}$	0.2376	$0.250^{+0.019}_{-0.024}$	$D_{\rm A}(0.57)$	1441	1352^{+200}_{-100}
$\Omega_{\rm m}$	0.3076	0.3068 ± 0.0095	$Y_{\rm P}^{\rm BBN}$	0.2389	$0.252^{+0.019}_{-0.024}$	$F_{\rm AP}(0.57)$	0.67504	0.6748 ± 0.0024
$\Omega_{\rm m} h^2$	0.1306	$0.154^{+0.021}_{-0.043}$	10^5D/H	2.42	$2.82^{+0.39}_{-0.77}$	$f\sigma_8(0.57)$	0.4620	0.470 ± 0.017
$\Omega_{\rm m} h^3$	0.0851	$0.111^{+0.019}_{-0.047}$	Age/Gyr	14.36	$13.5^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.5932	0.604 ± 0.023
σ_8	0.7961	0.810 ± 0.031	z_*	1088.42	$1091.3^{+3.2}_{-5.6}$	$\chi^2_{\rm lensing}$	8.43	10.7 ± 2.2
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4415	0.449 ± 0.016	r_*	150.8	141^{+20}_{-10}	$\chi^2_{\rm 6DF}$	0.0064	0.064 ± 0.091
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5929	0.603 ± 0.022	$100\theta_*$	1.04137	$1.0407^{+0.0013}_{-0.00083}$	$\chi^2_{\rm MGS}$	1.47	1.60 ± 0.70
$\sigma_8/h^{0.5}$	0.9862	$0.969^{+0.033}_{-0.025}$	$D_{\rm A}$/Gpc	14.48	$13.6^{+1.6}_{-1.4}$	$\chi^2_{\rm DR11CMASS}$	2.40	3.08 ± 0.95
$\langle d^2 \rangle^{1/2}$	2.464	2.443 ± 0.049	$z_{\rm drag}$	1058.29	$1060.8^{+3.9}_{-4.9}$	$\chi^2_{\rm DR11LOWZ}$	0.429	0.60 ± 0.64
$z_{\rm re}$	8.92	$9.47^{+0.65}_{-1.1}$	$r_{\rm drag}$	153.6	144^{+20}_{-10}	$\chi^2_{\rm prior}$	0.01	2.06 ± 2.0
$10^9 A_{\rm s}$	2.164	$2.09^{+0.13}_{-0.16}$	$k_{\rm D}$	0.1363	$0.1436^{+0.0090}_{-0.014}$	$\chi^2_{\rm BAO}$	4.31	5.35 ± 1.4
$10^9 A_{\rm s} e^{-2\tau}$	1.881	$1.82^{+0.11}_{-0.14}$	$100\theta_{\rm D}$	0.1592	$0.1625^{+0.0039}_{-0.0064}$			

Best-fit $\chi^2_{\rm eff} = 12.75$; $\bar{\chi}^2_{\rm eff} = 18.13$; $R - 1 = 0.00647$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.40 DR11LOWZ: 0.43 CMB - smica_g30_ftl_full_pp_lensonly: 8.43

11.67 base_nnu_WLonlyHeymans_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227	0.02226 ± 0.00091	D_{40}	1003	836^{+84}_{-190}	$z_{\rm eq}$	3371	3415 ± 62
$\boldsymbol{\Omega_c h^2}$	0.1260	$0.191^{+0.066}_{-0.029}$	D_{220}	4602	3699^{+340}_{-980}	$k_{\rm eq}$	0.01055	$0.0127^{+0.0021}_{-0.00087}$
$\boldsymbol{N_{\rm eff}}$	3.43	> 5.76	D_{810}	2018	1574^{+140}_{-450}	$100\theta_{\rm eq}$	0.8189	$0.8134^{+0.0088}_{-0.010}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.861	$2.69^{+0.11}_{-0.18}$	D_{1420}	641	470^{+43}_{-170}	$100\theta_{\rm s,eq}$	0.4524	0.4496 ± 0.0050
$\boldsymbol{n_s}$	0.9615	0.962 ± 0.020	D_{2000}	177.2	122^{+12}_{-54}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07176	0.07177 ± 0.00053
H_0	69.5	83^{+10}_{-5}	$n_{\rm s,0.002}$	0.9615	0.962 ± 0.020	$H(0.57)$	95.4	114^{+20}_{-7}
Ω_Λ	0.6919	0.6927 ± 0.0096	$Y_{\rm P}$	0.2504	$0.276^{+0.021}_{-0.0040}$	$D_{\rm A}(0.57)$	1351	1150^{+56}_{-190}
$\Omega_{\rm m}$	0.3081	0.3073 ± 0.0096	$Y_{\rm P}^{\rm BBN}$	0.2517	$0.278^{+0.022}_{-0.0040}$	$F_{\rm AP}(0.57)$	0.67516	0.6749 ± 0.0024
$\Omega_{\rm m} h^2$	0.1489	$0.214^{+0.066}_{-0.029}$	10^5D/H	2.74	$3.87^{+1.1}_{-0.64}$	$f\sigma_8(0.57)$	0.4333	0.431 ± 0.018
$\Omega_{\rm m} h^3$	0.104	$0.183^{+0.081}_{-0.041}$	Age/Gyr	13.45	$11.46^{+0.55}_{-1.9}$	$\sigma_8(0.57)$	0.5563	0.554 ± 0.025
σ_8	0.7467	0.744 ± 0.032	z_*	1090.9	$1098.5^{+7.3}_{-3.3}$	$\chi^2_{\rm 6DF}$	0.0102	0.070 ± 0.096
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4145	$0.412^{+0.017}_{-0.015}$	r_*	141.2	$120.1^{+5.8}_{-20}$	$\chi^2_{\rm MGS}$	1.41	1.53 ± 0.70
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5563	0.554 ± 0.022	$100\theta_*$	1.04075	$1.03912^{+0.00045}_{-0.0014}$	$\chi^2_{\rm DR11CMASS}$	2.42	3.12 ± 0.98
$\sigma_8/h^{0.5}$	0.896	$0.821^{+0.042}_{-0.077}$	$D_{\rm A}$/Gpc	13.57	$11.56^{+0.56}_{-1.9}$	$\chi^2_{\rm DR11LOWZ}$	0.485	0.67 ± 0.68
$\langle d^2 \rangle^{1/2}$	2.230	$2.08^{+0.11}_{-0.17}$	$z_{\rm drag}$	1060.43	$1066.4^{+6.1}_{-3.2}$	$\chi^2_{\rm CFHTLENS}$	96.68	97.3 ± 1.6
$z_{\rm re}$	9.41	$10.8^{+1.4}_{-0.63}$	$r_{\rm drag}$	143.8	$122.5^{+5.9}_{-20}$	$\chi^2_{\rm prior}$	0.01	2.03 ± 2.0
$10^9 A_{\rm s}$	1.747	$1.49^{+0.13}_{-0.29}$	$k_{\rm D}$	0.1428	$0.161^{+0.018}_{-0.0077}$	$\chi^2_{\rm BAO}$	4.32	5.40 ± 1.4
$10^9 A_{\rm s} e^{-2\tau}$	1.519	$1.30^{+0.12}_{-0.25}$	$100\theta_{\rm D}$	0.1621	$0.1705^{+0.0080}_{-0.0034}$			

Best-fit $\chi^2_{\rm eff} = 101.00$; $\bar{\chi}^2_{\rm eff} = 104.73$; $R - 1 = 0.00369$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.42 DR11LOWZ: 0.48 WL - CFHTLENS_6bin_conservative: 96.68

11.68 base_nnu_WLonlyHeymans_H070p6_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225	0.02229 ± 0.00092	$10^9 A_s e^{-2\tau}$	0.663	$1.21^{+0.11}_{-0.70}$	k_D	0.1678	$0.154^{+0.016}_{-0.0089}$
$\boldsymbol{\Omega_c h^2}$	0.2212	$0.169^{+0.055}_{-0.039}$	D_{40}	400	793^{+70}_{-510}	$100\theta_D$	0.16908	$0.1656^{+0.0045}_{-0.0039}$
$\boldsymbol{N_{eff}}$	6.11	$4.73^{+1.6}_{-1.3}$	D_{220}	1679	3601^{+310}_{-2500}	z_{eq}	4122	3676^{+500}_{-200}
$\boldsymbol{\ln(10^{10} A_s)}$	2.032	< 2.62	D_{810}	779	1573^{+140}_{-1000}	k_{eq}	0.01495	$0.0125^{+0.0027}_{-0.0015}$
$\boldsymbol{n_s}$	0.9625	0.961 ± 0.020	D_{1420}	236	493^{+46}_{-340}	$100\theta_{eq}$	0.708	$0.775^{+0.028}_{-0.079}$
H_0	70.39	70.9 ± 3.3	D_{2000}	60	135^{+13}_{-99}	$100\theta_{s,eq}$	0.3940	$0.429^{+0.015}_{-0.042}$
Ω_Λ	0.507	$0.618^{+0.063}_{-0.12}$	$n_{s,0.002}$	0.9625	0.961 ± 0.020	$r_{drag}/D_V(0.57)$	0.06446	$0.0689^{+0.0017}_{-0.0053}$
Ω_m	0.493	$0.382^{+0.12}_{-0.063}$	Y_P	0.2777	$0.264^{+0.019}_{-0.0090}$	$H(0.57)$	109.4	$102.4^{+8.2}_{-6.7}$
$\Omega_m h^2$	0.2441	$0.192^{+0.055}_{-0.039}$	Y_P^{BBN}	0.2791	$0.265^{+0.019}_{-0.0090}$	$D_A(0.57)$	1251	1294^{+62}_{-75}
$\Omega_m h^3$	0.1718	$0.136^{+0.038}_{-0.034}$	10^5D/H	3.67	3.20 ± 0.53	$F_{AP}(0.57)$	0.7166	$0.692^{+0.027}_{-0.013}$
σ_8	0.574	$0.678^{+0.041}_{-0.12}$	Age/Gyr	11.59	$12.55^{+0.69}_{-1.2}$	$f\sigma_8(0.57)$	0.3542	$0.401^{+0.022}_{-0.053}$
$\sigma_8 \Omega_m^{0.5}$	0.4032	0.409 ± 0.015	z_*	1100.5	$1095.4^{+6.0}_{-4.1}$	$\sigma_8(0.57)$	0.403	$0.495^{+0.035}_{-0.11}$
$\sigma_8 \Omega_m^{0.25}$	0.4812	$0.526^{+0.024}_{-0.052}$	r_*	115.1	$129.1^{+7.8}_{-18}$	χ^2_{H070p6}	0.004	0.99 ± 1.4
$\sigma_8/h^{0.5}$	0.685	$0.805^{+0.049}_{-0.14}$	$100\theta_*$	1.03924	$1.04001^{+0.00057}_{-0.0010}$	$\chi^2_{CFHTLENS}$	95.48	97.2 ± 1.5
$\langle d^2 \rangle^{1/2}$	1.656	$2.00^{+0.11}_{-0.41}$	D_A/Gpc	11.07	$12.42^{+0.74}_{-1.7}$	χ^2_{prior}	0.02	2.01 ± 2.0
z_{re}	11.34	$10.3^{+1.2}_{-0.80}$	z_{drag}	1068.15	$1064.0^{+5.2}_{-3.5}$			
$10^9 A_s$	0.763	$1.39^{+0.12}_{-0.81}$	r_{drag}	117.3	$131.6^{+7.9}_{-18}$			

Best-fit $\chi^2_{eff} = 95.50$; $\bar{\chi}^2_{eff} = 100.19$; $R - 1 = 0.00718$

χ^2_{eff}: Hubble - H070p6: 0.00 WL - CFHTLENS_6bin_conservative: 95.48

11.69 base_nnu_WLonlyHeymans_H070p6_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225	0.02225 ± 0.00092	D_{40}	967	956^{+100}_{-100}	$z_{\rm eq}$	3376	3379 ± 53
$\boldsymbol{\Omega_c h^2}$	0.1328	$0.135^{+0.014}_{-0.017}$	D_{220}	4404	4361^{+500}_{-600}	$k_{\rm eq}$	0.01079	0.01087 ± 0.00056
$\boldsymbol{N_{\rm eff}}$	3.77	$3.88^{+0.72}_{-0.83}$	D_{810}	1923	1905^{+200}_{-300}	$100\theta_{\rm eq}$	0.8182	0.8179 ± 0.0083
$\boldsymbol{\ln(10^{10} A_s)}$	2.827	2.81 ± 0.11	D_{1420}	604	599^{+80}_{-100}	$100\theta_{\rm s,eq}$	0.45204	0.4519 ± 0.0046
$\boldsymbol{n_s}$	0.9607	0.963 ± 0.020	D_{2000}	165.0	164^{+20}_{-30}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07175	0.07175 ± 0.00053
H_0	71.09	71.5 ± 3.3	$n_{\rm s,0.002}$	0.9607	0.963 ± 0.020	$H(0.57)$	97.59	98.2 ± 4.5
Ω_Λ	0.6919	0.6916 ± 0.0095	$Y_{\rm P}$	0.2547	$0.2555^{+0.0098}_{-0.0086}$	$D_{\rm A}(0.57)$	1321	1316^{+58}_{-66}
$\Omega_{\rm m}$	0.3081	0.3084 ± 0.0095	$Y_{\rm P}^{\rm BBN}$	0.2560	$0.2568^{+0.0098}_{-0.0087}$	$F_{\rm AP}(0.57)$	0.67515	0.6752 ± 0.0024
$\Omega_{\rm m} h^2$	0.1557	$0.158^{+0.014}_{-0.017}$	10^5D/H	2.866	$2.92^{+0.32}_{-0.41}$	$f\sigma_8(0.57)$	0.4318	0.430 ± 0.018
$\Omega_{\rm m} h^3$	0.1107	$0.113^{+0.014}_{-0.018}$	Age/Gyr	13.16	$13.11^{+0.58}_{-0.67}$	$\sigma_8(0.57)$	0.5543	0.552 ± 0.025
σ_8	0.7442	0.741 ± 0.032	z_*	1091.88	$1092.2^{+2.4}_{-2.8}$	$\chi^2_{\rm H070p6}$	0.02	1.07 ± 1.5
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4130	$0.411^{+0.018}_{-0.016}$	r_*	138.0	$137.5^{+6.2}_{-7.2}$	$\chi^2_{\rm 6DF}$	0.0104	0.072 ± 0.097
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5544	0.552 ± 0.023	$100\theta_*$	1.040539	1.04047 ± 0.00046	$\chi^2_{\rm MGS}$	1.41	1.49 ± 0.69
$\sigma_8/h^{0.5}$	0.8826	0.877 ± 0.041	$D_{\rm A}$/Gpc	13.27	$13.21^{+0.59}_{-0.69}$	$\chi^2_{\rm DR11CMASS}$	2.42	3.10 ± 0.95
$\langle d^2 \rangle^{1/2}$	2.200	2.18 ± 0.12	$z_{\rm drag}$	1061.12	1061.3 ± 2.5	$\chi^2_{\rm DR11LOWZ}$	0.488	0.71 ± 0.70
$z_{\rm re}$	9.59	$9.65^{+0.48}_{-0.54}$	$r_{\rm drag}$	140.7	$140.1^{+6.3}_{-7.3}$	$\chi^2_{\rm CFHTLENS}$	96.74	97.8 ± 1.5
$10^9 A_{\rm s}$	1.690	$1.67^{+0.17}_{-0.20}$	$k_{\rm D}$	0.1451	0.1456 ± 0.0050	$\chi^2_{\rm prior}$	0.00	2.07 ± 2.1
$10^9 A_{\rm s} e^{-2\tau}$	1.469	$1.46^{+0.15}_{-0.17}$	$100\theta_{\rm D}$	0.16321	0.1635 ± 0.0028	$\chi^2_{\rm BAO}$	4.32	5.36 ± 1.4

Best-fit $\chi^2_{\rm eff} = 101.09$; $\bar{\chi}^2_{\rm eff} = 106.26$; $R - 1 = 0.00672$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.42 DR11LOWZ: 0.49 Hubble - H070p6: 0.02 WL - CFHTLENS_6bin_conservative: 96.74

11.70 base_nnu_CamSpecDS_TT_lowTEB

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02240^{+0.00036}_{-0.00040}$ $(+0.3\sigma)$	$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	143.1 ± 2.7 (-0.3σ)
$\boldsymbol{\Omega_c h^2}$	0.1217 ± 0.0040 $(+0.3\sigma)$	H_0	$68.9^{+2.7}_{-3.1}$ $(+0.3\sigma)$	$100\theta_*$	1.04082 ± 0.00069 (-0.2σ)
$\boldsymbol{100\theta_{MC}}$	1.04075 ± 0.00055 (-0.1σ)	Ω_Λ	$0.694^{+0.022}_{-0.020}$ $(+0.3\sigma)$	$z_{\rm drag}$	1060.3 ± 1.3 $(+0.3\sigma)$
$\boldsymbol{\tau}$	$0.079^{+0.022}_{-0.025}$ (-0.0σ)	$\Omega_{\rm m}$	0.306 ± 0.020 (-0.3σ)	$r_{\rm drag}$	145.8 ± 2.8 (-0.3σ)
$\boldsymbol{N_{eff}}$	$3.24^{+0.30}_{-0.35}$ $(+0.3\sigma)$	$\Omega_{\rm m}h^2$	0.1447 ± 0.0042 $(+0.3\sigma)$	$k_{\rm D}$	0.1417 ± 0.0020 $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.097^{+0.046}_{-0.053}$ $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	$0.0998^{+0.0058}_{-0.0071}$ $(+0.3\sigma)$	$100\theta_{\rm D}$	0.16132 ± 0.00068 $(+0.3\sigma)$
$\boldsymbol{n_s}$	0.975 ± 0.016 $(+0.4\sigma)$	σ_8	$0.836^{+0.021}_{-0.026}$ $(+0.1\sigma)$	$z_{\rm eq}$	3360 ± 73 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.462 ± 0.013 (-0.2σ)	$100\theta_{\rm eq}$	0.821 ± 0.014 $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	282 ± 23 $(+0.8\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.621 ± 0.014 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.0719 ± 0.0011 $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	48 ± 7 $(+0.4\sigma)$	$\sigma_8/h^{0.5}$	1.007 ± 0.020 (-0.2σ)	$H(0.57)$	$94.4^{+2.4}_{-2.7}$ $(+0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	88 ± 10 (-0.9σ)	$\langle d^2\rangle^{1/2}$	2.474 ± 0.049 (-0.4σ)	$D_{\rm A}(0.57)$	1366 ± 46 (-0.3σ)
$\boldsymbol{A_{217}^{CIB}}$	54 ± 7 (-1.5σ)	$z_{\rm re}$	10.0 ± 2.0 (-0.0σ)	$F_{\rm AP}(0.57)$	0.6745 ± 0.0052 (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	$2.92^{+0.98}_{-2.7}$ (-1.1σ)	$10^9A_{\rm s}$	$2.215^{+0.097}_{-0.12}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.484 ± 0.011 (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.549^{+0.091}_{-0.11}$	$10^9A_{\rm s}e^{-2\tau}$	1.888 ± 0.021 $(+0.2\sigma)$	$\sigma_8(0.57)$	$0.624^{+0.019}_{-0.023}$ $(+0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.603 (-0.2σ)	D_{40}	1223 ± 22 (-0.5σ)	$Y_{\rm P}^{\rm BBN}$	0.2487 ± 0.0043 $(+0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.54^{+4.2}_{-1.6}$ $(+0.7\sigma)$	D_{220}	5709 ± 41 (-0.2σ)	f_{2000}^{143}	33.3 ± 3.1 $(+0.9\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.97 ± 0.19	D_{810}	2536 ± 14 $(+0.1\sigma)$	f_{2000}^{217}	108.7 ± 2.2 $(+1.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.07 ± 0.18	D_{1420}	814.5 ± 5.1 $(+0.1\sigma)$	$f_{2000}^{143\times217}$	35.7 ± 2.4 $(+1.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.16 ± 0.12	$n_{\rm s,0.002}$	0.975 ± 0.016 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10496.3 ± 2.6 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$Y_{\rm P}$	0.2474 ± 0.0043 $(+0.2\sigma)$	$\chi^2_{\rm CamSpec}$	8155.8 ± 6.0
$\boldsymbol{c_{100}}$	0.99841 ± 0.00095 $(+0.7\sigma)$	Age/Gyr	13.62 ± 0.33 (-0.3σ)	$\chi^2_{\rm prior}$	7.32 ± 3.3 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9994 ± 0.0018 $(+2.3\sigma)$	z_*	1090.19 ± 0.48 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18652.1 ± 5.8 $(+1291.8\sigma)$

$\bar{\chi}^2_{\rm eff} = 18659.44$; $\Delta\bar{\chi}^2_{\rm eff} = 7376.42$; $R - 1 = 0.00978$

11.71 base_nnu_plikDS_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022335	0.02240 ± 0.00038 $(+0.3\sigma)$	Ω_m	0.3115	0.308 ± 0.021 (-0.2σ)	D_A/Gpc	13.835	13.77 ± 0.25 (-0.2σ)
$\boldsymbol{\Omega_c h^2}$	0.12047	0.1214 ± 0.0040 $(+0.2\sigma)$	$\Omega_m h^2$	0.14345	0.1444 ± 0.0042 $(+0.2\sigma)$	z_{drag}	1059.93	1060.2 ± 1.3 $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04081	1.04074 ± 0.00055 (-0.1σ)	$\Omega_m h^3$	0.0974	$0.0992^{+0.0060}_{-0.0068}$ $(+0.2\sigma)$	r_{drag}	146.69	146.0 ± 2.8 (-0.2σ)
$\boldsymbol{\tau}$	0.0773	$0.080^{+0.021}_{-0.024}$ (-0.0σ)	σ_8	0.8312	$0.835^{+0.021}_{-0.025}$ $(+0.1\sigma)$	k_D	0.14102	0.1415 ± 0.0020 $(+0.3\sigma)$
$\boldsymbol{N_{eff}}$	3.110	3.20 ± 0.32 $(+0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4639	0.463 ± 0.013 (-0.1σ)	$100\theta_D$	0.16102	0.16121 ± 0.00068 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0908	3.098 ± 0.047 $(+0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6210	0.622 ± 0.014 (-0.0σ)	z_{eq}	3384	3369 ± 74 (-0.1σ)
$\boldsymbol{n_s}$	0.9689	0.972 ± 0.016 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	1.0090	1.009 ± 0.019 (-0.1σ)	k_{eq}	0.010371	0.01038 ± 0.00016 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.00030	1.0004 ± 0.0025 $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4885	2.485 ± 0.048 (-0.2σ)	$100\theta_{eq}$	0.8165	0.820 ± 0.014 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	71.0	68.0 ± 6.7 $(+0.6\sigma)$	z_{re}	9.93	10.1 ± 2.0 (-0.0σ)	$100\theta_{s,eq}$	0.4511	0.4526 ± 0.0073 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$10^9 A_s$	2.200	$2.217^{+0.097}_{-0.12}$ $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07156	0.0718 ± 0.0011 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	6.77	4.56 ± 1.9 (-0.3σ)	$10^9 A_s e^{-2\tau}$	1.8843	1.888 ± 0.022 $(+0.2\sigma)$	$H(0.57)$	93.41	94.1 ± 2.5 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	278.7	286 ± 28 $(+0.9\sigma)$	D_{40}	1231.3	1230 ± 22 (-0.2σ)	$D_A(0.57)$	1382.0	1371 ± 46 (-0.2σ)
$\boldsymbol{A_{143}^{PS}}$	44.6	50 ± 8 $(+0.6\sigma)$	D_{220}	5719.4	5723 ± 41 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6760	0.6751 ± 0.0053 (-0.2σ)
$\boldsymbol{A_{143\times 217}^{PS}}$	34.8	41^{+9}_{-10} $(+0.1\sigma)$	D_{810}	2536.0	2537 ± 14 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4833	0.484 ± 0.011 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	93.6	93 ± 10 (-0.4σ)	D_{1420}	815.1	814.4 ± 5.1 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6183	$0.623^{+0.019}_{-0.022}$ $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	0.00	< 5.33 $(+0.2\sigma)$	D_{2000}	230.38	229.9 ± 2.2 (-0.1σ)	f_{2000}^{143}	32.98	33.9 ± 3.1 $(+1.0\sigma)$
$\boldsymbol{A_{100}^{dustTT}}$	7.33	7.39 ± 1.9 (-0.0σ)	$n_{s,0.002}$	0.9689	0.972 ± 0.016 $(+0.2\sigma)$	$f_{2000}^{143\times 217}$	33.08	33.7 ± 2.3 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{dustTT}}$	9.14	9.09 ± 1.8 $(+0.1\sigma)$	Y_P	0.24624	0.2474 ± 0.0043 $(+0.2\sigma)$	f_{2000}^{217}	113.84	114.4 ± 2.2 $(+3.4\sigma)$
$\boldsymbol{A_{143\times 217}^{dustTT}}$	17.78	17.3 ± 4.1 $(+0.0\sigma)$	Y_P^{BBN}	0.24757	0.2487 ± 0.0044 $(+0.2\sigma)$	χ^2_{lowTEB}	10495.85	10496.9 ± 2.7 (-0.2σ)
$\boldsymbol{A_{217}^{dustTT}}$	80.6	80.5 ± 7.4 (-0.2σ)	10^5D/H	2.620	2.638 ± 0.068 $(+0.1\sigma)$	χ^2_{plik}	748.2	762.5 ± 5.9 (-2.6σ)
$\boldsymbol{c_{100}}$	0.99792	0.99792 ± 0.00078 $(+0.0\sigma)$	Age/Gyr	13.740	13.66 ± 0.33 (-0.2σ)	χ^2_{prior}	2.01	7.26 ± 3.5 (-0.0σ)
$\boldsymbol{c_{217}}$	0.99636	0.9964 ± 0.0014 $(+0.3\sigma)$	z_*	1090.068	1090.15 ± 0.48 $(+0.0\sigma)$	χ^2_{CMB}	11244.0	11259.4 ± 5.7 (-2.8σ)
H_0	67.86	68.6 ± 2.8 $(+0.2\sigma)$	r_*	144.02	143.4 ± 2.7 (-0.2σ)			
Ω_Λ	0.6885	$0.692^{+0.022}_{-0.020}$ $(+0.2\sigma)$	$100\theta_*$	1.04095	1.04083 ± 0.00069 (-0.2σ)			

Best-fit $\chi^2_{eff} = 11246.05$; $\Delta\chi^2_{eff} = -15.89$; $\bar{\chi}^2_{eff} = 11266.65$; $\Delta\bar{\chi}^2_{eff} = -16.37$; $R - 1 = 0.00910$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.85 (Δ -0.44) plik_dx11dr2_DS_v18_TT: 748.19

11.72 base_nnu_plikHM_TT_WMAPTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022193	0.02224 ± 0.00033	Ω_m	0.3180	0.315 ± 0.019	D_A/Gpc	13.915	13.86 ± 0.24
$\boldsymbol{\Omega_c h^2}$	0.11955	0.1205 ± 0.0040	$\Omega_m h^2$	0.14239	0.1434 ± 0.0042	z_{drag}	1059.47	1059.7 ± 1.2
$\boldsymbol{100\theta_{MC}}$	1.04089	1.04081 ± 0.00057	$\Omega_m h^3$	0.0953	$0.0969^{+0.0056}_{-0.0063}$	r_{drag}	147.60	146.9 ± 2.7
$\boldsymbol{\tau}$	0.0727	$0.074^{+0.012}_{-0.014}$	σ_8	0.8251	0.829 ± 0.016	k_D	0.14034	0.1408 ± 0.0019
$\boldsymbol{N_{eff}}$	3.008	3.09 ± 0.30	$\sigma_8 \Omega_m^{0.5}$	0.4653	0.465 ± 0.013	$100\theta_D$	0.16087	0.16107 ± 0.00068
$\boldsymbol{\ln(10^{10} A_s)}$	3.0787	$3.084^{+0.028}_{-0.031}$	$\sigma_8 \Omega_m^{0.25}$	0.6196	0.620 ± 0.012	z_{eq}	3405	3392 ± 66
$\boldsymbol{n_s}$	0.9635	0.966 ± 0.014	$\sigma_8/h^{0.5}$	1.0087	1.008 ± 0.017	k_{eq}	0.010365	0.01038 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00026	1.0004 ± 0.0024	$\langle d^2 \rangle^{1/2}$	2.4940	2.490 ± 0.046	$100\theta_{eq}$	0.8123	0.815 ± 0.013
$\boldsymbol{A_{217}^{CIB}}$	66.7	64.3 ± 6.7	z_{re}	9.50	9.61 ± 1.1	$100\theta_{s,eq}$	0.4490	0.4504 ± 0.0064
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.04	—	$10^9 A_s$	2.173	$2.185^{+0.059}_{-0.069}$	$r_{drag}/D_V(0.57)$	0.07123	$0.07144^{+0.00093}_{-0.0011}$
$\boldsymbol{A_{143}^{tSZ}}$	7.05	5.05 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8791	1.883 ± 0.022	$H(0.57)$	92.56	93.2 ± 2.3
$\boldsymbol{A_{100}^{PS}}$	253.7	260 ± 28	D_{40}	1237.3	1235 ± 22	$D_A(0.57)$	1398.1	1388 ± 42
$\boldsymbol{A_{143}^{PS}}$	39.3	44 ± 8	D_{220}	5715.1	5718 ± 41	$F_{AP}(0.57)$	0.67767	0.6768 ± 0.0047
$\boldsymbol{A_{143\times217}^{PS}}$	33.3	39^{+10}_{-10}	D_{810}	2534.3	2535 ± 14	$f\sigma_8(0.57)$	0.4814	0.4823 ± 0.0089
$\boldsymbol{A_{217}^{PS}}$	97.7	97 ± 10	D_{1420}	815.0	814.3 ± 5.1	$\sigma_8(0.57)$	0.6123	0.616 ± 0.014
$\boldsymbol{A^{kSZ}}$	0.02	< 4.89	D_{2000}	230.53	230.0 ± 2.3	f_{2000}^{143}	29.51	31 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.37	7.45 ± 1.9	$n_{s,0.002}$	0.9635	0.966 ± 0.014	$f_{2000}^{143\times217}$	32.09	32.8 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	8.91	9.02 ± 1.8	Y_P	0.24480	0.2459 ± 0.0041	f_{2000}^{217}	105.74	106.4 ± 2.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.53	17.2 ± 4.2	Y_P^{BBN}	0.24612	0.2472 ± 0.0041	$\chi^2_{WMAPTEB}$	19734.46	19735.5 ± 2.8
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	10^5D/H	2.611	2.631 ± 0.070	χ^2_{plik}	763.8	778.4 ± 6.0
$\boldsymbol{c_{100}}$	0.99795	0.99788 ± 0.00078	Age/Gyr	13.854	13.78 ± 0.31	χ^2_{prior}	1.92	7.35 ± 3.6
$\boldsymbol{c_{217}}$	0.99597	0.9960 ± 0.0014	z_*	1090.069	1090.17 ± 0.49	χ^2_{CMB}	20498.2	20513.8 ± 5.7
H_0	66.92	$67.6^{+2.4}_{-2.7}$	r_*	144.87	144.2 ± 2.6			
Ω_Λ	0.6820	0.685 ± 0.019	$100\theta_*$	1.04112	1.04098 ± 0.00071			

Best-fit $\chi^2_{eff} = 20500.14$; $\bar{\chi}^2_{eff} = 20521.16$; $R - 1 = 0.00763$

χ^2_{eff}: CMB - bflike_WMAP353ggf_LFI312_nw8: 19734.46 plik_dx11dr2_HM_v18_TT: 763.76

11.73 base_nnu_plikHM_TT_WMAPTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02235 ± 0.00032	Ω_m	0.303 ± 0.015	D_A/Gpc	13.84 ± 0.23
$\boldsymbol{\Omega_c h^2}$	$0.1195^{+0.0037}_{-0.0043}$	$\Omega_m h^2$	$0.1425^{+0.0038}_{-0.0045}$	z_{drag}	1059.9 ± 1.1
$\boldsymbol{100\theta_{MC}}$	1.04095 ± 0.00055	$\Omega_m h^3$	$0.0979^{+0.0052}_{-0.0063}$	r_{drag}	146.8 ± 2.6
$\boldsymbol{\tau}$	$0.071^{+0.011}_{-0.013}$	σ_8	$0.821^{+0.014}_{-0.016}$	k_D	$0.1408^{+0.0018}_{-0.0020}$
$\boldsymbol{N_{eff}}$	$3.15^{+0.27}_{-0.31}$	$\sigma_8\Omega_m^{0.5}$	0.4516 ± 0.0087	$100\theta_D$	0.16118 ± 0.00065
$\boldsymbol{\ln(10^{10}A_s)}$	$3.074^{+0.025}_{-0.029}$	$\sigma_8\Omega_m^{0.25}$	0.6089 ± 0.0085	z_{eq}	3347 ± 54
$\boldsymbol{n_s}$	0.972 ± 0.013	$\sigma_8/h^{0.5}$	0.991 ± 0.010	k_{eq}	0.01028 ± 0.00014
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.446 ± 0.030	$100\theta_{eq}$	$0.823^{+0.010}_{-0.011}$
$\boldsymbol{A_{217}^{CIB}}$	64.8 ± 6.7	z_{re}	9.24 ± 1.1	$100\theta_{s,eq}$	0.4547 ± 0.0054
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.163^{+0.054}_{-0.064}$	$r_{drag}/D_V(0.57)$	$0.07209^{+0.00079}_{-0.00089}$
$\boldsymbol{A_{143}^{tSZ}}$	4.91 ± 2.0	$10^9 A_s e^{-2\tau}$	1.878 ± 0.021	$H(0.57)$	$93.8^{+2.1}_{-2.4}$
$\boldsymbol{A_{100}^{PS}}$	262 ± 28	D_{40}	1221 ± 18	$D_A(0.57)$	1372 ± 39
$\boldsymbol{A_{143}^{PS}}$	45 ± 9	D_{220}	5718 ± 41	$F_{AP}(0.57)$	0.6738 ± 0.0038
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{810}	2533 ± 14	$f\sigma_8(0.57)$	$0.4749^{+0.0063}_{-0.0075}$
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	D_{1420}	814.1 ± 5.2	$\sigma_8(0.57)$	$0.613^{+0.013}_{-0.015}$
$\boldsymbol{A^{kSZ}}$	< 5.35	D_{2000}	229.6 ± 2.2	f_{2000}^{143}	31.1 ± 3.4
$\boldsymbol{A_{100}^{dustTT}}$	7.52 ± 1.9	$n_{s,0.002}$	0.972 ± 0.013	$f_{2000}^{143\times217}$	33.2 ± 2.5
$\boldsymbol{A_{143}^{dustTT}}$	9.02 ± 1.9	Y_P	0.2466 ± 0.0039	f_{2000}^{217}	106.7 ± 2.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	Y_P^{BBN}	0.2480 ± 0.0039	$\chi^2_{lensing}$	10.0 ± 1.5
$\boldsymbol{A_{217}^{dustTT}}$	81.6 ± 7.3	10^5D/H	2.630 ± 0.069	$\chi^2_{WMAPTEB}$	19733.8 ± 2.1
$\boldsymbol{c_{100}}$	0.99789 ± 0.00078	Age/Gyr	13.70 ± 0.29	χ^2_{plik}	780.4 ± 6.4
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	z_*	1090.00 ± 0.47	χ^2_{prior}	7.42 ± 3.6
H_0	$68.7^{+2.2}_{-2.5}$	r_*	144.1 ± 2.5	χ^2_{CMB}	20524.3 ± 6.5
Ω_Λ	0.697 ± 0.015	$100\theta_*$	1.04108 ± 0.00069		

$\bar{\chi}^2_{eff} = 20531.67$; $R - 1 = 0.02458$

11.74 base_nnu_plikHM_TT_WMAPTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02231 ± 0.00024	$\Omega_m h^2$	0.1436 ± 0.0040	r_{drag}	146.5 ± 2.3
$\boldsymbol{\Omega_c h^2}$	0.1207 ± 0.0039	$\Omega_m h^3$	$0.0979^{+0.0044}_{-0.0050}$	k_D	0.1411 ± 0.0017
$\boldsymbol{100\theta_{MC}}$	1.04080 ± 0.00055	σ_8	0.830 ± 0.016	$100\theta_D$	0.16117 ± 0.00057
$\boldsymbol{\tau}$	0.075 ± 0.012	$\sigma_8\Omega_m^{0.5}$	0.4614 ± 0.0095	z_{eq}	3373 ± 32
$\boldsymbol{N_{eff}}$	3.14 ± 0.23	$\sigma_8\Omega_m^{0.25}$	0.619 ± 0.011	k_{eq}	0.01036 ± 0.00015
$\boldsymbol{\ln(10^{10} A_s)}$	3.087 ± 0.026	$\sigma_8/h^{0.5}$	1.005 ± 0.014	$100\theta_{eq}$	0.8184 ± 0.0060
$\boldsymbol{n_s}$	0.9696 ± 0.0086	$\langle d^2 \rangle^{1/2}$	2.479 ± 0.033	$100\theta_{s,eq}$	0.4521 ± 0.0031
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	z_{re}	9.73 ± 1.1	$r_{drag}/D_V(0.57)$	0.07169 ± 0.00046
$\boldsymbol{A_{217}^{CIB}}$	64.6 ± 6.6	$10^9 A_s$	$2.192^{+0.054}_{-0.063}$	$H(0.57)$	93.6 ± 1.6
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s e^{-2\tau}$	1.885 ± 0.021	$D_A(0.57)$	1378 ± 26
$\boldsymbol{A_{143}^{tSZ}}$	4.99 ± 1.9	D_{40}	1230 ± 15	$F_{AP}(0.57)$	0.6755 ± 0.0022
$\boldsymbol{A_{100}^{PS}}$	261 ± 28	D_{220}	5720 ± 40	$f\sigma_8(0.57)$	0.4818 ± 0.0087
$\boldsymbol{A_{143}^{PS}}$	45 ± 8	D_{810}	2535 ± 14	$\sigma_8(0.57)$	0.618 ± 0.012
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{1420}	814.2 ± 5.1	f_{2000}^{143}	30.8 ± 3.3
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{2000}	229.8 ± 2.2	$f_{2000}^{143\times217}$	33.1 ± 2.4
$\boldsymbol{A^{kSZ}}$	< 5.01	$n_{s,0.002}$	0.9696 ± 0.0086	f_{2000}^{217}	106.6 ± 2.3
$\boldsymbol{A_{100}^{dustTT}}$	7.45 ± 1.9	Y_P	0.2466 ± 0.0031	$\chi^2_{WMAPTEB}$	19734.8 ± 2.3
$\boldsymbol{A_{143}^{dustTT}}$	9.01 ± 1.8	Y_P^{BBN}	0.2480 ± 0.0032	χ^2_{plik}	778.4 ± 5.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	10^5D/H	2.637 ± 0.066	χ^2_{6DF}	0.065 ± 0.088
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.4	Age/Gyr	13.71 ± 0.22	χ^2_{MGS}	1.40 ± 0.60
$\boldsymbol{c_{100}}$	0.99789 ± 0.00079	z_*	1090.15 ± 0.48	$\chi^2_{DR11CMASS}$	2.96 ± 0.77
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	r_*	143.9 ± 2.2	$\chi^2_{DR11LOWZ}$	0.73 ± 0.64
H_0	68.2 ± 1.5	$100\theta_*$	1.04093 ± 0.00067	χ^2_{prior}	7.35 ± 3.6
Ω_Λ	0.6906 ± 0.0086	D_A/Gpc	13.82 ± 0.20	χ^2_{CMB}	20513.2 ± 5.5
Ω_m	0.3094 ± 0.0086	z_{drag}	1059.91 ± 0.87	χ^2_{BAO}	5.16 ± 1.1

$\bar{\chi}^2_{eff} = 20525.70$; $R - 1 = 0.01099$

12 nnu+meffsterile

12.1 base_nnu_meffsterile_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022253	$0.02243^{+0.00026}_{-0.00032}$	Ω_Λ	0.6860	0.680 ± 0.021	r_*	144.61	$142.3^{+2.2}_{-1.2}$
$\boldsymbol{\Omega_c h^2}$	0.11962	$0.1214^{+0.0047}_{-0.0036}$	Ω_m	0.3140	0.320 ± 0.021	$100\theta_*$	1.04110	$1.04062^{+0.00064}_{-0.00055}$
$\boldsymbol{100\theta_{MC}}$	1.04092	1.04056 ± 0.00053	$\Omega_m h^2$	0.14255	$0.1476^{+0.0033}_{-0.0048}$	D_A/Gpc	13.890	$13.68^{+0.21}_{-0.11}$
$\boldsymbol{\tau}$	0.0746	0.086 ± 0.021	$\Omega_\nu h^2$	0.00068	< 0.00435	z_{drag}	1059.63	$1060.56^{+0.66}_{-1.0}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.003	< 0.348	$\Omega_m h^3$	0.09604	$0.1004^{+0.0018}_{-0.0048}$	r_{drag}	147.32	$144.9^{+2.3}_{-1.2}$
$\boldsymbol{N_{eff}}$	3.046	< 3.36	σ_8	0.8263	$0.801^{+0.042}_{-0.031}$	k_D	0.14054	$0.1424^{+0.0010}_{-0.0017}$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0828	$3.112^{+0.041}_{-0.046}$	$\sigma_8 \Omega_m^{0.5}$	0.4631	$0.452^{+0.018}_{-0.015}$	$100\theta_D$	0.16093	$0.16136^{+0.00038}_{-0.00062}$
$\boldsymbol{n_s}$	0.9655	$0.9726^{+0.0087}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	0.6186	$0.602^{+0.027}_{-0.018}$	z_{eq}	3390	3324^{+76}_{-58}
$\boldsymbol{y_{cal}}$	1.00021	1.0003 ± 0.0025	$\sigma_8/h^{0.5}$	1.0067	$0.971^{+0.046}_{-0.028}$	k_{eq}	0.010348	$0.01035^{+0.00023}_{-0.00017}$
$\boldsymbol{A^{CIB}_{217}}$	67.3	65.3 ± 6.7	$\langle d^2 \rangle^{1/2}$	2.4894	2.498 ± 0.049	$100\theta_{eq}$	0.8151	$0.830^{+0.011}_{-0.016}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	z_{re}	9.67	10.7 ± 1.9	$100\theta_{s,eq}$	0.4504	$0.4579^{+0.0056}_{-0.0084}$
$\boldsymbol{A^{tSZ}_{143}}$	7.22	4.80 ± 2.0	$10^9 A_s$	2.182	$2.249^{+0.088}_{-0.11}$	$r_{drag}/D_V(0.57)$	0.07144	0.0711 ± 0.0011
$\boldsymbol{A^{PS}_{100}}$	252.6	264 ± 28	$10^9 A_s e^{-2\tau}$	1.8794	$1.893^{+0.016}_{-0.019}$	$H(0.57)$	92.91	$94.15^{+0.64}_{-1.8}$
$\boldsymbol{A^{PS}_{143}}$	38.5	47 ± 8	D_{40}	1234.8	1227^{+21}_{-19}	$D_A(0.57)$	1390.7	1376^{+35}_{-17}
$\boldsymbol{A^{PS}_{143\times217}}$	32.2	40^{+9}_{-10}	D_{220}	5717.9	5718 ± 42	$F_{AP}(0.57)$	0.6767	0.6781 ± 0.0052
$\boldsymbol{A^{PS}_{217}}$	96.9	97 ± 10	D_{810}	2534.4	2536 ± 14	$f\sigma_8(0.57)$	0.4811	$0.468^{+0.022}_{-0.015}$
$\boldsymbol{A^{kSZ}}$	0.00	< 5.39	D_{1420}	814.5	812.9 ± 5.2	$\sigma_8(0.57)$	0.6141	$0.594^{+0.034}_{-0.026}$
$\boldsymbol{A^{dustTT}_{100}}$	7.45	7.47 ± 1.9	D_{2000}	230.38	228.7 ± 2.1	f^{143}_{2000}	29.68	32.0 ± 3.3
$\boldsymbol{A^{dustTT}_{143}}$	9.05	9.04 ± 1.8	$n_{s,0.002}$	0.9655	$0.9726^{+0.0087}_{-0.014}$	$f^{143\times217}_{2000}$	32.31	34.1 ± 2.4
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.61	17.3 ± 4.2	Y_P	0.24534	$0.2488^{+0.0014}_{-0.0034}$	f^{217}_{2000}	105.92	107.5 ± 2.3
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.8 ± 7.5	Y_P^{BBN}	0.24667	$0.2501^{+0.0014}_{-0.0035}$	χ^2_{lowTEB}	10496.19	10497.2 ± 2.7
$\boldsymbol{c_{100}}$	0.99795	0.99787 ± 0.00078	10^5D/H	2.613	$2.667^{+0.055}_{-0.066}$	χ^2_{plik}	763.8	780.1 ± 6.3
$\boldsymbol{c_{217}}$	0.99594	0.9961 ± 0.0015	Age/Gyr	13.808	$13.62^{+0.23}_{-0.085}$	χ^2_{prior}	2.01	7.47 ± 3.6
H_0	67.38	$68.0^{+1.2}_{-2.3}$	z_*	1090.04	1090.43 ± 0.51	χ^2_{CMB}	11260.0	11277.3 ± 6.0

Best-fit $\chi^2_{eff} = 11261.98$; $\bar{\chi}^2_{eff} = 11284.79$; $R - 1 = 0.01342$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.19 plik_dx11dr2_HM_v18_TT: 763.77

12.2 base_nnu_meffsterile_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022236	0.02237 ± 0.00018	$\boldsymbol{A^{dust TE}_{100\times143}}$	0.1317	0.131 ± 0.029	Y_P^{BBN}	0.24666	$0.24879^{+0.00086}_{-0.0020}$
$\boldsymbol{\Omega_c h^2}$	0.11997	$0.1204^{+0.0035}_{-0.0025}$	$\boldsymbol{A^{dust TE}_{100\times217}}$	0.302	0.302 ± 0.084	10^5D/H	2.6166	$2.646^{+0.036}_{-0.042}$
$\boldsymbol{100\theta_{MC}}$	1.040736	1.04055 ± 0.00036	$\boldsymbol{A^{dust TE}_{143}}$	0.155	0.154 ± 0.054	Age/Gyr	13.816	$13.72^{+0.11}_{-0.047}$
$\boldsymbol{\tau}$	0.0791	0.085 ± 0.018	$\boldsymbol{A^{dust TE}_{143\times217}}$	0.339	0.339 ± 0.081	z_*	1090.091	$1090.34^{+0.35}_{-0.39}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.007	< 0.367	$\boldsymbol{A^{dust TE}_{217}}$	1.675	1.67 ± 0.25	r_*	144.52	$143.1^{+1.5}_{-0.76}$
$\boldsymbol{N_{eff}}$	3.046	< 3.24	$\boldsymbol{c_{100}}$	0.99822	0.99814 ± 0.00077	$100\theta_*$	1.040940	$1.04067^{+0.00042}_{-0.00037}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0938	3.109 ± 0.035	$\boldsymbol{c_{217}}$	0.99596	0.9961 ± 0.0014	D_A/Gpc	13.884	$13.75^{+0.14}_{-0.071}$
$\boldsymbol{n_s}$	0.9637	$0.9668^{+0.0057}_{-0.0075}$	H_0	67.17	$67.18^{+0.75}_{-1.0}$	z_{drag}	1059.63	$1060.26^{+0.43}_{-0.63}$
$\boldsymbol{y_{cal}}$	1.00038	1.0004 ± 0.0025	Ω_Λ	0.6832	$0.675^{+0.015}_{-0.012}$	r_{drag}	147.23	$145.7^{+1.5}_{-0.77}$
$\boldsymbol{A^{CIB}_{217}}$	66.4	64.8 ± 6.6	Ω_m	0.3168	$0.325^{+0.012}_{-0.015}$	k_D	0.14062	$0.14186^{+0.00066}_{-0.0012}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	$\Omega_m h^2$	0.14292	$0.1465^{+0.0023}_{-0.0038}$	$100\theta_D$	0.160916	$0.16110^{+0.00022}_{-0.00032}$
$\boldsymbol{A^{tSZ}_{143}}$	7.07	5.16 ± 1.9	$\Omega_\nu h^2$	0.00072	$0.0038^{+0.0010}_{-0.0034}$	z_{eq}	3398	3341^{+64}_{-39}
$\boldsymbol{A^{PS}_{100}}$	257.4	264 ± 28	$\Omega_m h^3$	0.09600	$0.0984^{+0.0010}_{-0.0026}$	k_{eq}	0.010373	$0.01034^{+0.00018}_{-0.00012}$
$\boldsymbol{A^{PS}_{143}}$	40.9	46 ± 8	σ_8	0.8315	$0.798^{+0.037}_{-0.025}$	$100\theta_{eq}$	0.8135	$0.8261^{+0.0075}_{-0.014}$
$\boldsymbol{A^{PS}_{143\times217}}$	36.7	41^{+10}_{-10}	$\sigma_8\Omega_m^{0.5}$	0.4680	$0.455^{+0.016}_{-0.012}$	$100\theta_{s,eq}$	0.4496	$0.4561^{+0.0039}_{-0.0073}$
$\boldsymbol{A^{PS}_{217}}$	98.8	98 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6238	$0.602^{+0.025}_{-0.016}$	$r_{drag}/D_V(0.57)$	0.07128	$0.07083^{+0.00076}_{-0.00065}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.64	$\sigma_8/h^{0.5}$	1.0146	$0.974^{+0.043}_{-0.027}$	$H(0.57)$	92.82	$93.39^{+0.34}_{-0.77}$
$\boldsymbol{A^{dust TT}_{100}}$	7.29	7.50 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5116	2.516 ± 0.040	$D_A(0.57)$	1393.5	$1389^{+15}_{-9.2}$
$\boldsymbol{A^{dust TT}_{143}}$	8.88	8.99 ± 1.8	z_{re}	10.09	$10.6^{+1.7}_{-1.5}$	$F_{AP}(0.57)$	0.67736	$0.6794^{+0.0030}_{-0.0037}$
$\boldsymbol{A^{dust TT}_{143\times217}}$	17.45	17.1 ± 4.2	$10^9 A_s$	2.206	2.240 ± 0.079	$f\sigma_8(0.57)$	0.4848	$0.468^{+0.020}_{-0.013}$
$\boldsymbol{A^{dust TT}_{217}}$	81.9	81.6 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8834	1.891 ± 0.014	$\sigma_8(0.57)$	0.6173	$0.591^{+0.030}_{-0.020}$
$\boldsymbol{A^{dust EE}_{100}}$	0.0810	0.0811 ± 0.0057	D_{40}	1242.8	1238 ± 15	f^{143}_{2000}	29.44	31.0 ± 2.9
$\boldsymbol{A^{dust EE}_{100\times143}}$	0.04865	0.0487 ± 0.0050	D_{220}	5729.2	5727 ± 39	$f^{143\times217}_{2000}$	32.32	33.4 ± 2.1
$\boldsymbol{A^{dust EE}_{100\times217}}$	0.0996	0.099 ± 0.032	D_{810}	2536.4	2537 ± 14	f^{217}_{2000}	105.84	106.9 ± 2.0
$\boldsymbol{A^{dust EE}_{143}}$	0.1002	0.1001 ± 0.0069	D_{1420}	814.42	813.4 ± 4.8	χ^2_{lowTEB}	10497.28	10497.9 ± 2.5
$\boldsymbol{A^{dust EE}_{143\times217}}$	0.2230	0.222 ± 0.047	D_{2000}	230.38	229.3 ± 1.8	χ^2_{plik}	2431.7	2453.0 ± 7.1
$\boldsymbol{A^{dust EE}_{217}}$	0.654	0.65 ± 0.13	$n_{s,0.002}$	0.9637	$0.9668^{+0.0057}_{-0.0075}$	χ^2_{prior}	6.70	19.5 ± 5.5
$\boldsymbol{A^{dust TE}_{100}}$	0.1420	0.141 ± 0.038	Y_P	0.24533	$0.24746^{+0.00086}_{-0.0020}$	χ^2_{CMB}	12928.9	12951.0 ± 6.9

Best-fit $\chi^2_{eff} = 12935.64$; $\bar{\chi}^2_{eff} = 12970.44$; $R - 1 = 0.01538$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.28 plik_dx11dr2_HM_v18_TTTEEE: 2431.66

12.3 base_nnu_meffsterile_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022256	$0.02245^{+0.00026}_{-0.00031}$ $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	−0.17	-0.06 ± 0.99	r_*	144.39	$142.4^{+2.2}_{-1.2}$ $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11976	$0.1211^{+0.0044}_{-0.0037}$ (-0.1σ)	H_0	67.79	$68.1^{+1.2}_{-2.2}$ $(+0.1\sigma)$	$100\theta_*$	1.04108	$1.04071^{+0.00062}_{-0.00055}$ $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04090	1.04064 ± 0.00052 $(+0.1\sigma)$	Ω_Λ	0.6896	0.682 ± 0.020 $(+0.1\sigma)$	z_{drag}	1059.67	$1060.53^{+0.65}_{-0.98}$ (-0.0σ)
$\boldsymbol{\tau}$	0.0803	0.086 ± 0.021 $(+0.0\sigma)$	Ω_m	0.3104	0.318 ± 0.020 (-0.1σ)	r_{drag}	147.09	$145.1^{+2.2}_{-1.2}$ $(+0.1\sigma)$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.000	< 0.335 (-0.0σ)	$\Omega_m h^2$	0.14266	$0.1472^{+0.0031}_{-0.0048}$ (-0.1σ)	k_D	0.14065	$0.1423^{+0.0010}_{-0.0017}$ (-0.1σ)
$\boldsymbol{N_{eff}}$	3.085	< 3.36 (-0.0σ)	$\Omega_\nu h^2$	0.00065	$0.00368^{+0.00055}_{-0.0037}$ (-0.0σ)	$100\theta_D$	0.161053	$0.16132^{+0.00039}_{-0.00059}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0915	$3.110^{+0.040}_{-0.047}$ (-0.0σ)	$\Omega_m h^3$	0.09671	$0.1002^{+0.0017}_{-0.0046}$ (-0.0σ)	z_{eq}	3376	3320^{+74}_{-56} (-0.0σ)
$\boldsymbol{n_s}$	0.9689	$0.9748^{+0.0085}_{-0.014}$ $(+0.2\sigma)$	σ_8	0.8302	$0.801^{+0.042}_{-0.029}$ $(+0.0\sigma)$	$100\theta_{eq}$	0.8177	$0.830^{+0.011}_{-0.016}$ $(+0.0\sigma)$
$\boldsymbol{y_{cal}}$	1.00006	1.0004 ± 0.0025 $(+0.0\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.4626	$0.451^{+0.018}_{-0.016}$ (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07164	0.0712 ± 0.0011 $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	252.3	251 ± 23 (-0.5σ)	$\sigma_8\Omega_m^{0.25}$	0.6197	$0.601^{+0.027}_{-0.019}$ (-0.0σ)	$H(0.57)$	93.23	$94.16^{+0.62}_{-1.7}$ $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{143}}$	36.2	42 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0083	$0.970^{+0.045}_{-0.028}$ (-0.0σ)	$D_A(0.57)$	1384.1	1375^{+34}_{-16} (-0.0σ)
$\boldsymbol{A^{PS}_{217}}$	94.7	97 ± 10 $(+0.0\sigma)$	$\langle d^2\rangle^{1/2}$	2.4871	2.489 ± 0.049 (-0.2σ)	$F_{AP}(0.57)$	0.67576	0.6776 ± 0.0051 (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	47.5	47 ± 7 (-2.6σ)	z_{re}	10.19	10.7 ± 1.9 $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.4824	$0.468^{+0.022}_{-0.015}$ (-0.0σ)
$\boldsymbol{A^{tSZ}_{143}}$	2.65	$2.98^{+1.0}_{-2.7}$ (-0.9σ)	$10^9 A_s$	2.201	$2.245^{+0.087}_{-0.11}$ (-0.0σ)	$\sigma_8(0.57)$	0.6178	$0.595^{+0.034}_{-0.025}$ $(+0.0\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.399	$0.514^{+0.098}_{-0.11}$	$10^9 A_s e^{-2\tau}$	1.8745	$1.888^{+0.016}_{-0.019}$ (-0.3σ)	Y_P^{BBN}	0.24678	$0.2496^{+0.0012}_{-0.0033}$ (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.010	< 0.579 (-0.2σ)	D_{40}	1226.4	1220 ± 19 (-0.4σ)	f^{143}_{2000}	29.92	30.6 ± 3.2 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	6.00	> 4.48 $(+0.6\sigma)$	D_{220}	5692.8	5700 ± 41 (-0.4σ)	f^{217}_{2000}	107.10	107.7 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.985	0.99 ± 0.19	D_{810}	2527.6	2533 ± 14 (-0.2σ)	$f^{143\times217}_{2000}$	32.22	33.2 ± 2.4 (-0.3σ)
$\boldsymbol{A^{dust}_{143}}$	1.036	1.02 ± 0.18	D_{1420}	812.6	813.1 ± 5.1 $(+0.1\sigma)$	χ^2_{lowTEB}	10495.84	10496.5 ± 2.7 (-0.2σ)
$\boldsymbol{A^{dust}_{217}}$	1.227	1.21 ± 0.12	$n_{s,0.002}$	0.9689	$0.9748^{+0.0085}_{-0.014}$ $(+0.2\sigma)$	$\chi^2_{CamSpec}$	8044.7	8062.3 ± 6.4
$\boldsymbol{A^{dust}_{143\times217}}$	0.965	0.99 ± 0.18	Y_P	0.24545	$0.2482^{+0.0012}_{-0.0033}$ (-0.2σ)	χ^2_{prior}	3.83	8.40 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99659	0.99676 ± 0.00097 (-1.4σ)	Age/Gyr	13.768	$13.62^{+0.23}_{-0.083}$ $(+0.0\sigma)$	χ^2_{CMB}	18540.6	18558.8 ± 6.2 $(+1210.4\sigma)$
$\boldsymbol{c_{217}}$	0.99762	0.9974 ± 0.0018 $(+0.9\sigma)$	z_*	1090.06	$1090.35^{+0.47}_{-0.54}$ (-0.2σ)			

Best-fit $\chi^2_{eff} = 18544.40$; $\Delta\chi^2_{eff} = 7282.42$; $\bar{\chi}^2_{eff} = 18567.20$; $\Delta\bar{\chi}^2_{eff} = 7282.41$; $R - 1 = 0.03400$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.84 (Δ -0.36) CamSpec like_v9.10CMH_unified: 8044.73

12.4 base_nnu_meffsterile_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02249^{+0.00026}_{-0.00029}$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	$142.4^{+2.2}_{-1.3}$
$\boldsymbol{\Omega_c h^2}$	$0.1212^{+0.0045}_{-0.0037}$	H_0	$68.5^{+1.3}_{-2.1}$	$100\theta_*$	$1.04072^{+0.00064}_{-0.00056}$
$\boldsymbol{100\theta_{MC}}$	1.04067 ± 0.00053	Ω_Λ	0.687 ± 0.018	z_{drag}	$1060.63^{+0.69}_{-0.96}$
$\boldsymbol{\tau}$	0.089 ± 0.021	Ω_m	0.313 ± 0.018	r_{drag}	$145.0^{+2.3}_{-1.3}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	< 0.282	$\Omega_m h^2$	$0.1469^{+0.0032}_{-0.0046}$	k_D	$0.1423^{+0.0011}_{-0.0017}$
$\boldsymbol{N_{eff}}$	< 3.39	$\Omega_\nu h^2$	$0.00326^{+0.00046}_{-0.0032}$	$100\theta_D$	$0.16136^{+0.00043}_{-0.00060}$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.115^{+0.041}_{-0.046}$	$\Omega_m h^3$	$0.1007^{+0.0021}_{-0.0049}$	z_{eq}	3314^{+70}_{-52}
$\boldsymbol{n_s}$	$0.9773^{+0.0094}_{-0.013}$	σ_8	$0.806^{+0.040}_{-0.027}$	$100\theta_{eq}$	$0.831^{+0.010}_{-0.015}$
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$\sigma_8\Omega_m^{0.5}$	$0.451^{+0.017}_{-0.015}$	$r_{drag}/D_V(0.57)$	0.07147 ± 0.00098
$\boldsymbol{A^{PS}_{100}}$	251 ± 23	$\sigma_8\Omega_m^{0.25}$	$0.603^{+0.026}_{-0.018}$	$H(0.57)$	$94.43^{+0.81}_{-1.8}$
$\boldsymbol{A^{PS}_{143}}$	42 ± 8	$\sigma_8/h^{0.5}$	$0.974^{+0.042}_{-0.026}$	$D_A(0.57)$	1368^{+33}_{-19}
$\boldsymbol{A^{PS}_{217}}$	97 ± 10	$\langle d^2\rangle^{1/2}$	2.482 ± 0.048	$F_{AP}(0.57)$	0.6764 ± 0.0045
$\boldsymbol{A^{CIB}_{217}}$	47 ± 7	z_{re}	10.9 ± 1.8	$f\sigma_8(0.57)$	$0.470^{+0.021}_{-0.014}$
$\boldsymbol{A^{tSZ}_{143}}$	$2.99^{+1.2}_{-2.6}$	$10^9 A_s$	$2.256^{+0.087}_{-0.11}$	$\sigma_8(0.57)$	$0.600^{+0.032}_{-0.023}$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.10}_{-0.11}$	$10^9 A_s e^{-2\tau}$	$1.887^{+0.017}_{-0.019}$	Y_P^{BBN}	$0.2498^{+0.0014}_{-0.0034}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.579	D_{40}	1216 ± 18	f^{143}_{2000}	30.5 ± 3.2
$\boldsymbol{A^{kSZ}}$	> 4.48	D_{220}	5702 ± 41	f^{217}_{2000}	107.7 ± 2.2
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{810}	2534 ± 14	$f^{143\times217}_{2000}$	33.1 ± 2.4
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	D_{1420}	813.4 ± 5.1	χ^2_{lowTEB}	10496.4 ± 2.8
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.11	$n_{s,0.002}$	$0.9773^{+0.0094}_{-0.013}$	$\chi^2_{CamSpec}$	8062.3 ± 6.4
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	Y_P	$0.2485^{+0.0014}_{-0.0034}$	χ^2_{H070p6}	0.65 ± 0.60
$\boldsymbol{c_{100}}$	0.99676 ± 0.00097	Age/Gyr	$13.59^{+0.24}_{-0.11}$	χ^2_{prior}	8.41 ± 3.5
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018	z_*	$1090.28^{+0.47}_{-0.53}$	χ^2_{CMB}	18558.7 ± 6.2

$\bar{\chi}^2_{eff} = 18567.78$; $R - 1 = 0.03045$

12.5 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022364	0.02246 ± 0.00017 $(+0.5\sigma)$	$\boldsymbol{c_{EE}}$	1.00066	1.0015 ± 0.0044	r_*	144.68	$143.4^{+1.3}_{-0.67}$ $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11867	$0.1187^{+0.0039}_{-0.0023}$ (-0.5σ)	$\boldsymbol{\beta_1^1}$	-0.19	-0.1 ± 1.0	$100\theta_*$	1.041012	$1.04079^{+0.00040}_{-0.00033}$ $(+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040812	$1.04066^{+0.00037}_{-0.00033}$ $(+0.3\sigma)$	H_0	67.64	$67.43^{+0.73}_{-0.88}$ $(+0.3\sigma)$	z_{drag}	1059.856	$1060.37^{+0.43}_{-0.56}$ $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0784	$0.081^{+0.017}_{-0.019}$ (-0.2σ)	Ω_Λ	0.6895	$0.680^{+0.014}_{-0.011}$ $(+0.4\sigma)$	r_{drag}	147.35	$146.0^{+1.4}_{-0.69}$ $(+0.2\sigma)$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	0.037	< 0.429 $(+0.2\sigma)$	Ω_m	0.3105	$0.320^{+0.011}_{-0.014}$ (-0.4σ)	k_D	0.14061	$0.14173^{+0.00062}_{-0.0011}$ (-0.1σ)
$\boldsymbol{N_{eff}}$	3.047	< 3.21 (-0.2σ)	$\Omega_m h^2$	0.14207	$0.1455^{+0.0021}_{-0.0036}$ (-0.3σ)	$100\theta_D$	0.160763	$0.16091^{+0.00022}_{-0.00030}$ (-0.7σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0873	3.097 ± 0.035 (-0.3σ)	$\Omega_\nu h^2$	0.00103	$0.0043^{+0.0013}_{-0.0038}$ $(+0.2\sigma)$	z_{eq}	3370	3315^{+76}_{-39} (-0.5σ)
$\boldsymbol{n_s}$	0.9678	$0.9692^{+0.0053}_{-0.0066}$ $(+0.4\sigma)$	$\Omega_m h^3$	0.09610	$0.09810^{+0.00087}_{-0.0022}$ (-0.2σ)	$100\theta_{eq}$	0.8192	$0.8319^{+0.0079}_{-0.017}$ $(+0.5\sigma)$
$\boldsymbol{y_{cal}}$	1.00042	1.0003 ± 0.0025 (-0.0σ)	σ_8	0.8256	$0.788^{+0.037}_{-0.026}$ (-0.3σ)	$r_{drag}/D_V(0.57)$	0.07161	$0.07108^{+0.00076}_{-0.00060}$ $(+0.3\sigma)$
$\boldsymbol{A^{PS}_{100}}$	246.3	247 ± 22 (-0.6σ)	$\sigma_8\Omega_m^{0.5}$	0.4601	$0.446^{+0.017}_{-0.013}$ (-0.6σ)	$H(0.57)$	93.033	$93.41^{+0.29}_{-0.61}$ $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{143}}$	34.4	40 ± 8 (-0.7σ)	$\sigma_8\Omega_m^{0.25}$	0.6163	$0.592^{+0.025}_{-0.018}$ (-0.5σ)	$D_A(0.57)$	1387.0	$1386^{+13}_{-8.7}$ (-0.2σ)
$\boldsymbol{A^{PS}_{217}}$	97.4	98 ± 10 $(+0.0\sigma)$	$\sigma_8/h^{0.5}$	1.0039	$0.959^{+0.042}_{-0.029}$ (-0.4σ)	$F_{AP}(0.57)$	0.67578	$0.6782^{+0.0027}_{-0.0036}$ (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	46.7	46 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.4841	2.490 ± 0.040 (-0.7σ)	$f\sigma_8(0.57)$	0.4798	$0.461^{+0.020}_{-0.014}$ (-0.4σ)
$\boldsymbol{A^{tSZ}_{143}}$	3.62	$3.20^{+1.3}_{-2.6}$ (-1.0σ)	z_{re}	9.97	10.2 ± 1.6 (-0.2σ)	$\sigma_8(0.57)$	0.6145	$0.584^{+0.029}_{-0.021}$ (-0.3σ)
$\boldsymbol{r^{PS}_{143\times217}}$	0.420	$0.52^{+0.10}_{-0.12}$	$10^9 A_s$	2.192	$2.214^{+0.073}_{-0.087}$ (-0.3σ)	Y_P^{BBN}	0.24631	$0.24809^{+0.00063}_{-0.0017}$ (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.594 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.8737	1.881 ± 0.013 (-0.7σ)	f^{143}_{2000}	28.50	29.6 ± 2.9 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	4.47	$5.43^{+4.0}_{-2.0}$ $(+0.7\sigma)$	D_{40}	1229.2	1227 ± 14 (-0.8σ)	f^{217}_{2000}	106.11	106.9 ± 2.0 $(+0.0\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.9996	0.99 ± 0.19	D_{220}	5712.0	5710 ± 39 (-0.4σ)	$f^{143\times217}_{2000}$	31.09	32.3 ± 2.2 (-0.5σ)
$\boldsymbol{A^{dust}_{143}}$	1.023	1.02 ± 0.18	D_{810}	2530.5	2531 ± 14 (-0.4σ)	χ^2_{lowTEB}	10495.86	10496.6 ± 2.2 (-0.5σ)
$\boldsymbol{A^{dust}_{217}}$	1.223	1.21 ± 0.12	D_{1420}	814.62	813.7 ± 4.9 $(+0.1\sigma)$	$\chi^2_{CamSpec}$	12935.8	12954.7 ± 6.4
$\boldsymbol{A^{dust}_{143\times217}}$	0.966	0.98 ± 0.18	$n_{s,0.002}$	0.9678	$0.9692^{+0.0053}_{-0.0066}$ $(+0.4\sigma)$	χ^2_{prior}	3.59	9.01 ± 3.6 (-1.9σ)
$\boldsymbol{c_{100}}$	0.99674	0.99676 ± 0.00096 (-1.8σ)	Y_P	0.24498	$0.24676^{+0.00063}_{-0.0017}$ (-0.4σ)	χ^2_{CMB}	23431.6	23451.3 ± 6.4 $(+1513.4\sigma)$
$\boldsymbol{c_{217}}$	0.99719	0.9972 ± 0.0018 $(+0.8\sigma)$	Age/Gyr	13.797	$13.725^{+0.090}_{-0.038}$ $(+0.1\sigma)$			
$\boldsymbol{c_{TE}}$	1.00382	1.0046 ± 0.0045	z_*	1089.828	$1090.08^{+0.33}_{-0.39}$ (-0.7σ)			

Best-fit $\chi^2_{\rm eff} = 23435.21$; $\Delta\chi^2_{\rm eff} = 10499.57$; $\bar{\chi}^2_{\rm eff} = 23460.36$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.91$; $R - 1 = 0.01557$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.86 (Δ -1.42) CamSpec like_v9.10CMH_unified: 12935.76

12.6 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02248 ± 0.00017	$\boldsymbol{c_{EE}}$	1.0016 ± 0.0044	r_*	$143.4^{+1.3}_{-0.66}$
$\boldsymbol{\Omega_c h^2}$	$0.1186^{+0.0039}_{-0.0023}$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04081^{+0.00041}_{-0.00033}$
$\boldsymbol{100\theta_{MC}}$	$1.04068^{+0.00038}_{-0.00032}$	H_0	$67.61^{+0.71}_{-0.91}$	$z_{\rm drag}$	$1060.39^{+0.42}_{-0.56}$
$\boldsymbol{\tau}$	0.083 ± 0.018	Ω_Λ	$0.682^{+0.014}_{-0.010}$	$r_{\rm drag}$	$146.1^{+1.4}_{-0.68}$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	< 0.401	$\Omega_{\rm m}$	$0.318^{+0.010}_{-0.014}$	$k_{\rm D}$	$0.14167^{+0.00061}_{-0.0011}$
$\boldsymbol{N_{\rm eff}}$	< 3.21	$\Omega_{\rm m}h^2$	$0.1452^{+0.0020}_{-0.0035}$	$100\theta_{\rm D}$	$0.16090^{+0.00022}_{-0.00031}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.099 ± 0.036	$\Omega_\nu h^2$	$0.0041^{+0.0011}_{-0.0038}$	$z_{\rm eq}$	3312^{+76}_{-37}
$\boldsymbol{n_s}$	$0.9702^{+0.0053}_{-0.0069}$	$\Omega_{\rm m}h^3$	$0.09814^{+0.00087}_{-0.0022}$	$100\theta_{\rm eq}$	$0.8323^{+0.0075}_{-0.017}$
$\boldsymbol{y_{\rm cal}}$	1.0004 ± 0.0025	σ_8	$0.791^{+0.036}_{-0.026}$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07121^{+0.00072}_{-0.00059}$
$\boldsymbol{A^{\rm PS}_{100}}$	247 ± 22	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.446^{+0.017}_{-0.013}$	$H(0.57)$	$93.49^{+0.29}_{-0.67}$
$\boldsymbol{A^{\rm PS}_{143}}$	40 ± 8	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.594^{+0.025}_{-0.017}$	$D_{\rm A}(0.57)$	$1384^{+13}_{-8.6}$
$\boldsymbol{A^{\rm PS}_{217}}$	98 ± 10	$\sigma_8/h^{0.5}$	$0.962^{+0.042}_{-0.028}$	$F_{\rm AP}(0.57)$	$0.6776^{+0.0027}_{-0.0034}$
$\boldsymbol{A^{\rm CIB}_{217}}$	46 ± 7	$\langle d^2\rangle^{1/2}$	2.488 ± 0.040	$f\sigma_8(0.57)$	$0.462^{+0.020}_{-0.014}$
$\boldsymbol{A^{\rm tSZ}_{143}}$	$3.24^{+1.4}_{-2.6}$	$z_{\rm re}$	10.3 ± 1.6	$\sigma_8(0.57)$	$0.587^{+0.028}_{-0.021}$
$\boldsymbol{r^{\rm PS}_{143\times217}}$	$0.52^{+0.10}_{-0.12}$	$10^9A_{\rm s}$	$2.219^{+0.074}_{-0.087}$	$Y_{\rm P}^{\rm BBN}$	$0.24809^{+0.00063}_{-0.0017}$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	< 0.596	$10^9A_{\rm s}e^{-2\tau}$	1.880 ± 0.013	f^{143}_{2000}	29.4 ± 2.9
$\boldsymbol{A^{\rm kSZ}}$	$5.39^{+3.9}_{-2.1}$	D_{40}	1226 ± 14	f^{217}_{2000}	106.8 ± 2.0
$\boldsymbol{A^{\rm dust}_{100}}$	0.99 ± 0.19	D_{220}	5712 ± 39	$f^{143\times217}_{2000}$	32.2 ± 2.1
$\boldsymbol{A^{\rm dust}_{143}}$	1.02 ± 0.18	D_{810}	2531 ± 14	$\chi^2_{\rm lowTEB}$	10496.6 ± 2.3
$\boldsymbol{A^{\rm dust}_{217}}$	1.21 ± 0.12	D_{1420}	813.9 ± 4.8	$\chi^2_{\rm CamSpec}$	12954.7 ± 6.4
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9702^{+0.0053}_{-0.0069}$	$\chi^2_{\rm H070p6}$	0.86 ± 0.43
$\boldsymbol{c_{100}}$	0.99676 ± 0.00096	$Y_{\rm P}$	$0.24676^{+0.00063}_{-0.0017}$	$\chi^2_{\rm prior}$	8.97 ± 3.6
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018	Age/Gyr	$13.718^{+0.095}_{-0.038}$	$\chi^2_{\rm CMB}$	23451.3 ± 6.4
$\boldsymbol{c_{TE}}$	1.0045 ± 0.0045	z_*	$1090.03^{+0.32}_{-0.38}$		

$\bar{\chi}^2_{\rm eff} = 23461.11$; $R - 1 = 0.01607$

12.7 base_nnu_meffsterile_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022305	$0.02246^{+0.00027}_{-0.00030}$	Ω_m	0.3067	0.314 ± 0.019	D_A/Gpc	13.894	$13.67^{+0.20}_{-0.12}$
$\boldsymbol{\Omega_c h^2}$	0.11873	0.1216 ± 0.0036	$\Omega_m h^2$	0.14181	$0.1472^{+0.0033}_{-0.0046}$	z_{drag}	1059.70	$1060.61^{+0.71}_{-0.95}$
$\boldsymbol{100\theta_{MC}}$	1.04103	1.04066 ± 0.00051	$\Omega_\nu h^2$	0.00078	$0.00312^{+0.00089}_{-0.0026}$	r_{drag}	147.36	$144.9^{+2.3}_{-1.3}$
$\boldsymbol{\tau}$	0.0690	$0.078^{+0.019}_{-0.021}$	$\Omega_m h^3$	0.09643	$0.1009^{+0.0021}_{-0.0049}$	k_D	0.14044	$0.1423^{+0.0011}_{-0.0017}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.013	< 0.282	σ_8	0.8149	$0.795^{+0.032}_{-0.024}$	$100\theta_D$	0.16100	$0.16149^{+0.00041}_{-0.00059}$
$\boldsymbol{N_{eff}}$	3.073	< 3.41	$\sigma_8\Omega_m^{0.5}$	0.4513	$0.445^{+0.012}_{-0.0099}$	z_{eq}	3358	3315^{+59}_{-52}
$\boldsymbol{\ln(10^{10}A_s)}$	3.0687	$3.095^{+0.037}_{-0.043}$	$\sigma_8\Omega_m^{0.25}$	0.6064	$0.595^{+0.019}_{-0.012}$	k_{eq}	0.010268	0.01033 ± 0.00017
$\boldsymbol{n_s}$	0.9695	$0.9763^{+0.0092}_{-0.013}$	$\sigma_8/h^{0.5}$	0.9882	$0.960^{+0.033}_{-0.019}$	$100\theta_{eq}$	0.8212	$0.831^{+0.010}_{-0.012}$
$\boldsymbol{y_{cal}}$	0.999999	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4486	2.456 ± 0.030	$100\theta_{s,eq}$	0.4536	$0.4585^{+0.0052}_{-0.0063}$
$\boldsymbol{A^{CIB}_{217}}$	67.8	65.9 ± 6.7	z_{re}	9.12	9.96 ± 1.8	$r_{drag}/D_V(0.57)$	0.07185	0.0715 ± 0.0010
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.151	$2.211^{+0.079}_{-0.098}$	$H(0.57)$	93.25	$94.49^{+0.77}_{-1.8}$
$\boldsymbol{A^{tSZ}_{143}}$	7.17	4.67 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8740	$1.890^{+0.016}_{-0.019}$	$D_A(0.57)$	1381.9	1368^{+33}_{-18}
$\boldsymbol{A^{PS}_{100}}$	253.8	266 ± 28	D_{40}	1222.6	1215 ± 17	$F_{AP}(0.57)$	0.67482	0.6765 ± 0.0048
$\boldsymbol{A^{PS}_{143}}$	39.5	48 ± 8	D_{220}	5714.3	5718 ± 41	$f\sigma_8(0.57)$	0.4727	$0.463^{+0.016}_{-0.010}$
$\boldsymbol{A^{PS}_{143\times217}}$	32.7	40^{+9}_{-10}	D_{810}	2532.5	2536 ± 14	$\sigma_8(0.57)$	0.6074	$0.591^{+0.026}_{-0.022}$
$\boldsymbol{A^{PS}_{217}}$	96.6	96 ± 10	D_{1420}	814.6	813.1 ± 5.1	f^{143}_{2000}	30.13	32.7 ± 3.2
$\boldsymbol{A^{kSZ}}$	0.01	< 5.83	D_{2000}	230.13	228.4 ± 2.0	$f^{143\times217}_{2000}$	32.66	34.6 ± 2.3
$\boldsymbol{A^{dustTT}_{100}}$	7.51	7.56 ± 1.9	$n_{s,0.002}$	0.9695	$0.9763^{+0.0092}_{-0.013}$	f^{217}_{2000}	106.13	107.9 ± 2.2
$\boldsymbol{A^{dustTT}_{143}}$	9.13	9.13 ± 1.8	Y_P	0.24573	$0.2492^{+0.0016}_{-0.0035}$	$\chi^2_{lensing}$	9.17	9.87 ± 1.5
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.74	17.4 ± 4.2	Y_P^{BBN}	0.24706	$0.2506^{+0.0016}_{-0.0035}$	χ^2_{lowTEB}	10494.78	10495.3 ± 1.6
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.7 ± 7.4	10^5D/H	2.613	$2.674^{+0.056}_{-0.066}$	χ^2_{plik}	766.3	781.9 ± 5.9
$\boldsymbol{c_{100}}$	0.99791	0.99787 ± 0.00077	Age/Gyr	13.773	$13.58^{+0.23}_{-0.10}$	χ^2_{prior}	2.09	7.52 ± 3.6
$\boldsymbol{c_{217}}$	0.99600	0.9962 ± 0.0015	z_*	1089.92	$1090.38^{+0.48}_{-0.54}$	χ^2_{CMB}	11270.2	11287.1 ± 5.9
H_0	68.00	$68.6^{+1.3}_{-2.1}$	r_*	144.67	$142.3^{+2.2}_{-1.3}$			
Ω_Λ	0.6933	0.686 ± 0.019	$100\theta_*$	1.04121	$1.04069^{+0.00061}_{-0.00055}$			

Best-fit $\chi^2_{\rm eff} = 11272.33$; $\bar{\chi}^2_{\rm eff} = 11294.59$; $R - 1 = 0.00725$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.17 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.78 plik_dx11dr2_HM_v18_TT: 766.28

12.8 base_nnu_meffsterile_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022271	0.02236 ± 0.00018	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.303 ± 0.084	Age/Gyr	13.805	$13.71^{+0.10}_{-0.047}$
$\boldsymbol{\Omega_c h^2}$	0.11920	$0.1204^{+0.0028}_{-0.0025}$	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	z_*	1089.979	$1090.32^{+0.35}_{-0.40}$
$\boldsymbol{100\theta_{MC}}$	1.040857	1.04063 ± 0.00037	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335	0.337 ± 0.080	r_*	144.70	$143.1^{+1.4}_{-0.80}$
$\boldsymbol{\tau}$	0.0632	0.069 ± 0.015	$\boldsymbol{A^{dustTE}_{217}}$	1.663	1.67 ± 0.26	$100\theta_*$	1.041055	$1.04075^{+0.00043}_{-0.00037}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.002	< 0.332	$\boldsymbol{c_{100}}$	0.99818	0.99812 ± 0.00078	D_A/Gpc	13.900	$13.75^{+0.13}_{-0.075}$
$\boldsymbol{N_{eff}}$	3.048	< 3.24	$\boldsymbol{c_{217}}$	0.99611	0.9962 ± 0.0014	z_{drag}	1059.67	$1060.24^{+0.44}_{-0.60}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0587	3.075 ± 0.029	H_0	67.54	$67.33^{+0.80}_{-0.99}$	r_{drag}	147.40	$145.8^{+1.5}_{-0.82}$
$\boldsymbol{n_s}$	0.9658	$0.9677^{+0.0058}_{-0.0072}$	Ω_Λ	0.6884	$0.677^{+0.015}_{-0.012}$	k_D	0.14046	$0.14178^{+0.00069}_{-0.0012}$
$\boldsymbol{y_{cal}}$	1.00003	1.0002 ± 0.0025	Ω_m	0.3116	$0.323^{+0.012}_{-0.015}$	$100\theta_D$	0.160915	$0.16114^{+0.00022}_{-0.00031}$
$\boldsymbol{A^{CIB}_{217}}$	67.9	65.7 ± 6.6	$\Omega_m h^2$	0.14213	$0.1463^{+0.0024}_{-0.0037}$	z_{eq}	3379.9	3341^{+49}_{-37}
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_\nu h^2$	0.00067	$0.0035^{+0.0011}_{-0.0027}$	k_{eq}	0.010317	$0.01033^{+0.00015}_{-0.00012}$
$\boldsymbol{A^{tSZ}_{143}}$	7.31	5.03 ± 2.0	$\Omega_m h^3$	0.09600	$0.0985^{+0.0011}_{-0.0025}$	$100\theta_{eq}$	0.8170	$0.8260^{+0.0073}_{-0.011}$
$\boldsymbol{A^{PS}_{100}}$	258.1	266 ± 28	σ_8	0.8145	$0.785^{+0.030}_{-0.021}$	$100\theta_{s,eq}$	0.45138	$0.4561^{+0.0037}_{-0.0055}$
$\boldsymbol{A^{PS}_{143}}$	38.7	46 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4546	$0.446^{+0.012}_{-0.0092}$	$r_{drag}/D_V(0.57)$	0.07157	$0.07095^{+0.00076}_{-0.00066}$
$\boldsymbol{A^{PS}_{143\times217}}$	32.6	40^{+10}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6085	$0.591^{+0.019}_{-0.013}$	$H(0.57)$	92.97	$93.45^{+0.35}_{-0.73}$
$\boldsymbol{A^{PS}_{217}}$	96.3	96 ± 10	$\sigma_8/h^{0.5}$	0.9911	$0.956^{+0.034}_{-0.021}$	$D_A(0.57)$	1388.6	1387^{+14}_{-10}
$\boldsymbol{A^{kSZ}}$	0.01	< 5.25	$\langle d^2\rangle^{1/2}$	2.4541	2.468 ± 0.027	$F_{AP}(0.57)$	0.67605	$0.6789^{+0.0030}_{-0.0036}$
$\boldsymbol{A^{dustTT}_{100}}$	7.54	7.57 ± 1.9	z_{re}	8.57	$9.13^{+1.5}_{-1.4}$	$f\sigma_8(0.57)$	0.4736	$0.459^{+0.015}_{-0.010}$
$\boldsymbol{A^{dustTT}_{143}}$	9.10	9.07 ± 1.8	$10^9 A_s$	2.130	$2.167^{+0.061}_{-0.069}$	$\sigma_8(0.57)$	0.6059	$0.581^{+0.025}_{-0.017}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.71	17.3 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8771	1.887 ± 0.013	f^{143}_{2000}	29.89	31.7 ± 2.8
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.6 ± 7.4	D_{40}	1229.6	1227 ± 13	$f^{143\times217}_{2000}$	32.59	34.0 ± 2.1
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0814 ± 0.0057	D_{220}	5721.9	5721 ± 39	f^{217}_{2000}	106.07	107.3 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04899	0.0490 ± 0.0050	D_{810}	2534.0	2535 ± 13	$\chi^2_{lensing}$	9.73	10.5 ± 1.8
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0991	0.099 ± 0.033	D_{1420}	814.58	813.3 ± 4.8	χ^2_{lowTEB}	10495.29	10495.7 ± 1.3
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1003 ± 0.0069	D_{2000}	230.09	228.8 ± 1.7	χ^2_{plik}	2434.9	2455.8 ± 7.0
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2242	0.223 ± 0.047	$n_{s,0.002}$	0.9658	$0.9677^{+0.0058}_{-0.0072}$	χ^2_{prior}	7.09	19.7 ± 5.6
$\boldsymbol{A^{dustEE}_{217}}$	0.655	0.65 ± 0.13	Y_P	0.24537	$0.24750^{+0.00087}_{-0.0020}$	χ^2_{CMB}	12940.0	12961.9 ± 7.0
$\boldsymbol{A^{dustTE}_{100}}$	0.1413	0.141 ± 0.038	Y_P^{BBN}	0.24670	$0.24883^{+0.00088}_{-0.0020}$			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1321	0.132 ± 0.029	10^5D/H	2.6105	$2.647^{+0.036}_{-0.043}$			

Best-fit $\chi^2_{eff} = 12947.05$; $\bar{\chi}^2_{eff} = 12981.60$; $R-1 = 0.01727$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.73 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.29 plik_dx11dr2_HM_v18_TTTEEE: 2434.94

12.9 base_nnu_meffsterile_CamSpecHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022267	$0.02246^{+0.00025}_{-0.00031}$ (-0.0σ)	$\boldsymbol{\beta_1^1}$	-0.22	-0.05 ± 0.99	r_*	144.33	$142.5^{+2.1}_{-1.2}$ $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11940	$0.1209^{+0.0039}_{-0.0034}$ (-0.2σ)	H_0	67.98	$68.5^{+1.1}_{-2.1}$ (-0.0σ)	$100\theta_*$	1.04112	1.04079 ± 0.00057 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04094	1.04073 ± 0.00052 $(+0.1\sigma)$	Ω_Λ	0.6914	0.687 ± 0.018 $(+0.0\sigma)$	z_{drag}	1059.70	$1060.52^{+0.65}_{-0.96}$ (-0.1σ)
$\boldsymbol{\tau}$	0.0696	$0.080^{+0.017}_{-0.021}$ $(+0.1\sigma)$	Ω_m	0.3086	0.313 ± 0.018 (-0.0σ)	r_{drag}	147.03	$145.1^{+2.2}_{-1.2}$ $(+0.1\sigma)$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	0.029	< 0.293 $(+0.1\sigma)$	$\Omega_m h^2$	0.14262	$0.1466^{+0.0032}_{-0.0046}$ (-0.1σ)	k_D	0.14064	$0.1422^{+0.0010}_{-0.0017}$ (-0.1σ)
$\boldsymbol{N_{eff}}$	3.109	< 3.37 (-0.1σ)	$\Omega_\nu h^2$	0.00095	$0.00324^{+0.00090}_{-0.0027}$ $(+0.1\sigma)$	$100\theta_D$	0.161132	$0.16141^{+0.00037}_{-0.00058}$ (-0.2σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0691	$3.096^{+0.034}_{-0.044}$ $(+0.0\sigma)$	$\Omega_m h^3$	0.09696	$0.1005^{+0.0017}_{-0.0047}$ (-0.1σ)	z_{eq}	3357	3310^{+64}_{-49} (-0.1σ)
$\boldsymbol{n_s}$	0.9707	$0.9775^{+0.0084}_{-0.013}$ $(+0.1\sigma)$	σ_8	0.8132	$0.795^{+0.032}_{-0.025}$ $(+0.0\sigma)$	$100\theta_{eq}$	0.8213	$0.8320^{+0.0096}_{-0.013}$ $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	0.99999	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_m^{0.5}$	0.4518	$0.444^{+0.013}_{-0.0095}$ (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07175	0.0715 ± 0.0010 $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{100}}$	253.7	252 ± 23 (-0.5σ)	$\sigma_8\Omega_m^{0.25}$	0.6061	$0.594^{+0.019}_{-0.012}$ (-0.0σ)	$H(0.57)$	93.36	$94.37^{+0.64}_{-1.7}$ (-0.1σ)
$\boldsymbol{A^{PS}_{143}}$	36.7	42 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9863	$0.960^{+0.033}_{-0.019}$ $(+0.0\sigma)$	$D_A(0.57)$	1381.2	1369^{+32}_{-15} $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{217}}$	94.2	96 ± 10 (-0.0σ)	$\langle d^2\rangle^{1/2}$	2.4466	2.454 ± 0.030 (-0.1σ)	$F_{AP}(0.57)$	0.67530	0.6763 ± 0.0047 (-0.0σ)
$\boldsymbol{A^{CIB}_{217}}$	48.0	48 ± 7 (-2.7σ)	z_{re}	9.21	10.1 ± 1.7 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4723	$0.463^{+0.016}_{-0.010}$ (-0.0σ)
$\boldsymbol{A^{tSZ}_{143}}$	2.83	< 3.61 (-0.9σ)	$10^9 A_s$	2.152	$2.212^{+0.071}_{-0.099}$ $(+0.0\sigma)$	$\sigma_8(0.57)$	0.6057	$0.592^{+0.026}_{-0.022}$ $(+0.0\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.403	$0.509^{+0.095}_{-0.12}$	$10^9 A_s e^{-2\tau}$	1.8727	$1.884^{+0.015}_{-0.018}$ (-0.4σ)	Y_P^{BBN}	0.24710	$0.2498^{+0.0012}_{-0.0033}$ (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.574 (-0.1σ)	D_{40}	1217.2	1210 ± 16 (-0.3σ)	f^{143}_{2000}	30.42	31.1 ± 3.1 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	6.05	> 4.85 $(+0.6\sigma)$	D_{220}	5693.9	5696 ± 40 (-0.5σ)	f^{217}_{2000}	107.44	108.0 ± 2.2 $(+0.0\sigma)$
$\boldsymbol{A^{dust}_{100}}$	1.006	0.997 ± 0.19	D_{810}	2527.8	2532 ± 14 (-0.3σ)	$f^{143\times217}_{2000}$	32.68	33.6 ± 2.4 (-0.4σ)
$\boldsymbol{A^{dust}_{143}}$	1.026	1.03 ± 0.18	D_{1420}	812.8	813.1 ± 5.2 (-0.0σ)	$\chi^2_{lensing}$	8.90	9.76 ± 1.3 (-0.1σ)
$\boldsymbol{A^{dust}_{217}}$	1.226	1.20 ± 0.12	$n_{s,0.002}$	0.9707	$0.9775^{+0.0084}_{-0.013}$ $(+0.1\sigma)$	χ^2_{lowTEB}	10494.41	10495.0 ± 1.6 (-0.2σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.976	0.99 ± 0.18	Y_P	0.24577	$0.2484^{+0.0012}_{-0.0033}$ (-0.3σ)	$\chi^2_{CamSpec}$	8047.1	8063.4 ± 6.1
$\boldsymbol{c_{100}}$	0.99671	0.99675 ± 0.00097 (-1.5σ)	Age/Gyr	13.752	$13.60^{+0.22}_{-0.085}$ $(+0.1\sigma)$	χ^2_{prior}	3.68	8.38 ± 3.4 $(+0.2\sigma)$
$\boldsymbol{c_{217}}$	0.99763	0.9975 ± 0.0018 $(+0.9\sigma)$	z_*	1090.054	1090.29 ± 0.50 (-0.2σ)	χ^2_{CMB}	18550.4	18568.2 ± 6.1 $(+1234.6\sigma)$

Best-fit $\chi^2_{eff} = 18554.09$; $\Delta\chi^2_{eff} = 7281.76$; $\bar{\chi}^2_{eff} = 18576.55$; $\Delta\bar{\chi}^2_{eff} = 7281.96$; $R - 1 = 0.03903$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 8.90 (Δ -0.27) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.41 (Δ -0.37) CamSpec like_v9.10CMH_unified: 8047.10

12.10 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022355	0.02244 ± 0.00018 $(+0.5\sigma)$	$\boldsymbol{c_{EE}}$	1.00135	1.0023 ± 0.0043	r_*	144.79	$143.4^{+1.4}_{-0.69}$ $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11865	$0.1191^{+0.0034}_{-0.0024}$ (-0.5σ)	$\boldsymbol{\beta_1^1}$	-0.01	-0.1 ± 1.0	$100\theta_*$	1.041104	$1.04082^{+0.00040}_{-0.00034}$ $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040901	1.04069 ± 0.00035 $(+0.2\sigma)$	H_0	67.81	$67.63^{+0.76}_{-0.97}$ $(+0.3\sigma)$	z_{drag}	1059.78	$1060.31^{+0.43}_{-0.58}$ $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0678	0.070 ± 0.015 $(+0.1\sigma)$	Ω_Λ	0.6920	$0.682^{+0.014}_{-0.011}$ $(+0.4\sigma)$	r_{drag}	147.47	$146.1^{+1.4}_{-0.70}$ $(+0.2\sigma)$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	0.000	< 0.349 $(+0.1\sigma)$	Ω_m	0.3080	$0.318^{+0.011}_{-0.014}$ (-0.4σ)	k_D	0.14048	$0.14163^{+0.00063}_{-0.0011}$ (-0.2σ)
$\boldsymbol{N_{eff}}$	3.046	< 3.21 (-0.2σ)	$\Omega_m h^2$	0.14165	$0.1452^{+0.0022}_{-0.0035}$ (-0.3σ)	$100\theta_D$	0.160803	$0.16097^{+0.00022}_{-0.00032}$ (-0.6σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0629	3.074 ± 0.029 (-0.0σ)	$\Omega_\nu h^2$	0.00065	$0.0037^{+0.0011}_{-0.0031}$ $(+0.1\sigma)$	z_{eq}	3369.5	3321^{+61}_{-35} (-0.4σ)
$\boldsymbol{n_s}$	0.9680	$0.9701^{+0.0056}_{-0.0068}$ $(+0.4\sigma)$	$\Omega_m h^3$	0.09606	$0.09817^{+0.00082}_{-0.0023}$ (-0.1σ)	$100\theta_{eq}$	0.8191	$0.8301^{+0.0070}_{-0.013}$ $(+0.4\sigma)$
$\boldsymbol{y_{cal}}$	0.99945	1.0001 ± 0.0024 (-0.0σ)	σ_8	0.8151	$0.784^{+0.031}_{-0.021}$ (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07176	$0.07122^{+0.00072}_{-0.00065}$ $(+0.4\sigma)$
$\boldsymbol{A^{PS}_{100}}$	248.3	249 ± 22 (-0.6σ)	$\sigma_8\Omega_m^{0.5}$	0.4524	$0.442^{+0.013}_{-0.0091}$ (-0.4σ)	$H(0.57)$	93.09	$93.50^{+0.31}_{-0.70}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{143}}$	34.9	41 ± 8 (-0.7σ)	$\sigma_8\Omega_m^{0.25}$	0.6072	$0.588^{+0.020}_{-0.012}$ (-0.2σ)	$D_A(0.57)$	1384.9	$1384^{+14}_{-9.3}$ (-0.3σ)
$\boldsymbol{A^{PS}_{217}}$	95.2	97 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9898	$0.953^{+0.035}_{-0.020}$ (-0.1σ)	$F_{AP}(0.57)$	0.67515	$0.6776^{+0.0029}_{-0.0034}$ (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	47.5	47 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.4488	2.456 ± 0.027 (-0.4σ)	$f\sigma_8(0.57)$	0.4730	$0.458^{+0.016}_{-0.010}$ (-0.1σ)
$\boldsymbol{A^{tSZ}_{143}}$	3.34	$3.13^{+1.2}_{-2.7}$ (-1.0σ)	z_{re}	8.99	$9.24^{+1.5}_{-1.3}$ $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6072	$0.582^{+0.024}_{-0.017}$ $(+0.0\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.409	$0.51^{+0.10}_{-0.12}$	$10^9 A_s$	2.139	2.164 ± 0.062 (-0.0σ)	Y_P^{BBN}	0.24630	$0.24813^{+0.00059}_{-0.0018}$ (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.577 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.8676	$1.879^{+0.013}_{-0.014}$ (-0.6σ)	f^{143}_{2000}	29.30	30.2 ± 2.8 (-0.5σ)
$\boldsymbol{A^{kSZ}}$	5.25	> 4.42 $(+0.7\sigma)$	D_{40}	1221.6	1219 ± 12 (-0.6σ)	f^{217}_{2000}	106.45	107.2 ± 2.0 (-0.1σ)
$\boldsymbol{A^{dust}_{100}}$	0.984	0.99 ± 0.19	D_{220}	5701.2	5706 ± 38 (-0.4σ)	$f^{143\times217}_{2000}$	31.71	32.7 ± 2.1 (-0.6σ)
$\boldsymbol{A^{dust}_{143}}$	1.039	1.03 ± 0.18	D_{810}	2524.9	2530 ± 13 (-0.4σ)	$\chi^2_{lensing}$	9.23	9.96 ± 1.4 (-0.3σ)
$\boldsymbol{A^{dust}_{217}}$	1.213	1.20 ± 0.12	D_{1420}	812.87	813.4 ± 4.7 $(+0.0\sigma)$	χ^2_{lowTEB}	10494.85	10495.1 ± 1.2 (-0.5σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.969	0.99 ± 0.18	$n_{s,0.002}$	0.9680	$0.9701^{+0.0056}_{-0.0068}$ $(+0.4\sigma)$	$\chi^2_{CamSpec}$	12937.3	12956.0 ± 6.3
$\boldsymbol{c_{100}}$	0.99665	0.99673 ± 0.00097 (-1.8σ)	Y_P	0.24497	$0.24679^{+0.00059}_{-0.0018}$ (-0.5σ)	χ^2_{prior}	3.85	9.05 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99726	0.9972 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.794	$13.716^{+0.099}_{-0.039}$ $(+0.0\sigma)$	χ^2_{CMB}	23441.4	23461.1 ± 6.4 $(+1510.7\sigma)$
$\boldsymbol{c_{TE}}$	1.00482	1.0055 ± 0.0044	z_*	1089.803	$1090.08^{+0.34}_{-0.39}$ (-0.6σ)			

Best-fit $\chi^2_{eff} = 23445.27$; $\Delta\chi^2_{eff} = 10498.21$; $\bar{\chi}^2_{eff} = 23470.18$; $\Delta\bar{\chi}^2_{eff} = 10488.57$; $R - 1 = 0.01430$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.23 (Δ -0.50) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.85 (Δ -0.44) CamSpec like_v9.10CMH_unified: 12937.34

12.11 base_nnu_meffsterile_plikHM_TT_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022318	0.02248 ± 0.00024	$\Omega_m h^2$	0.14228	$0.1461^{+0.0024}_{-0.0044}$	r_{drag}	147.16	$145.2^{+2.4}_{-1.1}$
$\boldsymbol{\Omega_c h^2}$	0.11932	0.1209 ± 0.0041	$\Omega_\nu h^2$	0.00065	$0.00273^{+0.00060}_{-0.0023}$	k_D	0.14063	$0.14207^{+0.00089}_{-0.0017}$
$\boldsymbol{100\theta_{MC}}$	1.04090	$1.04070^{+0.00055}_{-0.00049}$	$\Omega_m h^3$	0.09668	$0.1004^{+0.0019}_{-0.0049}$	$100\theta_D$	0.16098	$0.16136^{+0.00040}_{-0.00064}$
$\boldsymbol{\tau}$	0.0800	0.089 ± 0.020	σ_8	0.8292	$0.812^{+0.031}_{-0.024}$	z_{eq}	3368.8	3316^{+60}_{-37}
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.000	< 0.225	$\sigma_8\Omega_m^{0.5}$	0.4603	$0.452^{+0.016}_{-0.013}$	k_{eq}	0.010306	$0.01031^{+0.00019}_{-0.00014}$
$\boldsymbol{N_{eff}}$	3.081	< 3.36	$\sigma_8\Omega_m^{0.25}$	0.6178	$0.606^{+0.022}_{-0.017}$	$100\theta_{eq}$	0.8192	$0.8305^{+0.0070}_{-0.013}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0929	3.117 ± 0.042	$\sigma_8/h^{0.5}$	1.0059	$0.980^{+0.036}_{-0.026}$	$100\theta_{s,eq}$	0.4525	$0.4583^{+0.0036}_{-0.0067}$
$\boldsymbol{n_s}$	0.9692	$0.9761^{+0.0073}_{-0.011}$	$\langle d^2\rangle^{1/2}$	2.4844	2.485 ± 0.045	$r_{drag}/D_V(0.57)$	0.071761	0.07163 ± 0.00047
$\boldsymbol{y_{cal}}$	1.00040	1.0004 ± 0.0025	z_{re}	10.14	11.0 ± 1.8	$H(0.57)$	93.29	$94.41^{+0.70}_{-1.6}$
$\boldsymbol{A^{CIB}_{217}}$	67.3	65.1 ± 6.7	$10^9 A_s$	2.204	$2.261^{+0.088}_{-0.10}$	$D_A(0.57)$	1382.0	1367^{+26}_{-13}
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$10^9 A_s e^{-2\tau}$	1.8783	$1.889^{+0.015}_{-0.020}$	$F_{AP}(0.57)$	0.67518	0.6756 ± 0.0022
$\boldsymbol{A^{tSZ}_{143}}$	7.11	4.88 ± 2.0	D_{40}	1229.7	1222 ± 17	$f\sigma_8(0.57)$	0.4812	$0.473^{+0.017}_{-0.013}$
$\boldsymbol{A^{PS}_{100}}$	254.3	263 ± 28	D_{220}	5717.8	5722 ± 41	$\sigma_8(0.57)$	0.6177	$0.605^{+0.023}_{-0.019}$
$\boldsymbol{A^{PS}_{143}}$	38.9	46 ± 8	D_{810}	2534.3	2536 ± 14	f^{143}_{2000}	29.70	31.5 ± 3.2
$\boldsymbol{A^{PS}_{143\times217}}$	32.3	39^{+10}_{-10}	D_{1420}	814.9	813.6 ± 5.1	$f^{143\times217}_{2000}$	32.31	33.7 ± 2.3
$\boldsymbol{A^{PS}_{217}}$	96.8	97 ± 10	D_{2000}	230.48	229.2 ± 2.0	f^{217}_{2000}	105.91	107.1 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.00	< 5.32	$n_{s,0.002}$	0.9692	$0.9761^{+0.0073}_{-0.011}$	χ^2_{lowTEB}	10495.95	10496.9 ± 2.9
$\boldsymbol{A^{dustTT}_{100}}$	7.41	7.52 ± 1.9	Y_P	0.24585	$0.2487^{+0.0014}_{-0.0034}$	χ^2_{plik}	764.0	779.5 ± 6.2
$\boldsymbol{A^{dustTT}_{143}}$	9.09	9.08 ± 1.8	Y_P^{BBN}	0.24717	$0.2500^{+0.0014}_{-0.0034}$	χ^2_{6DF}	0.0101	0.073 ± 0.095
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.79	17.2 ± 4.2	10^5D/H	2.613	$2.655^{+0.050}_{-0.071}$	χ^2_{MGS}	1.41	1.34 ± 0.60
$\boldsymbol{A^{dustTT}_{217}}$	82.3	81.7 ± 7.4	Age/Gyr	13.764	$13.60^{+0.22}_{-0.096}$	$\chi^2_{DR11CMASS}$	2.412	3.04 ± 0.86
$\boldsymbol{c_{100}}$	0.99791	0.99788 ± 0.00078	z_*	1089.963	$1090.23^{+0.38}_{-0.48}$	$\chi^2_{DR11LOWZ}$	0.482	0.81 ± 0.69
$\boldsymbol{c_{217}}$	0.99600	0.9960 ± 0.0015	r_*	144.47	$142.6^{+2.3}_{-1.0}$	χ^2_{prior}	2.06	7.45 ± 3.6
H_0	67.95	$68.68^{+0.82}_{-1.5}$	$100\theta_*$	1.04107	$1.04075^{+0.00065}_{-0.00052}$	χ^2_{CMB}	11260.0	11276.4 ± 5.8
Ω_Λ	0.6919	0.6901 ± 0.0085	D_A/Gpc	13.877	$13.71^{+0.21}_{-0.096}$	χ^2_{BAO}	4.31	5.26 ± 1.3
Ω_m	0.3081	0.3099 ± 0.0085	z_{drag}	1059.78	$1060.56^{+0.65}_{-0.91}$			

Best-fit $\chi^2_{eff} = 11266.35$; $\bar{\chi}^2_{eff} = 11289.10$; $R - 1 = 0.01798$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.48 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.95 plik_dx11dr2_HM_v18_TT: 764.03

12.12 base_nnu_meffsterile_plikHM_TT_lowTEB_BAO_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022376	0.02251 ± 0.00024	$\Omega_m h^2$	0.14322	$0.1464^{+0.0026}_{-0.0046}$	r_{drag}	146.61	$145.0^{+2.5}_{-1.2}$
$\boldsymbol{\Omega_c h^2}$	0.12019	0.1213 ± 0.0042	$\Omega_\nu h^2$	0.00065	$0.00264^{+0.00059}_{-0.0022}$	k_D	0.14106	$0.14222^{+0.00098}_{-0.0018}$
$\boldsymbol{100\theta_{MC}}$	1.04092	1.04068 ± 0.00051	$\Omega_m h^3$	0.09779	$0.1009^{+0.0022}_{-0.0051}$	$100\theta_D$	0.16107	$0.16141^{+0.00043}_{-0.00066}$
$\boldsymbol{\tau}$	0.0831	0.091 ± 0.020	σ_8	0.8348	$0.814^{+0.030}_{-0.025}$	z_{eq}	3368.3	3315^{+58}_{-36}
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.000	< 0.215	$\sigma_8\Omega_m^{0.5}$	0.4626	$0.452^{+0.016}_{-0.013}$	k_{eq}	0.010339	$0.01032^{+0.00019}_{-0.00015}$
$\boldsymbol{N_{eff}}$	3.132	< 3.39	$\sigma_8\Omega_m^{0.25}$	0.6215	$0.607^{+0.022}_{-0.017}$	$100\theta_{eq}$	0.8195	$0.8307^{+0.0068}_{-0.012}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.1020	3.120 ± 0.042	$\sigma_8/h^{0.5}$	1.0102	$0.981^{+0.035}_{-0.026}$	$100\theta_{s,eq}$	0.45261	$0.4584^{+0.0035}_{-0.0064}$
$\boldsymbol{n_s}$	0.9710	$0.9774^{+0.0077}_{-0.011}$	$\langle d^2\rangle^{1/2}$	2.4915	2.484 ± 0.045	$r_{drag}/D_V(0.57)$	0.071806	0.07168 ± 0.00046
$\boldsymbol{y_{cal}}$	1.00052	1.0004 ± 0.0025	z_{re}	10.43	11.1 ± 1.8	$H(0.57)$	93.68	$94.58^{+0.79}_{-1.7}$
$\boldsymbol{A^{CIB}_{217}}$	66.7	65.1 ± 6.7	$10^9 A_s$	2.224	$2.267^{+0.089}_{-0.10}$	$D_A(0.57)$	1375.8	1364^{+26}_{-15}
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.06	—	$10^9 A_s e^{-2\tau}$	1.8838	$1.890^{+0.015}_{-0.021}$	$F_{AP}(0.57)$	0.67493	0.6754 ± 0.0021
$\boldsymbol{A^{tSZ}_{143}}$	7.09	4.86 ± 2.0	D_{40}	1230.0	1221 ± 17	$f\sigma_8(0.57)$	0.4842	$0.473^{+0.017}_{-0.014}$
$\boldsymbol{A^{PS}_{100}}$	252.9	263 ± 29	D_{220}	5722.3	5723 ± 41	$\sigma_8(0.57)$	0.6221	$0.606^{+0.023}_{-0.019}$
$\boldsymbol{A^{PS}_{143}}$	40.0	46 ± 8	D_{810}	2536.9	2537 ± 14	f^{143}_{2000}	29.67	31.6 ± 3.2
$\boldsymbol{A^{PS}_{143\times217}}$	34.5	39^{+10}_{-10}	D_{1420}	815.3	813.6 ± 5.1	$f^{143\times217}_{2000}$	32.37	33.7 ± 2.4
$\boldsymbol{A^{PS}_{217}}$	98.2	97 ± 10	D_{2000}	230.54	229.2 ± 2.1	f^{217}_{2000}	105.98	107.2 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.01	< 5.37	$n_{s,0.002}$	0.9710	$0.9774^{+0.0077}_{-0.011}$	χ^2_{lowTEB}	10496.13	10496.8 ± 2.9
$\boldsymbol{A^{dustTT}_{100}}$	7.44	7.52 ± 1.9	Y_P	0.24655	$0.2490^{+0.0016}_{-0.0036}$	χ^2_{plik}	763.9	779.7 ± 6.2
$\boldsymbol{A^{dustTT}_{143}}$	9.03	9.09 ± 1.8	Y_P^{BBN}	0.24788	$0.2504^{+0.0016}_{-0.0036}$	χ^2_{H070p6}	0.485	0.40 ± 0.34
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.63	17.3 ± 4.1	10^5D/H	2.620	$2.659^{+0.053}_{-0.073}$	χ^2_{6DF}	0.0060	0.064 ± 0.086
$\boldsymbol{A^{dustTT}_{217}}$	82.1	81.7 ± 7.4	Age/Gyr	13.709	$13.58^{+0.23}_{-0.11}$	χ^2_{MGS}	1.47	1.40 ± 0.59
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00078	z_*	1090.013	$1090.24^{+0.40}_{-0.50}$	$\chi^2_{DR11CMASS}$	2.414	2.98 ± 0.78
$\boldsymbol{c_{217}}$	0.99593	0.9961 ± 0.0015	r_*	143.95	$142.4^{+2.4}_{-1.2}$	$\chi^2_{DR11LOWZ}$	0.427	0.73 ± 0.64
H_0	68.28	$68.86^{+0.89}_{-1.5}$	$100\theta_*$	1.04105	$1.04071^{+0.00066}_{-0.00054}$	χ^2_{prior}	2.02	7.45 ± 3.6
Ω_Λ	0.6928	0.6911 ± 0.0083	D_A/Gpc	13.828	$13.69^{+0.22}_{-0.11}$	χ^2_{CMB}	11260.0	11276.5 ± 5.8
Ω_m	0.3072	0.3089 ± 0.0083	z_{drag}	1060.05	$1060.65^{+0.67}_{-0.92}$	χ^2_{BAO}	4.32	5.18 ± 1.2

Best-fit $\chi^2_{eff} = 11266.87$; $\bar{\chi}^2_{eff} = 11289.58$; $R - 1 = 0.01576$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.41 DR11LOWZ: 0.43 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.13 plik_dx11dr2_HM_v18_TT: 763.91 Hubble - H070p6: 0.48

12.13 base_nnu_meffsterile_plikHM_TT_lowTEB_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022401	0.02252 ± 0.00024	$\Omega_\nu h^2$	0.00065	$0.00260^{+0.00057}_{-0.0022}$	$100\theta_{\rm D}$	0.16107	$0.16142^{+0.00044}_{-0.00066}$
$\boldsymbol{\Omega_c h^2}$	0.12007	0.1212 ± 0.0042	$\Omega_{\rm m} h^3$	0.09797	$0.1009^{+0.0023}_{-0.0052}$	$z_{\rm eq}$	3361.9	3313^{+57}_{-35}
$\boldsymbol{100\theta_{\rm MC}}$	1.04093	$1.04069^{+0.00056}_{-0.00050}$	σ_8	0.8359	$0.815^{+0.030}_{-0.025}$	$k_{\rm eq}$	0.010326	$0.01031^{+0.00019}_{-0.00014}$
$\boldsymbol{\tau}$	0.0850	0.091 ± 0.020	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4619	$0.452^{+0.016}_{-0.013}$	$100\theta_{\rm eq}$	0.8207	$0.8311^{+0.0067}_{-0.012}$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	0.000	< 0.209	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6214	$0.607^{+0.022}_{-0.017}$	$100\theta_{\rm s,eq}$	0.45324	$0.4586^{+0.0034}_{-0.0064}$
$\boldsymbol{N_{\rm eff}}$	3.140	< 3.40	$\sigma_8/h^{0.5}$	1.0103	$0.981^{+0.035}_{-0.026}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071903	0.07173 ± 0.00045
$\boldsymbol{\ln(10^{10}A_s)}$	3.1056	3.121 ± 0.042	$\langle d^2\rangle^{1/2}$	2.4899	2.483 ± 0.045	$H(0.57)$	93.78	$94.63^{+0.80}_{-1.7}$
$\boldsymbol{n_s}$	0.9724	$0.9777^{+0.0078}_{-0.011}$	$z_{\rm re}$	10.59	11.1 ± 1.8	$D_{\rm A}(0.57)$	1373.3	1363^{+26}_{-15}
$\boldsymbol{y_{\rm cal}}$	1.00056	1.0004 ± 0.0025	$10^9 A_{\rm s}$	2.232	$2.269^{+0.090}_{-0.10}$	$F_{\rm AP}(0.57)$	0.67448	0.6751 ± 0.0020
$\boldsymbol{A^{\rm CIB}_{217}}$	66.3	65.1 ± 6.7	$10^9 A_{\rm s} e^{-2\tau}$	1.8833	$1.890^{+0.016}_{-0.021}$	$f\sigma_8(0.57)$	0.4844	$0.474^{+0.017}_{-0.014}$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.11	—	D_{40}	1227.8	1221 ± 17	$\sigma_8(0.57)$	0.6233	$0.607^{+0.023}_{-0.019}$
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.05	4.86 ± 2.0	D_{220}	5720.5	5723 ± 41	f^{143}_{2000}	29.44	31.6 ± 3.2
$\boldsymbol{A^{\rm PS}_{100}}$	252.3	263 ± 29	D_{810}	2537.1	2537 ± 14	$f^{143\times217}_{2000}$	32.19	33.7 ± 2.4
$\boldsymbol{A^{\rm PS}_{143}}$	40.4	46 ± 8	D_{1420}	815.7	813.7 ± 5.1	f^{217}_{2000}	105.87	107.2 ± 2.2
$\boldsymbol{A^{PS}_{143\times217}}$	35.5	39^{+10}_{-10}	D_{2000}	230.70	229.2 ± 2.1	$\chi^2_{\rm lowTEB}$	10496.07	10496.8 ± 3.0
$\boldsymbol{A^{\rm PS}_{217}}$	98.8	97 ± 10	$n_{\rm s,0.002}$	0.9724	$0.9777^{+0.0078}_{-0.011}$	$\chi^2_{\rm plik}$	764.1	779.8 ± 6.2
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 5.37	$Y_{\rm P}$	0.24668	$0.2491^{+0.0016}_{-0.0036}$	$\chi^2_{\rm H070p6}$	0.417	0.37 ± 0.32
$\boldsymbol{A^{{\rm dust}TT}_{100}}$	7.45	7.52 ± 1.9	$Y^{\rm BBN}_{\rm P}$	0.24801	$0.2504^{+0.0016}_{-0.0037}$	$\chi^2_{\rm JLA}$	706.601	706.71 ± 0.20
$\boldsymbol{A^{{\rm dust}TT}_{143}}$	9.08	9.09 ± 1.8	10^5D/H	2.618	$2.658^{+0.053}_{-0.073}$	$\chi^2_{\rm 6DF}$	0.00099	0.056 ± 0.077
$\boldsymbol{A^{{\rm dust}TT}_{143\times217}}$	17.85	17.3 ± 4.1	Age/Gyr	13.697	$13.57^{+0.24}_{-0.11}$	$\chi^2_{\rm MGS}$	1.61	1.46 ± 0.59
$\boldsymbol{A^{{\rm dust}TT}_{217}}$	82.3	81.7 ± 7.4	z_*	1089.979	$1090.23^{+0.40}_{-0.50}$	$\chi^2_{\rm DR11CMASS}$	2.444	2.94 ± 0.71
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00078	r_*	143.92	$142.4^{+2.4}_{-1.2}$	$\chi^2_{\rm DR11LOWZ}$	0.325	0.66 ± 0.59
$\boldsymbol{c_{217}}$	0.99594	0.9960 ± 0.0015	$100\theta_*$	1.04105	$1.04072^{+0.00067}_{-0.00055}$	$\chi^2_{\rm prior}$	1.99	7.45 ± 3.6
H_0	68.45	$68.94^{+0.89}_{-1.5}$	$D_{\rm A}$/Gpc	13.825	$13.69^{+0.22}_{-0.11}$	$\chi^2_{\rm CMB}$	11260.1	11276.6 ± 5.8
Ω_Λ	0.6946	0.6919 ± 0.0080	$z_{\rm drag}$	1060.09	$1060.67^{+0.67}_{-0.92}$	$\chi^2_{\rm BAO}$	4.38	5.12 ± 1.1
$\Omega_{\rm m}$	0.3054	0.3081 ± 0.0080	$r_{\rm drag}$	146.57	$145.0^{+2.5}_{-1.2}$			
$\Omega_{\rm m}h^2$	0.14312	$0.1464^{+0.0026}_{-0.0047}$	$k_{\rm D}$	0.14108	$0.14223^{+0.00099}_{-0.0018}$			

Best-fit $\chi^2_{\rm eff} = 11973.54$; $\bar{\chi}^2_{\rm eff} = 11996.22$; $R - 1 = 0.01599$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.33 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.07 plik_dx11dr2_HM_v18_TT: 764.07 Hubble - H070p6: 0.42 SN - JLA December_2013: 706.60

12.14 base_nnu_meffsterile_plikHM_TTTEEE_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022257	$0.02241^{+0.00015}_{-0.00018}$	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.154 ± 0.053	r_*	144.61	$143.6^{+1.2}_{-0.48}$
$\boldsymbol{\Omega_c h^2}$	0.11623	$0.1190^{+0.0039}_{-0.0024}$	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.337 ± 0.079	$100\theta_*$	1.040975	$1.04083^{+0.00043}_{-0.00033}$
$\boldsymbol{100\theta_{MC}}$	1.040774	$1.04071^{+0.00038}_{-0.00032}$	$\boldsymbol{A^{dustTE}_{217}}$	1.666	1.66 ± 0.25	D_A/Gpc	13.892	$13.80^{+0.11}_{-0.045}$
$\boldsymbol{\tau}$	0.0785	0.087 ± 0.017	$\boldsymbol{c_{100}}$	0.99823	0.99814 ± 0.00077	z_{drag}	1059.666	$1060.19^{+0.38}_{-0.57}$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	0.321	< 0.241	$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0014	r_{drag}	147.31	$146.3^{+1.3}_{-0.50}$
$\boldsymbol{N_{eff}}$	3.049	< 3.19	H_0	67.34	$67.87^{+0.51}_{-0.86}$	k_D	0.14055	$0.14137^{+0.00046}_{-0.00099}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0924	3.111 ± 0.035	Ω_Λ	0.6857	0.6865 ± 0.0072	$100\theta_D$	0.160907	$0.16104^{+0.00020}_{-0.00034}$
$\boldsymbol{n_s}$	0.9647	$0.9697^{+0.0053}_{-0.0070}$	Ω_m	0.3143	0.3135 ± 0.0072	z_{eq}	3308.2	3325^{+69}_{-25}
$\boldsymbol{y_{cal}}$	1.00075	1.0004 ± 0.0025	$\Omega_m h^2$	0.14254	$0.1444^{+0.0014}_{-0.0026}$	k_{eq}	0.010160	$0.01026^{+0.00020}_{-0.000099}$
$\boldsymbol{A^{CIB}_{217}}$	66.3	64.2 ± 6.6	$\Omega_\nu h^2$	0.00406	$0.00300^{+0.00030}_{-0.0029}$	$100\theta_{eq}$	0.8322	$0.8289^{+0.0048}_{-0.015}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.17	—	$\Omega_m h^3$	0.09599	$0.09801^{+0.00076}_{-0.0024}$	$100\theta_{s,eq}$	0.4594	$0.4576^{+0.0024}_{-0.0077}$
$\boldsymbol{A^{tSZ}_{143}}$	7.09	5.32 ± 1.9	σ_8	0.8274	$0.812^{+0.029}_{-0.021}$	$r_{drag}/D_V(0.57)$	0.071415	0.07144 ± 0.00039
$\boldsymbol{A^{PS}_{100}}$	256.1	261 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4639	$0.454^{+0.016}_{-0.011}$	$H(0.57)$	92.89	$93.56^{+0.29}_{-0.83}$
$\boldsymbol{A^{PS}_{143}}$	41.1	44 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6195	$0.607^{+0.021}_{-0.015}$	$D_A(0.57)$	1391.2	$1381^{+14}_{-7.1}$
$\boldsymbol{A^{PS}_{143\times217}}$	37.5	40 ± 10	$\sigma_8/h^{0.5}$	1.0082	$0.985^{+0.034}_{-0.023}$	$F_{AP}(0.57)$	0.67675	0.6765 ± 0.0018
$\boldsymbol{A^{PS}_{217}}$	99.0	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5091	2.504 ± 0.039	$f\sigma_8(0.57)$	0.4818	$0.473^{+0.017}_{-0.012}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.30	z_{re}	10.02	$10.8^{+1.7}_{-1.5}$	$\sigma_8(0.57)$	0.6148	$0.603^{+0.022}_{-0.016}$
$\boldsymbol{A^{dustTT}_{100}}$	7.46	7.46 ± 1.9	$10^9 A_s$	2.203	$2.246^{+0.076}_{-0.085}$	f^{143}_{2000}	29.29	30.0 ± 2.7
$\boldsymbol{A^{dustTT}_{143}}$	9.04	8.95 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8829	$1.885^{+0.012}_{-0.014}$	$f^{143\times217}_{2000}$	32.23	32.6 ± 1.9
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.69	17.0 ± 4.1	D_{40}	1240.8	1234 ± 14	f^{217}_{2000}	105.82	106.2 ± 1.9
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.6 ± 7.4	D_{220}	5733.3	5730 ± 38	χ^2_{lowTEB}	10496.90	10497.7 ± 2.6
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0816 ± 0.0056	D_{810}	2537.4	2536 ± 14	χ^2_{plik}	2431.3	2452.3 ± 7.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04888	0.0492 ± 0.0050	D_{1420}	815.02	814.3 ± 4.8	χ^2_{6DF}	0.069	0.096 ± 0.10
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0990	0.099 ± 0.033	D_{2000}	230.69	229.9 ± 1.6	χ^2_{MGS}	0.982	1.08 ± 0.46
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.1006 ± 0.0069	$n_{s,0.002}$	0.9647	$0.9697^{+0.0053}_{-0.0070}$	$\chi^2_{DR11CMASS}$	2.77	3.13 ± 0.91
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2230	0.223 ± 0.047	Y_P	0.24538	$0.24701^{+0.00057}_{-0.0017}$	$\chi^2_{DR11LOWZ}$	0.99	1.06 ± 0.69
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	Y_P^{BBN}	0.24671	$0.24834^{+0.00057}_{-0.0017}$	χ^2_{prior}	6.92	19.5 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1405	0.141 ± 0.038	10^5D/H	2.6135	$2.625^{+0.029}_{-0.039}$	χ^2_{CMB}	12928.2	12950.0 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1312	0.132 ± 0.029	Age/Gyr	13.811	$13.72^{+0.12}_{-0.037}$	χ^2_{BAO}	4.81	5.38 ± 1.3
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.303 ± 0.084	z_*	1090.032	$1090.08^{+0.25}_{-0.30}$			

Best-fit $\chi^2_{eff} = 12939.92$; $\bar{\chi}^2_{eff} = 12974.88$; $R - 1 = 0.01245$

χ^2_{eff}: BAO - 6DF: 0.07 MGS: 0.98 DR11CMASS: 2.77 DR11LOWZ: 0.99 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.90 plik_dx11dr2_HM_v18_TTTEEE:

12.15 base_nnu_meffsterile_plikHM_TTTEEE_lowTEB_BAO_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022353	$0.02243^{+0.00015}_{-0.00018}$	$\boldsymbol{A_{143}^{dustTE}}$	0.153	0.154 ± 0.053	r_*	144.47	$143.6^{+1.3}_{-0.53}$
$\boldsymbol{\Omega_c h^2}$	0.11939	$0.1192^{+0.0040}_{-0.0025}$	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.339	0.337 ± 0.080	$100\theta_*$	1.041049	$1.04082^{+0.00045}_{-0.00034}$
$\boldsymbol{100\theta_{MC}}$	1.040887	$1.04070^{+0.00039}_{-0.00033}$	$\boldsymbol{A_{217}^{dustTE}}$	1.667	1.66 ± 0.25	D_A/Gpc	13.877	$13.79^{+0.12}_{-0.050}$
$\boldsymbol{\tau}$	0.0836	0.088 ± 0.017	$\boldsymbol{c_{100}}$	0.99821	0.99814 ± 0.00077	z_{drag}	1059.856	$1060.24^{+0.39}_{-0.59}$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	0.000	< 0.223	$\boldsymbol{c_{217}}$	0.99582	0.9960 ± 0.0015	r_{drag}	147.14	$146.2^{+1.4}_{-0.55}$
$\boldsymbol{N_{eff}}$	3.073	< 3.20	H_0	67.85	$67.99^{+0.54}_{-0.90}$	k_D	0.14070	$0.14144^{+0.00050}_{-0.0011}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.1016	3.113 ± 0.035	Ω_Λ	0.6907	0.6874 ± 0.0071	$100\theta_D$	0.160896	$0.16105^{+0.00021}_{-0.00036}$
$\boldsymbol{n_s}$	0.9688	$0.9705^{+0.0054}_{-0.0072}$	Ω_m	0.3093	0.3126 ± 0.0071	z_{eq}	3375.1	3325^{+66}_{-24}
$\boldsymbol{y_{cal}}$	1.00047	1.0004 ± 0.0025	$\Omega_m h^2$	0.14240	$0.1445^{+0.0015}_{-0.0028}$	k_{eq}	0.010320	$0.01027^{+0.00020}_{-0.00010}$
$\boldsymbol{A_{217}^{CIB}}$	64.2	64.2 ± 6.6	$\Omega_\nu h^2$	0.00065	$0.00287^{+0.00024}_{-0.0028}$	$100\theta_{eq}$	0.8181	$0.8289^{+0.0045}_{-0.014}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.38	—	$\Omega_m h^3$	0.09661	$0.09824^{+0.00089}_{-0.0026}$	$100\theta_{s,eq}$	0.45190	$0.4575^{+0.0023}_{-0.0074}$
$\boldsymbol{A_{143}^{tSZ}}$	7.04	5.31 ± 1.9	σ_8	0.8330	$0.813^{+0.029}_{-0.021}$	$r_{drag}/D_V(0.57)$	0.071687	0.07149 ± 0.00039
$\boldsymbol{A_{100}^{PS}}$	251.2	261 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4633	$0.455^{+0.016}_{-0.011}$	$H(0.57)$	93.23	$93.66^{+0.33}_{-0.91}$
$\boldsymbol{A_{143}^{PS}}$	43.5	44 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6212	$0.608^{+0.021}_{-0.015}$	$D_A(0.57)$	1383.5	$1379^{+15}_{-7.6}$
$\boldsymbol{A_{143\times217}^{PS}}$	43.6	40 ± 10	$\sigma_8/h^{0.5}$	1.0112	$0.986^{+0.034}_{-0.022}$	$F_{AP}(0.57)$	0.67548	0.6763 ± 0.0018
$\boldsymbol{A_{217}^{PS}}$	102.1	98 ± 10	$\langle d^2\rangle^{1/2}$	2.4978	2.503 ± 0.039	$f\sigma_8(0.57)$	0.4837	$0.474^{+0.017}_{-0.012}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.31	z_{re}	10.45	$10.9^{+1.7}_{-1.5}$	$\sigma_8(0.57)$	0.6202	$0.605^{+0.022}_{-0.016}$
$\boldsymbol{A_{100}^{dustTT}}$	7.41	7.46 ± 1.9	$10^9 A_s$	2.223	$2.250^{+0.076}_{-0.086}$	f_{2000}^{143}	28.49	30.0 ± 2.7
$\boldsymbol{A_{143}^{dustTT}}$	9.01	8.96 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8810	$1.885^{+0.012}_{-0.015}$	$f_{2000}^{143\times217}$	31.72	32.6 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.86	17.0 ± 4.1	D_{40}	1233.7	1233 ± 14	f_{2000}^{217}	105.21	106.2 ± 1.9
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.6 ± 7.4	D_{220}	5727.0	5730 ± 38	χ^2_{lowTEB}	10496.60	10497.7 ± 2.6
$\boldsymbol{A_{100}^{dustEE}}$	0.0817	0.0816 ± 0.0056	D_{810}	2537.6	2536 ± 14	χ^2_{plik}	2432.5	2452.5 ± 7.1
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04935	0.0493 ± 0.0050	D_{1420}	816.20	814.3 ± 4.8	χ^2_{H070p6}	0.684	0.66 ± 0.33
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0988	0.099 ± 0.033	D_{2000}	231.09	229.9 ± 1.7	χ^2_{6DF}	0.0180	0.085 ± 0.096
$\boldsymbol{A_{143}^{dustEE}}$	0.1007	0.1006 ± 0.0069	$n_{s,0.002}$	0.9688	$0.9705^{+0.0054}_{-0.0072}$	χ^2_{MGS}	1.343	1.14 ± 0.47
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2220	0.223 ± 0.047	Y_P	0.24575	$0.24716^{+0.00066}_{-0.0019}$	$\chi^2_{DR11CMASS}$	2.44	3.05 ± 0.83
$\boldsymbol{A_{217}^{dustEE}}$	0.650	0.65 ± 0.13	Y_P^{BBN}	0.24708	$0.24850^{+0.00066}_{-0.0019}$	$\chi^2_{DR11LOWZ}$	0.57	0.98 ± 0.66
$\boldsymbol{A_{100}^{dustTE}}$	0.1408	0.141 ± 0.038	10^5D/H	2.6039	$2.626^{+0.029}_{-0.041}$	χ^2_{prior}	6.94	19.5 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1307	0.132 ± 0.029	Age/Gyr	13.770	$13.70^{+0.13}_{-0.044}$	χ^2_{CMB}	12929.1	12950.1 ± 6.9
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.304	0.304 ± 0.084	z_*	1089.917	$1090.07^{+0.26}_{-0.31}$	χ^2_{BAO}	4.38	5.25 ± 1.2

Best-fit $\chi^2_{\rm eff} = 12941.08$; $\bar{\chi}^2_{\rm eff} = 12975.57$; $R - 1 = 0.01234$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.02 MGS: 1.34 DR11CMASS: 2.44 DR11LOWZ: 0.57 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.60 plik_dx11dr2_HM_v18_TTTEEE: 2432.48 Hubble - H070p6: 0.68

12.16 base_nnu_meffsterile_plikHM_TTTEEE_lowTEB_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022329	$0.02243^{+0.00015}_{-0.00018}$	$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.339	0.337 ± 0.080	$D_{\rm A}/{\rm Gpc}$	13.895	$13.79^{+0.13}_{-0.050}$
$\boldsymbol{\Omega_{\rm c}h^2}$	0.11664	$0.1191^{+0.0040}_{-0.0025}$	$\boldsymbol{A^{\rm dust}_{217}}$	1.662	1.66 ± 0.25	$z_{\rm drag}$	1059.780	$1060.26^{+0.39}_{-0.59}$
$\boldsymbol{100\theta_{\rm MC}}$	1.040850	$1.04071^{+0.00040}_{-0.00033}$	$\boldsymbol{c_{100}}$	0.99820	0.99814 ± 0.00077	$r_{\rm drag}$	147.34	$146.2^{+1.4}_{-0.55}$
$\boldsymbol{\tau}$	0.0776	0.089 ± 0.017	$\boldsymbol{c_{217}}$	0.99604	0.9960 ± 0.0015	$k_{\rm D}$	0.14058	$0.14143^{+0.00050}_{-0.0011}$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	0.246	< 0.215	H_0	67.56	$68.05^{+0.54}_{-0.91}$	$100\theta_{\rm D}$	0.160829	$0.16105^{+0.00021}_{-0.00037}$
$\boldsymbol{N_{\rm eff}}$	3.048	< 3.21	Ω_Λ	0.6884	0.6882 ± 0.0070	$z_{\rm eq}$	3320.0	3324^{+66}_{-23}
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0885	3.114 ± 0.035	$\Omega_{\rm m}$	0.3116	0.3118 ± 0.0070	$k_{\rm eq}$	0.010181	$0.01026^{+0.00020}_{-0.00010}$
$\boldsymbol{n_{\rm s}}$	0.9658	$0.9707^{+0.0054}_{-0.0072}$	$\Omega_{\rm m}h^2$	0.14223	$0.1444^{+0.0015}_{-0.0028}$	$100\theta_{\rm eq}$	0.8298	$0.8292^{+0.0044}_{-0.014}$
$\boldsymbol{y_{\rm cal}}$	1.00009	1.0004 ± 0.0025	$\Omega_\nu h^2$	0.00326	$0.00283^{+0.00018}_{-0.0028}$	$100\theta_{\rm s,eq}$	0.45807	$0.4577^{+0.0022}_{-0.0074}$
$\boldsymbol{A^{\rm CIB}_{217}}$	66.5	64.2 ± 6.6	$\Omega_{\rm m}h^3$	0.09609	$0.09827^{+0.00090}_{-0.0027}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071561	0.07153 ± 0.00038
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.13	—	σ_8	0.8252	$0.814^{+0.029}_{-0.021}$	$H(0.57)$	93.00	$93.69^{+0.33}_{-0.92}$
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.17	5.32 ± 1.9	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4606	$0.455^{+0.016}_{-0.011}$	$D_{\rm A}(0.57)$	1388.1	$1378^{+16}_{-7.6}$
$\boldsymbol{A^{\rm PS}_{100}}$	254.8	261 ± 28	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6165	$0.608^{+0.021}_{-0.015}$	$F_{\rm AP}(0.57)$	0.67605	0.6761 ± 0.0018
$\boldsymbol{A^{\rm PS}_{143}}$	39.6	44 ± 8	$\sigma_8/h^{0.5}$	1.0039	$0.987^{+0.033}_{-0.022}$	$f\sigma_8(0.57)$	0.4798	$0.474^{+0.017}_{-0.012}$
$\boldsymbol{A^{PS}_{143\times217}}$	35.6	40 ± 10	$\langle d^2\rangle^{1/2}$	2.4959	2.503 ± 0.039	$\sigma_8(0.57)$	0.6138	$0.606^{+0.022}_{-0.016}$
$\boldsymbol{A^{\rm PS}_{217}}$	97.9	98 ± 10	$z_{\rm re}$	9.92	$10.9^{+1.7}_{-1.5}$	f^{143}_{2000}	29.00	30.0 ± 2.7
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.29	$10^9A_{\rm s}$	2.194	$2.252^{+0.076}_{-0.086}$	$f^{143\times217}_{2000}$	31.91	32.6 ± 2.0
$\boldsymbol{A^{{\rm dust}TT}_{100}}$	7.41	7.47 ± 1.9	$10^9A_{\rm s}e^{-2\tau}$	1.8788	$1.885^{+0.012}_{-0.015}$	f^{217}_{2000}	105.51	106.2 ± 1.9
$\boldsymbol{A^{{\rm dust}TT}_{143}}$	8.99	8.96 ± 1.8	D_{40}	1236.7	1233 ± 14	$\chi^2_{\rm lowTEB}$	10496.55	10497.6 ± 2.6
$\boldsymbol{A^{{\rm dust}TT}_{143\times217}}$	17.62	17.0 ± 4.1	D_{220}	5730.8	5731 ± 38	$\chi^2_{\rm plik}$	2431.9	2452.5 ± 7.1
$\boldsymbol{A^{{\rm dust}TT}_{217}}$	81.9	81.5 ± 7.4	D_{810}	2534.5	2536 ± 14	$\chi^2_{\rm H070p6}$	0.834	0.64 ± 0.32
$\boldsymbol{A^{{\rm dust}EE}_{100}}$	0.0814	0.0817 ± 0.0056	D_{1420}	814.71	814.4 ± 4.8	$\chi^2_{\rm JLA}$	706.751	706.80 ± 0.22
$\boldsymbol{A^{{\rm dust}EE}_{100\times143}}$	0.04904	0.0493 ± 0.0050	D_{2000}	230.65	230.0 ± 1.7	$\chi^2_{\rm 6DF}$	0.0374	0.075 ± 0.087
$\boldsymbol{A^{{\rm dust}EE}_{100\times217}}$	0.0995	0.099 ± 0.033	$n_{\rm s,0.002}$	0.9658	$0.9707^{+0.0054}_{-0.0072}$	$\chi^2_{\rm MGS}$	1.156	1.19 ± 0.47
$\boldsymbol{A^{{\rm dust}EE}_{143}}$	0.1005	0.1007 ± 0.0069	$Y_{\rm P}$	0.24540	$0.24718^{+0.00067}_{-0.0019}$	$\chi^2_{\rm DR11CMASS}$	2.547	2.97 ± 0.74
$\boldsymbol{A^{{\rm dust}EE}_{143\times217}}$	0.2231	0.223 ± 0.047	$Y_{\rm P}^{\rm BBN}$	0.24673	$0.24851^{+0.00067}_{-0.0019}$	$\chi^2_{\rm DR11LOWZ}$	0.75	0.91 ± 0.62
$\boldsymbol{A^{{\rm dust}EE}_{217}}$	0.654	0.65 ± 0.13	$10^5{\rm D/H}$	2.5998	$2.625^{+0.029}_{-0.041}$	$\chi^2_{\rm prior}$	6.92	19.6 ± 5.5
$\boldsymbol{A^{{\rm dust}TE}_{100}}$	0.1395	0.141 ± 0.038	Age/Gyr	13.800	$13.70^{+0.13}_{-0.045}$	$\chi^2_{\rm CMB}$	12928.5	12950.1 ± 6.9
$\boldsymbol{A^{{\rm dust}TE}_{100\times143}}$	0.1313	0.132 ± 0.029	z_*	1089.907	$1090.05^{+0.26}_{-0.31}$	$\chi^2_{\rm BAO}$	4.49	5.14 ± 1.1
$\boldsymbol{A^{{\rm dust}TE}_{100\times217}}$	0.303	0.304 ± 0.084	r_*	144.66	$143.6^{+1.4}_{-0.53}$			
$\boldsymbol{A^{{\rm dust}TE}_{143}}$	0.155	0.154 ± 0.053	$100\theta_*$	1.041040	$1.04082^{+0.00046}_{-0.00034}$			

Best-fit $\chi^2_{\rm eff} = 13647.45$; $\bar{\chi}^2_{\rm eff} = 13682.29$; $R - 1 = 0.01225$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.04 MGS: 1.16 DR11CMASS: 2.55 DR11LOWZ: 0.75 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.55 plik_dx11dr2_HM_v18_TTTEEE: 2431.91 Hubble - H070p6: 0.83 SN - JLA December_2013: 706.75

12.17 base_nnu_meffsterile_CamSpecHM_TT_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022309	$0.02247^{+0.00022}_{-0.00025}$ (-0.0σ)	Ω_Λ	0.6927	0.6908 ± 0.0084 $(+0.1\sigma)$	$k_{\rm D}$	0.14095	$0.14194^{+0.00083}_{-0.0016}$ (-0.1σ)
$\boldsymbol{\Omega_{\rm c}h^2}$	0.12020	$0.1203^{+0.0045}_{-0.0036}$ (-0.1σ)	$\Omega_{\rm m}$	0.3073	0.3092 ± 0.0084 (-0.1σ)	$100\theta_{\rm D}$	0.16115	$0.16132^{+0.00039}_{-0.00061}$ (-0.1σ)
$\boldsymbol{100\theta_{\rm MC}}$	1.04089	1.04078 ± 0.00052 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14316	$0.1457^{+0.0022}_{-0.0043}$ (-0.1σ)	$z_{\rm eq}$	3365	3309^{+67}_{-34} (-0.1σ)
$\boldsymbol{\tau}$	0.0790	0.089 ± 0.020 (-0.0σ)	$\Omega_\nu h^2$	0.00065	$0.00294^{+0.00043}_{-0.0027}$ $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8198	$0.8321^{+0.0065}_{-0.015}$ $(+0.1\sigma)$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	0.000	< 0.231 $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09771	$0.1001^{+0.0017}_{-0.0045}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071809	0.07168 ± 0.00046 $(+0.1\sigma)$
$\boldsymbol{N_{\rm eff}}$	3.135	< 3.34 (-0.1σ)	σ_8	0.8308	$0.810^{+0.033}_{-0.024}$ (-0.1σ)	$H(0.57)$	93.64	$94.32^{+0.65}_{-1.5}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0915	3.113 ± 0.041 (-0.1σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4605	$0.450^{+0.018}_{-0.013}$ (-0.1σ)	$D_{\rm A}(0.57)$	1376.3	1368^{+24}_{-13} $(+0.0\sigma)$
$\boldsymbol{n_{\rm s}}$	0.9715	$0.9774^{+0.0072}_{-0.010}$ $(+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6185	$0.604^{+0.024}_{-0.017}$ (-0.1σ)	$F_{\rm AP}(0.57)$	0.67496	0.6754 ± 0.0021 (-0.1σ)
$\boldsymbol{y_{\rm cal}}$	1.00065	1.0003 ± 0.0026 (-0.0σ)	$\sigma_8/h^{0.5}$	1.0056	$0.977^{+0.038}_{-0.026}$ (-0.1σ)	$f\sigma_8(0.57)$	0.4819	$0.471^{+0.019}_{-0.013}$ (-0.1σ)
$\boldsymbol{A^{\rm PS}_{100}}$	251.6	250 ± 23 (-0.5σ)	$\langle d^2\rangle^{1/2}$	2.4772	2.477 ± 0.045 (-0.2σ)	$\sigma_8(0.57)$	0.6191	$0.603^{+0.025}_{-0.018}$ (-0.1σ)
$\boldsymbol{A^{\rm PS}_{143}}$	35.9	41 ± 8 (-0.6σ)	$z_{\rm re}$	10.08	$10.9^{+1.9}_{-1.7}$ (-0.0σ)	$Y_{\rm P}^{\rm BBN}$	0.24746	$0.2494^{+0.0011}_{-0.0032}$ (-0.3σ)
$\boldsymbol{A^{\rm PS}_{217}}$	94.4	97 ± 10 $(+0.0\sigma)$	$10^9A_{\rm s}$	2.201	$2.251^{+0.088}_{-0.10}$ (-0.1σ)	f^{143}_{2000}	29.98	30.2 ± 3.2 (-0.4σ)
$\boldsymbol{A^{\rm CIB}_{217}}$	48.0	47 ± 7 (-2.7σ)	$10^9A_{\rm s}e^{-2\tau}$	1.8794	$1.883^{+0.015}_{-0.019}$ (-0.3σ)	f^{217}_{2000}	107.31	107.4 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{\rm tSZ}_{143}}$	2.80	$3.03^{+1.0}_{-2.8}$ (-0.9σ)	D_{40}	1223.6	1215 ± 16 (-0.4σ)	$f^{143\times217}_{2000}$	32.39	32.9 ± 2.4 (-0.3σ)
$\boldsymbol{r^{\rm PS}_{143\times217}}$	0.402	$0.513^{+0.099}_{-0.12}$	D_{220}	5701.2	5701 ± 41 (-0.5σ)	$\chi^2_{\rm lowTEB}$	10495.27	10496.3 ± 2.7 (-0.2σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.005	< 0.582 (-0.2σ)	D_{810}	2531.9	2532 ± 14 (-0.3σ)	$\chi^2_{\rm CamSpec}$	8045.5	8061.7 ± 6.3
$\boldsymbol{A^{\rm kSZ}}$	5.99	> 4.39 $(+0.6\sigma)$	D_{1420}	813.8	813.5 ± 5.2 (-0.0σ)	$\chi^2_{\rm 6DF}$	0.0060	0.066 ± 0.091 (-0.1σ)
$\boldsymbol{A^{\rm dust}_{100}}$	0.998	0.99 ± 0.19	$n_{\rm s,0.002}$	0.9715	$0.9774^{+0.0072}_{-0.010}$ $(+0.1\sigma)$	$\chi^2_{\rm MGS}$	1.47	1.39 ± 0.60 $(+0.1\sigma)$
$\boldsymbol{A^{\rm dust}_{143}}$	1.039	1.03 ± 0.18	$Y_{\rm P}$	0.24613	$0.2480^{+0.0011}_{-0.0032}$ (-0.3σ)	$\chi^2_{\rm DR11CMASS}$	2.410	2.99 ± 0.83 (-0.1σ)
$\boldsymbol{A^{\rm dust}_{217}}$	1.215	1.21 ± 0.12	Age/Gyr	13.714	$13.61^{+0.21}_{-0.088}$ $(+0.1\sigma)$	$\chi^2_{\rm DR11LOWZ}$	0.426	0.75 ± 0.66 (-0.1σ)
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.951	0.99 ± 0.18	z_*	1090.084	$1090.17^{+0.38}_{-0.46}$ (-0.1σ)	$\chi^2_{\rm prior}$	3.72	8.46 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99664	0.99678 ± 0.00097 (-1.4σ)	r_*	143.99	$142.8^{+2.2}_{-0.94}$ $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18540.7	18557.9 ± 6.0 $(+1251.2\sigma)$
$\boldsymbol{c_{217}}$	0.99753	0.9974 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04104	$1.04085^{+0.00065}_{-0.00052}$ $(+0.2\sigma)$	$\chi^2_{\rm BAO}$	4.314	5.20 ± 1.2 (-0.0σ)
$\boldsymbol{\beta^1_1}$	-0.27	-0.1 ± 1.0	$z_{\rm drag}$	1059.86	$1060.48^{+0.60}_{-0.88}$ (-0.1σ)			
H_0	68.25	$68.65^{+0.79}_{-1.4}$ (-0.0σ)	$r_{\rm drag}$	146.67	$145.4^{+2.2}_{-0.99}$ $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18548.77$; $\Delta\chi^2_{\rm eff} = 7282.42$; $\bar{\chi}^2_{\rm eff} = 18571.56$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.46$; $R - 1 = 0.03413$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 (Δ -0.00) MGS: 1.47 (Δ 0.07) DR11CMASS: 2.41 (Δ -0.00) DR11LOWZ: 0.43 (Δ -0.06) CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.27 (Δ -0.68) CamSpec like_v9.10CMH_unified: 8045.47

12.18 base_nnu_meffsterile_CamSpecHM_TT_lowTEB_BAO_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02249^{+0.00022}_{-0.00025}$ (-0.1σ)	Ω_Λ	0.6917 ± 0.0081 $(+0.1\sigma)$	k_D	$0.14208^{+0.00091}_{-0.0017}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1206^{+0.0045}_{-0.0036}$ (-0.1σ)	Ω_m	0.3083 ± 0.0081 (-0.1σ)	$100\theta_D$	$0.16136^{+0.00042}_{-0.00063}$ (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04076 ± 0.00053 $(+0.2\sigma)$	$\Omega_m h^2$	$0.1460^{+0.0024}_{-0.0045}$ (-0.1σ)	z_{eq}	3308^{+64}_{-33} (-0.1σ)
$\boldsymbol{\tau}$	0.090 ± 0.020 (-0.0σ)	$\Omega_\nu h^2$	$0.00283^{+0.00044}_{-0.0025}$ $(+0.1\sigma)$	$100\theta_{eq}$	$0.8322^{+0.0063}_{-0.014}$ $(+0.1\sigma)$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	< 0.220 $(+0.1\sigma)$	$\Omega_m h^3$	$0.1005^{+0.0020}_{-0.0048}$ (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07173 ± 0.00045 $(+0.1\sigma)$
$\boldsymbol{N_{eff}}$	< 3.37 (-0.1σ)	σ_8	$0.811^{+0.032}_{-0.023}$ (-0.1σ)	$H(0.57)$	$94.49^{+0.74}_{-1.6}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.116 ± 0.041 (-0.1σ)	$\sigma_8\Omega_m^{0.5}$	$0.450^{+0.018}_{-0.013}$ (-0.1σ)	$D_A(0.57)$	1365^{+25}_{-14} $(+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9786^{+0.0076}_{-0.010}$ $(+0.1\sigma)$	$\sigma_8\Omega_m^{0.25}$	$0.605^{+0.024}_{-0.017}$ (-0.1σ)	$F_{AP}(0.57)$	0.6752 ± 0.0021 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0026 (-0.0σ)	$\sigma_8/h^{0.5}$	$0.978^{+0.037}_{-0.026}$ (-0.1σ)	$f\sigma_8(0.57)$	$0.472^{+0.019}_{-0.013}$ (-0.1σ)
$\boldsymbol{A^{PS}_{100}}$	250 ± 23 (-0.5σ)	$\langle d^2\rangle^{1/2}$	2.476 ± 0.044 (-0.2σ)	$\sigma_8(0.57)$	$0.605^{+0.025}_{-0.018}$ (-0.1σ)
$\boldsymbol{A^{PS}_{143}}$	41 ± 8 (-0.6σ)	z_{re}	$11.0^{+1.9}_{-1.7}$ (-0.0σ)	Y_P^{BBN}	$0.2496^{+0.0013}_{-0.0033}$ (-0.3σ)
$\boldsymbol{A^{PS}_{217}}$	97 ± 10 $(+0.0\sigma)$	$10^9 A_s$	$2.257^{+0.089}_{-0.10}$ (-0.1σ)	f^{143}_{2000}	30.3 ± 3.2 (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	47 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	$1.884^{+0.015}_{-0.020}$ (-0.3σ)	f^{217}_{2000}	107.5 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.00^{+1.1}_{-2.7}$ (-0.9σ)	D_{40}	1214 ± 16 (-0.4σ)	$f^{143\times217}_{2000}$	32.9 ± 2.5 (-0.3σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.512^{+0.098}_{-0.12}$	D_{220}	5701 ± 41 (-0.5σ)	χ^2_{lowTEB}	10496.2 ± 2.8 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.583 (-0.2σ)	D_{810}	2533 ± 14 (-0.3σ)	$\chi^2_{CamSpec}$	8061.8 ± 6.3
$\boldsymbol{A^{kSZ}}$	> 4.46 $(+0.6\sigma)$	D_{1420}	813.5 ± 5.2 (-0.0σ)	χ^2_{H070p6}	0.40 ± 0.33 $(+0.0\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.995 ± 0.19	$n_{s,0.002}$	$0.9786^{+0.0076}_{-0.010}$ $(+0.1\sigma)$	χ^2_{6DF}	0.058 ± 0.081 (-0.1σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	Y_P	$0.2483^{+0.0013}_{-0.0033}$ (-0.3σ)	χ^2_{MGS}	1.45 ± 0.59 $(+0.1\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	Age/Gyr	$13.59^{+0.22}_{-0.10}$ $(+0.1\sigma)$	$\chi^2_{DR11CMASS}$	2.95 ± 0.76 (-0.0σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	z_*	$1090.18^{+0.40}_{-0.47}$ (-0.1σ)	$\chi^2_{DR11LOWZ}$	0.67 ± 0.61 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.4σ)	r_*	$142.6^{+2.3}_{-1.1}$ $(+0.1\sigma)$	χ^2_{prior}	8.46 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	$1.04082^{+0.00066}_{-0.00055}$ $(+0.2\sigma)$	χ^2_{CMB}	18558.0 ± 6.0 $(+1251.3\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	z_{drag}	$1060.56^{+0.62}_{-0.88}$ (-0.1σ)	χ^2_{BAO}	5.13 ± 1.1 (-0.0σ)
H_0	$68.82^{+0.84}_{-1.4}$ (-0.0σ)	r_{drag}	$145.2^{+2.3}_{-1.1}$ $(+0.1\sigma)$		

$\bar{\chi}^2_{eff} = 18572.00$; $\Delta\bar{\chi}^2_{eff} = 7282.42$; $R - 1 = 0.03394$

12.19 base_nnu_meffsterile_CamSpecHM_TT_lowTEB_BAO_post_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02250 ± 0.00023 (-0.1σ)	Ω_Λ	0.6925 ± 0.0079 $(+0.1\sigma)$	k_D	$0.14208^{+0.00092}_{-0.0017}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1206^{+0.0046}_{-0.0036}$ (-0.2σ)	Ω_m	0.3075 ± 0.0079 (-0.1σ)	$100\theta_D$	$0.16136^{+0.00043}_{-0.00063}$ (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04076 ± 0.00053 $(+0.2\sigma)$	$\Omega_m h^2$	$0.1459^{+0.0024}_{-0.0045}$ (-0.1σ)	z_{eq}	3307^{+64}_{-33} (-0.1σ)
$\boldsymbol{\tau}$	0.090 ± 0.020 (-0.0σ)	$\Omega_\nu h^2$	$0.00279^{+0.00043}_{-0.0025}$ $(+0.1\sigma)$	$100\theta_{eq}$	$0.8325^{+0.0062}_{-0.014}$ $(+0.1\sigma)$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	< 0.215 $(+0.1\sigma)$	$\Omega_m h^3$	$0.1005^{+0.0021}_{-0.0048}$ (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07177 ± 0.00044 $(+0.1\sigma)$
$\boldsymbol{N_{eff}}$	< 3.38 (-0.1σ)	σ_8	$0.812^{+0.032}_{-0.023}$ (-0.1σ)	$H(0.57)$	$94.53^{+0.75}_{-1.6}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.117 ± 0.041 (-0.1σ)	$\sigma_8\Omega_m^{0.5}$	$0.450^{+0.017}_{-0.013}$ (-0.1σ)	$D_A(0.57)$	1364^{+25}_{-14} $(+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9789^{+0.0076}_{-0.010}$ $(+0.1\sigma)$	$\sigma_8\Omega_m^{0.25}$	$0.605^{+0.023}_{-0.017}$ (-0.1σ)	$F_{AP}(0.57)$	0.6750 ± 0.0020 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0026 (-0.0σ)	$\sigma_8/h^{0.5}$	$0.978^{+0.037}_{-0.026}$ (-0.1σ)	$f\sigma_8(0.57)$	$0.472^{+0.018}_{-0.013}$ (-0.1σ)
$\boldsymbol{A^{PS}_{100}}$	250 ± 23 (-0.5σ)	$\langle d^2\rangle^{1/2}$	2.475 ± 0.044 (-0.2σ)	$\sigma_8(0.57)$	$0.605^{+0.025}_{-0.018}$ (-0.1σ)
$\boldsymbol{A^{PS}_{143}}$	41 ± 8 (-0.6σ)	z_{re}	$11.0^{+1.8}_{-1.6}$ (-0.0σ)	Y_P^{BBN}	$0.2497^{+0.0013}_{-0.0034}$ (-0.3σ)
$\boldsymbol{A^{PS}_{217}}$	97 ± 10 $(+0.0\sigma)$	$10^9 A_s$	$2.259^{+0.089}_{-0.099}$ (-0.1σ)	f^{143}_{2000}	30.3 ± 3.2 (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	47 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	$1.884^{+0.015}_{-0.020}$ (-0.3σ)	f^{217}_{2000}	107.4 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.00^{+1.1}_{-2.7}$ (-0.9σ)	D_{40}	1214 ± 16 (-0.4σ)	$f^{143\times217}_{2000}$	32.9 ± 2.5 (-0.3σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.512^{+0.098}_{-0.12}$	D_{220}	5702 ± 41 (-0.5σ)	χ^2_{lowTEB}	10496.2 ± 2.8 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.584 (-0.2σ)	D_{810}	2533 ± 14 (-0.3σ)	$\chi^2_{CamSpec}$	8061.8 ± 6.3
$\boldsymbol{A^{kSZ}}$	> 4.46 $(+0.6\sigma)$	D_{1420}	813.6 ± 5.2 (-0.0σ)	χ^2_{H070p6}	0.38 ± 0.31 $(+0.0\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.995 ± 0.19	$n_{s,0.002}$	$0.9789^{+0.0076}_{-0.010}$ $(+0.1\sigma)$	χ^2_{JLA}	706.70 ± 0.19 (-0.1σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	Y_P	$0.2483^{+0.0013}_{-0.0033}$ (-0.3σ)	χ^2_{6DF}	0.052 ± 0.073 (-0.1σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	Age/Gyr	$13.59^{+0.22}_{-0.10}$ $(+0.1\sigma)$	χ^2_{MGS}	1.51 ± 0.59 $(+0.1\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	z_*	$1090.17^{+0.40}_{-0.48}$ (-0.1σ)	$\chi^2_{DR11CMASS}$	2.91 ± 0.71 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.4σ)	r_*	$142.6^{+2.3}_{-1.1}$ $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.61 ± 0.56 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	$1.04082^{+0.00066}_{-0.00055}$ $(+0.2\sigma)$	χ^2_{prior}	8.47 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	z_{drag}	$1060.58^{+0.63}_{-0.88}$ (-0.1σ)	χ^2_{CMB}	18558.0 ± 6.0 $(+1251.1\sigma)$
H_0	$68.89^{+0.84}_{-1.4}$ (-0.0σ)	r_{drag}	$145.2^{+2.4}_{-1.1}$ $(+0.1\sigma)$	χ^2_{BAO}	5.08 ± 1.0 (-0.0σ)

$\bar{\chi}^2_{eff} = 19278.64$; $\Delta\bar{\chi}^2_{eff} = 7282.43$; $R - 1 = 0.03452$

12.20 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022387	0.02248 ± 0.00016 $(+0.5\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07	-0.1 ± 1.0	$z_{\rm drag}$	1059.895	$1060.28^{+0.38}_{-0.49}$ $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11850	$0.1180^{+0.0035}_{-0.0024}$ (-0.3σ)	H_0	67.75	$67.93^{+0.48}_{-0.71}$ $(+0.1\sigma)$	$r_{\rm drag}$	147.37	$146.5^{+1.0}_{-0.42}$ $(+0.2\sigma)$
$\boldsymbol{100\theta_{\rm MC}}$	1.040846	1.04078 ± 0.00032 $(+0.2\sigma)$	Ω_Λ	0.6908	0.6884 ± 0.0070 $(+0.3\sigma)$	$k_{\rm D}$	0.14060	$0.14130^{+0.00043}_{-0.00080}$ (-0.1σ)
$\boldsymbol{\tau}$	0.0851	$0.083^{+0.016}_{-0.019}$ (-0.2σ)	$\Omega_{\rm m}$	0.3092	0.3116 ± 0.0070 (-0.3σ)	$100\theta_{\rm D}$	0.160743	$0.16085^{+0.00020}_{-0.00031}$ (-0.7σ)
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	0.034	< 0.298 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14189	$0.1437^{+0.0013}_{-0.0023}$ (-0.3σ)	$z_{\rm eq}$	3366	3314^{+70}_{-31} (-0.2σ)
$\boldsymbol{N_{\rm eff}}$	3.047	< 3.16 (-0.2σ)	$\Omega_\nu h^2$	0.00101	$0.00328^{+0.00077}_{-0.0030}$ $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8200	$0.8316^{+0.0062}_{-0.015}$ $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0994	$3.098^{+0.032}_{-0.037}$ (-0.4σ)	$\Omega_{\rm m}h^3$	0.09612	$0.09765^{+0.00053}_{-0.0018}$ (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071688	0.07154 ± 0.00039 $(+0.3\sigma)$
$\boldsymbol{n_s}$	0.9689	$0.9710^{+0.0046}_{-0.0062}$ $(+0.2\sigma)$	σ_8	0.8302	$0.802^{+0.028}_{-0.021}$ (-0.4σ)	$H(0.57)$	93.080	$93.50^{+0.22}_{-0.61}$ (-0.1σ)
$\boldsymbol{y_{\rm cal}}$	1.00002	1.0004 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4616	$0.447^{+0.015}_{-0.012}$ (-0.5σ)	$D_{\rm A}(0.57)$	1385.6	$1381^{+11}_{-6.2}$ (-0.0σ)
$\boldsymbol{A^{\rm PS}_{100}}$	242.4	245 ± 22 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6190	$0.599^{+0.020}_{-0.015}$ (-0.4σ)	$F_{\rm AP}(0.57)$	0.67543	0.6760 ± 0.0018 (-0.3σ)
$\boldsymbol{A^{\rm PS}_{143}}$	34.9	39 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0086	$0.973^{+0.033}_{-0.024}$ (-0.4σ)	$f\sigma_8(0.57)$	0.4821	$0.466^{+0.016}_{-0.012}$ (-0.4σ)
$\boldsymbol{A^{\rm PS}_{217}}$	98.9	99 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.4946	2.482 ± 0.038 (-0.6σ)	$\sigma_8(0.57)$	0.6182	$0.596^{+0.021}_{-0.016}$ (-0.4σ)
$\boldsymbol{A^{\rm CIB}_{217}}$	47.2	46 ± 7 (-2.8σ)	$z_{\rm re}$	10.55	10.4 ± 1.5 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.24632	$0.24763^{+0.00034}_{-0.0013}$ (-0.5σ)
$\boldsymbol{A^{\rm tSZ}_{143}}$	4.45	$3.31^{+1.5}_{-2.5}$ (-1.1σ)	$10^9A_{\rm s}$	2.218	$2.218^{+0.069}_{-0.084}$ (-0.4σ)	f^{143}_{2000}	28.09	28.9 ± 2.7 (-0.4σ)
$\boldsymbol{r^{\rm PS}_{143\times217}}$	0.454	$0.52^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8714	1.877 ± 0.012 (-0.6σ)	f^{217}_{2000}	105.70	106.4 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.002	< 0.609 (-0.2σ)	D_{40}	1228.7	1225 ± 13 (-0.7σ)	$f^{143\times217}_{2000}$	30.92	31.7 ± 2.0 (-0.5σ)
$\boldsymbol{A^{\rm kSZ}}$	2.93	$5.26^{+3.7}_{-2.4}$ $(+0.8\sigma)$	D_{220}	5706.5	5714 ± 38 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10496.47	10496.5 ± 2.2 (-0.5σ)
$\boldsymbol{A^{\rm dust}_{100}}$	0.984	0.99 ± 0.19	D_{810}	2528.4	2531 ± 13 (-0.3σ)	$\chi^2_{\rm CamSpec}$	12935.5	12953.9 ± 6.2
$\boldsymbol{A^{\rm dust}_{143}}$	1.035	1.02 ± 0.18	D_{1420}	814.27	814.5 ± 4.6 $(+0.1\sigma)$	$\chi^2_{\rm 6DF}$	0.0175	0.074 ± 0.088 (-0.2σ)
$\boldsymbol{A^{\rm dust}_{217}}$	1.216	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9689	$0.9710^{+0.0046}_{-0.0062}$ $(+0.2\sigma)$	$\chi^2_{\rm MGS}$	1.343	1.20 ± 0.48 $(+0.3\sigma)$
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.994	0.98 ± 0.18	$Y_{\rm P}$	0.24499	$0.24630^{+0.00033}_{-0.0013}$ (-0.5σ)	$\chi^2_{\rm DR11CMASS}$	2.445	2.97 ± 0.75 (-0.2σ)
$\boldsymbol{c_{100}}$	0.99674	0.99678 ± 0.00097 (-1.8σ)	Age/Gyr	13.793	$13.727^{+0.085}_{-0.026}$ $(+0.1\sigma)$	$\chi^2_{\rm DR11LOWZ}$	0.57	0.90 ± 0.63 (-0.2σ)
$\boldsymbol{c_{217}}$	0.99706	0.9971 ± 0.0018 $(+0.8\sigma)$	z_*	1089.781	$1089.88^{+0.25}_{-0.29}$ (-0.7σ)	$\chi^2_{\rm prior}$	3.40	8.97 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.00358	1.0044 ± 0.0045	r_*	144.72	$143.88^{+0.98}_{-0.40}$ $(+0.2\sigma)$	$\chi^2_{\rm CMB}$	23432.0	23450.4 ± 6.1 $(+1533.2\sigma)$
$\boldsymbol{c_{EE}}$	1.00062	1.0014 ± 0.0043	$100\theta_*$	1.041043	$1.04092^{+0.00037}_{-0.00029}$ $(+0.2\sigma)$	$\chi^2_{\rm BAO}$	4.374	5.15 ± 1.1 (-0.2σ)

Best-fit $\chi^2_{\rm eff} = 23439.76$; $\Delta\chi^2_{\rm eff} = 10499.84$; $\bar{\chi}^2_{\rm eff} = 23464.50$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.63$; $R - 1 = 0.02991$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.02 (Δ -0.05) MGS: 1.34 (Δ 0.36) DR11CMASS: 2.44 (Δ -0.32) DR11LOWZ: 0.57 (Δ -0.42) CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.47 (Δ -0.43) CamSpec like_v9.10CMH_unified: 12935.51

12.21 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB_BAO_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02250 ± 0.00016 $(+0.4\sigma)$	H_0	$68.02^{+0.48}_{-0.74}$ $(+0.0\sigma)$	k_D	$0.14133^{+0.00044}_{-0.00085}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1181^{+0.0036}_{-0.0025}$ (-0.3σ)	Ω_Λ	0.6892 ± 0.0070 $(+0.3\sigma)$	$100\theta_D$	$0.16086^{+0.00020}_{-0.00032}$ (-0.7σ)
$\boldsymbol{100\theta_{MC}}$	$1.04078^{+0.00034}_{-0.00030}$ $(+0.2\sigma)$	Ω_m	0.3108 ± 0.0070 (-0.3σ)	z_{eq}	3313^{+69}_{-30} (-0.2σ)
$\boldsymbol{\tau}$	$0.084^{+0.017}_{-0.019}$ (-0.2σ)	$\Omega_m h^2$	$0.1437^{+0.0014}_{-0.0024}$ (-0.3σ)	$100\theta_{eq}$	$0.8316^{+0.0060}_{-0.015}$ $(+0.2\sigma)$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	< 0.286 $(+0.1\sigma)$	$\Omega_\nu h^2$	$0.00317^{+0.00072}_{-0.0029}$ $(+0.1\sigma)$	$r_{drag}/D_V(0.57)$	0.07158 ± 0.00039 $(+0.2\sigma)$
$\boldsymbol{N_{eff}}$	< 3.16 (-0.2σ)	$\Omega_m h^3$	$0.09778^{+0.00056}_{-0.0020}$ (-0.2σ)	$H(0.57)$	$93.56^{+0.22}_{-0.66}$ (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.100^{+0.033}_{-0.037}$ (-0.4σ)	σ_8	$0.803^{+0.028}_{-0.021}$ (-0.4σ)	$D_A(0.57)$	$1379^{+12}_{-6.2}$ $(+0.0\sigma)$
$\boldsymbol{n_s}$	$0.9716^{+0.0047}_{-0.0064}$ $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	$0.448^{+0.015}_{-0.012}$ (-0.5σ)	$F_{AP}(0.57)$	0.6758 ± 0.0018 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_m^{0.25}$	$0.600^{+0.020}_{-0.015}$ (-0.5σ)	$f\sigma_8(0.57)$	$0.467^{+0.016}_{-0.012}$ (-0.4σ)
$\boldsymbol{A^{PS}_{100}}$	245 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	$0.974^{+0.032}_{-0.024}$ (-0.4σ)	$\sigma_8(0.57)$	$0.598^{+0.021}_{-0.016}$ (-0.4σ)
$\boldsymbol{A^{PS}_{143}}$	39 ± 8 (-0.6σ)	$\langle d^2\rangle^{1/2}$	2.481 ± 0.039 (-0.6σ)	Y_P^{BBN}	$0.24772^{+0.00035}_{-0.0014}$ (-0.5σ)
$\boldsymbol{A^{PS}_{217}}$	99 ± 10 $(+0.1\sigma)$	z_{re}	10.4 ± 1.5 (-0.3σ)	f^{143}_{2000}	28.9 ± 2.8 (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.8σ)	$10^9 A_s$	$2.221^{+0.070}_{-0.085}$ (-0.4σ)	f^{217}_{2000}	106.4 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.32^{+1.5}_{-2.5}$ (-1.1σ)	$10^9 A_s e^{-2\tau}$	$1.877^{+0.012}_{-0.013}$ (-0.6σ)	$f^{143\times217}_{2000}$	31.6 ± 2.0 (-0.5σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.52^{+0.11}_{-0.12}$	D_{40}	1224 ± 13 (-0.6σ)	χ^2_{lowTEB}	10496.5 ± 2.3 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.609 (-0.2σ)	D_{220}	5715 ± 39 (-0.4σ)	$\chi^2_{CamSpec}$	12954.1 ± 6.3
$\boldsymbol{A^{kSZ}}$	$5.25^{+3.7}_{-2.4}$ $(+0.8\sigma)$	D_{810}	2531 ± 13 (-0.4σ)	χ^2_{H070p6}	0.64 ± 0.28 (-0.1σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{1420}	814.6 ± 4.7 $(+0.1\sigma)$	χ^2_{6DF}	0.066 ± 0.081 (-0.2σ)
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	$n_{s,0.002}$	$0.9716^{+0.0047}_{-0.0064}$ $(+0.2\sigma)$	χ^2_{MGS}	1.26 ± 0.48 $(+0.2\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.11	Y_P	$0.24638^{+0.00034}_{-0.0014}$ (-0.5σ)	$\chi^2_{DR11CMASS}$	2.92 ± 0.68 (-0.2σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	Age/Gyr	$13.719^{+0.093}_{-0.028}$ $(+0.2\sigma)$	$\chi^2_{DR11LOWZ}$	0.83 ± 0.60 (-0.2σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00096 (-1.8σ)	z_*	$1089.87^{+0.25}_{-0.30}$ (-0.7σ)	χ^2_{prior}	8.95 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.8\sigma)$	r_*	$143.8^{+1.0}_{-0.42}$ $(+0.3\sigma)$	χ^2_{CMB}	23450.6 ± 6.2 $(+1525.3\sigma)$
$\boldsymbol{c_{TE}}$	1.0044 ± 0.0045	$100\theta_*$	$1.04091^{+0.00039}_{-0.00029}$ $(+0.2\sigma)$	χ^2_{BAO}	5.07 ± 0.99 (-0.2σ)
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0044	z_{drag}	$1060.32^{+0.38}_{-0.50}$ $(+0.1\sigma)$		
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_{drag}	$146.5^{+1.1}_{-0.44}$ $(+0.2\sigma)$		

$\bar{\chi}^2_{eff} = 23465.24$; $\Delta\bar{\chi}^2_{eff} = 10489.67$; $R - 1 = 0.03423$

12.22 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB_BAO_post_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02250 ± 0.00016 $(+0.4\sigma)$	H_0	$68.07^{+0.47}_{-0.75}$ $(+0.0\sigma)$	k_D	$0.14132^{+0.00044}_{-0.00086}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1180^{+0.0036}_{-0.0026}$ (-0.3σ)	Ω_Λ	0.6899 ± 0.0068 $(+0.3\sigma)$	$100\theta_D$	$0.16086^{+0.00020}_{-0.00033}$ (-0.6σ)
$\boldsymbol{100\theta_{MC}}$	1.04078 ± 0.00032 $(+0.2\sigma)$	Ω_m	0.3101 ± 0.0068 (-0.3σ)	z_{eq}	3312^{+68}_{-30} (-0.2σ)
$\boldsymbol{\tau}$	$0.085^{+0.017}_{-0.019}$ (-0.2σ)	$\Omega_m h^2$	$0.1437^{+0.0013}_{-0.0024}$ (-0.3σ)	$100\theta_{eq}$	$0.8317^{+0.0059}_{-0.015}$ $(+0.2\sigma)$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	< 0.279 $(+0.1\sigma)$	$\Omega_\nu h^2$	$0.00312^{+0.00069}_{-0.0029}$ $(+0.1\sigma)$	$r_{drag}/D_V(0.57)$	0.07162 ± 0.00038 $(+0.2\sigma)$
$\boldsymbol{N_{eff}}$	< 3.16 (-0.2σ)	$\Omega_m h^3$	$0.09779^{+0.00055}_{-0.0020}$ (-0.2σ)	$H(0.57)$	$93.59^{+0.22}_{-0.68}$ (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.101^{+0.033}_{-0.037}$ (-0.4σ)	σ_8	$0.804^{+0.027}_{-0.021}$ (-0.4σ)	$D_A(0.57)$	$1379^{+12}_{-6.1}$ $(+0.0\sigma)$
$\boldsymbol{n_s}$	$0.9718^{+0.0047}_{-0.0065}$ $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	$0.448^{+0.014}_{-0.012}$ (-0.5σ)	$F_{AP}(0.57)$	0.6757 ± 0.0017 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_m^{0.25}$	$0.600^{+0.020}_{-0.015}$ (-0.5σ)	$f\sigma_8(0.57)$	$0.467^{+0.015}_{-0.012}$ (-0.4σ)
$\boldsymbol{A^{PS}_{100}}$	245 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	$0.974^{+0.032}_{-0.023}$ (-0.4σ)	$\sigma_8(0.57)$	$0.598^{+0.021}_{-0.016}$ (-0.4σ)
$\boldsymbol{A^{PS}_{143}}$	39 ± 8 (-0.6σ)	$\langle d^2\rangle^{1/2}$	2.481 ± 0.039 (-0.6σ)	Y_P^{BBN}	$0.24772^{+0.00034}_{-0.0015}$ (-0.5σ)
$\boldsymbol{A^{PS}_{217}}$	99 ± 10 $(+0.1\sigma)$	z_{re}	10.5 ± 1.5 (-0.3σ)	f^{143}_{2000}	28.8 ± 2.8 (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.8σ)	$10^9 A_s$	$2.223^{+0.070}_{-0.085}$ (-0.4σ)	f^{217}_{2000}	106.3 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.32^{+1.5}_{-2.5}$ (-1.1σ)	$10^9 A_s e^{-2\tau}$	$1.876^{+0.012}_{-0.014}$ (-0.6σ)	$f^{143\times217}_{2000}$	31.6 ± 2.0 (-0.5σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.52^{+0.11}_{-0.12}$	D_{40}	1224 ± 13 (-0.6σ)	χ^2_{lowTEB}	10496.5 ± 2.3 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	5716 ± 39 (-0.4σ)	$\chi^2_{CamSpec}$	12954.2 ± 6.3
$\boldsymbol{A^{kSZ}}$	$5.24^{+3.7}_{-2.4}$ $(+0.8\sigma)$	D_{810}	2531 ± 13 (-0.4σ)	χ^2_{H070p6}	0.61 ± 0.27 (-0.1σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{1420}	814.6 ± 4.7 $(+0.1\sigma)$	χ^2_{JLA}	706.75 ± 0.19 (-0.2σ)
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	$n_{s,0.002}$	$0.9718^{+0.0047}_{-0.0065}$ $(+0.2\sigma)$	χ^2_{6DF}	0.058 ± 0.073 (-0.2σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.11	Y_P	$0.24639^{+0.00033}_{-0.0014}$ (-0.5σ)	χ^2_{MGS}	1.30 ± 0.48 $(+0.2\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	Age/Gyr	$13.717^{+0.095}_{-0.027}$ $(+0.2\sigma)$	$\chi^2_{DR11CMASS}$	2.86 ± 0.61 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99679 ± 0.00096 (-1.8σ)	z_*	$1089.85^{+0.25}_{-0.30}$ (-0.7σ)	$\chi^2_{DR11LOWZ}$	0.77 ± 0.56 (-0.2σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.8\sigma)$	r_*	$143.9^{+1.1}_{-0.41}$ $(+0.3\sigma)$	χ^2_{prior}	8.94 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0044 ± 0.0045	$100\theta_*$	$1.04092^{+0.00039}_{-0.00030}$ $(+0.2\sigma)$	χ^2_{CMB}	23450.7 ± 6.2 $(+1524.5\sigma)$
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0044	z_{drag}	$1060.33^{+0.38}_{-0.51}$ $(+0.1\sigma)$	χ^2_{BAO}	5.00 ± 0.89 (-0.1σ)
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_{drag}	$146.5^{+1.1}_{-0.43}$ $(+0.2\sigma)$		

$\bar{\chi}^2_{eff} = 24171.95$; $\Delta\bar{\chi}^2_{eff} = 10489.66$; $R - 1 = 0.03493$

12.23 base_nnu_meffsterile_plikHM_TT_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022285	$0.02247^{+0.00023}_{-0.00026}$	$\Omega_m h^2$	0.14213	$0.1459^{+0.0024}_{-0.0043}$	r_{drag}	147.26	$145.3^{+2.3}_{-1.1}$
$\boldsymbol{\Omega_c h^2}$	0.11900	0.1207 ± 0.0038	$\Omega_\nu h^2$	0.00085	$0.00274^{+0.00072}_{-0.0021}$	k_D	0.14050	$0.14199^{+0.00091}_{-0.0017}$
$\boldsymbol{100\theta_{MC}}$	1.04096	$1.04075^{+0.00055}_{-0.00049}$	$\Omega_m h^3$	0.09650	$0.1004^{+0.0020}_{-0.0047}$	$100\theta_D$	0.16103	$0.16143^{+0.00040}_{-0.00060}$
$\boldsymbol{\tau}$	0.0679	$0.079^{+0.016}_{-0.019}$	σ_8	0.8137	$0.800^{+0.024}_{-0.017}$	z_{eq}	3360.7	3308^{+52}_{-36}
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.019	< 0.230	$\sigma_8\Omega_m^{0.5}$	0.4518	$0.444^{+0.012}_{-0.0087}$	k_{eq}	0.010282	$0.01029^{+0.00017}_{-0.00013}$
$\boldsymbol{N_{eff}}$	3.080	< 3.37	$\sigma_8\Omega_m^{0.25}$	0.6063	$0.596^{+0.017}_{-0.011}$	$100\theta_{eq}$	0.8207	$0.8319^{+0.0070}_{-0.011}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0673	$3.095^{+0.032}_{-0.039}$	$\sigma_8/h^{0.5}$	0.9875	$0.965^{+0.027}_{-0.017}$	$100\theta_{s,eq}$	0.45330	$0.4591^{+0.0036}_{-0.0058}$
$\boldsymbol{n_s}$	0.9693	$0.9768^{+0.0076}_{-0.011}$	$\langle d^2\rangle^{1/2}$	2.4489	2.451 ± 0.027	$r_{drag}/D_V(0.57)$	0.071763	0.07171 ± 0.00047
$\boldsymbol{y_{cal}}$	1.00006	1.0003 ± 0.0025	z_{re}	9.03	10.0 ± 1.6	$H(0.57)$	93.23	$94.45^{+0.72}_{-1.6}$
$\boldsymbol{A^{CIB}_{217}}$	67.7	65.7 ± 6.7	$10^9 A_s$	2.148	$2.210^{+0.069}_{-0.089}$	$D_A(0.57)$	1383.0	1365^{+25}_{-14}
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8754	$1.887^{+0.014}_{-0.019}$	$F_{AP}(0.57)$	0.67521	0.6753 ± 0.0021
$\boldsymbol{A^{tSZ}_{143}}$	7.20	4.75 ± 2.0	D_{40}	1222.7	1215^{+16}_{-15}	$f\sigma_8(0.57)$	0.4724	$0.465^{+0.013}_{-0.0090}$
$\boldsymbol{A^{PS}_{100}}$	254.0	265 ± 28	D_{220}	5713.5	5721 ± 40	$\sigma_8(0.57)$	0.6061	$0.596^{+0.019}_{-0.014}$
$\boldsymbol{A^{PS}_{143}}$	39.7	47 ± 8	D_{810}	2533.0	2535 ± 14	f^{143}_{2000}	30.21	32.2 ± 3.1
$\boldsymbol{A^{PS}_{143\times217}}$	33.0	39^{+9}_{-10}	D_{1420}	814.5	813.4 ± 5.0	$f^{143\times217}_{2000}$	32.79	34.2 ± 2.2
$\boldsymbol{A^{PS}_{217}}$	96.9	96 ± 10	D_{2000}	230.00	228.8 ± 2.0	f^{217}_{2000}	106.27	107.6 ± 2.1
$\boldsymbol{A^{kSZ}}$	0.01	< 5.69	$n_{s,0.002}$	0.9693	$0.9768^{+0.0076}_{-0.011}$	$\chi^2_{lensing}$	9.19	9.73 ± 1.4
$\boldsymbol{A^{dust TT}_{100}}$	7.42	7.52 ± 1.9	Y_P	0.24582	$0.2488^{+0.0015}_{-0.0034}$	χ^2_{lowTEB}	10494.76	10495.1 ± 1.5
$\boldsymbol{A^{dust TT}_{143}}$	9.09	9.13 ± 1.8	Y_P^{BBN}	0.24715	$0.2502^{+0.0015}_{-0.0034}$	χ^2_{plik}	766.3	781.5 ± 5.8
$\boldsymbol{A^{dust TT}_{143\times217}}$	17.83	17.3 ± 4.2	10^5D/H	2.619	$2.661^{+0.051}_{-0.066}$	χ^2_{6DF}	0.0102	0.063 ± 0.086
$\boldsymbol{A^{dust TT}_{217}}$	82.2	81.6 ± 7.4	Age/Gyr	13.773	$13.60^{+0.22}_{-0.098}$	χ^2_{MGS}	1.41	1.44 ± 0.61
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00078	z_*	1089.984	$1090.24^{+0.38}_{-0.45}$	$\chi^2_{DR11CMASS}$	2.407	2.98 ± 0.80
$\boldsymbol{c_{217}}$	0.99603	0.9961 ± 0.0015	r_*	144.57	$142.7^{+2.2}_{-1.0}$	$\chi^2_{DR11LOWZ}$	0.481	0.70 ± 0.64
H_0	67.90	$68.78^{+0.83}_{-1.4}$	$100\theta_*$	1.04114	$1.04079^{+0.00065}_{-0.00052}$	χ^2_{prior}	2.07	7.49 ± 3.6
Ω_Λ	0.6917	0.6914 ± 0.0084	D_A/Gpc	13.886	$13.71^{+0.21}_{-0.098}$	χ^2_{CMB}	11270.3	11286.3 ± 5.8
Ω_m	0.3083	0.3086 ± 0.0084	z_{drag}	1059.70	$1060.51^{+0.65}_{-0.91}$	χ^2_{BAO}	4.31	5.18 ± 1.2

Best-fit $\chi^2_{eff} = 11276.65$; $\bar{\chi}^2_{eff} = 11298.94$; $R - 1 = 0.00736$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.19 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.76 plik_dx11dr2_HM_v18_TT: 766.32

12.24 base_nnu_meffsterile_plikHM_TT_lowTEB_lensing_BAO_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022350	$0.02249^{+0.00023}_{-0.00026}$	$\Omega_\nu h^2$	0.00094	$0.00267^{+0.00071}_{-0.0020}$	$100\theta_{\rm D}$	0.16109	$0.16147^{+0.00043}_{-0.00061}$
$\boldsymbol{\Omega_{\rm c}h^2}$	0.11916	0.1210 ± 0.0038	$\Omega_{\rm m}h^3$	0.09726	$0.1008^{+0.0022}_{-0.0049}$	$z_{\rm eq}$	3348.0	3307^{+50}_{-35}
$\boldsymbol{100\theta_{\rm MC}}$	1.04095	1.04073 ± 0.00051	σ_8	0.8149	$0.801^{+0.023}_{-0.017}$	$k_{\rm eq}$	0.010270	$0.01029^{+0.00016}_{-0.00013}$
$\boldsymbol{\tau}$	0.0720	$0.080^{+0.016}_{-0.019}$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4504	$0.444^{+0.012}_{-0.0086}$	$100\theta_{\rm eq}$	0.8232	$0.8322^{+0.0068}_{-0.011}$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	0.028	< 0.223	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6058	$0.597^{+0.016}_{-0.011}$	$100\theta_{\rm s,eq}$	0.45458	$0.4592^{+0.0035}_{-0.0056}$
$\boldsymbol{N_{\rm eff}}$	3.121	< 3.40	$\sigma_8/h^{0.5}$	0.9861	$0.965^{+0.026}_{-0.017}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071909	0.07176 ± 0.00046
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0759	$3.098^{+0.033}_{-0.039}$	$\langle d^2\rangle^{1/2}$	2.4475	2.450 ± 0.027	$H(0.57)$	93.55	$94.61^{+0.79}_{-1.6}$
$\boldsymbol{n_{\rm s}}$	0.9718	$0.9779^{+0.0079}_{-0.011}$	$z_{\rm re}$	9.40	10.2 ± 1.6	$D_{\rm A}(0.57)$	1376.7	1363^{+24}_{-15}
$\boldsymbol{y_{\rm cal}}$	1.00010	1.0003 ± 0.0025	$10^9A_{\rm s}$	2.167	$2.218^{+0.070}_{-0.088}$	$F_{\rm AP}(0.57)$	0.67451	0.6750 ± 0.0021
$\boldsymbol{A^{\rm CIB}_{217}}$	67.9	65.8 ± 6.7	$10^9A_{\rm s}e^{-2\tau}$	1.8765	$1.888^{+0.015}_{-0.019}$	$f\sigma_8(0.57)$	0.4725	$0.466^{+0.013}_{-0.0088}$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	D_{40}	1219.8	1214 ± 15	$\sigma_8(0.57)$	0.6077	$0.598^{+0.018}_{-0.014}$
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.15	4.73 ± 2.0	D_{220}	5716.3	5721 ± 40	f^{143}_{2000}	30.29	32.3 ± 3.1
$\boldsymbol{A^{\rm PS}_{100}}$	254.8	266 ± 28	D_{810}	2533.4	2536 ± 14	$f^{143\times217}_{2000}$	32.83	34.3 ± 2.3
$\boldsymbol{A^{\rm PS}_{143}}$	39.9	47 ± 8	D_{1420}	814.7	813.4 ± 5.1	f^{217}_{2000}	106.32	107.6 ± 2.2
$\boldsymbol{A^{PS}_{143\times217}}$	32.9	39^{+9}_{-10}	D_{2000}	229.98	228.7 ± 2.0	$\chi^2_{\rm lensing}$	9.11	9.71 ± 1.3
$\boldsymbol{A^{\rm PS}_{217}}$	96.7	96 ± 10	$n_{\rm s,0.002}$	0.9718	$0.9779^{+0.0079}_{-0.011}$	$\chi^2_{\rm lowTEB}$	10494.59	10495.0 ± 1.6
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 5.75	$Y_{\rm P}$	0.24639	$0.2491^{+0.0016}_{-0.0035}$	$\chi^2_{\rm plik}$	766.5	781.6 ± 5.8
$\boldsymbol{A^{\rm dust}_{100}}$	7.55	7.53 ± 1.9	$Y^{\rm BBN}_{\rm P}$	0.24772	$0.2504^{+0.0016}_{-0.0035}$	$\chi^2_{\rm H070p6}$	0.488	0.36 ± 0.31
$\boldsymbol{A^{\rm dust}_{143}}$	9.12	9.13 ± 1.8	10^5D/H	2.621	$2.664^{+0.053}_{-0.067}$	$\chi^2_{\rm 6DF}$	0.0009	0.056 ± 0.078
$\boldsymbol{A^{\rm dust}_{143\times217}}$	17.82	17.3 ± 4.2	Age/Gyr	13.730	$13.58^{+0.22}_{-0.11}$	$\chi^2_{\rm MGS}$	1.61	1.50 ± 0.61
$\boldsymbol{A^{\rm dust}_{217}}$	82.0	81.6 ± 7.5	z_*	1089.957	$1090.24^{+0.39}_{-0.46}$	$\chi^2_{\rm DR11CMASS}$	2.441	2.95 ± 0.75
$\boldsymbol{c_{100}}$	0.99789	0.99789 ± 0.00078	r_*	144.28	$142.5^{+2.3}_{-1.2}$	$\chi^2_{\rm DR11LOWZ}$	0.321	0.64 ± 0.59
$\boldsymbol{c_{217}}$	0.99603	0.9961 ± 0.0015	$100\theta_*$	1.04110	$1.04076^{+0.00066}_{-0.00054}$	$\chi^2_{\rm prior}$	2.15	7.47 ± 3.6
H_0	68.28	$68.94^{+0.89}_{-1.4}$	$D_{\rm A}$/Gpc	13.858	$13.69^{+0.21}_{-0.11}$	$\chi^2_{\rm CMB}$	11270.2	11286.4 ± 5.8
Ω_Λ	0.6945	0.6924 ± 0.0082	$z_{\rm drag}$	1059.89	$1060.60^{+0.68}_{-0.90}$	$\chi^2_{\rm BAO}$	4.37	5.14 ± 1.1
$\Omega_{\rm m}$	0.3055	0.3076 ± 0.0082	$r_{\rm drag}$	146.95	$145.1^{+2.4}_{-1.2}$			
$\Omega_{\rm m}h^2$	0.14245	$0.1462^{+0.0026}_{-0.0045}$	$k_{\rm D}$	0.14073	$0.14211^{+0.00098}_{-0.0017}$			

Best-fit $\chi^2_{\rm eff} = 11277.24$; $\bar{\chi}^2_{\rm eff} = 11299.34$; $R - 1 = 0.00640$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.11 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.59 plik_dx11dr2_HM_v18_TT: 766.54 Hubble - H070p6: 0.49

12.25 base_nnu_meffsterile_plikHM_TT_lowTEB_lensing_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022345	$0.02250^{+0.00023}_{-0.00026}$	$\Omega_\nu h^2$	0.00085	$0.00263^{+0.00069}_{-0.0019}$	$100\theta_{\rm D}$	0.16108	$0.16147^{+0.00043}_{-0.00061}$
$\boldsymbol{\Omega_c h^2}$	0.11923	0.1210 ± 0.0038	$\Omega_{\rm m} h^3$	0.09724	$0.1009^{+0.0022}_{-0.0049}$	$z_{\rm eq}$	3351.9	3305^{+50}_{-35}
$\boldsymbol{100\theta_{\rm MC}}$	1.04098	1.04073 ± 0.00051	σ_8	0.8160	$0.802^{+0.023}_{-0.017}$	$k_{\rm eq}$	0.010279	$0.01029^{+0.00016}_{-0.00013}$
$\boldsymbol{\tau}$	0.0705	$0.081^{+0.016}_{-0.019}$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4511	$0.444^{+0.012}_{-0.0085}$	$100\theta_{\rm eq}$	0.8225	$0.8325^{+0.0067}_{-0.011}$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	0.019	< 0.218	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6067	$0.597^{+0.016}_{-0.011}$	$100\theta_{\rm s,eq}$	0.45419	$0.4593^{+0.0034}_{-0.0055}$
$\boldsymbol{N_{\rm eff}}$	3.116	< 3.40	$\sigma_8/h^{0.5}$	0.9876	$0.966^{+0.026}_{-0.017}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071908	0.07180 ± 0.00045
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0733	$3.099^{+0.032}_{-0.039}$	$\langle d^2\rangle^{1/2}$	2.4466	2.450 ± 0.027	$H(0.57)$	93.54	$94.65^{+0.80}_{-1.6}$
$\boldsymbol{n_{\rm s}}$	0.9715	$0.9782^{+0.0079}_{-0.011}$	$z_{\rm re}$	9.26	10.2 ± 1.5	$D_{\rm A}(0.57)$	1376.9	1362^{+24}_{-15}
$\boldsymbol{y_{\rm cal}}$	1.00018	1.0003 ± 0.0025	$10^9 A_{\rm s}$	2.161	$2.219^{+0.069}_{-0.088}$	$F_{\rm AP}(0.57)$	0.67453	0.6749 ± 0.0020
$\boldsymbol{A^{\rm CIB}_{217}}$	67.9	65.8 ± 6.7	$10^9 A_{\rm s} e^{-2\tau}$	1.8772	$1.888^{+0.015}_{-0.019}$	$f\sigma_8(0.57)$	0.4732	$0.466^{+0.013}_{-0.0087}$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	D_{40}	1220.3	1213 ± 15	$\sigma_8(0.57)$	0.6086	$0.598^{+0.018}_{-0.014}$
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.16	4.73 ± 2.0	D_{220}	5716.0	5722 ± 40	f^{143}_{2000}	30.23	32.2 ± 3.1
$\boldsymbol{A^{\rm PS}_{100}}$	255.4	266 ± 28	D_{810}	2534.1	2536 ± 14	$f^{143\times217}_{2000}$	32.76	34.2 ± 2.3
$\boldsymbol{A^{\rm PS}_{143}}$	39.7	47 ± 8	D_{1420}	814.9	813.5 ± 5.0	f^{217}_{2000}	106.25	107.6 ± 2.2
$\boldsymbol{A^{PS}_{143\times217}}$	32.8	39^{+9}_{-10}	D_{2000}	230.08	228.8 ± 2.0	$\chi^2_{\rm lensing}$	9.15	9.70 ± 1.3
$\boldsymbol{A^{\rm PS}_{217}}$	96.7	96 ± 10	$n_{\rm s,0.002}$	0.9715	$0.9782^{+0.0079}_{-0.011}$	$\chi^2_{\rm lowTEB}$	10494.55	10495.0 ± 1.6
$\boldsymbol{A^{\rm kSZ}}$	0.01	< 5.74	$Y_{\rm P}$	0.24633	$0.2491^{+0.0016}_{-0.0035}$	$\chi^2_{\rm plik}$	766.7	781.7 ± 5.8
$\boldsymbol{A^{\rm dust}_{100}}$	7.51	7.53 ± 1.9	$Y_{\rm P}^{\rm BBN}$	0.24766	$0.2505^{+0.0017}_{-0.0036}$	$\chi^2_{\rm H070p6}$	0.493	0.34 ± 0.30
$\boldsymbol{A^{\rm dust}_{143}}$	9.15	9.13 ± 1.8	10^5D/H	2.620	$2.663^{+0.053}_{-0.068}$	$\chi^2_{\rm JLA}$	706.605	706.68 ± 0.19
$\boldsymbol{A^{\rm dust}_{143\times217}}$	17.85	17.3 ± 4.2	Age/Gyr	13.732	$13.57^{+0.22}_{-0.11}$	$\chi^2_{\rm 6DF}$	0.0010	0.050 ± 0.071
$\boldsymbol{A^{\rm dust}_{217}}$	82.0	81.6 ± 7.4	z_*	1089.961	$1090.23^{+0.39}_{-0.46}$	$\chi^2_{\rm MGS}$	1.61	1.55 ± 0.60
$\boldsymbol{c_{100}}$	0.99794	0.99789 ± 0.00078	r_*	144.29	$142.5^{+2.3}_{-1.2}$	$\chi^2_{\rm DR11CMASS}$	2.439	2.92 ± 0.71
$\boldsymbol{c_{217}}$	0.99600	0.9961 ± 0.0015	$100\theta_*$	1.04113	$1.04076^{+0.00066}_{-0.00055}$	$\chi^2_{\rm DR11LOWZ}$	0.323	0.58 ± 0.55
H_0	68.27	$69.01^{+0.89}_{-1.4}$	$D_{\rm A}$/Gpc	13.859	$13.69^{+0.21}_{-0.11}$	$\chi^2_{\rm prior}$	2.03	7.47 ± 3.6
Ω_Λ	0.6944	0.6931 ± 0.0080	$z_{\rm drag}$	1059.89	$1060.61^{+0.68}_{-0.90}$	$\chi^2_{\rm CMB}$	11270.4	11286.4 ± 5.8
$\Omega_{\rm m}$	0.3056	0.3069 ± 0.0080	$r_{\rm drag}$	146.96	$145.1^{+2.4}_{-1.2}$	$\chi^2_{\rm BAO}$	4.37	5.10 ± 1.1
$\Omega_{\rm m} h^2$	0.14243	$0.1461^{+0.0026}_{-0.0045}$	$k_{\rm D}$	0.14072	$0.14212^{+0.00099}_{-0.0017}$			

Best-fit $\chi^2_{\rm eff} = 11983.85$; $\bar{\chi}^2_{\rm eff} = 12005.95$; $R - 1 = 0.00629$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.15 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.55 plik_dx11dr2_HM_v18_TT: 766.65 Hubble - H070p6: 0.49 SN - JLA December_2013: 706.61

12.26 base_nnu_meffsterile_plikHM_TTTEEE_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022287	0.02241 ± 0.00017	$\boldsymbol{A_{143}^{dustTE}}$	0.155	0.154 ± 0.054	r_*	144.80	$143.6^{+1.2}_{-0.49}$
$\boldsymbol{\Omega_c h^2}$	0.11878	$0.1191^{+0.0030}_{-0.0023}$	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.336	0.336 ± 0.080	$100\theta_*$	1.041121	$1.04087^{+0.00041}_{-0.00034}$
$\boldsymbol{100\theta_{MC}}$	1.040930	1.04075 ± 0.00035	$\boldsymbol{A_{217}^{dustTE}}$	1.665	1.66 ± 0.26	D_A/Gpc	13.909	$13.80^{+0.11}_{-0.047}$
$\boldsymbol{\tau}$	0.0660	$0.072^{+0.013}_{-0.015}$	$\boldsymbol{c_{100}}$	0.99814	0.99812 ± 0.00076	z_{drag}	1059.666	$1060.18^{+0.40}_{-0.59}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.002	< 0.228	$\boldsymbol{c_{217}}$	0.99606	0.9961 ± 0.0014	r_{drag}	147.50	$146.3^{+1.3}_{-0.52}$
$\boldsymbol{N_{eff}}$	3.047	< 3.20	H_0	67.71	$67.94^{+0.53}_{-0.83}$	k_D	0.14037	$0.14134^{+0.00048}_{-0.00099}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0634	$3.078^{+0.026}_{-0.030}$	Ω_Λ	0.6909	0.6872 ± 0.0072	$100\theta_D$	0.160914	$0.16107^{+0.00021}_{-0.00031}$
$\boldsymbol{n_s}$	0.9667	$0.9699^{+0.0051}_{-0.0070}$	Ω_m	0.3091	0.3128 ± 0.0072	z_{eq}	3370.8	3326^{+54}_{-27}
$\boldsymbol{y_{cal}}$	1.00011	1.0003 ± 0.0025	$\Omega_m h^2$	0.14173	$0.1443^{+0.0014}_{-0.0026}$	k_{eq}	0.010289	$0.01026^{+0.00016}_{-0.000098}$
$\boldsymbol{A_{217}^{CIB}}$	68.0	65.2 ± 6.6	$\Omega_\nu h^2$	0.00066	$0.00280^{+0.00061}_{-0.0023}$	$100\theta_{eq}$	0.8187	$0.8286^{+0.0052}_{-0.012}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^3$	0.09597	$0.09806^{+0.00082}_{-0.0024}$	$100\theta_{s,eq}$	0.45228	$0.4574^{+0.0027}_{-0.0061}$
$\boldsymbol{A_{143}^{tSZ}}$	7.31	5.18 ± 1.9	σ_8	0.8154	$0.796^{+0.024}_{-0.016}$	$r_{drag}/D_V(0.57)$	0.071712	0.07148 ± 0.00039
$\boldsymbol{A_{100}^{PS}}$	257.5	264 ± 27	$\sigma_8\Omega_m^{0.5}$	0.4534	$0.445^{+0.012}_{-0.0079}$	$H(0.57)$	93.03	$93.59^{+0.31}_{-0.81}$
$\boldsymbol{A_{143}^{PS}}$	38.6	45 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6080	$0.596^{+0.016}_{-0.010}$	$D_A(0.57)$	1386.3	$1380^{+14}_{-7.3}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	40^{+10}_{-10}	$\sigma_8/h^{0.5}$	0.9909	$0.966^{+0.027}_{-0.016}$	$F_{AP}(0.57)$	0.67543	0.6763 ± 0.0018
$\boldsymbol{A_{217}^{PS}}$	96.3	96 ± 10	$\langle d^2\rangle^{1/2}$	2.4541	2.459 ± 0.025	$f\sigma_8(0.57)$	0.4735	$0.464^{+0.013}_{-0.0083}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.86	z_{re}	8.83	9.35 ± 1.3	$\sigma_8(0.57)$	0.6072	$0.592^{+0.018}_{-0.013}$
$\boldsymbol{A_{100}^{dustTT}}$	7.50	7.54 ± 1.9	$10^9 A_s$	2.140	$2.173^{+0.055}_{-0.067}$	f_{2000}^{143}	29.82	30.9 ± 2.7
$\boldsymbol{A_{143}^{dustTT}}$	9.11	9.11 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8755	$1.882^{+0.012}_{-0.014}$	$f_{2000}^{143\times217}$	32.54	33.3 ± 1.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.64	17.3 ± 4.1	D_{40}	1228.7	1225 ± 13	f_{2000}^{217}	106.08	106.8 ± 1.9
$\boldsymbol{A_{217}^{dustTT}}$	81.7	81.6 ± 7.4	D_{220}	5723.5	5728 ± 39	$\chi^2_{lensing}$	9.64	10.2 ± 1.7
$\boldsymbol{A_{100}^{dustEE}}$	0.0814	0.0817 ± 0.0057	D_{810}	2533.7	2535 ± 14	χ^2_{lowTEB}	10495.23	10495.5 ± 1.2
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04909	0.0493 ± 0.0050	D_{1420}	814.70	814.2 ± 4.7	χ^2_{plik}	2435.2	2455.5 ± 7.0
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0999	0.099 ± 0.033	D_{2000}	230.18	229.5 ± 1.6	χ^2_{6DF}	0.0155	0.086 ± 0.099
$\boldsymbol{A_{143}^{dustEE}}$	0.1005	0.1007 ± 0.0069	$n_{s,0.002}$	0.9667	$0.9699^{+0.0051}_{-0.0070}$	χ^2_{MGS}	1.343	1.14 ± 0.47
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2245	0.224 ± 0.046	Y_P	0.24536	$0.24709^{+0.00062}_{-0.0018}$	$\chi^2_{DR11CMASS}$	2.42	3.05 ± 0.85
$\boldsymbol{A_{217}^{dustEE}}$	0.651	0.65 ± 0.13	Y_P^{BBN}	0.24669	$0.24842^{+0.00062}_{-0.0018}$	$\chi^2_{DR11LOWZ}$	0.54	0.99 ± 0.67
$\boldsymbol{A_{100}^{dustTE}}$	0.1395	0.141 ± 0.038	10^5D/H	2.6072	$2.628^{+0.031}_{-0.037}$	χ^2_{prior}	7.12	19.7 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1303	0.131 ± 0.029	Age/Gyr	13.800	$13.71^{+0.11}_{-0.041}$	χ^2_{CMB}	12940.0	12961.1 ± 6.9
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.305	0.303 ± 0.084	z_*	1089.919	$1090.07^{+0.26}_{-0.29}$	χ^2_{BAO}	4.33	5.26 ± 1.2

Best-fit $\chi^2_{eff} = 12951.48$; $\bar{\chi}^2_{eff} = 12986.10$; $R - 1 = 0.01261$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.42 DR11LOWZ: 0.54 CMB - smica_g30_ftl_full_pp: 9.64 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.23 plik_dx11dr2_HM_v18_TTT

2435.16

12.27 base_nnu_meffsterile_plikHM_TTTEEE_lowTEB_lensing_BAO_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022295	0.02243 ± 0.00017	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.340	0.336 ± 0.080	D_A/Gpc	13.903	$13.79^{+0.12}_{-0.050}$
$\boldsymbol{\Omega_c h^2}$	0.11897	$0.1193^{+0.0030}_{-0.0024}$	$\boldsymbol{A^{dustTE}_{217}}$	1.662	1.66 ± 0.26	z_{drag}	1059.70	$1060.24^{+0.41}_{-0.61}$
$\boldsymbol{100\theta_{MC}}$	1.040936	$1.04075^{+0.00038}_{-0.00034}$	$\boldsymbol{c_{100}}$	0.99815	0.99811 ± 0.00076	r_{drag}	147.44	$146.2^{+1.4}_{-0.56}$
$\boldsymbol{\tau}$	0.0650	$0.073^{+0.013}_{-0.015}$	$\boldsymbol{c_{217}}$	0.99609	0.9961 ± 0.0014	k_D	0.14044	$0.14140^{+0.00050}_{-0.0011}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.000	< 0.216	H_0	67.67	$68.05^{+0.54}_{-0.87}$	$100\theta_D$	0.160899	$0.16108^{+0.00022}_{-0.00033}$
$\boldsymbol{N_{eff}}$	3.047	< 3.21	Ω_Λ	0.6901	0.6881 ± 0.0071	z_{eq}	3375.5	3326^{+52}_{-26}
$\boldsymbol{\ln(10^{10}A_s)}$	3.0617	$3.080^{+0.026}_{-0.030}$	Ω_m	0.3099	0.3119 ± 0.0071	k_{eq}	0.010303	$0.01026^{+0.00016}_{-0.00010}$
$\boldsymbol{n_s}$	0.9662	$0.9706^{+0.0052}_{-0.0072}$	$\Omega_m h^2$	0.14191	$0.1444^{+0.0015}_{-0.0027}$	$100\theta_{eq}$	0.8179	$0.8286^{+0.0051}_{-0.011}$
$\boldsymbol{y_{cal}}$	0.99989	1.0003 ± 0.0025	$\Omega_\nu h^2$	0.00065	$0.00269^{+0.00058}_{-0.0022}$	$100\theta_{s,eq}$	0.45184	$0.4574^{+0.0026}_{-0.0058}$
$\boldsymbol{A^{CIB}_{217}}$	67.8	65.2 ± 6.6	$\Omega_m h^3$	0.09603	$0.09827^{+0.00090}_{-0.0026}$	$r_{drag}/D_V(0.57)$	0.071664	0.07153 ± 0.00039
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	σ_8	0.8154	$0.798^{+0.023}_{-0.015}$	$H(0.57)$	93.02	$93.69^{+0.34}_{-0.88}$
$\boldsymbol{A^{tSZ}_{143}}$	7.31	5.16 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4540	$0.446^{+0.012}_{-0.0077}$	$D_A(0.57)$	1386.9	$1378^{+15}_{-7.6}$
$\boldsymbol{A^{PS}_{100}}$	257.0	264 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6084	$0.596^{+0.016}_{-0.010}$	$F_{AP}(0.57)$	0.67564	0.6761 ± 0.0018
$\boldsymbol{A^{PS}_{143}}$	38.5	45 ± 8	$\sigma_8/h^{0.5}$	0.9913	$0.967^{+0.026}_{-0.016}$	$f\sigma_8(0.57)$	0.4737	$0.464^{+0.013}_{-0.0081}$
$\boldsymbol{A^{PS}_{143\times217}}$	32.4	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4547	2.458 ± 0.025	$\sigma_8(0.57)$	0.6070	$0.594^{+0.018}_{-0.012}$
$\boldsymbol{A^{PS}_{217}}$	96.3	96 ± 10	z_{re}	8.74	9.44 ± 1.3	f^{143}_{2000}	29.77	30.9 ± 2.7
$\boldsymbol{A^{kSZ}}$	0.00	< 4.90	$10^9 A_s$	2.136	$2.178^{+0.056}_{-0.067}$	$f^{143\times217}_{2000}$	32.53	33.3 ± 1.9
$\boldsymbol{A^{dustTT}_{100}}$	7.43	7.54 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8758	$1.883^{+0.012}_{-0.014}$	f^{217}_{2000}	106.04	106.7 ± 1.9
$\boldsymbol{A^{dustTT}_{143}}$	9.06	9.12 ± 1.8	D_{40}	1229.4	1224 ± 13	$\chi^2_{lensing}$	9.71	10.2 ± 1.7
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.69	17.3 ± 4.1	D_{220}	5723.5	5729 ± 39	χ^2_{lowTEB}	10495.32	10495.4 ± 1.2
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.6 ± 7.4	D_{810}	2533.2	2535 ± 14	χ^2_{plik}	2434.9	2455.6 ± 7.1
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0818 ± 0.0057	D_{1420}	814.47	814.2 ± 4.7	χ^2_{H070p6}	0.779	0.63 ± 0.31
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04915	0.0494 ± 0.0050	D_{2000}	230.12	229.5 ± 1.6	χ^2_{6DF}	0.0216	0.076 ± 0.091
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0994	0.099 ± 0.032	$n_{s,0.002}$	0.9662	$0.9706^{+0.0052}_{-0.0072}$	χ^2_{MGS}	1.279	1.19 ± 0.47
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1008 ± 0.0068	Y_P	0.24537	$0.24723^{+0.00069}_{-0.0019}$	$\chi^2_{DR11CMASS}$	2.450	2.98 ± 0.78
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2232	0.224 ± 0.046	Y_P^{BBN}	0.24670	$0.24857^{+0.00069}_{-0.0019}$	$\chi^2_{DR11LOWZ}$	0.61	0.91 ± 0.64
$\boldsymbol{A^{dustEE}_{217}}$	0.655	0.65 ± 0.13	$10^5\mathrm{D/H}$	2.6057	$2.628^{+0.031}_{-0.039}$	χ^2_{prior}	7.14	19.7 ± 5.6
$\boldsymbol{A^{dustTE}_{100}}$	0.1410	0.141 ± 0.038	Age/Gyr	13.800	$13.70^{+0.12}_{-0.045}$	χ^2_{CMB}	12940.0	12961.3 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1320	0.131 ± 0.029	z_*	1089.925	$1090.07^{+0.26}_{-0.30}$	χ^2_{BAO}	4.36	5.16 ± 1.1
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.303 ± 0.084	r_*	144.75	$143.6^{+1.3}_{-0.53}$			
$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.154 ± 0.054	$100\theta_*$	1.041123	$1.04086^{+0.00043}_{-0.00035}$			

Best-fit $\chi^2_{\rm eff} = 12952.25$; $\bar{\chi}^2_{\rm eff} = 12986.75$; $R - 1 = 0.01360$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.45 DR11LOWZ: 0.61 CMB - smica_g30_ftl_full_pp: 9.71 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.32 plik_dx11dr2_HM_v18_TTT
2434.95 Hubble - H070p6: 0.78

12.28 base_nnu_meffsterile_plikHM_TTTEEE_lowTEB_lensing_BAO_post_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.022305	0.02243 ± 0.00017	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.339	0.335 ± 0.080	D_A/Gpc	13.899	$13.79^{+0.12}_{-0.050}$
$\mathbf{\Omega_c h^2}$	0.11889	$0.1192^{+0.0030}_{-0.0025}$	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.664	1.66 ± 0.26	z_{drag}	1059.70	$1060.25^{+0.41}_{-0.61}$
$\mathbf{100\theta_{MC}}$	1.040899	$1.04076^{+0.00038}_{-0.00034}$	$\boldsymbol{c_{100}}$	0.99819	0.99811 ± 0.00076	r_{drag}	147.39	$146.2^{+1.4}_{-0.55}$
$\boldsymbol{\tau}$	0.0676	$0.073^{+0.013}_{-0.015}$	$\boldsymbol{c_{217}}$	0.99606	0.9961 ± 0.0014	k_D	0.14045	$0.14139^{+0.00050}_{-0.0011}$
$\boldsymbol{m^{\mathrm{eff}}_{\nu,\,\mathrm{sterile}}}$	0.000	< 0.209	H_0	67.83	$68.11^{+0.53}_{-0.87}$	$100\theta_D$	0.160929	$0.16108^{+0.00022}_{-0.00034}$
$\boldsymbol{N_{\mathrm{eff}}}$	3.059	< 3.21	Ω_Λ	0.6917	0.6888 ± 0.0069	z_{eq}	3368.3	3325^{+51}_{-26}
$\mathbf{\ln(10^{10} A_s)}$	3.0669	$3.081^{+0.026}_{-0.030}$	Ω_m	0.3083	0.3112 ± 0.0069	k_{eq}	0.010289	$0.01026^{+0.00016}_{-0.00010}$
$\boldsymbol{n_s}$	0.9674	$0.9709^{+0.0052}_{-0.0072}$	$\Omega_m h^2$	0.14184	$0.1443^{+0.0015}_{-0.0027}$	$100\theta_{\mathrm{eq}}$	0.8192	$0.8288^{+0.0050}_{-0.011}$
$\boldsymbol{y_{\mathrm{cal}}}$	1.00005	1.0003 ± 0.0025	$\Omega_\nu h^2$	0.00065	$0.00264^{+0.00055}_{-0.0022}$	$100\theta_{s,\mathrm{eq}}$	0.45252	$0.4575^{+0.0025}_{-0.0058}$
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	67.9	65.1 ± 6.6	$\Omega_m h^3$	0.09622	$0.09828^{+0.00091}_{-0.0026}$	$r_{\mathrm{drag}}/D_V(0.57)$	0.071757	0.07157 ± 0.00038
$\boldsymbol{\xi^{\mathrm{tSZ\times CIB}}}$	0.01	—	σ_8	0.8172	$0.799^{+0.023}_{-0.015}$	$H(0.57)$	93.14	$93.71^{+0.34}_{-0.89}$
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	7.30	5.17 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4537	$0.446^{+0.012}_{-0.0076}$	$D_A(0.57)$	1384.3	$1377^{+15}_{-7.6}$
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	256.9	264 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6089	$0.597^{+0.016}_{-0.010}$	$F_{\mathrm{AP}}(0.57)$	0.67521	0.6759 ± 0.0018
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	38.7	45 ± 8	$\sigma_8/h^{0.5}$	0.9922	$0.968^{+0.026}_{-0.016}$	$f\sigma_8(0.57)$	0.4743	$0.465^{+0.013}_{-0.0081}$
$\boldsymbol{A^{PS}_{143\times217}}$	32.6	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4556	2.458 ± 0.025	$\sigma_8(0.57)$	0.6087	$0.594^{+0.018}_{-0.012}$
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	96.3	96 ± 10	z_{re}	8.99	9.48 ± 1.3	f^{143}_{2000}	29.80	30.8 ± 2.7
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.01	< 4.89	$10^9 A_s$	2.148	$2.179^{+0.056}_{-0.067}$	$f^{143\times217}_{2000}$	32.53	33.2 ± 1.9
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.47	7.54 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8758	$1.883^{+0.012}_{-0.014}$	f^{217}_{2000}	106.03	106.7 ± 1.9
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	9.01	9.12 ± 1.8	D_{40}	1227.9	1224 ± 13	$\chi^2_{\mathrm{lensing}}$	9.83	10.2 ± 1.7
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.57	17.3 ± 4.1	D_{220}	5722.9	5729 ± 39	χ^2_{lowTEB}	10495.20	10495.4 ± 1.2
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	81.7	81.6 ± 7.4	D_{810}	2533.4	2535 ± 14	χ^2_{plik}	2435.1	2455.7 ± 7.1
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0816	0.0818 ± 0.0057	D_{1420}	814.62	814.3 ± 4.7	χ^2_{H070p6}	0.693	0.61 ± 0.30
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.04935	0.0495 ± 0.0050	D_{2000}	230.17	229.5 ± 1.6	χ^2_{JLA}	706.663	706.78 ± 0.21
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.1005	0.099 ± 0.032	$n_{s,0.002}$	0.9674	$0.9709^{+0.0052}_{-0.0072}$	χ^2_{6DF}	0.0106	0.067 ± 0.083
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1006	0.1008 ± 0.0068	Y_P	0.24554	$0.24724^{+0.00069}_{-0.0019}$	χ^2_{MGS}	1.407	1.24 ± 0.47
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2245	0.224 ± 0.046	Y_P^{BBN}	0.24687	$0.24857^{+0.00069}_{-0.0019}$	$\chi^2_{\mathrm{DR11CMASS}}$	2.412	2.92 ± 0.70
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.651	0.65 ± 0.13	$10^5\mathrm{D/H}$	2.6080	$2.626^{+0.031}_{-0.039}$	$\chi^2_{\mathrm{DR11LOWZ}}$	0.49	0.85 ± 0.60
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1398	0.141 ± 0.038	Age/Gyr	13.787	$13.70^{+0.12}_{-0.045}$	χ^2_{prior}	7.11	19.7 ± 5.6
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1313	0.131 ± 0.029	z_*	1089.917	$1090.05^{+0.26}_{-0.30}$	χ^2_{CMB}	12940.2	12961.3 ± 6.9
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.304	0.303 ± 0.084	r_*	144.70	$143.6^{+1.3}_{-0.53}$	χ^2_{BAO}	4.32	5.07 ± 1.0
$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.155	0.154 ± 0.054	$100\theta_*$	1.041085	$1.04087^{+0.00044}_{-0.00035}$			

Best-fit $\chi^2_{\mathrm{eff}} = 13658.95$; $\bar{\chi}^2_{\mathrm{eff}} = 13693.43$; $R - 1 = 0.01427$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.49 CMB - smica_g30_ftl_full_pp: 9.83 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.20 plik_dx11dr2_HM_v18_TTT 2435.15 Hubble - H070p6: 0.69 SN - JLA December_2013: 706.66

12.29 base_nnu_meffsterile_CamSpecHM_TT_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022251	$0.02246^{+0.00023}_{-0.00026}$ (-0.0σ)	Ω_Λ	0.6925	0.6914 ± 0.0084 (-0.0σ)	$k_{\rm D}$	0.14037	$0.14191^{+0.00089}_{-0.0016}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.11880	0.1203 ± 0.0039 (-0.1σ)	$\Omega_{\rm m}$	0.3075	0.3086 ± 0.0084 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.161053	$0.16137^{+0.00039}_{-0.00059}$ (-0.1σ)
$\boldsymbol{100\theta_{\rm MC}}$	1.041009	1.04080 ± 0.00049 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14184	$0.1457^{+0.0023}_{-0.0042}$ (-0.1σ)	$z_{\rm eq}$	3358.4	3306^{+55}_{-35} (-0.1σ)
$\boldsymbol{\tau}$	0.0699	$0.081^{+0.016}_{-0.018}$ $(+0.1\sigma)$	$\Omega_\nu h^2$	0.00079	$0.00286^{+0.00070}_{-0.0022}$ $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8210	$0.8325^{+0.0069}_{-0.012}$ $(+0.1\sigma)$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	0.014	< 0.238 $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09633	$0.1001^{+0.0018}_{-0.0045}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071816	0.07172 ± 0.00046 $(+0.0\sigma)$
$\boldsymbol{N_{\rm eff}}$	3.073	< 3.35 (-0.1σ)	σ_8	0.8147	$0.800^{+0.025}_{-0.017}$ $(+0.0\sigma)$	$H(0.57)$	93.19	$94.37^{+0.66}_{-1.5}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0673	$3.096^{+0.032}_{-0.039}$ $(+0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4518	$0.444^{+0.013}_{-0.0088}$ $(+0.0\sigma)$	$D_{\rm A}(0.57)$	1383.1	1367^{+24}_{-13} $(+0.1\sigma)$
$\boldsymbol{n_{\rm s}}$	0.9697	$0.9780^{+0.0072}_{-0.011}$ $(+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6067	$0.596^{+0.018}_{-0.011}$ $(+0.0\sigma)$	$F_{\rm AP}(0.57)$	0.67502	0.6753 ± 0.0021 $(+0.0\sigma)$
$\boldsymbol{y_{\rm cal}}$	0.99960	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	0.9886	$0.965^{+0.028}_{-0.017}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.4728	$0.465^{+0.014}_{-0.0089}$ (-0.0σ)
$\boldsymbol{A^{\rm PS}_{100}}$	251.8	252 ± 22 (-0.5σ)	$\langle d^2\rangle^{1/2}$	2.4473	2.450 ± 0.027 (-0.0σ)	$\sigma_8(0.57)$	0.6071	$0.596^{+0.020}_{-0.014}$ $(+0.0\sigma)$
$\boldsymbol{A^{\rm PS}_{143}}$	36.2	42 ± 8 (-0.6σ)	$z_{\rm re}$	9.21	10.2 ± 1.5 $(+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.24661	$0.2495^{+0.0012}_{-0.0032}$ (-0.3σ)
$\boldsymbol{A^{\rm PS}_{217}}$	93.8	96 ± 10 $(+0.0\sigma)$	$10^9 A_{\rm s}$	2.148	$2.213^{+0.068}_{-0.087}$ $(+0.0\sigma)$	f^{143}_{2000}	30.12	30.8 ± 3.1 (-0.5σ)
$\boldsymbol{A^{\rm CIB}_{217}}$	48.4	48 ± 7 (-2.7σ)	$10^9 A_{\rm s}e^{-2\tau}$	1.8681	$1.882^{+0.014}_{-0.018}$ (-0.3σ)	f^{217}_{2000}	107.14	107.8 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{\rm tSZ}_{143}}$	2.95	$2.93^{+0.97}_{-2.7}$ (-0.9σ)	D_{40}	1217.8	1209 ± 15 (-0.4σ)	$f^{143\times217}_{2000}$	32.49	33.3 ± 2.3 (-0.4σ)
$\boldsymbol{r^{\rm PS}_{143\times217}}$	0.407	$0.508^{+0.096}_{-0.12}$	D_{220}	5688.9	5700 ± 40 (-0.5σ)	$\chi^2_{\rm lensing}$	8.94	9.68 ± 1.3 (-0.0σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.001	< 0.566 (-0.2σ)	D_{810}	2524.8	2532 ± 14 (-0.3σ)	$\chi^2_{\rm lowTEB}$	10494.57	10494.8 ± 1.5 (-0.2σ)
$\boldsymbol{A^{\rm kSZ}}$	5.74	> 4.78 $(+0.6\sigma)$	D_{1420}	812.2	813.4 ± 5.1 (-0.0σ)	$\chi^2_{\rm CamSpec}$	8046.9	8063.0 ± 6.0
$\boldsymbol{A^{\rm dust}_{100}}$	1.008	0.997 ± 0.19	$n_{\rm s,0.002}$	0.9697	$0.9780^{+0.0072}_{-0.011}$ $(+0.1\sigma)$	$\chi^2_{\rm 6DF}$	0.0060	0.062 ± 0.083 (-0.0σ)
$\boldsymbol{A^{\rm dust}_{143}}$	1.069	1.03 ± 0.18	$Y_{\rm P}$	0.24528	$0.2481^{+0.0012}_{-0.0032}$ (-0.3σ)	$\chi^2_{\rm MGS}$	1.47	1.44 ± 0.61 $(+0.0\sigma)$
$\boldsymbol{A^{\rm dust}_{217}}$	1.208	1.21 ± 0.12	Age/Gyr	13.780	$13.61^{+0.21}_{-0.091}$ $(+0.1\sigma)$	$\chi^2_{\rm DR11CMASS}$	2.401	2.97 ± 0.77 (-0.0σ)
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.965	0.99 ± 0.18	z_*	1089.982	$1090.19^{+0.37}_{-0.45}$ (-0.1σ)	$\chi^2_{\rm DR11LOWZ}$	0.422	0.69 ± 0.63 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99655	0.99676 ± 0.00096 (-1.4σ)	r_*	144.69	$142.8^{+2.1}_{-0.98}$ $(+0.1\sigma)$	$\chi^2_{\rm prior}$	3.78	8.38 ± 3.5 $(+0.2\sigma)$
$\boldsymbol{c_{217}}$	0.99750	0.9975 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04121	$1.04087^{+0.00062}_{-0.00051}$ $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18550.4	18567.5 ± 6.0 $(+1265.9\sigma)$
$\boldsymbol{\beta^1_1}$	-0.04	-0.1 ± 1.0	$z_{\rm drag}$	1059.59	$1060.46^{+0.65}_{-0.88}$ (-0.1σ)	$\chi^2_{\rm BAO}$	4.302	5.17 ± 1.1 (-0.0σ)
H_0	67.91	$68.72^{+0.79}_{-1.4}$ (-0.1σ)	$r_{\rm drag}$	147.40	$145.4^{+2.2}_{-1.0}$ $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18558.49$; $\Delta\chi^2_{\rm eff} = 7281.84$; $\bar{\chi}^2_{\rm eff} = 18581.02$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.07$; $R - 1 = 0.00932$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 (Δ -0.00) MGS: 1.47 (Δ 0.07) DR11CMASS: 2.40 (Δ -0.01) DR11LOWZ: 0.42 (Δ -0.06) CMB - smica_g30_ftl_full_pp: 8.94 (Δ -0.25) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.57 (Δ -0.18) CamSpec like_v9.10CMH_unified: 8046.88

12.30 base_nnu_meffsterile_CamSpecHM_TT_lowTEB_lensing_BAO_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02248 ± 0.00024 (-0.0σ)	Ω_Λ	0.6922 ± 0.0081 (-0.0σ)	k_D	$0.14202^{+0.00095}_{-0.0017}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.1206 ± 0.0038 (-0.1σ)	Ω_m	0.3078 ± 0.0081 $(+0.0\sigma)$	$100\theta_D$	$0.16141^{+0.00041}_{-0.00061}$ (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04079 ± 0.00049 $(+0.1\sigma)$	$\Omega_m h^2$	$0.1459^{+0.0025}_{-0.0043}$ (-0.1σ)	z_{eq}	3305^{+53}_{-36} (-0.0σ)
$\boldsymbol{\tau}$	$0.082^{+0.016}_{-0.018}$ $(+0.1\sigma)$	$\Omega_\nu h^2$	$0.00277^{+0.00072}_{-0.0021}$ $(+0.1\sigma)$	$100\theta_{eq}$	$0.8326^{+0.0070}_{-0.011}$ $(+0.0\sigma)$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	< 0.231 $(+0.1\sigma)$	$\Omega_m h^3$	$0.1005^{+0.0020}_{-0.0047}$ (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07176 ± 0.00045 (-0.0σ)
$\boldsymbol{N_{eff}}$	< 3.38 (-0.1σ)	σ_8	$0.802^{+0.025}_{-0.017}$ $(+0.0\sigma)$	$H(0.57)$	$94.50^{+0.73}_{-1.6}$ (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.099^{+0.033}_{-0.039}$ $(+0.0\sigma)$	$\sigma_8\Omega_m^{0.5}$	$0.445^{+0.012}_{-0.0088}$ $(+0.0\sigma)$	$D_A(0.57)$	1364^{+24}_{-14} $(+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9790^{+0.0077}_{-0.011}$ $(+0.1\sigma)$	$\sigma_8\Omega_m^{0.25}$	$0.597^{+0.017}_{-0.011}$ $(+0.0\sigma)$	$F_{AP}(0.57)$	0.6751 ± 0.0021 $(+0.0\sigma)$
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	$0.966^{+0.027}_{-0.017}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	$0.466^{+0.014}_{-0.0089}$ $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{100}}$	252 ± 23 (-0.5σ)	$\langle d^2\rangle^{1/2}$	2.449 ± 0.027 (-0.0σ)	$\sigma_8(0.57)$	$0.598^{+0.019}_{-0.014}$ (-0.0σ)
$\boldsymbol{A^{PS}_{143}}$	42 ± 8 (-0.6σ)	z_{re}	10.3 ± 1.5 $(+0.1\sigma)$	Y_P^{BBN}	$0.2497^{+0.0013}_{-0.0033}$ (-0.3σ)
$\boldsymbol{A^{PS}_{217}}$	96 ± 10 $(+0.0\sigma)$	$10^9 A_s$	$2.219^{+0.070}_{-0.088}$ $(+0.0\sigma)$	f^{143}_{2000}	30.9 ± 3.1 (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	48 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	$1.883^{+0.014}_{-0.019}$ (-0.3σ)	f^{217}_{2000}	107.8 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$2.92^{+0.95}_{-2.7}$ (-0.9σ)	D_{40}	1208 ± 15 (-0.4σ)	$f^{143\times217}_{2000}$	33.4 ± 2.4 (-0.4σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.509^{+0.096}_{-0.11}$	D_{220}	5700 ± 40 (-0.5σ)	$\chi^2_{lensing}$	9.66 ± 1.3 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.568 (-0.1σ)	D_{810}	2532 ± 14 (-0.3σ)	χ^2_{lowTEB}	10494.8 ± 1.6 (-0.1σ)
$\boldsymbol{A^{kSZ}}$	> 4.78 $(+0.6\sigma)$	D_{1420}	813.4 ± 5.1 (-0.0σ)	$\chi^2_{CamSpec}$	8063.1 ± 6.0
$\boldsymbol{A^{dust}_{100}}$	0.997 ± 0.19	$n_{s,0.002}$	$0.9790^{+0.0077}_{-0.011}$ $(+0.1\sigma)$	χ^2_{H070p6}	0.38 ± 0.32 $(+0.1\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	Y_P	$0.2484^{+0.0013}_{-0.0033}$ (-0.3σ)	χ^2_{6DF}	0.055 ± 0.074 (-0.0σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	Age/Gyr	$13.59^{+0.22}_{-0.10}$ $(+0.1\sigma)$	χ^2_{MGS}	1.49 ± 0.60 (-0.0σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	z_*	$1090.19^{+0.38}_{-0.44}$ (-0.1σ)	$\chi^2_{DR11CMASS}$	2.93 ± 0.71 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99677 ± 0.00096 (-1.4σ)	r_*	$142.7^{+2.2}_{-1.1}$ $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.63 ± 0.58 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9975 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	$1.04084^{+0.00060}_{-0.00052}$ $(+0.1\sigma)$	χ^2_{prior}	8.39 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	z_{drag}	$1060.53^{+0.67}_{-0.88}$ (-0.1σ)	χ^2_{CMB}	18567.6 ± 6.0 $(+1262.7\sigma)$
H_0	$68.86^{+0.83}_{-1.4}$ (-0.1σ)	r_{drag}	$145.3^{+2.3}_{-1.1}$ $(+0.1\sigma)$	χ^2_{BAO}	5.11 ± 1.0 (-0.0σ)

$\bar{\chi}^2_{eff} = 18581.48$; $\Delta\bar{\chi}^2_{eff} = 7282.14$; $R - 1 = 0.00917$

12.31 base_nnu_meffsterile_CamSpecHM_TT_lowTEB_lensing_BAO_post_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02250 ± 0.00024 (-0.0σ)	Ω_m	0.3068 ± 0.0079 (-0.0σ)	z_{eq}	3303^{+52}_{-36} (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1206^{+0.0040}_{-0.0035}$ (-0.1σ)	$\Omega_m h^2$	$0.1459^{+0.0026}_{-0.0044}$ (-0.1σ)	$100\theta_{eq}$	$0.8331^{+0.0069}_{-0.011}$ $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04077 ± 0.00050 $(+0.1\sigma)$	$\Omega_\nu h^2$	$0.00274^{+0.00069}_{-0.0021}$ $(+0.1\sigma)$	$r_{drag}/D_V(0.57)$	0.07181 ± 0.00044 $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.083 ± 0.017 $(+0.1\sigma)$	$\Omega_m h^3$	$0.1006^{+0.0021}_{-0.0049}$ (-0.1σ)	$H(0.57)$	$94.57^{+0.76}_{-1.6}$ (-0.1σ)
$\boldsymbol{m^{eff}_{\nu,sterile}}$	< 0.227 $(+0.1\sigma)$	σ_8	$0.802^{+0.024}_{-0.017}$ $(+0.0\sigma)$	$D_A(0.57)$	1363^{+25}_{-14} $(+0.1\sigma)$
$\boldsymbol{N_{eff}}$	< 3.39 (-0.1σ)	$\sigma_8\Omega_m^{0.5}$	$0.444^{+0.012}_{-0.0088}$ (-0.0σ)	$F_{AP}(0.57)$	0.6748 ± 0.0020 (-0.0σ)
$\boldsymbol{\ln(10^{10}A_s)}$	$3.100^{+0.034}_{-0.038}$ $(+0.0\sigma)$	$\sigma_8\Omega_m^{0.25}$	$0.597^{+0.017}_{-0.011}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	$0.466^{+0.013}_{-0.0088}$ (-0.0σ)
$\boldsymbol{n_s}$	$0.9796^{+0.0080}_{-0.011}$ $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.966^{+0.027}_{-0.017}$ $(+0.0\sigma)$	$\sigma_8(0.57)$	$0.598^{+0.019}_{-0.014}$ $(+0.0\sigma)$
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\langle d^2\rangle^{1/2}$	2.449 ± 0.027 (-0.0σ)	Y_P^{BBN}	$0.2498^{+0.0014}_{-0.0034}$ (-0.3σ)
$\boldsymbol{A^{PS}_{100}}$	252 ± 22 (-0.5σ)	z_{re}	10.4 ± 1.5 $(+0.1\sigma)$	f^{143}_{2000}	30.8 ± 3.1 (-0.4σ)
$\boldsymbol{A^{PS}_{143}}$	42 ± 8 (-0.6σ)	$10^9 A_s$	$2.222^{+0.072}_{-0.088}$ $(+0.0\sigma)$	f^{217}_{2000}	107.8 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{217}}$	96 ± 10 $(+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.882^{+0.015}_{-0.019}$ (-0.3σ)	$f^{143\times217}_{2000}$	33.4 ± 2.4 (-0.4σ)
$\boldsymbol{A^{CIB}_{217}}$	48 ± 7 (-2.7σ)	D_{40}	1208 ± 15 (-0.4σ)	$\chi^2_{lensing}$	9.65 ± 1.3 (-0.0σ)
$\boldsymbol{A^{tSZ}_{143}}$	$2.93^{+0.98}_{-2.7}$ (-0.9σ)	D_{220}	5701 ± 41 (-0.5σ)	χ^2_{lowTEB}	10494.8 ± 1.6 (-0.1σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.509^{+0.095}_{-0.11}$	D_{810}	2532 ± 14 (-0.3σ)	$\chi^2_{CamSpec}$	8063.2 ± 6.0
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.569 (-0.1σ)	D_{1420}	813.3 ± 5.1 (-0.0σ)	χ^2_{H070p6}	0.36 ± 0.30 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	> 4.74 $(+0.6\sigma)$	$n_{s,0.002}$	$0.9796^{+0.0080}_{-0.011}$ $(+0.1\sigma)$	χ^2_{JLA}	706.68 ± 0.18 (-0.0σ)
$\boldsymbol{A^{dust}_{100}}$	0.996 ± 0.19	Y_P	$0.2485^{+0.0014}_{-0.0034}$ (-0.3σ)	χ^2_{6DF}	0.049 ± 0.066 (-0.0σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	Age/Gyr	$13.58^{+0.22}_{-0.11}$ $(+0.1\sigma)$	χ^2_{MGS}	1.56 ± 0.60 $(+0.0\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	z_*	$1090.18^{+0.39}_{-0.44}$ (-0.1σ)	$\chi^2_{DR11CMASS}$	2.91 ± 0.67 (-0.0σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	r_*	$142.6^{+2.3}_{-1.1}$ $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.57 ± 0.53 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99677 ± 0.00096 (-1.4σ)	$100\theta_*$	$1.04083^{+0.00062}_{-0.00053}$ $(+0.1\sigma)$	χ^2_{prior}	8.36 ± 3.5 $(+0.2\sigma)$
$\boldsymbol{c_{217}}$	0.9975 ± 0.0018 $(+0.9\sigma)$	z_{drag}	$1060.56^{+0.68}_{-0.90}$ (-0.1σ)	χ^2_{CMB}	18567.7 ± 6.0 $(+1262.3\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_{drag}	$145.2^{+2.4}_{-1.2}$ $(+0.1\sigma)$	χ^2_{BAO}	5.08 ± 1.0 (-0.0σ)
H_0	$68.96^{+0.85}_{-1.4}$ (-0.0σ)	k_D	$0.14204^{+0.00098}_{-0.0017}$ (-0.1σ)		
Ω_Λ	0.6932 ± 0.0079 $(+0.0\sigma)$	$100\theta_D$	$0.16141^{+0.00042}_{-0.00061}$ (-0.1σ)		

$\bar{\chi}^2_{eff} = 19288.16$; $\Delta\bar{\chi}^2_{eff} = 7282.21$; $R - 1 = 0.02688$

12.32 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB_lensing_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022360	0.02247 ± 0.00016 $(+0.4\sigma)$	H_0	67.82	$68.01^{+0.50}_{-0.71}$ $(+0.1\sigma)$	k_D	0.14050	$0.14127^{+0.00047}_{-0.00084}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.11856	$0.1181^{+0.0034}_{-0.0021}$ (-0.3σ)	Ω_Λ	0.6919	0.6892 ± 0.0071 $(+0.3\sigma)$	$100\theta_D$	0.160807	$0.16091^{+0.00021}_{-0.00030}$ (-0.6σ)
$\boldsymbol{100\theta_{MC}}$	1.040908	$1.04081^{+0.00033}_{-0.00030}$ $(+0.2\sigma)$	Ω_m	0.3081	0.3108 ± 0.0071 (-0.3σ)	z_{eq}	3365.4	3312^{+64}_{-26} (-0.3σ)
$\boldsymbol{\tau}$	0.0673	0.073 ± 0.014 $(+0.1\sigma)$	$\Omega_m h^2$	0.14171	$0.1437^{+0.0014}_{-0.0024}$ (-0.3σ)	$100\theta_{eq}$	0.8200	$0.8318^{+0.0050}_{-0.014}$ $(+0.3\sigma)$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.014	< 0.266 $(+0.2\sigma)$	$\Omega_\nu h^2$	0.00080	$0.00317^{+0.00066}_{-0.0027}$ $(+0.2\sigma)$	$r_{drag}/D_V(0.57)$	0.071758	0.07159 ± 0.00039 $(+0.3\sigma)$
$\boldsymbol{N_{eff}}$	3.050	< 3.17 (-0.2σ)	$\Omega_m h^3$	0.09611	$0.09775^{+0.00064}_{-0.0019}$ (-0.2σ)	$H(0.57)$	93.108	$93.56^{+0.26}_{-0.65}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0628	3.077 ± 0.027 (-0.1σ)	σ_8	0.8128	$0.792^{+0.025}_{-0.017}$ (-0.2σ)	$D_A(0.57)$	1384.7	$1379^{+11}_{-6.8}$ (-0.0σ)
$\boldsymbol{n_s}$	0.9682	$0.9714^{+0.0048}_{-0.0063}$ $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.4511	$0.442^{+0.013}_{-0.0081}$ (-0.3σ)	$F_{AP}(0.57)$	0.67516	0.6758 ± 0.0018 (-0.3σ)
$\boldsymbol{y_{cal}}$	0.99996	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_m^{0.25}$	0.6055	$0.592^{+0.018}_{-0.011}$ (-0.3σ)	$f\sigma_8(0.57)$	0.4717	$0.461^{+0.014}_{-0.0089}$ (-0.3σ)
$\boldsymbol{A^{PS}_{100}}$	249.9	248 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	0.9869	$0.961^{+0.029}_{-0.018}$ (-0.2σ)	$\sigma_8(0.57)$	0.6055	$0.590^{+0.019}_{-0.013}$ (-0.2σ)
$\boldsymbol{A^{PS}_{143}}$	34.9	40 ± 8 (-0.6σ)	$\langle d^2\rangle^{1/2}$	2.4475	2.451 ± 0.026 (-0.3σ)	Y_P^{BBN}	0.24636	$0.24774^{+0.00044}_{-0.0014}$ (-0.5σ)
$\boldsymbol{A^{PS}_{217}}$	94.7	98 ± 10 $(+0.1\sigma)$	z_{re}	8.94	$9.42^{+1.3}_{-1.2}$ $(+0.1\sigma)$	f^{143}_{2000}	29.45	29.6 ± 2.7 (-0.5σ)
$\boldsymbol{A^{CIB}_{217}}$	47.3	46 ± 7 (-2.8σ)	$10^9 A_s$	2.139	2.169 ± 0.058 (-0.1σ)	f^{217}_{2000}	106.62	106.8 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	2.99	$3.18^{+1.4}_{-2.6}$ (-1.0σ)	$10^9 A_s e^{-2\tau}$	1.8692	$1.875^{+0.012}_{-0.013}$ (-0.6σ)	$f^{143\times217}_{2000}$	31.76	32.2 ± 2.0 (-0.6σ)
$\boldsymbol{r^{PS}_{143\times217}}$	0.397	$0.51^{+0.10}_{-0.12}$	D_{40}	1222.1	1218 ± 12 (-0.5σ)	$\chi^2_{lensing}$	9.12	9.87 ± 1.3 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.003	< 0.586 (-0.2σ)	D_{220}	5706.6	5710 ± 39 (-0.4σ)	χ^2_{lowTEB}	10494.78	10495.0 ± 1.2 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	5.78	$5.58^{+4.2}_{-1.6}$ $(+0.7\sigma)$	D_{810}	2527.3	2530 ± 13 (-0.4σ)	$\chi^2_{CamSpec}$	12937.4	12955.6 ± 6.3
$\boldsymbol{A^{dust}_{100}}$	0.996	0.99 ± 0.19	D_{1420}	813.65	814.1 ± 4.7 (-0.0σ)	χ^2_{6DF}	0.0101	0.065 ± 0.081 (-0.2σ)
$\boldsymbol{A^{dust}_{143}}$	1.044	1.03 ± 0.18	$n_{s,0.002}$	0.9682	$0.9714^{+0.0048}_{-0.0063}$ $(+0.2\sigma)$	χ^2_{MGS}	1.41	1.27 ± 0.49 $(+0.3\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.219	1.21 ± 0.12	Y_P	0.24503	$0.24641^{+0.00044}_{-0.0014}$ (-0.5σ)	$\chi^2_{DR11CMASS}$	2.416	2.92 ± 0.68 (-0.2σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.962	0.99 ± 0.18	Age/Gyr	13.791	$13.721^{+0.090}_{-0.032}$ $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.48	0.82 ± 0.60 (-0.2σ)
$\boldsymbol{c_{100}}$	0.99658	0.99676 ± 0.00098 (-1.8σ)	z_*	1089.803	1089.91 ± 0.27 (-0.6σ)	χ^2_{prior}	3.99	9.06 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99735	0.9972 ± 0.0018 $(+0.8\sigma)$	r_*	144.77	$143.9^{+1.0}_{-0.44}$ $(+0.2\sigma)$	χ^2_{CMB}	23441.3	23460.5 ± 6.3 $(+1528.7\sigma)$
$\boldsymbol{c_{TE}}$	1.00486	1.0053 ± 0.0044	$100\theta_*$	1.041109	$1.04095^{+0.00037}_{-0.00030}$ $(+0.2\sigma)$	χ^2_{BAO}	4.316	5.07 ± 0.99 (-0.2σ)
$\boldsymbol{c_{EE}}$	1.00133	1.0021 ± 0.0043	z_{drag}	1059.818	$1060.25^{+0.39}_{-0.51}$ $(+0.1\sigma)$			
$\boldsymbol{\beta^1_1}$	0.01	-0.1 ± 1.0	r_{drag}	147.44	$146.5^{+1.1}_{-0.46}$ $(+0.2\sigma)$			

Best-fit $\chi^2_{eff} = 23449.57$; $\Delta\chi^2_{eff} = 10498.09$; $\bar{\chi}^2_{eff} = 23474.59$; $\Delta\bar{\chi}^2_{eff} = 10488.49$; $R - 1 = 0.01373$

χ^2_{eff}: BAO - 6DF: 0.01 (Δ -0.00) MGS: 1.41 (Δ 0.06) DR11CMASS: 2.42 (Δ -0.01) DR11LOWZ: 0.48 (Δ -0.06) CMB - smica_g30_ftl_full_pp: 9.12 (Δ -0.53) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.78 (Δ -0.46) CamSpec like_v9.10CMH_unified: 12937.37

12.33 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB_lensing_BAO_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02248 ± 0.00016 $(+0.3\sigma)$	H_0	$68.10^{+0.50}_{-0.74}$ $(+0.1\sigma)$	k_D	$0.14130^{+0.00048}_{-0.00088}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1182^{+0.0034}_{-0.0022}$ (-0.4σ)	Ω_Λ	0.6900 ± 0.0070 $(+0.3\sigma)$	$100\theta_D$	$0.16092^{+0.00021}_{-0.00032}$ (-0.6σ)
$\boldsymbol{100\theta_{MC}}$	$1.04081^{+0.00034}_{-0.00030}$ $(+0.2\sigma)$	Ω_m	0.3100 ± 0.0070 (-0.3σ)	z_{eq}	3311^{+62}_{-25} (-0.3σ)
$\boldsymbol{\tau}$	0.073 ± 0.014 $(+0.1\sigma)$	$\Omega_m h^2$	$0.1437^{+0.0014}_{-0.0025}$ (-0.3σ)	$100\theta_{eq}$	$0.8318^{+0.0048}_{-0.014}$ $(+0.3\sigma)$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	< 0.255 $(+0.2\sigma)$	$\Omega_\nu h^2$	$0.00307^{+0.00060}_{-0.0027}$ $(+0.2\sigma)$	$r_{drag}/D_V(0.57)$	0.07163 ± 0.00039 $(+0.3\sigma)$
$\boldsymbol{N_{eff}}$	< 3.18 (-0.2σ)	$\Omega_m h^3$	$0.09787^{+0.00068}_{-0.0021}$ (-0.2σ)	$H(0.57)$	$93.62^{+0.27}_{-0.69}$ (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.078 ± 0.027 (-0.1σ)	σ_8	$0.794^{+0.025}_{-0.016}$ (-0.2σ)	$D_A(0.57)$	$1378^{+12}_{-6.8}$ (-0.0σ)
$\boldsymbol{n_s}$	$0.9719^{+0.0049}_{-0.0064}$ $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	$0.442^{+0.013}_{-0.0080}$ (-0.4σ)	$F_{AP}(0.57)$	0.6756 ± 0.0018 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_m^{0.25}$	$0.592^{+0.018}_{-0.011}$ (-0.3σ)	$f\sigma_8(0.57)$	$0.461^{+0.014}_{-0.0087}$ (-0.3σ)
$\boldsymbol{A^{PS}_{100}}$	247 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	$0.962^{+0.029}_{-0.017}$ (-0.2σ)	$\sigma_8(0.57)$	$0.591^{+0.020}_{-0.013}$ (-0.2σ)
$\boldsymbol{A^{PS}_{143}}$	40 ± 7 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.451 ± 0.026 (-0.3σ)	Y_P^{BBN}	$0.24782^{+0.00047}_{-0.0015}$ (-0.5σ)
$\boldsymbol{A^{PS}_{217}}$	98 ± 10 $(+0.1\sigma)$	z_{re}	$9.49^{+1.3}_{-1.2}$ $(+0.0\sigma)$	f^{143}_{2000}	29.5 ± 2.7 (-0.5σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.8σ)	$10^9 A_s$	2.173 ± 0.058 (-0.1σ)	f^{217}_{2000}	106.8 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.18^{+1.4}_{-2.6}$ (-1.0σ)	$10^9 A_s e^{-2\tau}$	$1.875^{+0.012}_{-0.013}$ (-0.6σ)	$f^{143\times217}_{2000}$	32.2 ± 2.0 (-0.6σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	1218 ± 12 (-0.5σ)	$\chi^2_{lensing}$	9.86 ± 1.3 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.586 (-0.2σ)	D_{220}	5711 ± 39 (-0.5σ)	χ^2_{lowTEB}	10495.0 ± 1.2 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	$5.59^{+4.2}_{-1.6}$ $(+0.7\sigma)$	D_{810}	2530 ± 13 (-0.4σ)	$\chi^2_{CamSpec}$	12955.7 ± 6.3
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{1420}	814.2 ± 4.7 (-0.0σ)	χ^2_{H070p6}	0.60 ± 0.27 (-0.1σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	$n_{s,0.002}$	$0.9719^{+0.0049}_{-0.0064}$ $(+0.2\sigma)$	χ^2_{6DF}	0.058 ± 0.075 (-0.2σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	Y_P	$0.24649^{+0.00046}_{-0.0015}$ (-0.5σ)	χ^2_{MGS}	1.32 ± 0.49 $(+0.3\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	Age/Gyr	$13.713^{+0.097}_{-0.034}$ $(+0.1\sigma)$	$\chi^2_{DR11CMASS}$	2.87 ± 0.63 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99676 ± 0.00097 (-1.8σ)	z_*	1089.89 ± 0.28 (-0.6σ)	$\chi^2_{DR11LOWZ}$	0.76 ± 0.57 (-0.2σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0017 $(+0.8\sigma)$	r_*	$143.8^{+1.1}_{-0.46}$ $(+0.2\sigma)$	χ^2_{prior}	9.10 ± 3.6 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0053 ± 0.0044	$100\theta_*$	$1.04095^{+0.00038}_{-0.00030}$ $(+0.2\sigma)$	χ^2_{CMB}	23460.5 ± 6.3 $(+1521.1\sigma)$
$\boldsymbol{c_{EE}}$	1.0022 ± 0.0043	z_{drag}	$1060.28^{+0.40}_{-0.52}$ $(+0.1\sigma)$	χ^2_{BAO}	5.01 ± 0.91 (-0.1σ)
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_{drag}	$146.4^{+1.1}_{-0.48}$ $(+0.2\sigma)$		

$\bar{\chi}^2_{eff} = 23475.24$; $\Delta\bar{\chi}^2_{eff} = 10488.49$; $R - 1 = 0.01817$

12.34 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowTEB_lensing_BAO_post_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02249 ± 0.00016 $(+0.3\sigma)$	H_0	$68.14^{+0.50}_{-0.74}$ $(+0.1\sigma)$	k_D	$0.14128^{+0.00048}_{-0.00088}$ (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	$0.1181^{+0.0034}_{-0.0022}$ (-0.4σ)	Ω_Λ	0.6906 ± 0.0068 $(+0.3\sigma)$	$100\theta_D$	$0.16092^{+0.00021}_{-0.00032}$ (-0.6σ)
$\boldsymbol{100\theta_{MC}}$	$1.04082^{+0.00034}_{-0.00030}$ $(+0.2\sigma)$	Ω_m	0.3094 ± 0.0068 (-0.3σ)	z_{eq}	3310^{+62}_{-24} (-0.3σ)
$\boldsymbol{\tau}$	0.074 ± 0.013 $(+0.1\sigma)$	$\Omega_m h^2$	$0.1436^{+0.0014}_{-0.0024}$ (-0.3σ)	$100\theta_{eq}$	$0.8321^{+0.0047}_{-0.014}$ $(+0.3\sigma)$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	< 0.249 $(+0.2\sigma)$	$\Omega_\nu h^2$	$0.00303^{+0.00056}_{-0.0027}$ $(+0.2\sigma)$	$r_{drag}/D_V(0.57)$	0.07167 ± 0.00038 $(+0.3\sigma)$
$\boldsymbol{N_{eff}}$	< 3.18 (-0.2σ)	$\Omega_m h^3$	$0.09787^{+0.00068}_{-0.0021}$ (-0.2σ)	$H(0.57)$	$93.64^{+0.26}_{-0.70}$ (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.079 ± 0.027 (-0.1σ)	σ_8	$0.794^{+0.025}_{-0.016}$ (-0.2σ)	$D_A(0.57)$	$1378^{+12}_{-6.7}$ $(+0.0\sigma)$
$\boldsymbol{n_s}$	$0.9722^{+0.0049}_{-0.0064}$ $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.5}$	$0.442^{+0.013}_{-0.0079}$ (-0.4σ)	$F_{AP}(0.57)$	0.6755 ± 0.0017 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_m^{0.25}$	$0.592^{+0.018}_{-0.011}$ (-0.3σ)	$f\sigma_8(0.57)$	$0.462^{+0.014}_{-0.0086}$ (-0.3σ)
$\boldsymbol{A^{PS}_{100}}$	247 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	$0.962^{+0.029}_{-0.017}$ (-0.3σ)	$\sigma_8(0.57)$	$0.592^{+0.019}_{-0.013}$ (-0.2σ)
$\boldsymbol{A^{PS}_{143}}$	40 ± 8 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.450 ± 0.026 (-0.3σ)	Y_P^{BBN}	$0.24782^{+0.00046}_{-0.0015}$ (-0.5σ)
$\boldsymbol{A^{PS}_{217}}$	98 ± 10 $(+0.1\sigma)$	z_{re}	9.52 ± 1.2 $(+0.0\sigma)$	f^{143}_{2000}	29.5 ± 2.7 (-0.5σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.9σ)	$10^9 A_s$	2.174 ± 0.058 (-0.1σ)	f^{217}_{2000}	106.7 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.19^{+1.4}_{-2.6}$ (-1.0σ)	$10^9 A_s e^{-2\tau}$	$1.875^{+0.012}_{-0.014}$ (-0.6σ)	$f^{143\times217}_{2000}$	32.1 ± 2.0 (-0.6σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	1218 ± 12 (-0.5σ)	$\chi^2_{lensing}$	9.85 ± 1.4 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.587 (-0.2σ)	D_{220}	5711 ± 38 (-0.5σ)	χ^2_{lowTEB}	10495.0 ± 1.2 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	$5.58^{+4.2}_{-1.6}$ $(+0.7\sigma)$	D_{810}	2530 ± 13 (-0.4σ)	$\chi^2_{CamSpec}$	12955.8 ± 6.3
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{1420}	814.2 ± 4.7 (-0.0σ)	χ^2_{H070p6}	0.58 ± 0.27 (-0.1σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	$n_{s,0.002}$	$0.9722^{+0.0049}_{-0.0064}$ $(+0.2\sigma)$	χ^2_{JLA}	706.73 ± 0.19 (-0.2σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	Y_P	$0.24648^{+0.00046}_{-0.0015}$ (-0.5σ)	χ^2_{6DF}	0.052 ± 0.068 (-0.2σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	Age/Gyr	$13.712^{+0.098}_{-0.034}$ $(+0.1\sigma)$	χ^2_{MGS}	1.36 ± 0.49 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99677 ± 0.00097 (-1.8σ)	z_*	1089.88 ± 0.27 (-0.6σ)	$\chi^2_{DR11CMASS}$	2.83 ± 0.57 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0017 $(+0.8\sigma)$	r_*	$143.8^{+1.1}_{-0.45}$ $(+0.2\sigma)$	$\chi^2_{DR11LOWZ}$	0.71 ± 0.54 (-0.2σ)
$\boldsymbol{c_{TE}}$	1.0053 ± 0.0044	$100\theta_*$	$1.04095^{+0.00038}_{-0.00030}$ $(+0.2\sigma)$	χ^2_{prior}	9.10 ± 3.6 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0022 ± 0.0043	z_{drag}	$1060.28^{+0.39}_{-0.52}$ $(+0.1\sigma)$	χ^2_{CMB}	23460.6 ± 6.3 $(+1519.5\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_{drag}	$146.5^{+1.1}_{-0.47}$ $(+0.2\sigma)$	χ^2_{BAO}	4.95 ± 0.82 (-0.1σ)

$\bar{\chi}^2_{eff} = 24181.92$; $\Delta\bar{\chi}^2_{eff} = 10488.48$; $R - 1 = 0.01936$

12.35 base_nnu_meffsterile_WLonlyHeymans_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02221	0.02231 ± 0.00090	$10^9 A_s e^{-2\tau}$	1.282	$1.75^{+0.26}_{-0.63}$	z_{eq}	3398	3202^{+220}_{-130}
$\boldsymbol{\Omega_c h^2}$	0.2000	$0.196^{+0.043}_{-0.025}$	D_{40}	820	1121^{+200}_{-400}	k_{eq}	0.01296	$0.0125^{+0.0013}_{-0.0010}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.10	< 1.09	D_{220}	3560	5068^{+800}_{-2000}	$100\theta_{eq}$	0.8166	$0.857^{+0.022}_{-0.048}$
$\boldsymbol{N_{eff}}$	7.24	> 7.14	D_{810}	1495	2050^{+300}_{-800}	$100\theta_{s,eq}$	0.4513	$0.472^{+0.011}_{-0.025}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.691	$2.96^{+0.21}_{-0.34}$	D_{1420}	430	584^{+100}_{-200}	$r_{drag}/D_V(0.57)$	0.07174	0.07177 ± 0.00052
$\boldsymbol{n_s}$	0.9609	0.964 ± 0.020	D_{2000}	106.8	145^{+30}_{-60}	$H(0.57)$	117.1	$118^{+12}_{-5.0}$
H_0	85.3	$85.9^{+8.4}_{-3.9}$	$n_{s,0.002}$	0.9609	0.964 ± 0.020	$D_A(0.57)$	1101	1100^{+40}_{-110}
Ω_Λ	0.6921	0.6918 ± 0.0095	Y_P	0.2849	$0.285^{+0.010}_{-0.0016}$	$F_{AP}(0.57)$	0.67511	0.6752 ± 0.0024
Ω_m	0.3079	0.3082 ± 0.0095	Y_P^{BBN}	0.2863	$0.286^{+0.010}_{-0.0016}$	$f\sigma_8(0.57)$	0.4344	0.429 ± 0.017
$\Omega_m h^2$	0.2239	$0.229^{+0.044}_{-0.021}$	10^5D/H	4.06	$4.20^{+0.76}_{-0.52}$	$\sigma_8(0.57)$	0.5569	0.546 ± 0.024
$\Omega_\nu h^2$	0.0018	< 0.0123	Age/Gyr	10.97	$10.95^{+0.39}_{-1.1}$	χ^2_{6DF}	0.0109	0.069 ± 0.097
$\Omega_m h^3$	0.1910	$0.198^{+0.056}_{-0.029}$	z_*	1099.95	$1099.8^{+4.5}_{-2.7}$	χ^2_{MGS}	1.41	1.51 ± 0.69
σ_8	0.7471	0.730 ± 0.032	r_*	115.0	$114.9^{+4.1}_{-12}$	$\chi^2_{DR11CMASS}$	2.43	3.08 ± 0.95
$\sigma_8 \Omega_m^{0.5}$	0.4145	0.405 ± 0.016	$100\theta_*$	1.03876	$1.03888^{+0.00030}_{-0.00083}$	$\chi^2_{DR11LOWZ}$	0.498	0.68 ± 0.68
$\sigma_8 \Omega_m^{0.25}$	0.5565	0.543 ± 0.022	D_A/Gpc	11.07	$11.05^{+0.39}_{-1.1}$	$\chi^2_{CFHTLENS}$	95.94	97.9 ± 1.9
$\sigma_8/h^{0.5}$	0.8090	$0.789^{+0.039}_{-0.051}$	z_{drag}	1067.54	$1067.8^{+4.0}_{-2.7}$	χ^2_{prior}	0.01	2.04 ± 2.1
$\langle d^2 \rangle^{1/2}$	2.072	$2.27^{+0.17}_{-0.30}$	r_{drag}	117.2	$117.1^{+4.2}_{-12}$	χ^2_{BAO}	4.35	5.34 ± 1.4
z_{re}	11.13	$11.16^{+0.88}_{-0.51}$	k_D	0.1647	$0.165^{+0.012}_{-0.0060}$			
$10^9 A_s$	1.48	$2.01^{+0.29}_{-0.72}$	$100\theta_D$	0.17236	$0.1731^{+0.0052}_{-0.0026}$			

Best-fit $\chi^2_{eff} = 100.30$; $\bar{\chi}^2_{eff} = 105.30$; $R - 1 = 0.00777$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.43 DR11LOWZ: 0.50 WL - CFHTLENS_6bin_conservative: 95.94

12.36 base_nnu_meffsterile_WLonlyHeymans_H070p6_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02226	0.02229 ± 0.00090	z_{re}	10.17	$11.6^{+1.1}_{-0.79}$	z_{drag}	1063.48	$1069.1^{+4.8}_{-3.3}$
$\boldsymbol{\Omega_c h^2}$	0.159	$0.227^{+0.058}_{-0.043}$	$10^9 A_s$	1.294	$1.14^{+0.10}_{-0.46}$	r_{drag}	132.0	$115.1^{+6.3}_{-13}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	0.03	< 1.68	$10^9 A_s e^{-2\tau}$	1.125	$0.991^{+0.091}_{-0.40}$	k_D	0.1526	$0.170^{+0.014}_{-0.0093}$
$\boldsymbol{N_{eff}}$	4.55	$7.06^{+1.9}_{-1.5}$	D_{40}	718	605^{+59}_{-270}	$100\theta_D$	0.16522	$0.1711^{+0.0046}_{-0.0034}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.561	< 2.46	D_{220}	3177	2659^{+270}_{-1300}	z_{eq}	3604	3848^{+400}_{-210}
$\boldsymbol{n_s}$	0.9611	0.963 ± 0.020	D_{810}	1417	1171^{+110}_{-540}	k_{eq}	0.01206	$0.0146^{+0.0024}_{-0.0015}$
H_0	70.99	70.9 ± 3.2	D_{1420}	439	348^{+35}_{-170}	$100\theta_{eq}$	0.7800	$0.751^{+0.024}_{-0.059}$
Ω_Λ	0.638	0.47 ± 0.11	D_{2000}	117.2	$88.2^{+9.2}_{-45}$	$100\theta_{s,eq}$	0.4320	$0.417^{+0.013}_{-0.031}$
Ω_m	0.362	0.53 ± 0.11	$n_{s,0.002}$	0.9611	0.963 ± 0.020	$r_{drag}/D_V(0.57)$	0.06905	$0.0642^{+0.0020}_{-0.0038}$
$\Omega_m h^2$	0.182	$0.264^{+0.063}_{-0.050}$	Y_P	0.2635	$0.281^{+0.012}_{-0.0039}$	$H(0.57)$	101.3	$112.0^{+8.9}_{-6.3}$
$\Omega_\nu h^2$	0.0010	$0.0142^{+0.0046}_{-0.014}$	Y_P^{BBN}	0.2649	$0.283^{+0.012}_{-0.0039}$	$D_A(0.57)$	1297	1234^{+47}_{-69}
$\Omega_m h^3$	0.1294	$0.187^{+0.045}_{-0.039}$	10^5D/H	3.13	3.98 ± 0.60	$F_{AP}(0.57)$	0.6883	$0.722^{+0.026}_{-0.019}$
σ_8	0.685	$0.559^{+0.048}_{-0.092}$	Age/Gyr	12.59	$11.39^{+0.51}_{-1.0}$	$f\sigma_8(0.57)$	0.4078	$0.349^{+0.028}_{-0.046}$
$\sigma_8 \Omega_m^{0.5}$	0.4119	0.398 ± 0.016	z_*	1094.70	$1101.6^{+5.6}_{-3.8}$	$\sigma_8(0.57)$	0.500	$0.393^{+0.039}_{-0.079}$
$\sigma_8 \Omega_m^{0.25}$	0.5311	$0.471^{+0.028}_{-0.044}$	r_*	129.6	$112.9^{+6.1}_{-13}$	χ^2_{H070p6}	0.025	0.9 ± 1.4
$\sigma_8/h^{0.5}$	0.813	$0.664^{+0.052}_{-0.11}$	$100\theta_*$	1.040070	$1.03926^{+0.00026}_{-0.00066}$	$\chi^2_{CFHTLENS}$	96.12	97.8 ± 1.9
$\langle d^2 \rangle^{1/2}$	1.998	$1.870^{+0.090}_{-0.28}$	D_A/Gpc	12.46	$10.86^{+0.59}_{-1.3}$	χ^2_{prior}	0.00	2.01 ± 2.0

Best-fit $\chi^2_{eff} = 96.15$; $\bar{\chi}^2_{eff} = 100.74$; $R - 1 = 0.02115$

χ^2_{eff}: Hubble - H070p6: 0.03 WL - CFHTLENS_6bin_conservative: 96.12

12.37 base_nnu_meffsterile_WLonlyHeymans_H070p6_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02231	0.02215 ± 0.00090	$10^9 A_s e^{-2\tau}$	1.486	$1.85^{+0.24}_{-0.48}$	z_{eq}	3376	3208^{+170}_{-99}
$\boldsymbol{\Omega_c h^2}$	0.1326	$0.135^{+0.011}_{-0.016}$	D_{40}	974	1213^{+200}_{-300}	k_{eq}	0.01079	$0.01061^{+0.00048}_{-0.00059}$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	0.008	< 0.632	D_{220}	4449	5642^{+800}_{-2000}	$100\theta_{eq}$	0.8183	$0.853^{+0.018}_{-0.037}$
$\boldsymbol{N_{eff}}$	3.77	$4.33^{+0.61}_{-0.86}$	D_{810}	1948	2397^{+300}_{-600}	$100\theta_{s,eq}$	0.4521	$0.4704^{+0.0094}_{-0.019}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.839	$3.04^{+0.17}_{-0.24}$	D_{1420}	613	739^{+100}_{-200}	$r_{drag}/D_V(0.57)$	0.07175	0.07171 ± 0.00053
$\boldsymbol{n_s}$	0.9631	0.963 ± 0.019	D_{2000}	167.8	199^{+30}_{-50}	$H(0.57)$	97.57	$99.7^{+3.3}_{-4.7}$
H_0	71.08	$72.5^{+2.4}_{-3.3}$	$n_{s,0.002}$	0.9631	0.963 ± 0.019	$D_A(0.57)$	1321	1296^{+56}_{-48}
Ω_Λ	0.6919	0.6902 ± 0.0097	Y_P	0.2546	0.2606 ± 0.0076	$F_{AP}(0.57)$	0.67515	0.6756 ± 0.0025
Ω_m	0.3081	0.3098 ± 0.0097	Y_P^{BBN}	0.2560	0.2620 ± 0.0076	$f\sigma_8(0.57)$	0.4339	0.428 ± 0.017
$\Omega_m h^2$	0.1556	$0.163^{+0.011}_{-0.016}$	10^5D/H	2.852	$3.09^{+0.29}_{-0.40}$	$\sigma_8(0.57)$	0.5569	0.545 ± 0.024
$\Omega_\nu h^2$	0.00073	< 0.00736	Age/Gyr	13.16	$12.89^{+0.56}_{-0.48}$	χ^2_{H070p6}	0.023	1.05 ± 1.5
$\Omega_m h^3$	0.1106	$0.119^{+0.011}_{-0.018}$	z_*	1091.78	$1093.0^{+2.0}_{-2.6}$	χ^2_{6DF}	0.0107	0.08 ± 0.11
σ_8	0.7476	0.731 ± 0.031	r_*	138.1	$135.2^{+6.1}_{-5.2}$	χ^2_{MGS}	1.41	1.42 ± 0.68
$\sigma_8 \Omega_m^{0.5}$	0.4149	$0.407^{+0.017}_{-0.016}$	$100\theta_*$	1.040531	$1.04035^{+0.00044}_{-0.00032}$	$\chi^2_{DR11CMASS}$	2.42	3.10 ± 1.0
$\sigma_8 \Omega_m^{0.25}$	0.5570	0.545 ± 0.022	D_A/Gpc	13.27	$13.00^{+0.58}_{-0.49}$	$\chi^2_{DR11LOWZ}$	0.492	0.77 ± 0.75
$\sigma_8/h^{0.5}$	0.8867	0.859 ± 0.040	z_{drag}	1061.23	1061.6 ± 2.3	$\chi^2_{CFHTLENS}$	96.66	98.8 ± 2.1
$\langle d^2 \rangle^{1/2}$	2.207	$2.37^{+0.16}_{-0.24}$	r_{drag}	140.7	$137.8^{+6.1}_{-5.2}$	χ^2_{prior}	0.02	1.99 ± 2.0
z_{re}	9.572	$9.83^{+0.41}_{-0.51}$	k_D	0.14515	$0.1467^{+0.0038}_{-0.0048}$	χ^2_{BAO}	4.33	5.37 ± 1.5
$10^9 A_s$	1.710	$2.13^{+0.27}_{-0.55}$	$100\theta_D$	0.16310	$0.1650^{+0.0025}_{-0.0030}$			

Best-fit $\chi^2_{eff} = 101.04$; $\bar{\chi}^2_{eff} = 107.21$; $R - 1 = 0.00658$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.42 DR11LOWZ: 0.49 Hubble - H070p6: 0.02 WL - CFHTLENS_6bin_conservative: 96.66

13 nnu+meffsterile+r

13.1 base_nnu_meffsterile_r_plikHM_TT_lowTEB_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02250^{+0.00026}_{-0.00032}$	$\Omega_m h^2$	$0.1474^{+0.0035}_{-0.0048}$	k_D	$0.1425^{+0.0012}_{-0.0018}$
$\boldsymbol{\Omega_c h^2}$	0.1219 ± 0.0039	$\Omega_\nu h^2$	$0.00301^{+0.00080}_{-0.0025}$	$100\theta_D$	$0.16158^{+0.00044}_{-0.00065}$
$\boldsymbol{100\theta_{MC}}$	1.04062 ± 0.00053	$\Omega_m h^3$	$0.1017^{+0.0023}_{-0.0056}$	z_{eq}	3306^{+62}_{-52}
$\boldsymbol{\tau}$	0.080 ± 0.020	σ_8	$0.798^{+0.032}_{-0.025}$	k_{eq}	$0.01033^{+0.00018}_{-0.00016}$
$\boldsymbol{m^{eff}_{\nu,\,sterile}}$	< 0.265	$\sigma_8\Omega_m^{0.5}$	$0.444^{+0.011}_{-0.0093}$	$100\theta_{eq}$	$0.833^{+0.010}_{-0.013}$
$\boldsymbol{N_{eff}}$	< 3.45	$\sigma_8\Omega_m^{0.25}$	$0.595^{+0.018}_{-0.012}$	$100\theta_{s,eq}$	$0.4594^{+0.0052}_{-0.0065}$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.099^{+0.037}_{-0.044}$	$\sigma_8/h^{0.5}$	$0.961^{+0.032}_{-0.018}$	$r_{drag}/D_V(0.57)$	$0.0716^{+0.0010}_{-0.0011}$
$\boldsymbol{n_s}$	$0.9796^{+0.0097}_{-0.014}$	$\langle d^2\rangle^{1/2}$	2.448 ± 0.031	$H(0.57)$	$94.84^{+0.84}_{-2.1}$
$\boldsymbol{r}$	< 0.0645	z_{re}	10.1 ± 1.8	$D_A(0.57)$	1361^{+38}_{-20}
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$10^9 A_s$	$2.219^{+0.079}_{-0.099}$	$F_{AP}(0.57)$	0.6757 ± 0.0050
$\boldsymbol{A^{CIB}_{217}}$	65.9 ± 6.7	$10^9 A_s e^{-2\tau}$	$1.891^{+0.017}_{-0.019}$	$f\sigma_8(0.57)$	$0.464^{+0.016}_{-0.0098}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1229^{+19}_{-21}	$\sigma_8(0.57)$	$0.594^{+0.027}_{-0.023}$
$\boldsymbol{A^{tSZ}_{143}}$	4.70 ± 2.0	D_{220}	5715 ± 41	$r_{0.002}$	< 0.0621
$\boldsymbol{A^{PS}_{100}}$	266 ± 28	D_{810}	2537 ± 14	$r_{0.01}$	< 0.0633
$\boldsymbol{A^{PS}_{143}}$	47 ± 8	D_{1420}	813.5 ± 5.1	$\ln(10^{10}A_t)$	$-0.31^{+1.4}_{-0.63}$
$\boldsymbol{A^{PS}_{143\times217}}$	40^{+9}_{-10}	D_{2000}	228.5 ± 2.1	r_{10}	< 0.0314
$\boldsymbol{A^{PS}_{217}}$	96 ± 10	$n_{s,0.002}$	$0.9796^{+0.0097}_{-0.014}$	$10^9 A_t$	< 0.143
$\boldsymbol{A^{kSZ}}$	< 5.76	Y_P	$0.2498^{+0.0018}_{-0.0039}$	$10^9 A_t e^{-2\tau}$	< 0.122
$\boldsymbol{A^{dustTT}_{100}}$	7.50 ± 1.9	Y_P^{BBN}	$0.2511^{+0.0018}_{-0.0039}$	f^{143}_{2000}	32.5 ± 3.2
$\boldsymbol{A^{dustTT}_{143}}$	9.09 ± 1.9	10^5D/H	$2.680^{+0.058}_{-0.068}$	$f^{143\times217}_{2000}$	34.5 ± 2.4
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.4 ± 4.1	Age/Gyr	$13.54^{+0.27}_{-0.11}$	f^{217}_{2000}	107.9 ± 2.3
$\boldsymbol{A^{dustTT}_{217}}$	81.8 ± 7.4	z_*	1090.38 ± 0.50	$\chi^2_{lensing}$	9.72 ± 1.3
$\boldsymbol{c_{100}}$	0.99787 ± 0.00078	r_*	$142.0^{+2.3}_{-1.4}$	χ^2_{lowTEB}	10496.8 ± 2.3
$\boldsymbol{c_{217}}$	0.9962 ± 0.0014	$100\theta_*$	$1.04063^{+0.00065}_{-0.00057}$	χ^2_{plik}	782.0 ± 5.9
H_0	$69.0^{+1.4}_{-2.5}$	D_A/Gpc	$13.65^{+0.22}_{-0.13}$	χ^2_{prior}	7.51 ± 3.6
Ω_Λ	0.689 ± 0.020	z_{drag}	$1060.74^{+0.70}_{-1.0}$	χ^2_{CMB}	11288.5 ± 6.1
Ω_m	0.311 ± 0.020	r_{drag}	$144.6^{+2.4}_{-1.5}$		

$\bar{\chi}^2_{eff} = 11295.99$; $R - 1 = 0.03538$

13.2 base_nnu_meffsterile_r_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022259	0.02238 ± 0.00018	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.156 ± 0.054	$100\theta_*$	1.041029	$1.04070^{+0.00045}_{-0.00038}$
$\boldsymbol{\Omega_c h^2}$	0.11921	0.1207 ± 0.0028	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.338 ± 0.080	D_A/Gpc	13.901	$13.74^{+0.15}_{-0.080}$
$\boldsymbol{100\theta_{MC}}$	1.040830	$1.04060^{+0.00040}_{-0.00036}$	$\boldsymbol{A^{dustTE}_{217}}$	1.666	1.67 ± 0.25	z_{drag}	1059.63	$1060.30^{+0.46}_{-0.64}$
$\boldsymbol{\tau}$	0.0623	0.069 ± 0.015	$\boldsymbol{c_{100}}$	0.99814	0.99810 ± 0.00077	r_{drag}	147.42	$145.6^{+1.6}_{-0.88}$
$\boldsymbol{m^{eff}_{\nu,sterile}}$	0.001	< 0.332	$\boldsymbol{c_{217}}$	0.99615	0.9962 ± 0.0014	k_D	0.14044	$0.14189^{+0.00073}_{-0.0013}$
$\boldsymbol{N_{eff}}$	3.047	< 3.27	H_0	67.51	$67.41^{+0.79}_{-1.0}$	$100\theta_D$	0.160925	$0.16118^{+0.00024}_{-0.00033}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0569	3.076 ± 0.030	Ω_Λ	0.6882	$0.677^{+0.015}_{-0.012}$	z_{eq}	3380.4	3339^{+47}_{-35}
$\boldsymbol{n_s}$	0.9656	$0.9693^{+0.0058}_{-0.0075}$	Ω_m	0.3118	$0.323^{+0.012}_{-0.015}$	k_{eq}	0.010318	$0.01034^{+0.00015}_{-0.00012}$
$\boldsymbol{r}$	0.0002	< 0.0566	$\Omega_m h^2$	0.14213	$0.1466^{+0.0025}_{-0.0040}$	$100\theta_{eq}$	0.8168	$0.8263^{+0.0069}_{-0.010}$
$\boldsymbol{y_{cal}}$	0.999996	1.0003 ± 0.0024	$\Omega_\nu h^2$	0.00065	$0.0035^{+0.0011}_{-0.0027}$	$100\theta_{s,eq}$	0.45131	$0.4562^{+0.0035}_{-0.0053}$
$\boldsymbol{A^{CIB}_{217}}$	68.2	65.7 ± 6.6	$\Omega_m h^3$	0.09595	$0.0988^{+0.0012}_{-0.0028}$	$r_{drag}/D_V(0.57)$	0.07156	$0.07095^{+0.00079}_{-0.00068}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	σ_8	0.8140	$0.784^{+0.031}_{-0.021}$	$H(0.57)$	92.95	$93.56^{+0.37}_{-0.81}$
$\boldsymbol{A^{tSZ}_{143}}$	7.25	5.06 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4546	$0.445^{+0.012}_{-0.0086}$	$D_A(0.57)$	1389.0	$1386^{+16}_{-9.7}$
$\boldsymbol{A^{PS}_{100}}$	257.3	266 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6083	$0.591^{+0.019}_{-0.012}$	$F_{AP}(0.57)$	0.67612	$0.6788^{+0.0031}_{-0.0038}$
$\boldsymbol{A^{PS}_{143}}$	39.1	46 ± 8	$\sigma_8/h^{0.5}$	0.9907	$0.955^{+0.034}_{-0.020}$	$f\sigma_8(0.57)$	0.4734	$0.459^{+0.016}_{-0.010}$
$\boldsymbol{A^{PS}_{143\times217}}$	32.8	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4528	2.463 ± 0.028	$\sigma_8(0.57)$	0.6055	$0.581^{+0.025}_{-0.018}$
$\boldsymbol{A^{PS}_{217}}$	96.2	96 ± 10	z_{re}	8.49	9.14 ± 1.4	$r_{0.002}$	0.0002	< 0.0525
$\boldsymbol{A^{kSZ}}$	0.01	< 5.19	10^9A_s	2.126	$2.168^{+0.060}_{-0.070}$	$r_{0.01}$	0.0002	< 0.0545
$\boldsymbol{A^{dustTT}_{100}}$	7.50	7.53 ± 1.9	$10^9A_s e^{-2\tau}$	1.8771	1.888 ± 0.014	$\ln(10^{10}A_t)$	−5.36	$-0.44^{+1.4}_{-0.63}$
$\boldsymbol{A^{dustTT}_{143}}$	9.02	9.11 ± 1.8	D_{40}	1229.7	1240^{+15}_{-19}	r_{10}	0.0001	< 0.0268
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.62	17.3 ± 4.1	D_{220}	5721.0	5719 ± 38	10^9A_t	0.000	< 0.122
$\boldsymbol{A^{dustTT}_{217}}$	81.7	81.6 ± 7.3	D_{810}	2533.7	2536 ± 13	$10^9A_t e^{-2\tau}$	0.000	< 0.107
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0809 ± 0.0057	D_{1420}	814.41	813.7 ± 4.7	f^{143}_{2000}	29.95	31.6 ± 2.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0492	0.0484 ± 0.0050	D_{2000}	230.00	228.9 ± 1.7	$f^{143\times217}_{2000}$	32.68	33.9 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0991	0.0998 ± 0.033	$n_{s,0.002}$	0.9656	$0.9693^{+0.0058}_{-0.0075}$	f^{217}_{2000}	106.19	107.3 ± 2.0
$\boldsymbol{A^{dustEE}_{143}}$	0.1006	0.0997 ± 0.0069	Y_P	0.24535	$0.2478^{+0.0010}_{-0.0022}$	$\chi^2_{lensing}$	9.67	10.2 ± 1.7
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2253	0.223 ± 0.047	Y_P^{BBN}	0.24668	$0.2491^{+0.0010}_{-0.0022}$	χ^2_{lowTEB}	10495.31	10497.2 ± 2.1
$\boldsymbol{A^{dustEE}_{217}}$	0.657	0.65 ± 0.13	10^5D/H	2.6126	$2.651^{+0.039}_{-0.044}$	χ^2_{plik}	2434.9	2455.9 ± 7.1
$\boldsymbol{A^{dustTE}_{100}}$	0.1399	0.142 ± 0.038	Age/Gyr	13.808	$13.70^{+0.12}_{-0.053}$	χ^2_{prior}	7.16	19.5 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1320	0.132 ± 0.029	z_*	1089.995	1090.34 ± 0.38	χ^2_{CMB}	12939.9	12963.3 ± 7.2
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.303 ± 0.084	r_*	144.71	$143.0^{+1.6}_{-0.86}$			

Best-fit $\chi^2_{eff} = 12947.08$; $\bar{\chi}^2_{eff} = 12982.78$; $R - 1 = 0.02047$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.67 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.31 plik_dx11dr2_HM_v18_TTTEEE: 2434.94

13.3 base_nnu_meffsterile_r_CamSpecHM_TT_lowTEB_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	$0.02250^{+0.00026}_{-0.00033}$ $(+0.0\sigma)$	Ω_Λ	0.690 ± 0.019 $(+0.1\sigma)$	$100\theta_{\rm D}$	$0.16152^{+0.00042}_{-0.00065}$ (-0.1σ)
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1216 ± 0.0036 (-0.1σ)	$\Omega_{\rm m}$	0.310 ± 0.019 (-0.1σ)	$z_{\rm eq}$	3306^{+59}_{-52} (-0.0σ)
$\boldsymbol{100\theta_{\rm MC}}$	1.04068 ± 0.00052 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1470^{+0.0033}_{-0.0046}$ (-0.1σ)	$100\theta_{\rm eq}$	$0.833^{+0.010}_{-0.012}$ $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.081 ± 0.020 $(+0.1\sigma)$	$\Omega_\nu h^2$	$0.00290^{+0.00084}_{-0.0023}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07169^{+0.00099}_{-0.0012}$ $(+0.1\sigma)$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	< 0.260 (-0.1σ)	$\Omega_{\rm m}h^3$	$0.1015^{+0.0020}_{-0.0055}$ (-0.1σ)	$H(0.57)$	$94.79^{+0.81}_{-2.1}$ (-0.0σ)
$\boldsymbol{N_{\rm eff}}$	< 3.43 (-0.1σ)	σ_8	$0.800^{+0.032}_{-0.026}$ $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1361^{+39}_{-19} $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	$3.100^{+0.038}_{-0.044}$ $(+0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.444 ± 0.010 $(+0.0\sigma)$	$F_{\rm AP}(0.57)$	0.6754 ± 0.0050 (-0.1σ)
$\boldsymbol{n_{\rm s}}$	$0.9810^{+0.0095}_{-0.015}$ $(+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.596^{+0.018}_{-0.012}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	$0.465^{+0.016}_{-0.010}$ $(+0.1\sigma)$
$\boldsymbol{r}$	< 0.0631 (-0.0σ)	$\sigma_8/h^{0.5}$	$0.963^{+0.031}_{-0.019}$ $(+0.1\sigma)$	$\sigma_8(0.57)$	$0.596^{+0.027}_{-0.024}$ $(+0.1\sigma)$
$\boldsymbol{y_{\rm cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\langle d^2\rangle^{1/2}$	2.445 ± 0.030 (-0.1σ)	$r_{0.002}$	< 0.0611 (-0.0σ)
$\boldsymbol{A^{\rm PS}_{100}}$	252 ± 23 (-0.5σ)	$z_{\rm re}$	10.3 ± 1.8 $(+0.1\sigma)$	$r_{0.01}$	< 0.0621 (-0.0σ)
$\boldsymbol{A^{\rm PS}_{143}}$	42 ± 8 (-0.6σ)	$10^9A_{\rm s}$	$2.221^{+0.080}_{-0.10}$ $(+0.0\sigma)$	$\ln(10^{10}A_{\rm t})$	$-0.35^{+1.4}_{-0.65}$ (-0.0σ)
$\boldsymbol{A^{\rm PS}_{217}}$	96 ± 10 (-0.0σ)	$10^9A_{\rm s}e^{-2\tau}$	$1.886^{+0.016}_{-0.019}$ (-0.3σ)	r_{10}	< 0.0307 (-0.0σ)
$\boldsymbol{A^{\rm CIB}_{217}}$	48 ± 7 (-2.7σ)	D_{40}	1223^{+19}_{-22} (-0.3σ)	$10^9A_{\rm t}$	< 0.140 (-0.0σ)
$\boldsymbol{A^{\rm tSZ}_{143}}$	< 3.67 (-0.9σ)	D_{220}	5695 ± 41 (-0.5σ)	$10^9A_te^{-2\tau}$	< 0.119 (-0.0σ)
$\boldsymbol{r^{\rm PS}_{143\times217}}$	$0.512^{+0.096}_{-0.11}$	D_{810}	2533 ± 14 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	$0.2504^{+0.0015}_{-0.0038}$ (-0.2σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	< 0.563 (-0.2σ)	D_{1420}	813.4 ± 5.1 (-0.0σ)	f^{143}_{2000}	31.1 ± 3.2 (-0.5σ)
$\boldsymbol{A^{\rm kSZ}}$	> 4.74 $(+0.6\sigma)$	$n_{\rm s,0.002}$	$0.9810^{+0.0095}_{-0.015}$ $(+0.1\sigma)$	f^{217}_{2000}	108.0 ± 2.3 $(+0.1\sigma)$
$\boldsymbol{A^{\rm dust}_{100}}$	0.99 ± 0.19	$Y_{\rm P}$	$0.2491^{+0.0015}_{-0.0038}$ (-0.2σ)	$f^{143\times217}_{2000}$	33.6 ± 2.4 (-0.4σ)
$\boldsymbol{A^{\rm dust}_{143}}$	1.03 ± 0.18	Age/Gyr	$13.55^{+0.27}_{-0.11}$ $(+0.0\sigma)$	$\chi^2_{\rm lensing}$	9.61 ± 1.2 (-0.1σ)
$\boldsymbol{A^{\rm dust}_{217}}$	1.20 ± 0.12	z_*	$1090.31^{+0.47}_{-0.54}$ (-0.1σ)	$\chi^2_{\rm lowTEB}$	10496.5 ± 2.4 (-0.1σ)
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.99 ± 0.18	r_*	$142.2^{+2.4}_{-1.3}$ $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8063.6 ± 6.0
$\boldsymbol{c_{100}}$	0.99675 ± 0.00097 (-1.4σ)	$100\theta_*$	$1.04070^{+0.00063}_{-0.00055}$ $(+0.1\sigma)$	$\chi^2_{\rm prior}$	8.40 ± 3.5 $(+0.2\sigma)$
$\boldsymbol{c_{217}}$	0.9975 ± 0.0018 $(+0.9\sigma)$	$z_{\rm drag}$	$1060.69^{+0.69}_{-1.0}$ (-0.1σ)	$\chi^2_{\rm CMB}$	18569.7 ± 6.3 $(+1193.2\sigma)$
$\boldsymbol{\beta^1_1}$	-0.06 ± 0.99	$r_{\rm drag}$	$144.7^{+2.5}_{-1.3}$ $(+0.1\sigma)$		
H_0	$69.0^{+1.3}_{-2.5}$ $(+0.0\sigma)$	$k_{\rm D}$	$0.1424^{+0.0011}_{-0.0018}$ (-0.1σ)		

$\bar{\chi}^2_{\rm eff} = 18578.06$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.07$; $R - 1 = 0.03915$

13.4 base_nnu_meffsterile_r_CamSpecHM_TT_lowTEB_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02248^{+0.00022}_{-0.00025}$	Ω_m	0.3079 ± 0.0083	$100\theta_{eq}$	$0.8320^{+0.0074}_{-0.010}$
$\boldsymbol{\Omega_c h^2}$	0.1209 ± 0.0036	$\Omega_m h^2$	$0.1461^{+0.0024}_{-0.0044}$	$r_{drag}/D_V(0.57)$	0.07175 ± 0.00046
$\boldsymbol{100\theta_{MC}}$	1.04075 ± 0.00050	$\Omega_\nu h^2$	$0.00266^{+0.00080}_{-0.0019}$	$H(0.57)$	$94.55^{+0.72}_{-1.6}$
$\boldsymbol{\tau}$	0.081 ± 0.017	$\Omega_m h^3$	$0.1006^{+0.0019}_{-0.0048}$	$D_A(0.57)$	1364^{+25}_{-14}
$\boldsymbol{m^{eff}_{\nu,sterile}}$	< 0.230	σ_8	$0.801^{+0.023}_{-0.017}$	$F_{AP}(0.57)$	0.6751 ± 0.0021
$\boldsymbol{N_{eff}}$	< 3.38	$\sigma_8\Omega_m^{0.5}$	$0.445^{+0.011}_{-0.0089}$	$f\sigma_8(0.57)$	$0.466^{+0.013}_{-0.0088}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.097 ± 0.035	$\sigma_8\Omega_m^{0.25}$	$0.597^{+0.016}_{-0.011}$	$\sigma_8(0.57)$	$0.597^{+0.018}_{-0.014}$
$\boldsymbol{n_s}$	$0.9801^{+0.0076}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.965^{+0.025}_{-0.019}$	$r_{0.002}$	< 0.0604
$\boldsymbol{r}$	< 0.0627	$\langle d^2\rangle^{1/2}$	2.444 ± 0.027	$r_{0.01}$	< 0.0616
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025	z_{re}	10.2 ± 1.5	$\ln(10^{10}A_t)$	$-0.35^{+1.4}_{-0.64}$
$\boldsymbol{A^{PS}_{100}}$	251 ± 23	$10^9 A_s$	$2.215^{+0.072}_{-0.085}$	r_{10}	< 0.0304
$\boldsymbol{A^{PS}_{143}}$	42 ± 8	$10^9 A_s e^{-2\tau}$	$1.883^{+0.015}_{-0.019}$	$10^9 A_t$	< 0.139
$\boldsymbol{A^{PS}_{217}}$	96 ± 10	D_{40}	1223^{+17}_{-22}	$10^9 A_t e^{-2\tau}$	< 0.118
$\boldsymbol{A^{CIB}_{217}}$	48 ± 7	D_{220}	5695 ± 40	Y_P^{BBN}	$0.2499^{+0.0013}_{-0.0034}$
$\boldsymbol{A^{tSZ}_{143}}$	$2.97^{+1.1}_{-2.7}$	D_{810}	2532 ± 14	f^{143}_{2000}	30.7 ± 3.1
$\boldsymbol{r^{PS}_{143\times217}}$	$0.510^{+0.097}_{-0.12}$	D_{1420}	813.7 ± 5.0	f^{217}_{2000}	107.7 ± 2.2
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.569	$n_{s,0.002}$	$0.9801^{+0.0076}_{-0.011}$	$f^{143\times217}_{2000}$	33.3 ± 2.4
$\boldsymbol{A^{kSZ}}$	> 4.67	Y_P	$0.2485^{+0.0013}_{-0.0034}$	$\chi^2_{lensing}$	9.52 ± 1.1
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	Age/Gyr	$13.58^{+0.22}_{-0.099}$	χ^2_{lowTEB}	10496.3 ± 2.2
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	z_*	$1090.22^{+0.38}_{-0.46}$	$\chi^2_{CamSpec}$	8063.0 ± 5.8
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	r_*	$142.6^{+2.2}_{-1.1}$	χ^2_{6DF}	0.058 ± 0.080
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	$100\theta_*$	$1.04080^{+0.00063}_{-0.00052}$	χ^2_{MGS}	1.48 ± 0.61
$\boldsymbol{c_{100}}$	0.99675 ± 0.00096	z_{drag}	$1060.54^{+0.63}_{-0.91}$	$\chi^2_{DR11CMASS}$	2.96 ± 0.76
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018	r_{drag}	$145.2^{+2.3}_{-1.1}$	$\chi^2_{DR11LOWZ}$	0.65 ± 0.61
$\boldsymbol{\beta^1_1}$	-0.06 ± 0.98	k_D	$0.14207^{+0.00091}_{-0.0017}$	χ^2_{prior}	8.40 ± 3.5
H_0	$68.89^{+0.85}_{-1.4}$	$100\theta_D$	$0.16144^{+0.00041}_{-0.00062}$	χ^2_{CMB}	18568.8 ± 6.1
Ω_Λ	0.6921 ± 0.0083	z_{eq}	3308^{+46}_{-38}	χ^2_{BAO}	5.16 ± 1.1

$\bar{\chi}^2_{eff} = 18582.34$; $R - 1 = 0.06651$

13.5 base_nnu_meffsterile_r_CamSpecHM_TTTEEE_lowTEB_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02245 ± 0.00018 $(+0.4\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	$146.0^{+1.4}_{-0.74}$ $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1192^{+0.0032}_{-0.0023}$ (-0.5σ)	H_0	$67.69^{+0.77}_{-0.91}$ $(+0.3\sigma)$	$k_{\rm D}$	$0.14164^{+0.00066}_{-0.0012}$ (-0.3σ)
$\boldsymbol{100\theta_{\rm MC}}$	1.04069 ± 0.00034 $(+0.3\sigma)$	Ω_Λ	$0.683^{+0.014}_{-0.011}$ $(+0.4\sigma)$	$100\theta_{\rm D}$	$0.16099^{+0.00023}_{-0.00031}$ (-0.7σ)
$\boldsymbol{\tau}$	0.071 ± 0.015 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.317^{+0.011}_{-0.014}$ (-0.4σ)	$z_{\rm eq}$	3321^{+54}_{-35} (-0.4σ)
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	< 0.334 $(+0.0\sigma)$	$\Omega_{\rm m}h^2$	$0.1452^{+0.0022}_{-0.0037}$ (-0.4σ)	$100\theta_{\rm eq}$	$0.8301^{+0.0070}_{-0.012}$ $(+0.4\sigma)$
$\boldsymbol{N_{\rm eff}}$	< 3.22 (-0.3σ)	$\Omega_\nu h^2$	$0.0036^{+0.0011}_{-0.0029}$ $(+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07125^{+0.00075}_{-0.00063}$ $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.075 ± 0.028 (-0.0σ)	$\Omega_{\rm m}h^3$	$0.0983^{+0.0010}_{-0.0023}$ (-0.2σ)	$H(0.57)$	$93.55^{+0.33}_{-0.68}$ (-0.0σ)
$\boldsymbol{n_s}$	$0.9716^{+0.0055}_{-0.0067}$ $(+0.4\sigma)$	σ_8	$0.784^{+0.030}_{-0.020}$ (-0.0σ)	$D_{\rm A}(0.57)$	$1383^{+13}_{-9.5}$ (-0.2σ)
$\boldsymbol{r}$	< 0.0859 $(+0.6\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.441^{+0.012}_{-0.0095}$ (-0.4σ)	$F_{\rm AP}(0.57)$	$0.6774^{+0.0028}_{-0.0035}$ (-0.4σ)
$\boldsymbol{y_{\rm cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.588^{+0.019}_{-0.013}$ (-0.2σ)	$f\sigma_8(0.57)$	$0.458^{+0.015}_{-0.010}$ (-0.1σ)
$\boldsymbol{A^{\rm PS}_{100}}$	248 ± 22 (-0.7σ)	$\sigma_8/h^{0.5}$	$0.953^{+0.033}_{-0.021}$ (-0.1σ)	$\sigma_8(0.57)$	$0.582^{+0.024}_{-0.017}$ $(+0.1\sigma)$
$\boldsymbol{A^{\rm PS}_{143}}$	41 ± 8 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.452 ± 0.027 (-0.4σ)	$r_{0.002}$	< 0.0811 $(+0.6\sigma)$
$\boldsymbol{A^{\rm PS}_{217}}$	98 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	$9.31^{+1.5}_{-1.3}$ $(+0.1\sigma)$	$r_{0.01}$	< 0.0835 $(+0.6\sigma)$
$\boldsymbol{A^{\rm CIB}_{217}}$	47 ± 7 (-2.9σ)	$10^9 A_{\rm s}$	2.166 ± 0.061 (-0.0σ)	$\ln(10^{10}A_{\rm t})$	$0.03^{+1.2}_{-0.50}$ $(+0.4\sigma)$
$\boldsymbol{A^{\rm tSZ}_{143}}$	$3.17^{+1.3}_{-2.7}$ (-1.0σ)	$10^9 A_{\rm s}e^{-2\tau}$	1.878 ± 0.013 (-0.7σ)	r_{10}	< 0.0414 $(+0.6\sigma)$
$\boldsymbol{r^{\rm PS}_{143\times217}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	1240^{+16}_{-22} $(+0.0\sigma)$	$10^9 A_{\rm t}$	< 0.186 $(+0.6\sigma)$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	< 0.568 (-0.2σ)	D_{220}	5702 ± 38 (-0.4σ)	$10^9 A_t e^{-2\tau}$	< 0.161 $(+0.6\sigma)$
$\boldsymbol{A^{\rm kSZ}}$	> 4.22 $(+0.6\sigma)$	D_{810}	2531 ± 14 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	$0.24821^{+0.00071}_{-0.0018}$ (-0.5σ)
$\boldsymbol{A^{\rm dust}_{100}}$	0.98 ± 0.19	D_{1420}	814.1 ± 4.9 $(+0.1\sigma)$	f^{143}_{2000}	29.9 ± 2.8 (-0.6σ)
$\boldsymbol{A^{\rm dust}_{143}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.9716^{+0.0055}_{-0.0067}$ $(+0.4\sigma)$	f^{217}_{2000}	107.1 ± 2.0 (-0.1σ)
$\boldsymbol{A^{\rm dust}_{217}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.24688^{+0.00070}_{-0.0018}$ (-0.5σ)	$f^{143\times217}_{2000}$	32.5 ± 2.1 (-0.7σ)
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.99 ± 0.18	Age/Gyr	$13.711^{+0.098}_{-0.045}$ $(+0.1\sigma)$	$\chi^2_{\rm lensing}$	9.81 ± 1.2 (-0.3σ)
$\boldsymbol{c_{100}}$	0.99671 ± 0.00096 (-1.8σ)	z_*	$1090.07^{+0.35}_{-0.39}$ (-0.7σ)	$\chi^2_{\rm lowTEB}$	10497.5 ± 2.4 $(+0.1\sigma)$
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.7\sigma)$	r_*	$143.4^{+1.4}_{-0.72}$ $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12954.4 ± 6.3
$\boldsymbol{c_{TE}}$	1.0056 ± 0.0044	$100\theta_*$	$1.04082^{+0.00040}_{-0.00034}$ $(+0.3\sigma)$	$\chi^2_{\rm prior}$	9.19 ± 3.6 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0024 ± 0.0044	$z_{\rm drag}$	$1060.33^{+0.45}_{-0.57}$ $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	23461.7 ± 6.5 $(+1464.2\sigma)$

$\bar{\chi}^2_{\rm eff} = 23470.89$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.11$; $R - 1 = 0.01900$

13.6 base_nnu_meffsterile_r_CamSpecHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02247 ± 0.00017	Ω_Λ	$0.6894^{+0.0076}_{-0.0068}$	$100\theta_{\rm eq}$	$0.8312^{+0.0056}_{-0.012}$
$\boldsymbol{\Omega_c h^2}$	$0.1183^{+0.0031}_{-0.0020}$	$\Omega_{\rm m}$	$0.3106^{+0.0068}_{-0.0076}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07160 ± 0.00040
$\boldsymbol{100\theta_{MC}}$	$1.04078^{+0.00034}_{-0.00030}$	$\Omega_{\rm m}h^2$	$0.1438^{+0.0014}_{-0.0025}$	$H(0.57)$	$93.58^{+0.28}_{-0.66}$
$\boldsymbol{\tau}$	0.073 ± 0.014	$\Omega_\nu h^2$	$0.00299^{+0.00075}_{-0.0024}$	$D_{\rm A}(0.57)$	$1379^{+11}_{-7.3}$
$\boldsymbol{m^{\rm eff}_{\nu,\,\rm sterile}}$	< 0.257	$\Omega_{\rm m}h^3$	$0.09781^{+0.00074}_{-0.0020}$	$F_{\rm AP}(0.57)$	0.6758 ± 0.0018
$\boldsymbol{N_{\rm eff}}$	< 3.18	σ_8	$0.793^{+0.024}_{-0.017}$	$f\sigma_8(0.57)$	$0.461^{+0.014}_{-0.0089}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.077 ± 0.027	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.442^{+0.012}_{-0.0086}$	$\sigma_8(0.57)$	$0.590^{+0.018}_{-0.014}$
$\boldsymbol{n_s}$	$0.9728^{+0.0050}_{-0.0062}$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.592^{+0.017}_{-0.011}$	$r_{0.002}$	< 0.0833
$\boldsymbol{r}$	< 0.0877	$\sigma_8/h^{0.5}$	$0.961^{+0.028}_{-0.018}$	$r_{0.01}$	< 0.0854
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.447 ± 0.026	$\ln(10^{10}A_{\rm t})$	$0.06^{+1.2}_{-0.48}$
$\boldsymbol{A^{PS}_{100}}$	246 ± 22	$z_{\rm re}$	9.44 ± 1.3	r_{10}	< 0.0423
$\boldsymbol{A^{PS}_{143}}$	40 ± 7	$10^9A_{\rm s}$	$2.169^{+0.057}_{-0.063}$	$10^9A_{\rm t}$	< 0.190
$\boldsymbol{A^{PS}_{217}}$	98 ± 10	$10^9A_{\rm s}e^{-2\tau}$	1.875 ± 0.012	$10^9A_te^{-2\tau}$	< 0.165
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7	D_{40}	1240^{+16}_{-22}	$Y^{\rm BBN}_{\rm P}$	$0.24782^{+0.00050}_{-0.0015}$
$\boldsymbol{A^{tSZ}_{143}}$	$3.28^{+1.3}_{-2.7}$	D_{220}	5705 ± 38	f^{143}_{2000}	29.3 ± 2.7
$\boldsymbol{r^{PS}_{143\times217}}$	$0.51^{+0.11}_{-0.12}$	D_{810}	2530 ± 14	f^{217}_{2000}	106.7 ± 1.9
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.575	D_{1420}	814.6 ± 4.9	$f^{143\times217}_{2000}$	32.0 ± 2.0
$\boldsymbol{A^{kSZ}}$	$5.41^{+4.0}_{-2.0}$	$n_{\rm s,0.002}$	$0.9728^{+0.0050}_{-0.0062}$	$\chi^2_{\rm lensing}$	9.69 ± 1.2
$\boldsymbol{A^{dust}_{100}}$	0.98 ± 0.19	$Y_{\rm P}$	$0.24649^{+0.00050}_{-0.0015}$	$\chi^2_{\rm lowTEB}$	10497.4 ± 2.4
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	Age/Gyr	$13.717^{+0.094}_{-0.036}$	$\chi^2_{\rm CamSpec}$	12953.9 ± 6.2
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	z_*	$1089.91^{+0.25}_{-0.30}$	$\chi^2_{\rm 6DF}$	0.064 ± 0.083
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	r_*	$143.8^{+1.1}_{-0.49}$	$\chi^2_{\rm MGS}$	1.28 ± 0.49
$\boldsymbol{c_{100}}$	0.99672 ± 0.00096	$100\theta_*$	$1.04092^{+0.00037}_{-0.00030}$	$\chi^2_{\rm DR11CMASS}$	2.91 ± 0.71
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018	$z_{\rm drag}$	$1060.25^{+0.41}_{-0.52}$	$\chi^2_{\rm DR11LOWZ}$	0.81 ± 0.61
$\boldsymbol{c_{TE}}$	1.0054 ± 0.0044	$r_{\rm drag}$	$146.5^{+1.1}_{-0.51}$	$\chi^2_{\rm prior}$	9.18 ± 3.6
$\boldsymbol{c_{EE}}$	1.0022 ± 0.0043	$k_{\rm D}$	$0.14128^{+0.00050}_{-0.00088}$	$\chi^2_{\rm CMB}$	23461.0 ± 6.4
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$100\theta_{\rm D}$	$0.16093^{+0.00021}_{-0.00030}$	$\chi^2_{\rm BAO}$	5.07 ± 1.0
H_0	$68.04^{+0.53}_{-0.68}$	$z_{\rm eq}$	3314^{+56}_{-28}		

$\bar{\chi}^2_{\rm eff} = 23475.30$; $R - 1 = 0.02479$

14 nnu+mnu

14.1 base_nnu_mnu_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022306	0.02215 ± 0.00041	Ω_Λ	0.6950	$0.661^{+0.054}_{-0.023}$	r_*	144.42	144.3 ± 2.6
$\boldsymbol{\Omega_c h^2}$	0.11972	0.1205 ± 0.0039	Ω_m	0.3050	$0.339^{+0.023}_{-0.054}$	$100\theta_*$	1.04107	1.04095 ± 0.00069
$\boldsymbol{100\theta_{MC}}$	1.04094	1.04068 ± 0.00058	$\Omega_m h^2$	0.14203	$0.1452^{+0.0045}_{-0.0052}$	D_A/Gpc	13.872	13.86 ± 0.25
$\boldsymbol{\tau}$	0.0789	0.081 ± 0.021	$\Omega_\nu h^2$	0.00000	< 0.00295	z_{drag}	1059.78	1059.5 ± 1.3
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.000	< 0.274	$\Omega_m h^3$	0.0969	0.0956 ± 0.0066	r_{drag}	147.11	147.1 ± 2.8
$\boldsymbol{N_{eff}}$	3.074	3.08 ± 0.31	σ_8	0.8436	$0.796^{+0.065}_{-0.030}$	k_D	0.14069	0.1407 ± 0.0020
$\boldsymbol{\ln(10^{10} A_s)}$	3.0923	3.098 ± 0.046	$\sigma_8 \Omega_m^{0.5}$	0.4659	0.461 ± 0.014	$100\theta_D$	0.16096	0.16107 ± 0.00068
$\boldsymbol{n_s}$	0.9681	0.965 ± 0.016	$\sigma_8 \Omega_m^{0.25}$	0.6270	$0.606^{+0.030}_{-0.017}$	z_{eq}	3381	3398 ± 78
$\boldsymbol{y_{cal}}$	1.00030	1.0004 ± 0.0025	$\sigma_8 / h^{0.5}$	1.0213	$0.981^{+0.052}_{-0.025}$	k_{eq}	0.010339	0.01039 ± 0.00016
$\boldsymbol{A_{217}^{CIB}}$	65.7	64.4 ± 6.7	$\langle d^2 \rangle^{1/2}$	2.4999	2.497 ± 0.050	$100\theta_{eq}$	0.8168	0.814 ± 0.015
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	z_{re}	10.04	$10.3^{+2.0}_{-1.8}$	$100\theta_{s,eq}$	0.4513	0.4498 ± 0.0075
$\boldsymbol{A_{143}^{tSZ}}$	7.03	5.00 ± 2.0	$10^9 A_s$	2.203	$2.217^{+0.095}_{-0.11}$	$r_{drag}/D_V(0.57)$	0.07192	$0.0704^{+0.0024}_{-0.0014}$
$\boldsymbol{A_{100}^{PS}}$	251.9	260 ± 29	$10^9 A_s e^{-2\tau}$	1.8810	1.882 ± 0.022	$H(0.57)$	93.46	92.2 ± 2.9
$\boldsymbol{A_{143}^{PS}}$	40.7	45 ± 9	D_{40}	1232.9	1236 ± 22	$D_A(0.57)$	1378	1415^{+51}_{-76}
$\boldsymbol{A_{143\times217}^{PS}}$	36.2	40^{+10}_{-10}	D_{220}	5718.7	5716 ± 41	$F_{AP}(0.57)$	0.6744	$0.6826^{+0.0062}_{-0.013}$
$\boldsymbol{A_{217}^{PS}}$	99.4	97 ± 10	D_{810}	2534.6	2535 ± 14	$f\sigma_8(0.57)$	0.4876	$0.470^{+0.026}_{-0.013}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.98	D_{1420}	815.0	814.3 ± 5.2	$\sigma_8(0.57)$	0.6287	$0.588^{+0.057}_{-0.027}$
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.48 ± 1.9	D_{2000}	230.61	229.7 ± 2.3	f_{2000}^{143}	29.35	31 ± 3
$\boldsymbol{A_{143}^{dustTT}}$	9.08	9.03 ± 1.8	$n_{s,0.002}$	0.9681	0.965 ± 0.016	$f_{2000}^{143\times217}$	32.07	33.1 ± 2.6
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.82	17.2 ± 4.2	Y_P	0.24574	0.2456 ± 0.0044	f_{2000}^{217}	105.68	106.7 ± 2.4
$\boldsymbol{A_{217}^{dustTT}}$	82.4	81.9 ± 7.4	Y_P^{BBN}	0.24707	0.2469 ± 0.0044	χ^2_{lowTEB}	10496.29	10497.9 ± 3.0
$\boldsymbol{c_{100}}$	0.99790	0.99788 ± 0.00078	10^5D/H	2.613	2.642 ± 0.070	χ^2_{plik}	763.3	779.1 ± 6.2
$\boldsymbol{c_{217}}$	0.99585	0.9960 ± 0.0015	Age/Gyr	13.745	$13.89^{+0.35}_{-0.43}$	χ^2_{prior}	1.95	7.44 ± 3.6
H_0	68.23	$65.8^{+4.5}_{-3.3}$	z_*	1090.00	$1090.31^{+0.52}_{-0.59}$	χ^2_{CMB}	11259.6	11277.0 ± 6.0

Best-fit $\chi^2_{eff} = 11261.51$; $\bar{\chi}^2_{eff} = 11284.42$; $R - 1 = 0.00589$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.29 plik_dx11dr2_HM_v18_TT: 763.27

14.2 base_nnu_mnu_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022268	0.02236 ± 0.00025	$\Omega_m h^2$	0.14227	0.1442 ± 0.0043	r_{drag}	147.11	146.3 ± 2.4
$\boldsymbol{\Omega_c h^2}$	0.11996	0.1207 ± 0.0039	$\Omega_\nu h^2$	0.00004	< 0.00134	k_D	0.14068	0.1412 ± 0.0017
$\boldsymbol{100\theta_{MC}}$	1.04089	1.04077 ± 0.00056	$\Omega_m h^3$	0.09681	$0.0985^{+0.0046}_{-0.0051}$	$100\theta_D$	0.16099	0.16123 ± 0.00060
$\boldsymbol{\tau}$	0.0754	0.085 ± 0.019	σ_8	0.8415	$0.829^{+0.025}_{-0.021}$	z_{eq}	3388.1	3358 ± 40
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.004	< 0.125	$\sigma_8 \Omega_m^{0.5}$	0.4664	$0.461^{+0.013}_{-0.011}$	k_{eq}	0.010357	0.01034 ± 0.00015
$\boldsymbol{N_{eff}}$	3.069	$3.18^{+0.24}_{-0.27}$	$\sigma_8 \Omega_m^{0.25}$	0.6265	$0.618^{+0.017}_{-0.015}$	$100\theta_{eq}$	0.8155	$0.8213^{+0.0074}_{-0.0083}$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0859	3.106 ± 0.041	$\sigma_8/h^{0.5}$	1.0200	$1.003^{+0.028}_{-0.021}$	$100\theta_{s,eq}$	0.45060	$0.4536^{+0.0038}_{-0.0042}$
$\boldsymbol{n_s}$	0.9671	0.973 ± 0.010	$\langle d^2 \rangle^{1/2}$	2.4973	2.484 ± 0.044	$r_{drag}/D_V(0.57)$	0.071805	0.07171 ± 0.00049
$\boldsymbol{y_{cal}}$	1.00041	1.0005 ± 0.0025	z_{re}	9.74	10.5 ± 1.7	$H(0.57)$	93.36	93.8 ± 1.7
$\boldsymbol{A_{217}^{CIB}}$	66.5	64.6 ± 6.8	$10^9 A_s$	2.189	$2.234^{+0.086}_{-0.099}$	$D_A(0.57)$	1380.5	1375 ± 27
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.06	—	$10^9 A_s e^{-2\tau}$	1.8824	1.885 ± 0.021	$F_{AP}(0.57)$	0.67494	0.6754 ± 0.0023
$\boldsymbol{A_{143}^{tSZ}}$	7.06	4.98 ± 2.0	D_{40}	1233.6	1229 ± 16	$f\sigma_8(0.57)$	0.4870	$0.482^{+0.013}_{-0.011}$
$\boldsymbol{A_{100}^{PS}}$	253.0	260 ± 28	D_{220}	5717.8	5720 ± 40	$\sigma_8(0.57)$	0.6266	$0.618^{+0.019}_{-0.017}$
$\boldsymbol{A_{143}^{PS}}$	39.5	45 ± 8	D_{810}	2535.6	2535 ± 14	f_{2000}^{143}	29.43	30.7 ± 3.4
$\boldsymbol{A_{143\times217}^{PS}}$	34.1	39^{+10}_{-10}	D_{1420}	815.0	$814.3^{+5.5}_{-5.0}$	$f_{2000}^{143\times217}$	32.17	33.0 ± 2.5
$\boldsymbol{A_{217}^{PS}}$	98.2	97 ± 10	D_{2000}	230.52	229.8 ± 2.2	f_{2000}^{217}	105.88	106.5 ± 2.4
$\boldsymbol{A^{kSZ}}$	0.01	< 4.97	$n_{s,0.002}$	0.9671	0.973 ± 0.010	χ^2_{lowTEB}	10496.09	10496.9 ± 2.6
$\boldsymbol{A_{100}^{dustTT}}$	7.48	7.50 ± 1.9	Y_P	0.24567	0.2472 ± 0.0034	χ^2_{plik}	763.5	778.6 ± 6.1
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.04 ± 1.8	Y_P^{BBN}	0.24699	0.2485 ± 0.0034	χ^2_{6DF}	0.0061	0.069 ± 0.095
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.77	17.1 ± 4.2	10^5D/H	2.619	2.639 ± 0.068	χ^2_{MGS}	1.47	1.43 ± 0.63
$\boldsymbol{A_{217}^{dustTT}}$	82.3	81.7 ± 7.4	Age/Gyr	13.756	13.69 ± 0.23	$\chi^2_{DR11CMASS}$	2.413	3.01 ± 0.85
$\boldsymbol{c_{100}}$	0.99794	0.99788 ± 0.00078	z_*	1090.062	1090.12 ± 0.48	$\chi^2_{DR11LOWZ}$	0.429	0.73 ± 0.68
$\boldsymbol{c_{217}}$	0.99595	0.9960 ± 0.0015	r_*	144.41	143.6 ± 2.3	χ^2_{prior}	1.96	7.41 ± 3.5
H_0	68.05	68.3 ± 1.5	$100\theta_*$	1.04105	1.04089 ± 0.00068	χ^2_{CMB}	11259.6	11275.5 ± 5.7
Ω_Λ	0.6928	0.6908 ± 0.0090	D_A/Gpc	13.871	13.80 ± 0.21	χ^2_{BAO}	4.32	5.24 ± 1.3
Ω_m	0.3072	0.3092 ± 0.0090	z_{drag}	1059.70	1060.07 ± 0.94			

Best-fit $\chi^2_{eff} = 11265.87$; $\bar{\chi}^2_{eff} = 11288.16$; $R - 1 = 0.01565$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.41 DR11LOWZ: 0.43 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.09 plik_dx11dr2_HM_v18_TT: 763.49

14.3 base_nnu_mnu_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022403	0.02241 ± 0.00031	Ω_m	0.2997	$0.311^{+0.017}_{-0.024}$	D_A/Gpc	13.788	13.74 ± 0.20
$\boldsymbol{\Omega_c h^2}$	0.12086	0.1216 ± 0.0037	$\Omega_m h^2$	0.14327	$0.1454^{+0.0040}_{-0.0046}$	z_{drag}	1060.16	1060.3 ± 1.0
$\boldsymbol{100\theta_{MC}}$	1.04085	1.04067 ± 0.00056	$\Omega_\nu h^2$	0.00001	< 0.00163	r_{drag}	146.16	145.7 ± 2.3
$\boldsymbol{\tau}$	0.0820	0.087 ± 0.021	$\Omega_m h^3$	0.0991	0.0997 ± 0.0050	k_D	0.14135	0.1417 ± 0.0017
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.151	σ_8	0.8489	$0.827^{+0.034}_{-0.023}$	$100\theta_D$	0.16119	0.16137 ± 0.00059
$\boldsymbol{N_{eff}}$	3.182	3.25 ± 0.25	$\sigma_8\Omega_m^{0.5}$	0.4647	0.460 ± 0.013	z_{eq}	3362	3352 ± 59
$\boldsymbol{\ln(10^{10}A_s)}$	3.1012	3.112 ± 0.043	$\sigma_8\Omega_m^{0.25}$	0.6281	$0.617^{+0.019}_{-0.015}$	k_{eq}	0.010355	0.01037 ± 0.00016
$\boldsymbol{n_s}$	0.9730	0.975 ± 0.012	$\sigma_8/h^{0.5}$	1.0209	$0.999^{+0.032}_{-0.022}$	$100\theta_{eq}$	0.8206	0.823 ± 0.012
$\boldsymbol{y_{cal}}$	1.00024	1.0005 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4927	2.482 ± 0.046	$100\theta_{s,eq}$	0.4532	0.4543 ± 0.0059
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.8 ± 6.8	z_{re}	10.33	10.7 ± 1.8	$r_{drag}/D_V(0.57)$	0.07221	$0.0717^{+0.0012}_{-0.0010}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	10^9A_s	2.222	$2.250^{+0.092}_{-0.10}$	$H(0.57)$	94.31	94.2 ± 2.0
$\boldsymbol{A_{143}^{tSZ}}$	7.19	4.89 ± 2.0	$10^9A_se^{-2\tau}$	1.8861	1.889 ± 0.020	$D_A(0.57)$	1362.6	1371 ± 37
$\boldsymbol{A_{100}^{PS}}$	253.6	262 ± 28	D_{40}	1226.7	1226 ± 18	$F_{AP}(0.57)$	0.6730	$0.6757^{+0.0045}_{-0.0060}$
$\boldsymbol{A_{143}^{PS}}$	39.1	46 ± 8	D_{220}	5718.0	5720 ± 41	$f\sigma_8(0.57)$	0.4892	$0.481^{+0.015}_{-0.012}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.8	39^{+9}_{-10}	D_{810}	2535.2	2537 ± 14	$\sigma_8(0.57)$	0.6341	$0.616^{+0.029}_{-0.020}$
$\boldsymbol{A_{217}^{PS}}$	97.3	97 ± 10	D_{1420}	814.3	814.1 ± 5.2	f_{2000}^{143}	29.91	31.2 ± 3.4
$\boldsymbol{A^{kSZ}}$	0.01	< 5.23	D_{2000}	230.07	229.5 ± 2.2	$f_{2000}^{143\times217}$	32.57	33.4 ± 2.5
$\boldsymbol{A_{100}^{dustTT}}$	7.38	7.53 ± 1.9	$n_{s,0.002}$	0.9730	0.975 ± 0.012	f_{2000}^{217}	106.19	106.9 ± 2.3
$\boldsymbol{A_{143}^{dustTT}}$	9.07	9.06 ± 1.8	Y_P	0.24724	0.2481 ± 0.0034	χ^2_{lowTEB}	10495.80	10496.9 ± 2.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.67	17.2 ± 4.2	Y_P^{BBN}	0.24857	0.2494 ± 0.0034	χ^2_{plik}	763.8	779.4 ± 6.3
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	10^5D/H	2.632	2.654 ± 0.066	χ^2_{H070p6}	0.194	0.9 ± 1.1
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00078	Age/Gyr	13.632	13.64 ± 0.26	χ^2_{prior}	2.07	7.44 ± 3.6
$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0015	z_*	1090.08	1090.22 ± 0.50	χ^2_{CMB}	11259.6	11276.2 ± 5.9
H_0	69.14	68.5 ± 2.4	r_*	143.52	143.0 ± 2.2			
Ω_Λ	0.7003	$0.689^{+0.024}_{-0.017}$	$100\theta_*$	1.04091	1.04076 ± 0.00065			

Best-fit $\chi^2_{eff} = 11261.82$; $\bar{\chi}^2_{eff} = 11284.53$; $R - 1 = 0.01064$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.80 plik_dx11dr2_HM_v18_TT: 763.76 Hubble - H070p6: 0.19

14.4 base_nnu_mnu_plikHM_TT_lowTEB_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022356	0.02242 ± 0.00024	$\Omega_\nu h^2$	0.00001	< 0.00135	$100\theta_{\rm D}$	0.16106	0.16135 ± 0.00057
$\boldsymbol{\Omega_c h^2}$	0.12083	0.1215 ± 0.0037	$\Omega_{\rm m} h^3$	0.09810	$0.0998^{+0.0043}_{-0.0048}$	$z_{\rm eq}$	3382.5	3350^{+41}_{-36}
$\boldsymbol{100\theta_{\rm MC}}$	1.04076	1.04070 ± 0.00055	σ_8	0.8472	$0.832^{+0.025}_{-0.020}$	$k_{\rm eq}$	0.010383	0.01036 ± 0.00014
$\boldsymbol{\tau}$	0.0797	0.086 ± 0.019	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4679	$0.461^{+0.013}_{-0.011}$	$100\theta_{\rm eq}$	0.8167	$0.8229^{+0.0068}_{-0.0080}$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.126	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6296	$0.619^{+0.017}_{-0.015}$	$100\theta_{\rm s,eq}$	0.45116	$0.4544^{+0.0035}_{-0.0041}$
$\boldsymbol{N_{\rm eff}}$	3.132	$3.24^{+0.22}_{-0.25}$	$\sigma_8/h^{0.5}$	1.0235	$1.004^{+0.027}_{-0.021}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071897	0.07184 ± 0.00045
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0965	3.111 ± 0.041	$\langle d^2 \rangle^{1/2}$	2.5040	2.482 ± 0.044	$H(0.57)$	93.84	94.3 ± 1.5
$\boldsymbol{n_{\rm s}}$	0.9690	$0.9753^{+0.0089}_{-0.010}$	$z_{\rm re}$	10.13	10.7 ± 1.7	$D_{\rm A}(0.57)$	1372.4	1367 ± 24
$\boldsymbol{y_{\rm cal}}$	1.00039	1.0005 ± 0.0025	$10^9 A_{\rm s}$	2.212	$2.246^{+0.085}_{-0.099}$	$F_{\rm AP}(0.57)$	0.67440	0.6748 ± 0.0021
$\boldsymbol{A_{217}^{\rm CIB}}$	67.6	64.8 ± 6.8	$10^9 A_{\rm s} e^{-2\tau}$	1.8861	1.889 ± 0.020	$f\sigma_8(0.57)$	0.4897	$0.483^{+0.013}_{-0.011}$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	D_{40}	1233.6	1226 ± 16	$\sigma_8(0.57)$	0.6314	$0.621^{+0.019}_{-0.016}$
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.22	4.91 ± 2.0	D_{220}	5722.4	5721 ± 41	f_{2000}^{143}	29.98	31.1 ± 3.4
$\boldsymbol{A_{100}^{\rm PS}}$	254.3	262 ± 29	D_{810}	2535.1	2537 ± 14	$f_{2000}^{143\times217}$	32.59	33.3 ± 2.5
$\boldsymbol{A_{143}^{\rm PS}}$	39.1	45 ± 8	D_{1420}	814.2	$814.1^{+5.6}_{-4.9}$	f_{2000}^{217}	106.17	106.8 ± 2.3
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39^{+10}_{-10}	D_{2000}	230.16	$229.6^{+2.4}_{-2.1}$	$\chi^2_{\rm lowTEB}$	10496.32	10496.6 ± 2.6
$\boldsymbol{A_{217}^{\rm PS}}$	97.0	97 ± 10	$n_{\rm s,0.002}$	0.9690	$0.9753^{+0.0089}_{-0.010}$	$\chi^2_{\rm plik}$	763.2	778.9 ± 6.1
$\boldsymbol{A^{\rm kSZ}}$	0.01	< 5.17	$Y_{\rm P}$	0.24655	0.2480 ± 0.0031	$\chi^2_{\rm H070p6}$	0.397	0.47 ± 0.50
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.45	7.52 ± 1.9	$Y_{\rm P}^{\rm BBN}$	0.24788	0.2494 ± 0.0031	$\chi^2_{\rm JLA}$	706.596	706.68 ± 0.20
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.18	9.06 ± 1.8	10^5D/H	2.624	2.651 ± 0.066	$\chi^2_{\rm 6DF}$	0.0009	0.050 ± 0.071
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.70	17.2 ± 4.2	Age/Gyr	13.690	13.62 ± 0.21	$\chi^2_{\rm MGS}$	1.61	1.59 ± 0.62
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.9	81.6 ± 7.4	z_*	1090.090	1090.18 ± 0.47	$\chi^2_{\rm DR11CMASS}$	2.453	2.93 ± 0.72
$\boldsymbol{c_{100}}$	0.99790	0.99788 ± 0.00078	r_*	143.81	143.1 ± 2.1	$\chi^2_{\rm DR11LOWZ}$	0.326	0.55 ± 0.55
$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0015	$100\theta_*$	1.04086	1.04078 ± 0.00066	$\chi^2_{\rm prior}$	2.15	7.42 ± 3.5
H_0	68.51	68.8 ± 1.4	$D_{\rm A}$/Gpc	13.816	13.75 ± 0.20	$\chi^2_{\rm CMB}$	11259.5	11275.6 ± 5.8
Ω_Λ	0.6949	$0.6933^{+0.0089}_{-0.0080}$	$z_{\rm drag}$	1060.05	1060.31 ± 0.87	$\chi^2_{\rm BAO}$	4.39	5.12 ± 1.1
$\Omega_{\rm m}$	0.3051	0.3067 ± 0.0083	$r_{\rm drag}$	146.46	145.7 ± 2.2			
$\Omega_{\rm m} h^2$	0.14319	0.1450 ± 0.0041	$k_{\rm D}$	0.14118	0.1417 ± 0.0016			

Best-fit $\chi^2_{\rm eff} = 11973.06$; $\bar{\chi}^2_{\rm eff} = 11995.28$; $R - 1 = 0.01765$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.45 DR11LOWZ: 0.33 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.32 plik_dx11dr2_HM_v18_TT: 763.21 Hubble - H070p6: 0.40 SN - JLA December_2013: 706.60

14.5 base_nnu_mnu_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022199	0.02215 ± 0.00025	$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1312	0.132 ± 0.029	Y_P^{BBN}	0.24509	0.2456 ± 0.0029
$\boldsymbol{\Omega_c h^2}$	0.11806	0.1191 ± 0.0031	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.300	0.304 ± 0.084	10^5D/H	2.5842	2.608 ± 0.047
$\boldsymbol{100\theta_{MC}}$	1.040996	1.04081 ± 0.00045	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.156 ± 0.054	Age/Gyr	13.894	$13.95^{+0.22}_{-0.26}$
$\boldsymbol{\tau}$	0.0757	0.081 ± 0.018	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.340 ± 0.080	z_*	1089.850	1090.07 ± 0.38
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.191	$\boldsymbol{A^{dustTE}_{217}}$	1.667	1.68 ± 0.26	r_*	145.64	145.2 ± 1.9
$\boldsymbol{N_{eff}}$	2.934	2.98 ± 0.20	$\boldsymbol{c_{100}}$	0.99822	0.99817 ± 0.00077	$100\theta_*$	1.04124	1.04112 ± 0.00055
$\boldsymbol{\ln(10^{10}A_s)}$	3.0823	3.095 ± 0.039	$\boldsymbol{c_{217}}$	0.99583	0.9960 ± 0.0015	D_A/Gpc	13.987	13.95 ± 0.18
$\boldsymbol{n_s}$	0.9612	0.9610 ± 0.0099	H_0	67.12	$65.8^{+2.6}_{-1.8}$	z_{drag}	1059.32	1059.32 ± 0.86
$\boldsymbol{y_{cal}}$	1.00026	1.0004 ± 0.0025	Ω_Λ	0.6886	$0.668^{+0.029}_{-0.014}$	r_{drag}	148.38	147.9 ± 2.0
$\boldsymbol{A^{CIB}_{217}}$	63.4	63.6 ± 6.6	Ω_m	0.3114	$0.332^{+0.014}_{-0.029}$	k_D	0.13982	0.1401 ± 0.0014
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.42	—	$\Omega_m h^2$	0.14028	$0.1430^{+0.0033}_{-0.0040}$	$100\theta_D$	0.160637	0.16079 ± 0.00043
$\boldsymbol{A^{tSZ}_{143}}$	6.97	5.37 ± 1.9	$\Omega_\nu h^2$	0.00001	< 0.00206	z_{eq}	3403.2	3408 ± 41
$\boldsymbol{A^{PS}_{100}}$	250.6	259 ± 28	$\Omega_m h^3$	0.09415	0.0941 ± 0.0042	k_{eq}	0.010308	0.01035 ± 0.00012
$\boldsymbol{A^{PS}_{143}}$	43.2	43 ± 8	σ_8	0.8366	$0.807^{+0.044}_{-0.022}$	$100\theta_{eq}$	0.8126	0.8118 ± 0.0078
$\boldsymbol{A^{PS}_{143\times217}}$	44.0	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4668	0.464 ± 0.011	$100\theta_{s,eq}$	0.44912	0.4488 ± 0.0040
$\boldsymbol{A^{PS}_{217}}$	102.6	98 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6249	$0.612^{+0.023}_{-0.014}$	$r_{drag}/D_V(0.57)$	0.07159	$0.0706^{+0.0014}_{-0.00075}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.04	$\sigma_8/h^{0.5}$	1.0211	$0.995^{+0.039}_{-0.020}$	$H(0.57)$	92.37	$91.8^{+1.9}_{-1.7}$
$\boldsymbol{A^{dustTT}_{100}}$	7.31	7.40 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5109	2.509 ± 0.040	$D_A(0.57)$	1397.4	1417^{+30}_{-44}
$\boldsymbol{A^{dustTT}_{143}}$	8.98	8.89 ± 1.8	z_{re}	9.73	$10.2^{+1.8}_{-1.6}$	$F_{AP}(0.57)$	0.6760	$0.6810^{+0.0035}_{-0.0071}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.93	17.0 ± 4.2	10^9A_s	2.181	2.210 ± 0.085	$f\sigma_8(0.57)$	0.4853	$0.475^{+0.018}_{-0.011}$
$\boldsymbol{A^{dustTT}_{217}}$	82.5	81.7 ± 7.4	$10^9A_s e^{-2\tau}$	1.8742	1.878 ± 0.018	$\sigma_8(0.57)$	0.6219	$0.597^{+0.037}_{-0.019}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0810	0.0809 ± 0.0056	D_{40}	1243.5	1246 ± 16	f^{143}_{2000}	27.97	29.4 ± 2.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04858	0.0485 ± 0.0050	D_{220}	5729.1	5728 ± 39	$f^{143\times217}_{2000}$	31.30	32.1 ± 2.2
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0997	0.0999 ± 0.033	D_{810}	2534.7	2535 ± 14	f^{217}_{2000}	104.88	105.8 ± 2.1
$\boldsymbol{A^{dustEE}_{143}}$	0.0999	0.0999 ± 0.0069	D_{1420}	815.80	815.1 ± 4.9	χ^2_{lowTEB}	10497.35	10498.5 ± 2.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2261	0.225 ± 0.047	D_{2000}	231.32	230.6 ± 1.9	χ^2_{plik}	2430.8	2451.9 ± 7.2
$\boldsymbol{A^{dustEE}_{217}}$	0.649	0.65 ± 0.13	$n_{s,0.002}$	0.9612	0.9610 ± 0.0099	χ^2_{prior}	6.50	19.2 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1415	0.141 ± 0.038	Y_P	0.24377	0.2443 ± 0.0029	χ^2_{CMB}	12928.2	12950.5 ± 7.1

Best-fit $\chi^2_{eff} = 12934.70$; $\bar{\chi}^2_{eff} = 12969.63$; $R - 1 = 0.00644$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.35 plik_dx11dr2_HM_v18_TTTEEE: 2430.85

14.6 base_nnu_mnu_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022225	0.02229 ± 0.00020	$\boldsymbol{A_{143}^{dustTE}}$	0.154	0.155 ± 0.054	r_*	145.43	144.7 ± 1.8
$\boldsymbol{\Omega_c h^2}$	0.11831	0.1192 ± 0.0030	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.337	0.338 ± 0.080	$100\theta_*$	1.04120	1.04105 ± 0.00052
$\boldsymbol{100\theta_{MC}}$	1.040974	1.04085 ± 0.00043	$\boldsymbol{A_{217}^{dustTE}}$	1.663	1.67 ± 0.26	D_A/Gpc	13.967	13.90 ± 0.16
$\boldsymbol{\tau}$	0.0794	0.084 ± 0.017	$\boldsymbol{c_{100}}$	0.99824	0.99816 ± 0.00077	z_{drag}	1059.40	1059.69 ± 0.73
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.0028	< 0.0836	$\boldsymbol{c_{217}}$	0.99579	0.9959 ± 0.0015	r_{drag}	148.15	147.4 ± 1.8
$\boldsymbol{N_{eff}}$	2.959	3.04 ± 0.18	H_0	67.34	67.5 ± 1.2	k_D	0.13997	0.1405 ± 0.0013
$\boldsymbol{\ln(10^{10}A_s)}$	3.0900	3.101 ± 0.036	Ω_Λ	0.6900	$0.6877^{+0.0084}_{-0.0074}$	$100\theta_D$	0.160690	0.16087 ± 0.00041
$\boldsymbol{n_s}$	0.9629	0.9661 ± 0.0078	Ω_m	0.3100	$0.3123^{+0.0074}_{-0.0084}$	z_{eq}	3397.8	3382 ± 28
$\boldsymbol{y_{cal}}$	1.00003	1.0004 ± 0.0025	$\Omega_m h^2$	0.14057	$0.1422^{+0.0031}_{-0.0034}$	k_{eq}	0.010310	0.01032 ± 0.00012
$\boldsymbol{A_{217}^{CIB}}$	62.7	63.5 ± 6.7	$\Omega_\nu h^2$	0.000030	< 0.000899	$100\theta_{eq}$	0.8136	0.8167 ± 0.0054
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.50	—	$\Omega_m h^3$	0.09466	0.0960 ± 0.0035	$100\theta_{s,eq}$	0.44964	0.4512 ± 0.0027
$\boldsymbol{A_{143}^{tSZ}}$	6.92	5.40 ± 1.9	σ_8	0.8401	0.832 ± 0.019	$r_{drag}/D_V(0.57)$	0.071663	0.07155 ± 0.00041
$\boldsymbol{A_{100}^{PS}}$	249.0	259 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4677	0.4648 ± 0.0097	$H(0.57)$	92.58	92.9 ± 1.3
$\boldsymbol{A_{143}^{PS}}$	44.6	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6268	0.622 ± 0.013	$D_A(0.57)$	1393.6	1389 ± 21
$\boldsymbol{A_{143\times217}^{PS}}$	46.5	40 ± 10	$\sigma_8/h^{0.5}$	1.0237	$1.013^{+0.021}_{-0.019}$	$F_{AP}(0.57)$	0.67564	0.6762 ± 0.0020
$\boldsymbol{A_{217}^{PS}}$	103.6	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5146	2.505 ± 0.039	$f\sigma_8(0.57)$	0.4869	0.484 ± 0.010
$\boldsymbol{A^{kSZ}}$	0.00	< 3.97	z_{re}	10.07	$10.4^{+1.7}_{-1.5}$	$\sigma_8(0.57)$	0.6249	0.619 ± 0.015
$\boldsymbol{A_{100}^{dustTT}}$	7.30	7.41 ± 1.9	$10^9 A_s$	2.198	2.223 ± 0.080	f_{2000}^{143}	27.93	29.1 ± 2.9
$\boldsymbol{A_{143}^{dustTT}}$	8.95	8.93 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8749	1.879 ± 0.017	$f_{2000}^{143\times217}$	31.25	31.9 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.02	17.0 ± 4.2	D_{40}	1241.6	1240 ± 14	f_{2000}^{217}	104.70	105.6 ± 2.0
$\boldsymbol{A_{217}^{dustTT}}$	82.7	81.7 ± 7.5	D_{220}	5724.9	5730 ± 38	χ^2_{lowTEB}	10497.43	10498.0 ± 2.5
$\boldsymbol{A_{100}^{dustEE}}$	0.0810	0.0812 ± 0.0056	D_{810}	2534.1	2535^{+15}_{-13}	χ^2_{plik}	2430.9	2451.1 ± 7.7
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04862	0.0490 ± 0.0050	D_{1420}	815.57	815.0 ± 4.9	χ^2_{6DF}	0.0216	0.079 ± 0.099
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0998	0.099 ± 0.033	D_{2000}	231.25	230.7 ± 1.8	χ^2_{MGS}	1.28	1.21 ± 0.51
$\boldsymbol{A_{143}^{dustEE}}$	0.0999	0.1004 ± 0.0069	$n_{s,0.002}$	0.9629	0.9661 ± 0.0078	$\chi^2_{DR11CMASS}$	2.450	2.98 ± 0.82
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2235	0.224 ± 0.047	Y_P	0.24414	0.2453 ± 0.0025	$\chi^2_{DR11LOWZ}$	0.61	0.91 ± 0.67
$\boldsymbol{A_{217}^{dustEE}}$	0.652	0.65 ± 0.13	Y_P^{BBN}	0.24547	0.2466 ± 0.0025	χ^2_{prior}	6.43	19.3 ± 5.5
$\boldsymbol{A_{100}^{dustTE}}$	0.1406	0.141 ± 0.038	10^5D/H	2.5885	2.605 ± 0.046	χ^2_{CMB}	12928.3	12949.1 ± 7.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1309	0.131 ± 0.029	Age/Gyr	13.866	13.81 ± 0.18	χ^2_{BAO}	4.36	5.17 ± 1.2
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.302	0.303 ± 0.084	z_*	1089.864	1089.94 ± 0.35			

Best-fit $\chi^2_{eff} = 12939.09$; $\bar{\chi}^2_{eff} = 12973.53$; $R - 1 = 0.01571$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.45 DR11LOWZ: 0.61 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.43 plik_dx11dr2_HM_v18_TTTEEE:

2430.87

14.7 base_nnu_mnu_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022294	0.02228 ± 0.00022	$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.302	0.303 ± 0.084	Age/Gyr	13.753	13.81 ± 0.19
$\boldsymbol{\Omega_c h^2}$	0.11998	0.1200 ± 0.0030	$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.154	0.155 ± 0.054	z_*	1090.033	1090.06 ± 0.37
$\boldsymbol{100\theta_{\mathrm{MC}}}$	1.040796	1.04075 ± 0.00043	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.340	0.338 ± 0.080	r_*	144.37	144.4 ± 1.7
$\boldsymbol{\tau}$	0.0769	0.084 ± 0.018	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.668	1.67 ± 0.26	$100\theta_*$	1.04093	1.04095 ± 0.00052
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.001	< 0.121	$\boldsymbol{c_{100}}$	0.99816	0.99816 ± 0.00077	$D_{\mathrm{A}}/\mathrm{Gpc}$	13.869	13.87 ± 0.16
$\boldsymbol{N_{\mathrm{eff}}}$	3.072	3.07 ± 0.19	$\boldsymbol{c_{217}}$	0.99601	0.9960 ± 0.0015	z_{drag}	1059.78	1059.75 ± 0.77
$\boldsymbol{\ln(10^{10} A_{\mathrm{s}})}$	3.0894	3.102 ± 0.038	H_0	68.07	$67.2^{+1.7}_{-1.5}$	r_{drag}	147.06	147.1 ± 1.8
$\boldsymbol{n_{\mathrm{s}}}$	0.9660	0.9661 ± 0.0088	Ω_Λ	0.6929	$0.682^{+0.017}_{-0.011}$	k_{D}	0.14074	0.1407 ± 0.0013
$\boldsymbol{y_{\mathrm{cal}}}$	1.00041	1.0004 ± 0.0025	Ω_{m}	0.3071	$0.318^{+0.011}_{-0.017}$	$100\theta_{\mathrm{D}}$	0.160946	0.16095 ± 0.00041
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	67.1	63.7 ± 6.7	$\Omega_{\mathrm{m}} h^2$	0.14228	$0.1434^{+0.0031}_{-0.0037}$	z_{eq}	3387.9	3388 ± 37
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	0.07	—	$\Omega_\nu h^2$	0.00001	< 0.00130	k_{eq}	0.010358	0.01036 ± 0.00012
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	7.24	5.35 ± 1.9	$\Omega_{\mathrm{m}} h^3$	0.09685	0.0964 ± 0.0037	$100\theta_{\mathrm{eq}}$	0.8155	0.8156 ± 0.0072
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	256.7	260 ± 28	σ_8	0.8426	$0.826^{+0.028}_{-0.020}$	$100\theta_{\mathrm{s,eq}}$	0.45059	0.4506 ± 0.0036
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	39.3	43 ± 8	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4669	0.466 ± 0.010	$r_{\mathrm{drag}}/D_{\mathrm{V}}(0.57)$	0.07180	$0.07126^{+0.00087}_{-0.00064}$
$\boldsymbol{A^{PS}_{143\times217}}$	34.5	40 ± 10	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6272	$0.620^{+0.016}_{-0.013}$	$H(0.57)$	93.37	92.9 ± 1.4
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	97.6	98 ± 10	$\sigma_8/h^{0.5}$	1.0213	$1.008^{+0.027}_{-0.019}$	$D_{\mathrm{A}}(0.57)$	1380.2	1393^{+25}_{-29}
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.13	$\langle d^2 \rangle^{1/2}$	2.5039	2.506 ± 0.040	$F_{\mathrm{AP}}(0.57)$	0.67491	$0.6776^{+0.0029}_{-0.0043}$
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.37	7.43 ± 1.9	z_{re}	9.86	$10.4^{+1.8}_{-1.5}$	$f\sigma_8(0.57)$	0.4876	$0.483^{+0.012}_{-0.010}$
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	9.01	8.93 ± 1.8	$10^9 A_{\mathrm{s}}$	2.196	2.226 ± 0.084	$\sigma_8(0.57)$	0.6274	$0.614^{+0.024}_{-0.016}$
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.55	17.0 ± 4.1	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8834	1.883 ± 0.017	f^{143}_{2000}	29.47	29.5 ± 2.9
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	81.8	81.7 ± 7.5	D_{40}	1238.0	1240 ± 15	$f^{143\times217}_{2000}$	32.31	32.2 ± 2.1
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0813	0.0812 ± 0.0058	D_{220}	5729.7	5729 ± 38	f^{217}_{2000}	105.91	105.8 ± 2.1
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0490	0.0489 ± 0.0050	D_{810}	2535.7	2536 ± 14	χ^2_{lowTEB}	10496.61	10498.0 ± 2.5
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0998	0.099 ± 0.033	D_{1420}	814.57	814.8 ± 4.9	χ^2_{plik}	2431.5	2452 ± 14
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1003	0.1003 ± 0.0069	D_{2000}	230.37	230.4 ± 1.8	χ^2_{H070p6}	0.58	1.28 ± 1.1
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2226	0.224 ± 0.047	$n_{\mathrm{s},0.002}$	0.9660	0.9661 ± 0.0088	χ^2_{prior}	7.10	19.3 ± 5.9
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.648	0.65 ± 0.13	Y_{P}	0.24572	0.2457 ± 0.0026	χ^2_{CMB}	12928.1	12950 ± 14
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1406	0.140 ± 0.038	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24704	0.2470 ± 0.0026			
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1316	0.131 ± 0.029	$10^5\mathrm{D/H}$	2.6148	2.616 ± 0.046			

Best-fit $\chi^2_{\mathrm{eff}} = 12935.77$; $\bar{\chi}^2_{\mathrm{eff}} = 12970.52$; $R - 1 = 0.01068$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.61 plik_dx11dr2_HM_v18_TTTEEE: 2431.49 Hubble - H070p6: 0.58

14.8 base_nnu_mnu_plikHM_TTTEEE_lowTEB_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022276	0.02234 ± 0.00019	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.337 ± 0.080	D_A/Gpc	13.937	13.86 ± 0.16
$\boldsymbol{\Omega_c h^2}$	0.11861	$0.1198^{+0.0028}_{-0.0032}$	$\boldsymbol{A^{dustTE}_{217}}$	1.667	1.66 ± 0.26	z_{drag}	1059.59	1059.90 ± 0.70
$\boldsymbol{100\theta_{MC}}$	1.040932	1.04079 ± 0.00042	$\boldsymbol{c_{100}}$	0.99830	0.99815 ± 0.00077	r_{drag}	147.81	146.9 ± 1.7
$\boldsymbol{\tau}$	0.0817	0.085 ± 0.017	$\boldsymbol{c_{217}}$	0.99583	0.9959 ± 0.0015	k_D	0.14022	0.1408 ± 0.0013
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.0022	< 0.0799	H_0	67.73	67.9 ± 1.1	$100\theta_D$	0.160756	0.16097 ± 0.00039
$\boldsymbol{N_{eff}}$	2.999	$3.10^{+0.17}_{-0.19}$	Ω_Λ	0.6928	0.6902 ± 0.0073	z_{eq}	3388.3	3375 ± 27
$\boldsymbol{\ln(10^{10} A_s)}$	3.0961	3.106 ± 0.036	Ω_m	0.3072	0.3098 ± 0.0073	k_{eq}	0.010308	0.01034 ± 0.00012
$\boldsymbol{n_s}$	0.9649	0.9684 ± 0.0074	$\Omega_m h^2$	0.14091	$0.1429^{+0.0030}_{-0.0034}$	$100\theta_{eq}$	0.8155	$0.8180^{+0.0049}_{-0.0055}$
$\boldsymbol{y_{cal}}$	1.00028	1.0004 ± 0.0025	$\Omega_\nu h^2$	0.000023	< 0.000859	$100\theta_{s,eq}$	0.45058	$0.4519^{+0.0025}_{-0.0028}$
$\boldsymbol{A^{CIB}_{217}}$	62.6	63.6 ± 6.7	$\Omega_m h^3$	0.09544	$0.0971^{+0.0032}_{-0.0037}$	$r_{drag}/D_V(0.57)$	0.071806	0.07167 ± 0.00039
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.53	—	σ_8	0.8428	0.836 ± 0.019	$H(0.57)$	92.91	93.4 ± 1.2
$\boldsymbol{A^{tSZ}_{143}}$	6.84	5.37 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4671	0.4651 ± 0.0096	$D_A(0.57)$	1387.1	1382 ± 20
$\boldsymbol{A^{PS}_{100}}$	250.7	259 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6275	0.624 ± 0.013	$F_{AP}(0.57)$	0.67494	0.6756 ± 0.0018
$\boldsymbol{A^{PS}_{143}}$	45.4	43 ± 8	$\sigma_8/h^{0.5}$	1.0241	$1.014^{+0.021}_{-0.018}$	$f\sigma_8(0.57)$	0.4878	0.4856 ± 0.0098
$\boldsymbol{A^{PS}_{143\times217}}$	47.7	40 ± 10	$\langle d^2\rangle^{1/2}$	2.5137	2.504 ± 0.039	$\sigma_8(0.57)$	0.6276	0.622 ± 0.014
$\boldsymbol{A^{PS}_{217}}$	104.3	98 ± 10	z_{re}	10.26	$10.6^{+1.7}_{-1.4}$	f^{143}_{2000}	27.97	29.4 ± 2.9
$\boldsymbol{A^{kSZ}}$	0.01	< 4.03	$10^9 A_s$	2.211	2.234 ± 0.080	$f^{143\times217}_{2000}$	31.39	32.0 ± 2.1
$\boldsymbol{A^{dustTT}_{100}}$	7.33	7.42 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8779	1.882 ± 0.017	f^{217}_{2000}	104.90	105.7 ± 2.0
$\boldsymbol{A^{dustTT}_{143}}$	8.89	8.95 ± 1.8	D_{40}	1240.3	1238 ± 14	χ^2_{lowTEB}	10497.34	10497.8 ± 2.5
$\boldsymbol{A^{dustTT}_{143\times217}}$	18.01	17.0 ± 4.2	D_{220}	5730.8	5730 ± 38	χ^2_{plik}	2431.1	2451.4 ± 7.1
$\boldsymbol{A^{dustTT}_{217}}$	82.6	81.7 ± 7.5	D_{810}	2536.0	2536^{+15}_{-13}	χ^2_{H070p6}	0.749	0.76 ± 0.55
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0813 ± 0.0056	D_{1420}	815.99	814.9 ± 4.9	χ^2_{JLA}	706.639	706.74 ± 0.20
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0489	0.0491 ± 0.0050	D_{2000}	231.28	230.5 ± 1.8	χ^2_{6DF}	0.0061	0.054 ± 0.073
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0986	0.099 ± 0.033	$n_{s,0.002}$	0.9649	0.9684 ± 0.0074	χ^2_{MGS}	1.47	1.36 ± 0.50
$\boldsymbol{A^{dustEE}_{143}}$	0.1003	0.1006 ± 0.0069	Y_P	0.24471	0.2460 ± 0.0024	$\chi^2_{DR11CMASS}$	2.413	2.83 ± 0.60
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2246	0.223 ± 0.047	Y_P^{BBN}	0.24603	0.2474 ± 0.0024	$\chi^2_{DR11LOWZ}$	0.428	0.71 ± 0.56
$\boldsymbol{A^{dustEE}_{217}}$	0.650	0.65 ± 0.13	10^5D/H	2.5926	2.613 ± 0.045	χ^2_{prior}	6.45	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1404	0.140 ± 0.038	Age/Gyr	13.821	13.75 ± 0.17	χ^2_{CMB}	12928.4	12949.2 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1310	0.131 ± 0.029	z_*	1089.864	1089.98 ± 0.35	χ^2_{BAO}	4.320	4.95 ± 0.89
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.084	r_*	145.11	144.3 ± 1.7			
$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	$100\theta_*$	1.04113	1.04095 ± 0.00051			

Best-fit $\chi^2_{eff} = 13646.60$; $\bar{\chi}^2_{eff} = 13680.95$; $R - 1 = 0.01983$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.41 DR11LOWZ: 0.43 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.34 plik_dx11dr2_HM_v18_TTTEEE: 2431.10 Hubble - H070p6: 0.75 SN - JLA December_2013: 706.64

14.9 base_nnu_mnu_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022351	0.02216 ± 0.00042 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.13	-0.1 ± 1.0	r_*	143.69	144.6 ± 2.7 $(+0.1\sigma)$
$\boldsymbol{\Omega_{\rm c}h^2}$	0.12064	0.1200 ± 0.0040 (-0.1σ)	H_0	69.00	$65.7^{+4.5}_{-3.4}$ (-0.0σ)	$100\theta_*$	1.04093	1.04106 ± 0.00071 $(+0.2\sigma)$
$\boldsymbol{100\theta_{\rm MC}}$	1.04084	1.04076 ± 0.00059 $(+0.1\sigma)$	Ω_Λ	0.6996	$0.661^{+0.054}_{-0.023}$ $(+0.0\sigma)$	$z_{\rm drag}$	1060.01	1059.5 ± 1.3 (-0.0σ)
$\boldsymbol{\tau}$	0.0817	0.083 ± 0.021 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3004	$0.339^{+0.023}_{-0.054}$ (-0.0σ)	$r_{\rm drag}$	146.35	147.3 ± 2.8 $(+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	0.002	< 0.273 (-0.0σ)	$\Omega_{\rm m}h^2$	0.14301	$0.1447^{+0.0045}_{-0.0053}$ (-0.1σ)	$k_{\rm D}$	0.14119	0.1406 ± 0.0020 (-0.1σ)
$\boldsymbol{N_{\rm eff}}$	3.167	$3.05^{+0.31}_{-0.34}$ (-0.1σ)	$\Omega_\nu h^2$	0.00002	< 0.00293 (-0.0σ)	$100\theta_{\rm D}$	0.16119	$0.16100^{+0.00067}_{-0.00074}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0982	3.097 ± 0.046 (-0.0σ)	$\Omega_{\rm m}h^3$	0.0987	0.0952 ± 0.0067 (-0.1σ)	$z_{\rm eq}$	3362	3396 ± 78 (-0.0σ)
$\boldsymbol{n_{\rm s}}$	0.9729	0.966 ± 0.017 $(+0.1\sigma)$	σ_8	0.8476	$0.795^{+0.066}_{-0.031}$ (-0.0σ)	$100\theta_{\rm eq}$	0.8204	0.814 ± 0.015 $(+0.0\sigma)$
$\boldsymbol{y_{\rm cal}}$	1.00056	1.0003 ± 0.0024 (-0.1σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4646	0.460 ± 0.014 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07218	$0.0704^{+0.0024}_{-0.0014}$ $(+0.0\sigma)$
$\boldsymbol{A_{100}^{\rm PS}}$	251.9	247 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6275	$0.605^{+0.031}_{-0.017}$ (-0.0σ)	$H(0.57)$	94.16	92.1 ± 3.0 (-0.0σ)
$\boldsymbol{A_{143}^{\rm PS}}$	36.5	40 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0204	$0.981^{+0.053}_{-0.025}$ (-0.0σ)	$D_{\rm A}(0.57)$	1365	1417^{+54}_{-75} $(+0.0\sigma)$
$\boldsymbol{A_{217}^{\rm PS}}$	95.4	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.4898	2.491 ± 0.050 (-0.1σ)	$F_{\rm AP}(0.57)$	0.6732	$0.6824^{+0.0062}_{-0.013}$ (-0.0σ)
$\boldsymbol{A_{217}^{\rm CIB}}$	47.7	46 ± 7 (-2.7σ)	$z_{\rm re}$	10.31	10.4 ± 1.9 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4887	$0.470^{+0.026}_{-0.013}$ (-0.0σ)
$\boldsymbol{A_{143}^{\rm tSZ}}$	2.97	$3.17^{+1.2}_{-2.7}$ (-0.9σ)	$10^9A_{\rm s}$	2.216	$2.214^{+0.095}_{-0.11}$ (-0.0σ)	$\sigma_8(0.57)$	0.6329	$0.588^{+0.057}_{-0.028}$ (-0.0σ)
$\boldsymbol{r_{143\times217}^{\rm PS}}$	0.410	$0.52^{+0.10}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8818	1.875 ± 0.022 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.24790	0.2462 ± 0.0044 (-0.2σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.001	< 0.592 (-0.2σ)	D_{40}	1223.6	1229 ± 22 (-0.3σ)	f_{2000}^{143}	29.93	29 ± 4 (-0.4σ)
$\boldsymbol{A^{\rm kSZ}}$	5.51	$5.41^{+4.3}_{-1.7}$ $(+0.6\sigma)$	D_{220}	5702.3	5694 ± 41 (-0.5σ)	f_{2000}^{217}	107.14	106.8 ± 2.4 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{\rm dust}}$	0.984	0.99 ± 0.19	D_{810}	2531.4	2531 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	32.29	32.2 ± 2.7 (-0.4σ)
$\boldsymbol{A_{143}^{\rm dust}}$	1.029	1.03 ± 0.18	D_{1420}	813.5	814.2 ± 5.2 (-0.0σ)	$\chi^2_{\rm lowTEB}$	10495.52	10497.4 ± 2.9 (-0.2σ)
$\boldsymbol{A_{217}^{\rm dust}}$	1.227	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9729	0.966 ± 0.017 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8044.8	8061.4 ± 6.3
$\boldsymbol{A_{143\times217}^{\rm dust}}$	0.970	0.98 ± 0.18	$Y_{\rm P}$	0.24656	0.2449 ± 0.0044 (-0.2σ)	$\chi^2_{\rm prior}$	3.73	8.40 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99665	0.99676 ± 0.00097 (-1.4σ)	Age/Gyr	13.652	$13.91^{+0.37}_{-0.42}$ $(+0.0\sigma)$	$\chi^2_{\rm CMB}$	18540.3	18558.8 ± 6.2 $(+1220.8\sigma)$
$\boldsymbol{c_{217}}$	0.99752	0.9973 ± 0.0018 $(+0.9\sigma)$	z_*	1090.10	$1090.23^{+0.52}_{-0.62}$ (-0.1σ)			

Best-fit $\chi^2_{\rm eff} = 18544.05$; $\Delta\chi^2_{\rm eff} = 7282.54$; $\bar{\chi}^2_{\rm eff} = 18567.15$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.73$; $R - 1 = 0.00815$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.52 (Δ -0.77) CamSpec like_v9.10CMH_unified: 8044.80

14.10 base_nnu_mnu_CamSpecHM_TT_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02235 \pm 0.00026 \quad (-0.0\sigma)$	Ω_Λ	$0.6906 \pm 0.0091 \quad (-0.0\sigma)$	k_D	$0.1411 \pm 0.0018 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1202 \pm 0.0040 \quad (-0.1\sigma)$	Ω_m	$0.3094 \pm 0.0091 \quad (+0.0\sigma)$	$100\theta_D$	$0.16115^{+0.00058}_{-0.00067} \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04085 \pm 0.00058 \quad (+0.1\sigma)$	$\Omega_m h^2$	$0.1437 \pm 0.0044 \quad (-0.1\sigma)$	z_{eq}	$3359^{+45}_{-38} \quad (+0.0\sigma)$
$\boldsymbol{\tau}$	$0.085 \pm 0.019 \quad (+0.0\sigma)$	$\Omega_\nu h^2$	$< 0.00135 \quad (+0.0\sigma)$	$100\theta_{eq}$	$0.8212^{+0.0071}_{-0.0087} \quad (-0.0\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.126 \quad (+0.0\sigma)$	$\Omega_m h^3$	$0.0980 \pm 0.0049 \quad (-0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07171 \pm 0.00049 \quad (-0.0\sigma)$
$\boldsymbol{N_{eff}}$	$3.16^{+0.24}_{-0.28} \quad (-0.1\sigma)$	σ_8	$0.828^{+0.024}_{-0.022} \quad (-0.1\sigma)$	$H(0.57)$	$93.7 \pm 1.7 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.103 \pm 0.042 \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.460 \pm 0.012 \quad (-0.1\sigma)$	$D_A(0.57)$	$1378 \pm 28 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9736^{+0.0098}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.617^{+0.017}_{-0.015} \quad (-0.1\sigma)$	$F_{AP}(0.57)$	$0.6755 \pm 0.0023 \quad (+0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0024 \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.002^{+0.027}_{-0.021} \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.481 \pm 0.012 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.478 \pm 0.043 \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.617 \pm 0.018 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	z_{re}	$10.6 \pm 1.7 \quad (+0.0\sigma)$	Y_P^{BBN}	$0.2477 \pm 0.0034 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$10^9 A_s$	$2.228^{+0.087}_{-0.099} \quad (-0.1\sigma)$	f_{2000}^{143}	$29 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.878 \pm 0.021 \quad (-0.3\sigma)$	f_{2000}^{217}	$106.7 \pm 2.3 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.18^{+1.4}_{-2.6} \quad (-0.9\sigma)$	D_{40}	$1222 \pm 16 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$32.1 \pm 2.6 \quad (-0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{220}	$5697 \pm 40 \quad (-0.5\sigma)$	χ^2_{lowTEB}	$10496.4 \pm 2.5 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.587 \quad (-0.2\sigma)$	D_{810}	$2531 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{CamSpec}$	8060.7 ± 6.3
$\boldsymbol{A^{kSZ}}$	$5.44^{+4.3}_{-1.7} \quad (+0.6\sigma)$	D_{1420}	$814.1 \pm 5.2 \quad (-0.0\sigma)$	χ^2_{6DF}	$0.070 \pm 0.095 \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.9736^{+0.0098}_{-0.011} \quad (+0.1\sigma)$	χ^2_{MGS}	$1.42 \pm 0.64 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	$0.2464 \pm 0.0034 \quad (-0.2\sigma)$	$\chi^2_{DR11CMASS}$	$3.01 \pm 0.85 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.71 \pm 0.24 \quad (+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.73 \pm 0.68 \quad (+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.17	z_*	$1090.05 \pm 0.48 \quad (-0.1\sigma)$	χ^2_{prior}	$8.35 \pm 3.4 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00096 \quad (-1.4\sigma)$	r_*	$143.9 \pm 2.4 \quad (+0.1\sigma)$	χ^2_{CMB}	$18557.2 \pm 6.0 \quad (+1273.6\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	$100\theta_*$	$1.04100 \pm 0.00070 \quad (+0.2\sigma)$	χ^2_{BAO}	$5.24 \pm 1.3 \quad (-0.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.04 ± 0.98	z_{drag}	$1059.98 \pm 0.95 \quad (-0.1\sigma)$		
H_0	$68.2 \pm 1.5 \quad (-0.1\sigma)$	r_{drag}	$146.6 \pm 2.4 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{eff} = 18570.77$; $\Delta\bar{\chi}^2_{eff} = 7282.61$; $R - 1 = 0.01085$

14.11 base_nnu_mnu_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02241 \pm 0.00031 \quad (+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.05 ± 0.99	r_*	$143.2 \pm 2.3 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1212 \pm 0.0038 \quad (-0.1\sigma)$	H_0	$68.5 \pm 2.4 \quad (+0.0\sigma)$	$100\theta_*$	$1.04085 \pm 0.00067 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04074 \pm 0.00058 \quad (+0.1\sigma)$	Ω_Λ	$0.690^{+0.024}_{-0.017} \quad (+0.0\sigma)$	$z_{\rm drag}$	$1060.3 \pm 1.0 \quad (-0.0\sigma)$
$\boldsymbol{\tau}$	$0.088 \pm 0.021 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.310^{+0.017}_{-0.024} \quad (-0.0\sigma)$	$r_{\rm drag}$	$145.8 \pm 2.4 \quad (+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.148 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1450^{+0.0040}_{-0.0047} \quad (-0.1\sigma)$	$k_{\rm D}$	$0.1416 \pm 0.0017 \quad (-0.1\sigma)$
$\boldsymbol{N_{\rm eff}}$	$3.23 \pm 0.26 \quad (-0.1\sigma)$	$\Omega_\nu h^2$	$< 0.00159 \quad (-0.0\sigma)$	$100\theta_{\rm D}$	$0.16131 \pm 0.00061 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.112 \pm 0.043 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.0994 \pm 0.0052 \quad (-0.1\sigma)$	$z_{\rm eq}$	$3349 \pm 59 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.977 \pm 0.012 \quad (+0.1\sigma)$	σ_8	$0.827^{+0.033}_{-0.024} \quad (+0.0\sigma)$	$100\theta_{\rm eq}$	$0.823 \pm 0.012 \quad (+0.0\sigma)$
$\boldsymbol{y_{\rm cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.460 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0717^{+0.0012}_{-0.0010} \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{\rm PS}}$	$249 \pm 23 \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.617^{+0.019}_{-0.015} \quad (-0.0\sigma)$	$H(0.57)$	$94.1 \pm 2.0 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{\rm PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.999^{+0.031}_{-0.022} \quad (-0.0\sigma)$	$D_{\rm A}(0.57)$	$1371 \pm 38 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{\rm PS}}$	$97 \pm 10 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.476 \pm 0.046 \quad (-0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6755^{+0.0045}_{-0.0060} \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{\rm CIB}}$	$47 \pm 7 \quad (-2.6\sigma)$	$z_{\rm re}$	$10.8 \pm 1.8 \quad (+0.1\sigma)$	$f\sigma_8(0.57)$	$0.481^{+0.015}_{-0.012} \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{\rm tSZ}}$	$3.12^{+1.2}_{-2.7} \quad (-0.9\sigma)$	$10^9 A_{\rm s}$	$2.249^{+0.092}_{-0.11} \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.616^{+0.028}_{-0.021} \quad (+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{\rm PS}}$	$0.52^{+0.10}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	$1.883 \pm 0.020 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.2487 \pm 0.0035 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	$< 0.581 \quad (-0.2\sigma)$	D_{40}	$1219 \pm 18 \quad (-0.4\sigma)$	f_{2000}^{143}	$30 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{A^{\rm kSZ}}$	$> 4.16 \quad (+0.6\sigma)$	D_{220}	$5698 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{217}	$107.1 \pm 2.4 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{\rm dust}}$	0.99 ± 0.19	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.5 \pm 2.6 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{\rm dust}}$	1.03 ± 0.18	D_{1420}	$813.9 \pm 5.2 \quad (-0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.5 \pm 2.7 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{\rm dust}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	$0.977 \pm 0.012 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8061.5 ± 6.4
$\boldsymbol{A_{143\times217}^{\rm dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.2474 \pm 0.0035 \quad (-0.2\sigma)$	$\chi^2_{\rm H070p6}$	$0.9 \pm 1.2 \quad (+0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00096 \quad (-1.4\sigma)$	Age/Gyr	$13.65 \pm 0.27 \quad (+0.0\sigma)$	$\chi^2_{\rm prior}$	$8.33 \pm 3.4 \quad (+0.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	z_*	$1090.14 \pm 0.52 \quad (-0.2\sigma)$	$\chi^2_{\rm CMB}$	$18557.9 \pm 6.1 \quad (+1239.0\sigma)$

$\bar{\chi}^2_{\rm eff} = 18567.15$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.62$; $R - 1 = 0.01176$

14.12 base_nnu_mnu_CamSpecHM_TT_lowTEB_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02241 \pm 0.00025 \quad (-0.0\sigma)$	Ω_Λ	$0.6933 \pm 0.0083 \quad (-0.0\sigma)$	k_D	$0.1415 \pm 0.0017 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1212 \pm 0.0038 \quad (-0.1\sigma)$	Ω_m	$0.3067 \pm 0.0083 \quad (+0.0\sigma)$	$100\theta_D$	$0.16129 \pm 0.00058 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04076 \pm 0.00056 \quad (+0.1\sigma)$	$\Omega_m h^2$	$0.1447 \pm 0.0042 \quad (-0.1\sigma)$	z_{eq}	$3350^{+43}_{-36} \quad (-0.0\sigma)$
$\boldsymbol{\tau}$	$0.087 \pm 0.019 \quad (+0.1\sigma)$	$\Omega_\nu h^2$	$< 0.00138 \quad (+0.0\sigma)$	$100\theta_{eq}$	$0.8230^{+0.0067}_{-0.0084} \quad (+0.0\sigma)$
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	$< 0.128 \quad (+0.0\sigma)$	$\Omega_m h^3$	$0.0994 \pm 0.0046 \quad (-0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07184 \pm 0.00046 \quad (+0.0\sigma)$
$\boldsymbol{N_{eff}}$	$3.23^{+0.23}_{-0.26} \quad (-0.1\sigma)$	σ_8	$0.832^{+0.024}_{-0.021} \quad (-0.0\sigma)$	$H(0.57)$	$94.2 \pm 1.6 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.109 \pm 0.041 \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.460 \pm 0.012 \quad (-0.0\sigma)$	$D_A(0.57)$	$1368 \pm 25 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9766 \pm 0.0095 \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.619^{+0.017}_{-0.015} \quad (-0.0\sigma)$	$F_{AP}(0.57)$	$0.6748 \pm 0.0021 \quad (+0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.003^{+0.027}_{-0.021} \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.483^{+0.012}_{-0.011} \quad (-0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 23 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.476 \pm 0.043 \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.620^{+0.018}_{-0.016} \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	z_{re}	$10.7 \pm 1.7 \quad (+0.0\sigma)$	Y_P^{BBN}	$0.2487 \pm 0.0032 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$10^9 A_s$	$2.243^{+0.085}_{-0.10} \quad (-0.0\sigma)$	f_{2000}^{143}	$30 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.883 \pm 0.020 \quad (-0.3\sigma)$	f_{2000}^{217}	$107.0 \pm 2.3 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.14^{+1.3}_{-2.6} \quad (-0.9\sigma)$	D_{40}	$1219 \pm 16 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$32.4 \pm 2.6 \quad (-0.3\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	D_{220}	$5698 \pm 41 \quad (-0.6\sigma)$	χ^2_{lowTEB}	$10496.3 \pm 2.5 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.582 \quad (-0.2\sigma)$	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{CamSpec}$	8061.0 ± 6.3
$\boldsymbol{A^{kSZ}}$	$> 4.16 \quad (+0.6\sigma)$	D_{1420}	$813.8 \pm 5.2 \quad (-0.1\sigma)$	χ^2_{H070p6}	$0.50 \pm 0.53 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.9766 \pm 0.0095 \quad (+0.1\sigma)$	χ^2_{JLA}	$706.68 \pm 0.20 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Y_P	$0.2473 \pm 0.0032 \quad (-0.2\sigma)$	χ^2_{6DF}	$0.050 \pm 0.071 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.64 \pm 0.22 \quad (+0.1\sigma)$	χ^2_{MGS}	$1.60 \pm 0.62 \quad (+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.17	z_*	$1090.12 \pm 0.48 \quad (-0.1\sigma)$	$\chi^2_{DR11CMASS}$	$2.93 \pm 0.73 \quad (-0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00096 \quad (-1.4\sigma)$	r_*	$143.3 \pm 2.2 \quad (+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.55 \pm 0.54 \quad (-0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0017 \quad (+0.9\sigma)$	$100\theta_*$	$1.04087 \pm 0.00067 \quad (+0.1\sigma)$	χ^2_{prior}	$8.32 \pm 3.4 \quad (+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.04 ± 0.98	z_{drag}	$1060.25 \pm 0.89 \quad (-0.1\sigma)$	χ^2_{CMB}	$18557.3 \pm 6.0 \quad (+1261.9\sigma)$
H_0	$68.7 \pm 1.4 \quad (-0.1\sigma)$	r_{drag}	$145.9 \pm 2.3 \quad (+0.1\sigma)$	χ^2_{BAO}	$5.12 \pm 1.1 \quad (-0.0\sigma)$

$\bar{\chi}^2_{eff} = 19277.89$; $\Delta\bar{\chi}^2_{eff} = 7282.61$; $R - 1 = 0.01208$

14.13 base_nnu_mnu_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022192	0.02214 ± 0.00024 (-0.0σ)	$\boldsymbol{c_{EE}}$	0.99854	0.9986 ± 0.0048	r_*	146.76	146.8 ± 2.0 $(+0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11606	0.1163 ± 0.0031 (-0.9σ)	$\boldsymbol{\beta_1^1}$	-0.03	-0.06 ± 0.99	$100\theta_*$	1.04155	1.04154 ± 0.00058 $(+0.8\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.041217	1.04111 ± 0.00047 $(+0.7\sigma)$	H_0	66.58	$64.9^{+2.7}_{-2.0}$ (-0.4σ)	z_{drag}	1059.06	1058.95 ± 0.85 (-0.4σ)
$\boldsymbol{\tau}$	0.0712	0.077 ± 0.018 (-0.2σ)	Ω_Λ	0.6881	$0.665^{+0.032}_{-0.014}$ (-0.1σ)	r_{drag}	149.51	149.5 ± 2.1 $(+0.8\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.002	< 0.211 $(+0.1\sigma)$	Ω_m	0.3119	$0.335^{+0.014}_{-0.032}$ $(+0.1\sigma)$	k_D	0.13909	0.1391 ± 0.0015 (-0.7σ)
$\boldsymbol{N_{eff}}$	2.822	2.82 ± 0.21 (-0.8σ)	$\Omega_m h^2$	0.13828	0.1403 ± 0.0038 (-0.7σ)	$100\theta_D$	0.160299	0.16031 ± 0.00048 (-1.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0653	3.076 ± 0.038 (-0.5σ)	$\Omega_\nu h^2$	0.00002	< 0.00227 $(+0.1\sigma)$	z_{eq}	3406.3	3411 ± 42 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9595	0.9584 ± 0.0099 (-0.3σ)	$\Omega_m h^3$	0.09207	0.0911 ± 0.0042 (-0.7σ)	$100\theta_{eq}$	0.8121	0.8113 ± 0.0079 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00041	1.0003 ± 0.0025 (-0.0σ)	σ_8	0.8259	$0.791^{+0.044}_{-0.023}$ (-0.4σ)	$r_{drag}/D_V(0.57)$	0.07158	$0.0705^{+0.0015}_{-0.00080}$ (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	236.9	240 ± 23 (-0.7σ)	$\sigma_8 \Omega_m^{0.5}$	0.4613	0.456 ± 0.011 (-0.7σ)	$H(0.57)$	91.67	90.8 ± 1.8 (-0.6σ)
$\boldsymbol{A_{143}^{PS}}$	33.0	36 ± 8 (-0.9σ)	$\sigma_8 \Omega_m^{0.25}$	0.6172	$0.601^{+0.023}_{-0.014}$ (-0.6σ)	$D_A(0.57)$	1408.3	1434^{+33}_{-46} $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	100.3	100 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	1.0122	$0.982^{+0.039}_{-0.021}$ (-0.4σ)	$F_{AP}(0.57)$	0.6761	$0.6817^{+0.0037}_{-0.0076}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46.5	44 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.4924	2.489 ± 0.041 (-0.5σ)	$f\sigma_8(0.57)$	0.4792	$0.467^{+0.018}_{-0.011}$ (-0.6σ)
$\boldsymbol{A_{143}^{tSZ}}$	4.99	$3.58^{+1.7}_{-2.4}$ (-0.9σ)	z_{re}	9.25	$9.77^{+1.8}_{-1.6}$ (-0.3σ)	$\sigma_8(0.57)$	0.6139	$0.584^{+0.038}_{-0.020}$ (-0.4σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.466	0.52 ± 0.12	$10^9 A_s$	2.144	2.169 ± 0.083 (-0.5σ)	Y_P^{BBN}	0.24317	0.2431 ± 0.0030 (-0.9σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$10^9 A_s e^{-2\tau}$	1.8595	1.858 ± 0.019 (-1.1σ)	f_{2000}^{143}	26.68	27 ± 3 (-0.8σ)
$\boldsymbol{A^{kSZ}}$	1.94	$4.75^{+2.5}_{-3.6}$ $(+0.7\sigma)$	D_{40}	1237.7	1239 ± 16 (-0.4σ)	f_{2000}^{217}	104.74	105.1 ± 2.2 (-0.3σ)
$\boldsymbol{A_{100}^{dust}}$	0.982	0.98 ± 0.19	D_{220}	5711.7	5711 ± 38 (-0.5σ)	$f_{2000}^{143\times217}$	29.77	30.2 ± 2.3 (-0.9σ)
$\boldsymbol{A_{143}^{dust}}$	1.021	1.02 ± 0.18	D_{810}	2528.4	2528 ± 14 (-0.5σ)	χ^2_{lowTEB}	10496.63	10497.8 ± 2.4 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.209	1.22 ± 0.12	D_{1420}	816.36	816.3 ± 4.9 $(+0.2\sigma)$	$\chi^2_{CamSpec}$	12934.0	12952.0 ± 6.4
$\boldsymbol{A_{143\times217}^{dust}}$	0.975	0.98 ± 0.18	$n_{s,0.002}$	0.9595	0.9584 ± 0.0099 (-0.3σ)	χ^2_{prior}	3.19	9.09 ± 3.6 (-1.8σ)
$\boldsymbol{c_{100}}$	0.99680	0.99679 ± 0.00097 (-1.8σ)	Y_P	0.24186	0.2418 ± 0.0030 (-0.9σ)	χ^2_{CMB}	23430.6	23449.8 ± 6.3 $(+1481.3\sigma)$
$\boldsymbol{c_{217}}$	0.99678	0.9969 ± 0.0018 $(+0.6\sigma)$	Age/Gyr	13.999	$14.10^{+0.24}_{-0.28}$ $(+0.7\sigma)$			
$\boldsymbol{c_{TE}}$	1.00319	1.0038 ± 0.0046	z_*	1089.552	1089.66 ± 0.40 (-1.1σ)			

Best-fit $\chi^2_{eff} = 23433.82$; $\Delta\chi^2_{eff} = 10499.13$; $\bar{\chi}^2_{eff} = 23458.90$; $\Delta\bar{\chi}^2_{eff} = 10489.27$; $R - 1 = 0.00976$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.63 (Δ -0.71) CamSpec like_v9.10CMH_unified: 12934.00

14.14 base_nnu_mnu_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02228 \pm 0.00020 \quad (-0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	$z_{\rm drag}$	$1059.33 \pm 0.75 \quad (-0.5\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1164 \pm 0.0031 \quad (-0.9\sigma)$	H_0	$66.8 \pm 1.3 \quad (-0.6\sigma)$	$r_{\rm drag}$	$149.0^{+1.9}_{-2.2} \quad (+0.8\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04116^{+0.00044}_{-0.00049} \quad (+0.7\sigma)$	Ω_Λ	$0.6872 \pm 0.0081 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.1395 \pm 0.0014 \quad (-0.8\sigma)$
$\boldsymbol{\tau}$	$0.078 \pm 0.017 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3128 \pm 0.0081 \quad (+0.1\sigma)$	$100\theta_{\rm D}$	$0.16043 \pm 0.00046 \quad (-1.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.0879 \quad (+0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1394 \pm 0.0034 \quad (-0.9\sigma)$	$z_{\rm eq}$	$3384 \pm 30 \quad (+0.1\sigma)$
$\boldsymbol{N_{\rm eff}}$	$2.89 \pm 0.20 \quad (-0.8\sigma)$	$\Omega_\nu h^2$	$< 0.000945 \quad (+0.1\sigma)$	$100\theta_{\rm eq}$	$0.8165 \pm 0.0057 \quad (-0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.080 \pm 0.036 \quad (-0.6\sigma)$	$\Omega_{\rm m}h^3$	$0.0932 \pm 0.0038 \quad (-0.8\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07155 \pm 0.00043 \quad (+0.0\sigma)$
$\boldsymbol{n_s}$	$0.9638 \pm 0.0081 \quad (-0.3\sigma)$	σ_8	$0.817 \pm 0.019 \quad (-0.8\sigma)$	$H(0.57)$	$92.0 \pm 1.4 \quad (-0.8\sigma)$
$\boldsymbol{y_{\rm cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.4568 \pm 0.0094 \quad (-0.8\sigma)$	$D_{\rm A}(0.57)$	$1404^{+23}_{-26} \quad (+0.7\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$240 \pm 23 \quad (-0.7\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.611 \pm 0.013 \quad (-0.8\sigma)$	$F_{\rm AP}(0.57)$	$0.6763 \pm 0.0021 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$36 \pm 8 \quad (-0.8\sigma)$	$\sigma_8/h^{0.5}$	$0.9998^{+0.021}_{-0.018} \quad (-0.7\sigma)$	$f\sigma_8(0.57)$	$0.4756 \pm 0.0097 \quad (-0.8\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.2\sigma)$	$\langle d^2\rangle^{1/2}$	$2.481 \pm 0.039 \quad (-0.6\sigma)$	$\sigma_8(0.57)$	$0.608 \pm 0.015 \quad (-0.7\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$44 \pm 7 \quad (-2.9\sigma)$	$z_{\rm re}$	$9.83^{+1.7}_{-1.5} \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.2442^{+0.0030}_{-0.0027} \quad (-1.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.58^{+1.7}_{-2.3} \quad (-1.0\sigma)$	$10^9 A_{\rm s}$	$2.176 \pm 0.079 \quad (-0.6\sigma)$	f_{2000}^{143}	$27 \pm 3 \quad (-0.7\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s}e^{-2\tau}$	$1.860 \pm 0.019 \quad (-1.1\sigma)$	f_{2000}^{217}	$105.0 \pm 2.2 \quad (-0.3\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	$1234 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$30.1 \pm 2.3 \quad (-0.8\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.73^{+2.4}_{-3.7} \quad (+0.7\sigma)$	D_{220}	$5713 \pm 38 \quad (-0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10497.1 \pm 2.2 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	D_{810}	$2528 \pm 14 \quad (-0.5\sigma)$	$\chi^2_{\rm CamSpec}$	12951.6 ± 6.3
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	$816.0 \pm 4.9 \quad (+0.2\sigma)$	$\chi^2_{\rm 6DF}$	$0.08 \pm 0.10 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	$n_{\rm s,0.002}$	$0.9638 \pm 0.0081 \quad (-0.3\sigma)$	$\chi^2_{\rm MGS}$	$1.20 \pm 0.52 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.2428^{+0.0030}_{-0.0027} \quad (-1.0\sigma)$	$\chi^2_{\rm DR11CMASS}$	$3.00 \pm 0.84 \quad (+0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00097 \quad (-1.8\sigma)$	Age/Gyr	$13.95^{+0.19}_{-0.22} \quad (+0.8\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.92 \pm 0.70 \quad (+0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9969 \pm 0.0018 \quad (+0.7\sigma)$	z_*	$1089.54 \pm 0.38 \quad (-1.2\sigma)$	$\chi^2_{\rm prior}$	$9.09 \pm 3.6 \quad (-1.8\sigma)$
$\boldsymbol{c_{TE}}$	1.0037 ± 0.0046	r_*	$146.3^{+1.8}_{-2.2} \quad (+0.9\sigma)$	$\chi^2_{\rm CMB}$	$23448.7 \pm 6.1 \quad (+1398.6\sigma)$
$\boldsymbol{c_{EE}}$	0.9996 ± 0.0047	$100\theta_*$	$1.04147^{+0.00054}_{-0.00062} \quad (+0.8\sigma)$	$\chi^2_{\rm BAO}$	$5.21 \pm 1.2 \quad (+0.0\sigma)$

$\bar{\chi}^2_{\rm eff} = 23462.99$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.46$; $R - 1 = 0.01437$

14.15 base_nnu_mnu_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02229 \pm 0.00022 \quad (+0.0\sigma)$	$\boldsymbol{c_{EE}}$	0.99996 ± 0.0047	r_*	$145.7 \pm 1.9 \quad (+0.8\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1174 \pm 0.0030 \quad (-0.9\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04132 \pm 0.00054 \quad (+0.7\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04102 \pm 0.00044 \quad (+0.6\sigma)$	H_0	$66.6 \pm 1.7 \quad (-0.3\sigma)$	$z_{\rm drag}$	$1059.47 \pm 0.77 \quad (-0.4\sigma)$
$\boldsymbol{\tau}$	$0.079 \pm 0.018 \quad (-0.2\sigma)$	Ω_Λ	$0.682^{+0.018}_{-0.012} \quad (+0.0\sigma)$	$r_{\rm drag}$	$148.4 \pm 1.9 \quad (+0.7\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.125 \quad (+0.0\sigma)$	$\Omega_{\rm m}$	$0.318^{+0.012}_{-0.018} \quad (-0.0\sigma)$	$k_{\rm D}$	$0.1398 \pm 0.0014 \quad (-0.7\sigma)$
$\boldsymbol{N_{\rm eff}}$	$2.94 \pm 0.20 \quad (-0.7\sigma)$	$\Omega_{\rm m}h^2$	$0.1408 \pm 0.0034 \quad (-0.8\sigma)$	$100\theta_{\rm D}$	$0.16054 \pm 0.00045 \quad (-1.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.084 \pm 0.038 \quad (-0.5\sigma)$	$\Omega_\nu h^2$	$< 0.00134 \quad (+0.0\sigma)$	$z_{\rm eq}$	$3386 \pm 38 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.9647 \pm 0.0089 \quad (-0.2\sigma)$	$\Omega_{\rm m}h^3$	$0.0939 \pm 0.0038 \quad (-0.7\sigma)$	$100\theta_{\rm eq}$	$0.8160 \pm 0.0073 \quad (+0.1\sigma)$
$\boldsymbol{y_{\rm cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	σ_8	$0.813^{+0.028}_{-0.020} \quad (-0.5\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07130^{+0.00091}_{-0.00066} \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$241 \pm 23 \quad (-0.7\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.4577 \pm 0.0099 \quad (-0.8\sigma)$	$H(0.57)$	$92.1 \pm 1.5 \quad (-0.6\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$37 \pm 8 \quad (-0.8\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.610^{+0.016}_{-0.013} \quad (-0.7\sigma)$	$D_{\rm A}(0.57)$	$1405 \pm 29 \quad (+0.4\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$100 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.996^{+0.026}_{-0.019} \quad (-0.5\sigma)$	$F_{\rm AP}(0.57)$	$0.6775^{+0.0030}_{-0.0045} \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.9\sigma)$	$\langle d^2\rangle^{1/2}$	$2.482 \pm 0.040 \quad (-0.6\sigma)$	$f\sigma_8(0.57)$	$0.475^{+0.012}_{-0.010} \quad (-0.7\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.52^{+1.6}_{-2.4} \quad (-1.0\sigma)$	$z_{\rm re}$	$9.94^{+1.8}_{-1.5} \quad (-0.3\sigma)$	$\sigma_8(0.57)$	$0.604^{+0.023}_{-0.017} \quad (-0.5\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9A_{\rm s}$	$2.186 \pm 0.083 \quad (-0.5\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.2448 \pm 0.0027 \quad (-0.8\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9A_{\rm s}e^{-2\tau}$	$1.865 \pm 0.018 \quad (-1.0\sigma)$	f_{2000}^{143}	$27.5 \pm 3.0 \quad (-0.7\sigma)$
$\boldsymbol{A^{kSZ}}$	$4.85 \pm 2.7 \quad (+0.7\sigma)$	D_{40}	$1233 \pm 15 \quad (-0.5\sigma)$	f_{2000}^{217}	$105.4 \pm 2.1 \quad (-0.2\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	D_{220}	$5712 \pm 38 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$30.5 \pm 2.3 \quad (-0.8\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2529 \pm 14 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10497.1 \pm 2.3 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$815.7 \pm 4.9 \quad (+0.2\sigma)$	$\chi^2_{\rm CamSpec}$	12952.2 ± 6.4
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9647 \pm 0.0089 \quad (-0.2\sigma)$	$\chi^2_{\rm H070p6}$	$1.67 \pm 1.3 \quad (+0.4\sigma)$
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00097 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.2435 \pm 0.0027 \quad (-0.8\sigma)$	$\chi^2_{\rm prior}$	$9.07 \pm 3.6 \quad (-1.7\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.93 \pm 0.21 \quad (+0.6\sigma)$	$\chi^2_{\rm CMB}$	$23449.3 \pm 6.3 \quad (+775.7\sigma)$
$\boldsymbol{c_{TE}}$	1.0040 ± 0.0046	z_*	$1089.67 \pm 0.38 \quad (-1.0\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23460.05$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.53$; $R - 1 = 0.01422$

14.16 base_nnu_mnu_CamSpecHM_TTTEEE_lowTEB_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02235 \pm 0.00019 \quad (+0.0\sigma)$	H_0	$67.4 \pm 1.2 \quad (-0.5\sigma)$	k_D	$0.1400^{+0.0015}_{-0.0012} \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1174 \pm 0.0030 \quad (-0.8\sigma)$	Ω_Λ	$0.6904 \pm 0.0076 \quad (+0.0\sigma)$	$100\theta_D$	$0.16058 \pm 0.00044 \quad (-1.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04105^{+0.00042}_{-0.00047} \quad (+0.6\sigma)$	Ω_m	$0.3096 \pm 0.0076 \quad (-0.0\sigma)$	z_{eq}	$3374 \pm 28 \quad (-0.0\sigma)$
$\boldsymbol{\tau}$	$0.080 \pm 0.017 \quad (-0.3\sigma)$	$\Omega_m h^2$	$0.1404 \pm 0.0032 \quad (-0.8\sigma)$	$100\theta_{eq}$	$0.8184 \pm 0.0054 \quad (+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	$< 0.0849 \quad (+0.1\sigma)$	$\Omega_\nu h^2$	$< 0.000913 \quad (+0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07171 \pm 0.00041 \quad (+0.1\sigma)$
$\boldsymbol{N_{eff}}$	$2.97 \pm 0.18 \quad (-0.7\sigma)$	$\Omega_m h^3$	$0.0946 \pm 0.0035 \quad (-0.7\sigma)$	$H(0.57)$	$92.6 \pm 1.3 \quad (-0.7\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.086 \pm 0.036 \quad (-0.6\sigma)$	σ_8	$0.822 \pm 0.018 \quad (-0.8\sigma)$	$D_A(0.57)$	$1394^{+20}_{-23} \quad (+0.6\sigma)$
$\boldsymbol{n_s}$	$0.9668 \pm 0.0076 \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.4572 \pm 0.0093 \quad (-0.8\sigma)$	$F_{AP}(0.57)$	$0.6755 \pm 0.0019 \quad (-0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.613 \pm 0.013 \quad (-0.8\sigma)$	$f\sigma_8(0.57)$	$0.4775 \pm 0.0096 \quad (-0.8\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$241 \pm 23 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.001^{+0.020}_{-0.018} \quad (-0.7\sigma)$	$\sigma_8(0.57)$	$0.612 \pm 0.014 \quad (-0.7\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$37 \pm 8 \quad (-0.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.479 \pm 0.039 \quad (-0.7\sigma)$	Y_P^{BBN}	$0.2452^{+0.0027}_{-0.0024} \quad (-0.9\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$99 \pm 10 \quad (+0.1\sigma)$	z_{re}	$10.0^{+1.7}_{-1.5} \quad (-0.4\sigma)$	f^{143}_{2000}	$28 \pm 3 \quad (-0.6\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$45 \pm 7 \quad (-2.8\sigma)$	$10^9 A_s$	$2.190 \pm 0.080 \quad (-0.6\sigma)$	f^{217}_{2000}	$105.4 \pm 2.1 \quad (-0.2\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.52^{+1.6}_{-2.4} \quad (-1.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.865 \pm 0.018 \quad (-1.0\sigma)$	$f^{143\times217}_{2000}$	$30.5 \pm 2.3 \quad (-0.7\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	0.52 ± 0.12	D_{40}	$1230 \pm 14 \quad (-0.5\sigma)$	χ^2_{lowTEB}	$10496.8 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.630 \quad (-0.2\sigma)$	D_{220}	$5713 \pm 38 \quad (-0.4\sigma)$	$\chi^2_{CamSpec}$	12952.1 ± 6.4
$\boldsymbol{A^{kSZ}}$	$4.84 \pm 2.6 \quad (+0.7\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.5\sigma)$	χ^2_{H070p6}	$1.07 \pm 0.71 \quad (+0.6\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.20	D_{1420}	$815.7 \pm 4.8 \quad (+0.2\sigma)$	χ^2_{JLA}	$706.74 \pm 0.21 \quad (-0.0\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	$n_{s,0.002}$	$0.9668 \pm 0.0076 \quad (-0.2\sigma)$	χ^2_{6DF}	$0.054 \pm 0.073 \quad (-0.0\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.12	Y_P	$0.2439^{+0.0027}_{-0.0024} \quad (-0.9\sigma)$	χ^2_{MGS}	$1.40 \pm 0.53 \quad (+0.1\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	Age/Gyr	$13.87^{+0.17}_{-0.20} \quad (+0.7\sigma)$	$\chi^2_{DR11CMASS}$	$2.83 \pm 0.61 \quad (+0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00096 \quad (-1.8\sigma)$	z_*	$1089.62 \pm 0.37 \quad (-1.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.68 \pm 0.56 \quad (-0.1\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$145.6^{+1.7}_{-1.9} \quad (+0.8\sigma)$	χ^2_{prior}	$9.10 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0040 ± 0.0046	$100\theta_*$	$1.04130^{+0.00050}_{-0.00058} \quad (+0.7\sigma)$	χ^2_{CMB}	$23448.9 \pm 6.2 \quad (+1533.3\sigma)$
$\boldsymbol{c_{EE}}$	1.0003 ± 0.0046	z_{drag}	$1059.61 \pm 0.70 \quad (-0.4\sigma)$	χ^2_{BAO}	$4.96 \pm 0.90 \quad (+0.0\sigma)$
$\boldsymbol{\beta^1_1}$	-0.06 ± 0.99	r_{drag}	$148.3^{+1.7}_{-2.0} \quad (+0.8\sigma)$		

$\bar{\chi}^2_{eff} = 24170.82$; $\Delta\bar{\chi}^2_{eff} = 10489.87$; $R - 1 = 0.02239$

14.17 base_nnu_mnu_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022333	0.02212 ± 0.00041	Ω_m	0.2978	$0.344^{+0.031}_{-0.054}$	D_A/Gpc	13.894	13.88 ± 0.24
$\boldsymbol{\Omega_c h^2}$	0.11855	0.1201 ± 0.0039	$\Omega_m h^2$	0.14093	$0.1454^{+0.0046}_{-0.0053}$	z_{drag}	1059.78	1059.4 ± 1.3
$\boldsymbol{100\theta_{MC}}$	1.04110	1.04072 ± 0.00059	$\Omega_\nu h^2$	0.00005	< 0.00405	r_{drag}	147.35	147.2 ± 2.7
$\boldsymbol{\tau}$	0.0652	0.076 ± 0.020	$\Omega_m h^3$	0.0970	0.0950 ± 0.0064	k_D	0.14043	0.1406 ± 0.0020
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.005	< 0.376	σ_8	0.8268	$0.777^{+0.052}_{-0.035}$	$100\theta_D$	0.16102	0.16109 ± 0.00066
$\boldsymbol{N_{eff}}$	3.080	3.07 ± 0.31	$\sigma_8\Omega_m^{0.5}$	0.4512	0.4535 ± 0.0093	z_{eq}	3351	3391 ± 79
$\boldsymbol{\ln(10^{10}A_s)}$	3.0610	3.085 ± 0.044	$\sigma_8\Omega_m^{0.25}$	0.6108	$0.593^{+0.020}_{-0.014}$	k_{eq}	0.010251	0.01036 ± 0.00016
$\boldsymbol{n_s}$	0.9707	0.965 ± 0.016	$\sigma_8/h^{0.5}$	0.9968	$0.961^{+0.036}_{-0.022}$	$100\theta_{eq}$	0.8225	0.815 ± 0.015
$\boldsymbol{y_{cal}}$	0.99996	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4424	$2.472^{+0.037}_{-0.048}$	$100\theta_{s,eq}$	0.4542	0.4505 ± 0.0076
$\boldsymbol{A_{217}^{CIB}}$	67.5	64.9 ± 6.7	z_{re}	8.74	9.82 ± 1.9	$r_{drag}/D_V(0.57)$	0.07236	$0.0701^{+0.0023}_{-0.0018}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	10^9A_s	2.135	$2.190^{+0.089}_{-0.11}$	$H(0.57)$	93.70	91.9 ± 2.8
$\boldsymbol{A_{143}^{tSZ}}$	7.18	4.88 ± 2.0	$10^9A_se^{-2\tau}$	1.8739	1.879 ± 0.022	$D_A(0.57)$	1371	1423^{+58}_{-72}
$\boldsymbol{A_{100}^{PS}}$	254.2	263 ± 28	D_{40}	1220.1	1231 ± 21	$F_{AP}(0.57)$	0.6725	$0.6838^{+0.0081}_{-0.013}$
$\boldsymbol{A_{143}^{PS}}$	39.3	46 ± 8	D_{220}	5715.5	5714 ± 42	$f\sigma_8(0.57)$	0.4760	$0.461^{+0.019}_{-0.011}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39^{+10}_{-10}	D_{810}	2531.9	2534 ± 14	$\sigma_8(0.57)$	0.6181	$0.573^{+0.047}_{-0.033}$
$\boldsymbol{A_{217}^{PS}}$	97.0	97 ± 10	D_{1420}	814.8	814.1 ± 5.1	f_{2000}^{143}	29.99	31.4 ± 3.4
$\boldsymbol{A^{kSZ}}$	0.00	< 5.25	D_{2000}	230.16	229.4 ± 2.2	$f_{2000}^{143\times217}$	32.56	33.6 ± 2.5
$\boldsymbol{A_{100}^{dustTT}}$	7.46	7.47 ± 1.9	$n_{s,0.002}$	0.9707	0.965 ± 0.016	f_{2000}^{217}	106.07	107.0 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	9.10	9.08 ± 1.8	Y_P	0.24584	0.2455 ± 0.0043	$\chi^2_{lensing}$	9.43	9.57 ± 1.4
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.69	17.3 ± 4.2	Y_P^{BBN}	0.24717	0.2468 ± 0.0043	χ^2_{lowTEB}	10494.53	10496.9 ± 2.5
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.8 ± 7.4	10^5D/H	2.610	2.645 ± 0.069	χ^2_{plik}	766.5	780.5 ± 5.8
$\boldsymbol{c_{100}}$	0.99792	0.99787 ± 0.00078	Age/Gyr	13.726	13.93 ± 0.38	χ^2_{prior}	2.06	7.48 ± 3.6
$\boldsymbol{c_{217}}$	0.99598	0.9961 ± 0.0015	z_*	1089.87	1090.31 ± 0.56	χ^2_{CMB}	11270.5	11287.0 ± 5.8
H_0	68.80	$65.3^{+4.2}_{-3.8}$	r_*	144.67	144.5 ± 2.6			
Ω_Λ	0.7022	$0.656^{+0.054}_{-0.031}$	$100\theta_*$	1.04123	1.04103 ± 0.00070			

Best-fit $\chi^2_{\rm eff} = 11272.54$; $\bar{\chi}^2_{\rm eff} = 11294.43$; $R-1 = 0.00735$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.43 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.53 plik_dx11dr2_HM_v18_TT: 766.52

14.18 base_nnu_mnu_plikHM_TT_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022260	0.02236 ± 0.00026	$\Omega_m h^2$	0.14130	0.1438 ± 0.0044	r_{drag}	147.78	146.6 ± 2.4
$\boldsymbol{\Omega_c h^2}$	0.11819	0.1199 ± 0.0038	$\Omega_\nu h^2$	0.00084	< 0.00191	k_D	0.14012	0.1410 ± 0.0018
$\boldsymbol{100\theta_{MC}}$	1.04104	1.04087 ± 0.00057	$\Omega_m h^3$	0.09560	0.0980 ± 0.0048	$100\theta_D$	0.16093	0.16124 ± 0.00061
$\boldsymbol{\tau}$	0.0678	$0.077^{+0.017}_{-0.021}$	σ_8	0.8135	0.810 ± 0.016	z_{eq}	3363.5	3343^{+47}_{-38}
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.078	< 0.177	$\sigma_8 \Omega_m^{0.5}$	0.4519	0.4503 ± 0.0076	k_{eq}	0.010255	0.01029 ± 0.00014
$\boldsymbol{N_{eff}}$	3.030	3.17 ± 0.26	$\sigma_8 \Omega_m^{0.25}$	0.6064	0.604 ± 0.010	$100\theta_{eq}$	0.8200	$0.8243^{+0.0072}_{-0.0092}$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0654	$3.087^{+0.035}_{-0.047}$	$\sigma_8/h^{0.5}$	0.9890	$0.981^{+0.019}_{-0.015}$	$100\theta_{s,eq}$	0.45299	$0.4551^{+0.0037}_{-0.0047}$
$\boldsymbol{n_s}$	0.9677	0.973 ± 0.011	$\langle d^2 \rangle^{1/2}$	2.4479	2.447 ± 0.027	$r_{drag}/D_V(0.57)$	0.071772	0.07171 ± 0.00049
$\boldsymbol{y_{cal}}$	1.00019	1.0002 ± 0.0025	z_{re}	9.00	9.78 ± 1.8	$H(0.57)$	92.92	93.7 ± 1.6
$\boldsymbol{A_{217}^{CIB}}$	67.5	65.0 ± 6.6	$10^9 A_s$	2.144	$2.192^{+0.074}_{-0.11}$	$D_A(0.57)$	1387.7	1378 ± 27
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8724	$1.880^{+0.023}_{-0.020}$	$F_{AP}(0.57)$	0.67529	0.6755 ± 0.0023
$\boldsymbol{A_{143}^{tSZ}}$	7.19	4.88 ± 2.0	D_{40}	1226.2	1222 ± 15	$f\sigma_8(0.57)$	0.4727	0.4716 ± 0.0077
$\boldsymbol{A_{100}^{PS}}$	254.2	263 ± 29	D_{220}	5716.8	5719 ± 41	$\sigma_8(0.57)$	0.6061	0.603 ± 0.013
$\boldsymbol{A_{143}^{PS}}$	39.0	45 ± 8	D_{810}	2532.4	2534 ± 14	f_{2000}^{143}	29.92	31.2 ± 3.4
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	39^{+10}_{-10}	D_{1420}	815.05	814.2 ± 5.0	$f_{2000}^{143\times217}$	32.51	33.4 ± 2.5
$\boldsymbol{A_{217}^{PS}}$	96.8	96 ± 10	D_{2000}	230.30	229.5 ± 2.1	f_{2000}^{217}	106.05	106.9 ± 2.4
$\boldsymbol{A^{kSZ}}$	0.00	< 5.30	$n_{s,0.002}$	0.9677	0.973 ± 0.011	$\chi^2_{lensing}$	9.29	9.75 ± 1.5
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.51 ± 1.9	Y_P	0.24513	0.2470 ± 0.0035	χ^2_{lowTEB}	10495.01	10495.6 ± 1.8
$\boldsymbol{A_{143}^{dustTT}}$	9.16	9.10 ± 1.8	Y_P^{BBN}	0.24646	0.2484 ± 0.0035	χ^2_{plik}	766.2	780.7 ± 5.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.73	17.3 ± 4.1	10^5D/H	2.607	2.637 ± 0.068	χ^2_{6DF}	0.0102	0.070 ± 0.096
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.3	Age/Gyr	13.818	13.71 ± 0.23	χ^2_{MGS}	1.41	1.42 ± 0.63
$\boldsymbol{c_{100}}$	0.99789	0.99788 ± 0.00079	z_*	1089.882	1090.06 ± 0.47	$\chi^2_{DR11CMASS}$	2.394	3.01 ± 0.87
$\boldsymbol{c_{217}}$	0.99597	0.9961 ± 0.0014	r_*	145.07	143.9 ± 2.3	$\chi^2_{DR11LOWZ}$	0.478	0.74 ± 0.69
H_0	67.66	68.2 ± 1.5	$100\theta_*$	1.04126	1.04102 ± 0.00068	χ^2_{prior}	2.13	7.44 ± 3.6
Ω_Λ	0.6914	0.6904 ± 0.0090	D_A/Gpc	13.932	13.82 ± 0.22	χ^2_{CMB}	11270.5	11286.0 ± 5.7
Ω_m	0.3086	0.3096 ± 0.0090	z_{drag}	1059.55	$1060.00^{+0.91}_{-1.0}$	χ^2_{BAO}	4.29	5.23 ± 1.3

Best-fit $\chi^2_{eff} = 11276.91$; $\bar{\chi}^2_{eff} = 11298.71$; $R - 1 = 0.02062$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.39 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.29 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.01 plik_dx11dr2_HM_v18_TT: 766.20

14.19 base_nnu_mnu_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022128	0.02208 ± 0.00025	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.306	0.305 ± 0.084	Age/Gyr	13.975	14.04 ± 0.22
$\boldsymbol{\Omega_c h^2}$	0.11737	0.1184 ± 0.0030	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	z_*	1089.847	1090.07 ± 0.40
$\boldsymbol{100\theta_{MC}}$	1.041034	1.04087 ± 0.00046	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.340 ± 0.080	r_*	146.05	145.6 ± 1.9
$\boldsymbol{\tau}$	0.0616	0.071 ± 0.018	$\boldsymbol{A^{dustTE}_{217}}$	1.662	1.68 ± 0.25	$100\theta_*$	1.04136	1.04124 ± 0.00055
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.094	< 0.310	$\boldsymbol{c_{100}}$	0.99817	0.99815 ± 0.00077	D_A/Gpc	14.025	13.98 ± 0.17
$\boldsymbol{N_{eff}}$	2.899	2.93 ± 0.19	$\boldsymbol{c_{217}}$	0.99597	0.9961 ± 0.0015	z_{drag}	1059.06	1059.08 ± 0.83
$\boldsymbol{\ln(10^{10}A_s)}$	3.0508	3.071 ± 0.037	H_0	66.17	$64.8^{+2.5}_{-2.1}$	r_{drag}	148.82	148.4 ± 1.9
$\boldsymbol{n_s}$	0.9591	0.9589 ± 0.0095	Ω_Λ	0.6791	$0.658^{+0.034}_{-0.020}$	k_D	0.13945	0.1398 ± 0.0014
$\boldsymbol{y_{cal}}$	1.00001	1.0003 ± 0.0025	Ω_m	0.3209	$0.342^{+0.020}_{-0.034}$	$100\theta_D$	0.160637	0.16074 ± 0.00041
$\boldsymbol{A^{CIB}_{217}}$	67.1	64.3 ± 6.6	$\Omega_m h^2$	0.14051	$0.1431^{+0.0036}_{-0.0045}$	z_{eq}	3400.6	3408 ± 41
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.07	—	$\Omega_\nu h^2$	0.00101	< 0.00333	k_{eq}	0.010276	0.01033 ± 0.00012
$\boldsymbol{A^{tSZ}_{143}}$	7.31	5.28 ± 1.9	$\Omega_m h^3$	0.09298	0.0927 ± 0.0039	$100\theta_{eq}$	0.8129	0.8116 ± 0.0078
$\boldsymbol{A^{PS}_{100}}$	256.3	262 ± 28	σ_8	0.8031	$0.778^{+0.038}_{-0.024}$	$100\theta_{s,eq}$	0.44936	0.4487 ± 0.0040
$\boldsymbol{A^{PS}_{143}}$	38.6	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4549	0.4543 ± 0.0071	$r_{drag}/D_V(0.57)$	0.07112	$0.0701^{+0.0015}_{-0.0011}$
$\boldsymbol{A^{PS}_{143\times217}}$	33.9	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6045	$0.594^{+0.017}_{-0.011}$	$H(0.57)$	91.72	91.1 ± 1.6
$\boldsymbol{A^{PS}_{217}}$	96.9	97 ± 10	$\sigma_8/h^{0.5}$	0.9873	$0.967^{+0.031}_{-0.018}$	$D_A(0.57)$	1412.3	1433^{+34}_{-41}
$\boldsymbol{A^{kSZ}}$	0.00	< 4.47	$\langle d^2\rangle^{1/2}$	2.4609	$2.476^{+0.030}_{-0.036}$	$F_{AP}(0.57)$	0.6784	$0.6836^{+0.0050}_{-0.0080}$
$\boldsymbol{A^{dustTT}_{100}}$	7.44	7.42 ± 1.9	z_{re}	8.40	9.29 ± 1.7	$f\sigma_8(0.57)$	0.4700	$0.462^{+0.014}_{-0.0088}$
$\boldsymbol{A^{dustTT}_{143}}$	9.04	8.98 ± 1.8	$10^9 A_s$	2.113	$2.159^{+0.076}_{-0.089}$	$\sigma_8(0.57)$	0.5955	$0.574^{+0.034}_{-0.021}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.47	17.2 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8684	1.873 ± 0.017	f^{143}_{2000}	29.23	29.9 ± 2.9
$\boldsymbol{A^{dustTT}_{217}}$	81.6	81.8 ± 7.4	D_{40}	1239.8	1241 ± 15	$f^{143\times217}_{2000}$	32.10	32.6 ± 2.1
$\boldsymbol{A^{dustEE}_{100}}$	0.0811	0.0810 ± 0.0057	D_{220}	5725.0	5727 ± 39	f^{217}_{2000}	105.58	106.1 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0487	0.0485 ± 0.0050	D_{810}	2531.9	2534 ± 14	$\chi^2_{lensing}$	9.61	9.71 ± 1.5
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0999	0.0997 ± 0.032	D_{1420}	815.07	815.2 ± 4.8	χ^2_{lowTEB}	10496.34	10497.4 ± 2.0
$\boldsymbol{A^{dustEE}_{143}}$	0.09997	0.0999 ± 0.0068	D_{2000}	230.60	230.3 ± 1.8	χ^2_{plik}	2433.9	2454.2 ± 6.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2243	0.225 ± 0.047	$n_{s,0.002}$	0.9591	0.9589 ± 0.0095	χ^2_{prior}	6.96	19.2 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.654	0.65 ± 0.13	Y_P	0.24327	0.2437 ± 0.0028	χ^2_{CMB}	12939.9	12961.3 ± 6.9
$\boldsymbol{A^{dustTE}_{100}}$	0.1410	0.141 ± 0.038	Y_P^{BBN}	0.24458	0.2450 ± 0.0028			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1309	0.131 ± 0.029	10^5D/H	2.5856	2.607 ± 0.048			

Best-fit $\chi^2_{eff} = 12946.85$; $\bar{\chi}^2_{eff} = 12980.54$; $R - 1 = 0.01047$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.61 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.34 plik_dx11dr2_HM_v18_TTTEEE: 2433.94

14.20 base_nnu_mnu_plikHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022169	0.02224 ± 0.00021	$\boldsymbol{A_{143}^{dustTE}}$	0.156	0.153 ± 0.053	r_*	146.09	145.4 ± 1.8
$\boldsymbol{\Omega_c h^2}$	0.11703	0.1179 ± 0.0029	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.338	0.336 ± 0.079	$100\theta_*$	1.04142	1.04127 ± 0.00054
$\boldsymbol{100\theta_{MC}}$	1.041155	1.04101 ± 0.00044	$\boldsymbol{A_{217}^{dustTE}}$	1.658	1.67 ± 0.26	D_A/Gpc	14.028	13.97 ± 0.16
$\boldsymbol{\tau}$	0.0576	0.067 ± 0.015	$\boldsymbol{c_{100}}$	0.99821	0.99814 ± 0.00078	z_{drag}	1059.13	1059.43 ± 0.75
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.002	< 0.114	$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0015	r_{drag}	148.84	148.1 ± 1.8
$\boldsymbol{N_{eff}}$	2.905	2.99 ± 0.18	H_0	67.18	67.1 ± 1.2	k_D	0.13942	0.1399 ± 0.0013
$\boldsymbol{\ln(10^{10}A_s)}$	3.0419	$3.064^{+0.029}_{-0.035}$	Ω_Λ	0.6915	0.6866 ± 0.0082	$100\theta_D$	0.160629	0.16079 ± 0.00040
$\boldsymbol{n_s}$	0.9610	0.9643 ± 0.0079	Ω_m	0.3085	0.3134 ± 0.0082	z_{eq}	3390.5	3375^{+33}_{-28}
$\boldsymbol{y_{cal}}$	0.99975	1.0002 ± 0.0024	$\Omega_m h^2$	0.13922	0.1411 ± 0.0032	k_{eq}	0.010249	0.01026 ± 0.00011
$\boldsymbol{A_{217}^{CIB}}$	65.3	64.2 ± 6.6	$\Omega_\nu h^2$	0.00002	< 0.00123	$100\theta_{eq}$	0.8149	$0.8179^{+0.0054}_{-0.0064}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.24	—	$\Omega_m h^3$	0.09353	0.0947 ± 0.0035	$100\theta_{s,eq}$	0.45035	$0.4519^{+0.0027}_{-0.0032}$
$\boldsymbol{A_{143}^{tSZ}}$	7.18	$5.35^{+2.2}_{-2.0}$	σ_8	0.8174	0.809 ± 0.014	$r_{drag}/D_V(0.57)$	0.071769	0.07151 ± 0.00043
$\boldsymbol{A_{100}^{PS}}$	253.3	261 ± 27	$\sigma_8\Omega_m^{0.5}$	0.4540	0.4525 ± 0.0064	$H(0.57)$	92.25	92.5 ± 1.2
$\boldsymbol{A_{143}^{PS}}$	41.1	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6092	0.6049 ± 0.0085	$D_A(0.57)$	1397.7	1397 ± 21
$\boldsymbol{A_{143\times217}^{PS}}$	39.0	39^{+10}_{-10}	$\sigma_8/h^{0.5}$	0.9973	$0.987^{+0.015}_{-0.012}$	$F_{AP}(0.57)$	0.67526	0.6765 ± 0.0021
$\boldsymbol{A_{217}^{PS}}$	99.6	97 ± 10	$\langle d^2\rangle^{1/2}$	2.4556	2.456 ± 0.025	$f\sigma_8(0.57)$	0.4734	0.4712 ± 0.0065
$\boldsymbol{A^{kSZ}}$	0.00	< 4.29	z_{re}	7.99	8.89 ± 1.5	$\sigma_8(0.57)$	0.6083	0.601 ± 0.011
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.45 ± 1.8	$10^9 A_s$	2.094	$2.142^{+0.061}_{-0.077}$	f_{2000}^{143}	28.71	29.6 ± 2.8
$\boldsymbol{A_{143}^{dustTT}}$	9.06	8.99 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8664	1.872 ± 0.017	$f_{2000}^{143\times217}$	31.76	32.2 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.03	17.1 ± 4.1	D_{40}	1233.7	1234 ± 13	f_{2000}^{217}	105.25	$105.8^{+2.2}_{-1.9}$
$\boldsymbol{A_{217}^{dustTT}}$	82.4	81.8 ± 7.4	D_{220}	5721.0	5729 ± 38	$\chi^2_{lensing}$	9.89	10.1 ± 1.7
$\boldsymbol{A_{100}^{dustEE}}$	0.0811	0.0815 ± 0.0057	D_{810}	2530.9	2533 ± 13	χ^2_{lowTEB}	10495.97	10496.3 ± 1.5
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04875	0.0491 ± 0.0049	D_{1420}	815.23	815.3 ± 4.8	χ^2_{plik}	2434.3	2453.9 ± 6.8
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0998	0.099 ± 0.033	D_{2000}	230.79	230.5 ± 1.8	χ^2_{6DF}	0.010	0.09 ± 0.11
$\boldsymbol{A_{143}^{dustEE}}$	0.1002	0.1005 ± 0.0067	$n_{s,0.002}$	0.9610	0.9643 ± 0.0079	χ^2_{MGS}	1.41	1.16 ± 0.52
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2250	0.224 ± 0.046	Y_P	0.24337	0.2445 ± 0.0026	$\chi^2_{DR11CMASS}$	2.40	3.07 ± 0.93
$\boldsymbol{A_{217}^{dustEE}}$	0.656	0.66 ± 0.13	Y_P^{BBN}	0.24468	0.2458 ± 0.0026	$\chi^2_{DR11LOWZ}$	0.48	0.99 ± 0.74
$\boldsymbol{A_{100}^{dustTE}}$	0.1412	0.142 ± 0.038	10^5D/H	2.5799	2.594 ± 0.045	χ^2_{prior}	6.70	19.4 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1319	0.131 ± 0.029	Age/Gyr	13.918	13.88 ± 0.18	χ^2_{CMB}	12940.2	12960.3 ± 6.5
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.304	0.307 ± 0.083	z_*	1089.765	1089.83 ± 0.34	χ^2_{BAO}	4.29	5.31 ± 1.4

Best-fit $\chi^2_{eff} = 12951.19$; $\bar{\chi}^2_{eff} = 12985.02$; $R - 1 = 0.04453$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.40 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.88 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.97 plik_dx11dr2_HM_v18_TTT

14.21 base_nnu_mnu_CamSpecHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022353	0.02213 ± 0.00041 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.09	-0.1 ± 1.0	r_*	144.15	144.7 ± 2.7 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11927	0.1196 ± 0.0039 (-0.1σ)	H_0	69.29	65.4 ± 3.9 $(+0.0\sigma)$	$100\theta_*$	1.04114	1.04113 ± 0.00072 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04103	1.04080 ± 0.00060 $(+0.1\sigma)$	Ω_Λ	0.7050	$0.658^{+0.053}_{-0.030}$ $(+0.1\sigma)$	$z_{\rm drag}$	1059.89	1059.4 ± 1.3 (-0.0σ)
$\boldsymbol{\tau}$	0.0683	$0.078^{+0.019}_{-0.022}$ $(+0.1\sigma)$	$\Omega_{\rm m}$	0.2950	$0.342^{+0.030}_{-0.053}$ (-0.1σ)	$r_{\rm drag}$	146.82	147.5 ± 2.8 $(+0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.000	< 0.356 (-0.1σ)	$\Omega_{\rm m}h^2$	0.1416	$0.1447^{+0.0046}_{-0.0054}$ (-0.1σ)	$k_{\rm D}$	0.14078	0.1404 ± 0.0020 (-0.1σ)
$\boldsymbol{N_{\rm eff}}$	3.144	3.04 ± 0.32 (-0.1σ)	$\Omega_\nu h^2$	0.00000	< 0.00383 (-0.1σ)	$100\theta_{\rm D}$	0.16118	0.16101 ± 0.00069 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0669	$3.086^{+0.042}_{-0.047}$ $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	0.0981	$0.0946^{+0.0062}_{-0.0069}$ (-0.1σ)	$z_{\rm eq}$	3341	3390 ± 79 (-0.0σ)
$\boldsymbol{n_s}$	0.9737	0.966 ± 0.017 $(+0.1\sigma)$	σ_8	0.8311	$0.780^{+0.052}_{-0.034}$ $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8246	0.815 ± 0.015 $(+0.0\sigma)$
$\boldsymbol{y_{\rm cal}}$	1.00002	1.0003 ± 0.0025 $(+0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4514	0.4537 ± 0.0091 $(+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07252	$0.0702^{+0.0023}_{-0.0018}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{\rm PS}}$	253.3	248 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6125	$0.594^{+0.020}_{-0.013}$ $(+0.1\sigma)$	$H(0.57)$	94.17	91.9 ± 2.9 (-0.0σ)
$\boldsymbol{A_{143}^{\rm PS}}$	36.4	40 ± 8 (-0.7σ)	$\sigma_8/h^{0.5}$	0.9984	$0.964^{+0.036}_{-0.021}$ $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1362	1422^{+59}_{-70} (-0.0σ)
$\boldsymbol{A_{217}^{\rm PS}}$	93.6	97 ± 10 $(+0.0\sigma)$	$\langle d^2\rangle^{1/2}$	2.4395	$2.470^{+0.036}_{-0.046}$ (-0.1σ)	$F_{\rm AP}(0.57)$	0.6718	$0.6833^{+0.0079}_{-0.013}$ (-0.1σ)
$\boldsymbol{A_{217}^{\rm CIB}}$	48.0	47 ± 7 (-2.7σ)	$z_{\rm re}$	9.05	9.96 ± 1.9 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4776	$0.462^{+0.019}_{-0.011}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{\rm tSZ}}$	2.63	$3.10^{+1.2}_{-2.6}$ (-0.9σ)	$10^9A_{\rm s}$	2.148	$2.190^{+0.088}_{-0.11}$ $(+0.0\sigma)$	$\sigma_8(0.57)$	0.6220	$0.575^{+0.047}_{-0.032}$ $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{\rm PS}}$	0.395	$0.51^{+0.10}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8732	1.873 ± 0.022 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.24760	0.2461 ± 0.0044 (-0.2σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.001	< 0.582 (-0.2σ)	D_{40}	1213.5	1225 ± 21 (-0.3σ)	f_{2000}^{143}	30.39	30 ± 3 (-0.5σ)
$\boldsymbol{A^{\rm kSZ}}$	6.38	> 4.26 $(+0.6\sigma)$	D_{220}	5698.1	5694 ± 41 (-0.5σ)	f_{2000}^{217}	107.44	107.1 ± 2.4 $(+0.0\sigma)$
$\boldsymbol{A_{100}^{\rm dust}}$	0.987	0.99 ± 0.19	D_{810}	2527.4	2530 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	32.65	32.5 ± 2.6 (-0.4σ)
$\boldsymbol{A_{143}^{\rm dust}}$	1.022	1.03 ± 0.18	D_{1420}	813.0	814.3 ± 5.2 $(+0.0\sigma)$	$\chi^2_{\rm lensing}$	9.23	9.50 ± 1.3 (-0.0σ)
$\boldsymbol{A_{217}^{\rm dust}}$	1.225	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9737	0.966 ± 0.017 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10494.07	10496.5 ± 2.5 (-0.2σ)
$\boldsymbol{A_{143\times217}^{\rm dust}}$	0.963	0.98 ± 0.18	$Y_{\rm P}$	0.24627	0.2447 ± 0.0044 (-0.2σ)	$\chi^2_{\rm CamSpec}$	8047.1	8062.2 ± 6.0
$\boldsymbol{c_{100}}$	0.99660	0.99674 ± 0.00097 (-1.5σ)	Age/Gyr	13.663	13.94 ± 0.39 $(+0.0\sigma)$	$\chi^2_{\rm prior}$	3.86	8.49 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99769	0.9974 ± 0.0018 $(+0.9\sigma)$	z_*	1089.95	$1090.21^{+0.54}_{-0.60}$ (-0.2σ)	$\chi^2_{\rm CMB}$	18550.4	18568.2 ± 6.1 $(+1248.8\sigma)$

Best-fit $\chi^2_{\rm eff} = 18554.22$; $\Delta\chi^2_{\rm eff} = 7281.69$; $\bar{\chi}^2_{\rm eff} = 18576.74$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.31$; $R - 1 = 0.00693$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.23 (Δ -0.20) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.07 (Δ -0.46) CamSpec like_v9.10CMH_unified: 8047.06

14.22 base_nnu_mnu_CamSpecHM_TT_lowTEB_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02234 \pm 0.00026 \quad (-0.1\sigma)$	Ω_Λ	$0.6904 \pm 0.0091 \quad (-0.0\sigma)$	k_D	$0.1408 \pm 0.0018 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1194 \pm 0.0038 \quad (-0.1\sigma)$	Ω_m	$0.3096 \pm 0.0091 \quad (+0.0\sigma)$	$100\theta_D$	$0.16114^{+0.00058}_{-0.00066} \quad (-0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04094 \pm 0.00057 \quad (+0.1\sigma)$	$\Omega_m h^2$	$0.1432^{+0.0041}_{-0.0047} \quad (-0.1\sigma)$	z_{eq}	$3346^{+44}_{-38} \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.077^{+0.017}_{-0.021} \quad (+0.1\sigma)$	$\Omega_\nu h^2$	$< 0.00179 \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.8236^{+0.0072}_{-0.0088} \quad (-0.1\sigma)$
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	$< 0.166 \quad (-0.1\sigma)$	$\Omega_m h^3$	$0.0974 \pm 0.0048 \quad (-0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07171 \pm 0.00049 \quad (+0.0\sigma)$
$\boldsymbol{N_{eff}}$	$3.14^{+0.24}_{-0.28} \quad (-0.1\sigma)$	σ_8	$0.811 \pm 0.016 \quad (+0.1\sigma)$	$H(0.57)$	$93.5 \pm 1.7 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.085^{+0.035}_{-0.045} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.4512 \pm 0.0074 \quad (+0.1\sigma)$	$D_A(0.57)$	$1381 \pm 27 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.974^{+0.010}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.605 \pm 0.010 \quad (+0.1\sigma)$	$F_{AP}(0.57)$	$0.6755 \pm 0.0023 \quad (+0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.018}_{-0.014} \quad (+0.2\sigma)$	$f\sigma_8(0.57)$	$0.4723 \pm 0.0075 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446 \pm 0.027 \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.604 \pm 0.013 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.7\sigma)$	z_{re}	$9.86^{+1.6}_{-1.8} \quad (+0.0\sigma)$	Y_P^{BBN}	$0.2475 \pm 0.0035 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$10^9 A_s$	$2.189^{+0.072}_{-0.10} \quad (-0.0\sigma)$	f_{2000}^{143}	$29.6 \pm 3.3 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.8\sigma)$	$10^9 A_s e^{-2\tau}$	$1.874 \pm 0.021 \quad (-0.3\sigma)$	f_{2000}^{217}	$107.0 \pm 2.3 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.13^{+1.3}_{-2.6} \quad (-0.9\sigma)$	D_{40}	$1217 \pm 15 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.4 \pm 2.5 \quad (-0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	$5698 \pm 41 \quad (-0.5\sigma)$	$\chi^2_{lensing}$	$9.66 \pm 1.4 \quad (-0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.571 \quad (-0.2\sigma)$	D_{810}	$2530 \pm 14 \quad (-0.3\sigma)$	χ^2_{lowTEB}	$10495.3 \pm 1.8 \quad (-0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.31 \quad (+0.6\sigma)$	D_{1420}	$814.3 \pm 5.2 \quad (+0.0\sigma)$	$\chi^2_{CamSpec}$	8062.2 ± 5.9
$\boldsymbol{A_{100}^{dust}}$	0.995 ± 0.19	$n_{s,0.002}$	$0.974^{+0.010}_{-0.011} \quad (+0.1\sigma)$	χ^2_{6DF}	$0.071 \pm 0.096 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.19	Y_P	$0.2461 \pm 0.0034 \quad (-0.3\sigma)$	χ^2_{MGS}	$1.42 \pm 0.64 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.74 \pm 0.23 \quad (+0.1\sigma)$	$\chi^2_{DR11CMASS}$	$3.01 \pm 0.87 \quad (+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	$1089.98 \pm 0.48 \quad (-0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.74 \pm 0.68 \quad (+0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99674 \pm 0.00096 \quad (-1.4\sigma)$	r_*	$144.2 \pm 2.3 \quad (+0.1\sigma)$	χ^2_{prior}	$8.55 \pm 3.6 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9974 \pm 0.0018 \quad (+0.9\sigma)$	$100\theta_*$	$1.04112 \pm 0.00069 \quad (+0.1\sigma)$	χ^2_{CMB}	$18567.1 \pm 5.9 \quad (+1280.7\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	z_{drag}	$1059.88 \pm 0.95 \quad (-0.1\sigma)$	χ^2_{BAO}	$5.24 \pm 1.3 \quad (+0.0\sigma)$
H_0	$68.0 \pm 1.5 \quad (-0.1\sigma)$	r_{drag}	$146.9 \pm 2.4 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{eff} = 18580.89$; $\Delta\bar{\chi}^2_{eff} = 7282.17$; $R - 1 = 0.01144$

14.23 base_nnu_mnu_CamSpecHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022146	0.02212 ± 0.00024 $(+0.2\sigma)$	$\boldsymbol{c_{EE}}$	0.99889	0.9986 ± 0.0048	r_*	147.04	146.9 ± 2.0 $(+0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11557	0.1159 ± 0.0032 (-0.8σ)	$\boldsymbol{\beta_1^1}$	-0.06	-0.1 ± 1.0	$100\theta_*$	1.04163	1.04161 ± 0.00059 $(+0.7\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.041229	1.04116 ± 0.00048 $(+0.6\sigma)$	H_0	65.62	$64.6^{+2.4}_{-2.1}$ (-0.1σ)	$z_{\rm drag}$	1058.87	1058.87 ± 0.84 (-0.3σ)
$\boldsymbol{\tau}$	0.0645	0.071 ± 0.016 (-0.0σ)	Ω_Λ	0.6776	$0.663^{+0.031}_{-0.017}$ $(+0.2\sigma)$	$r_{\rm drag}$	149.82	149.7 ± 2.1 $(+0.7\sigma)$
$\boldsymbol{\Sigma m_\nu}$ [eV]	0.103	< 0.258 (-0.2σ)	$\Omega_{\rm m}$	0.3224	$0.337^{+0.017}_{-0.031}$ (-0.2σ)	$k_{\rm D}$	0.13884	0.1390 ± 0.0015 (-0.6σ)
$\boldsymbol{N_{\rm eff}}$	2.800	$2.81^{+0.20}_{-0.23}$ (-0.7σ)	$\Omega_{\rm m}h^2$	0.13883	$0.1403^{+0.0037}_{-0.0042}$ (-0.7σ)	$100\theta_{\rm D}$	0.160293	0.16030 ± 0.00048 (-1.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0501	3.062 ± 0.034 (-0.3σ)	$\Omega_\nu h^2$	0.00111	< 0.00278 (-0.2σ)	$z_{\rm eq}$	3403.6	3410 ± 41 $(+0.0\sigma)$
$\boldsymbol{n_s}$	0.9583	0.9579 ± 0.0096 (-0.1σ)	$\Omega_{\rm m}h^3$	0.09110	$0.0906^{+0.0039}_{-0.0045}$ (-0.5σ)	$100\theta_{\rm eq}$	0.8125	0.8115 ± 0.0078 (-0.0σ)
$\boldsymbol{y_{\rm cal}}$	1.00044	1.0003 ± 0.0025 (-0.0σ)	σ_8	0.7972	$0.779^{+0.035}_{-0.022}$ $(+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07106	$0.0704^{+0.0014}_{-0.00095}$ $(+0.2\sigma)$
$\boldsymbol{A_{100}^{\rm PS}}$	241.8	241 ± 23 (-0.7σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4526	0.4514 ± 0.0067 (-0.4σ)	$H(0.57)$	91.06	90.6 ± 1.7 (-0.4σ)
$\boldsymbol{A_{143}^{\rm PS}}$	33.1	36 ± 8 (-0.9σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6007	$0.593^{+0.015}_{-0.011}$ (-0.1σ)	$D_{\rm A}(0.57)$	1423.3	1440^{+35}_{-41} $(+0.2\sigma)$
$\boldsymbol{A_{217}^{\rm PS}}$	99.2	99 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9841	$0.969^{+0.028}_{-0.017}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6788	$0.6824^{+0.0045}_{-0.0074}$ (-0.2σ)
$\boldsymbol{A_{217}^{\rm CIB}}$	46.1	45 ± 7 (-3.0σ)	$\langle d^2\rangle^{1/2}$	2.4590	$2.468^{+0.029}_{-0.034}$ (-0.3σ)	$f\sigma_8(0.57)$	0.4671	$0.460^{+0.013}_{-0.0084}$ (-0.1σ)
$\boldsymbol{A_{143}^{\rm tSZ}}$	4.32	$3.54^{+1.7}_{-2.5}$ (-0.9σ)	$z_{\rm re}$	8.64	9.20 ± 1.6 (-0.1σ)	$\sigma_8(0.57)$	0.5909	$0.575^{+0.031}_{-0.020}$ $(+0.0\sigma)$
$\boldsymbol{r_{143\times217}^{\rm PS}}$	0.441	0.52 ± 0.12	$10^9A_{\rm s}$	2.112	$2.139^{+0.069}_{-0.080}$ (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	0.24284	0.2429 ± 0.0030 (-0.8σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.004	< 0.614 (-0.2σ)	$10^9A_{\rm s}e^{-2\tau}$	1.8562	1.856 ± 0.019 (-1.0σ)	f_{2000}^{143}	27.42	27.4 ± 3.0 (-0.9σ)
$\boldsymbol{A^{\rm kSZ}}$	3.34	4.90 ± 2.7 $(+0.6\sigma)$	D_{40}	1236.1	1236 ± 15 (-0.3σ)	f_{2000}^{217}	105.32	105.3 ± 2.1 (-0.4σ)
$\boldsymbol{A_{100}^{\rm dust}}$	0.975	0.98 ± 0.19	D_{220}	5711.6	5709 ± 39 (-0.5σ)	$f_{2000}^{143\times217}$	30.29	30.4 ± 2.3 (-1.0σ)
$\boldsymbol{A_{143}^{\rm dust}}$	1.027	1.02 ± 0.18	D_{810}	2527.8	2528 ± 14 (-0.5σ)	$\chi^2_{\rm lensing}$	9.06	9.39 ± 1.2 (-0.2σ)
$\boldsymbol{A_{217}^{\rm dust}}$	1.224	1.22 ± 0.12	D_{1420}	816.39	816.4 ± 5.0 $(+0.2\sigma)$	$\chi^2_{\rm lowTEB}$	10496.07	10497.0 ± 1.9 (-0.2σ)
$\boldsymbol{A_{143\times217}^{\rm dust}}$	0.980	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9583	0.9579 ± 0.0096 (-0.1σ)	$\chi^2_{\rm CamSpec}$	12935.5	12952.8 ± 6.2
$\boldsymbol{c_{100}}$	0.99674	0.99677 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.24152	0.2415 ± 0.0030 (-0.8σ)	$\chi^2_{\rm prior}$	3.60	9.09 ± 3.6 (-1.8σ)
$\boldsymbol{c_{217}}$	0.99697	0.9969 ± 0.0018 $(+0.6\sigma)$	Age/Gyr	14.074	14.13 ± 0.24 $(+0.4\sigma)$	$\chi^2_{\rm CMB}$	23440.7	23459.2 ± 6.2 $(+1520.8\sigma)$
$\boldsymbol{c_{TE}}$	1.00415	1.0043 ± 0.0045	z_*	1089.550	$1089.65^{+0.39}_{-0.44}$ (-1.0σ)			

Best-fit $\chi^2_{\rm eff} = 23444.28$; $\Delta\chi^2_{\rm eff} = 10497.43$; $\bar{\chi}^2_{\rm eff} = 23468.27$; $\Delta\bar{\chi}^2_{\rm eff} = 10487.73$; $R - 1 = 0.00893$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.06 (Δ -0.55) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.07 (Δ -0.27) CamSpec like_v9.10CMH_unified: 12935.55

14.24 base_nnu_mnu_CamSpecHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227 ± 0.00020 $(+0.1\sigma)$	H_0	66.6 ± 1.3 (-0.4σ)	k_D	0.1393 ± 0.0014 (-0.5σ)
$\boldsymbol{\Omega_c h^2}$	0.1159 ± 0.0032 (-0.7σ)	Ω_Λ	0.6868 ± 0.0082 $(+0.0\sigma)$	$100\theta_D$	$0.16040^{+0.00043}_{-0.00051}$ (-1.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04123 ± 0.00047 $(+0.5\sigma)$	Ω_m	0.3132 ± 0.0082 (-0.0σ)	z_{eq}	3380 ± 29 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.068 ± 0.015 $(+0.1\sigma)$	$\Omega_m h^2$	$0.1390^{+0.0034}_{-0.0037}$ (-0.6σ)	$100\theta_{eq}$	0.8172 ± 0.0056 (-0.1σ)
$\boldsymbol{\Sigma m_\nu}$ [eV]	< 0.106 (-0.1σ)	$\Omega_\nu h^2$	< 0.00114 (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07154 ± 0.00043 $(+0.1\sigma)$
$\boldsymbol{N_{eff}}$	$2.87^{+0.19}_{-0.22}$ (-0.6σ)	$\Omega_m h^3$	$0.0927^{+0.0036}_{-0.0041}$ (-0.6σ)	$H(0.57)$	91.8 ± 1.4 (-0.5σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.058^{+0.028}_{-0.032}$ (-0.2σ)	σ_8	0.804 ± 0.014 (-0.3σ)	$D_A(0.57)$	1407 ± 23 $(+0.5\sigma)$
$\boldsymbol{n_s}$	0.9632 ± 0.0080 (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.4500 ± 0.0063 (-0.4σ)	$F_{AP}(0.57)$	0.6764 ± 0.0021 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 $(+0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6016 ± 0.0086 (-0.4σ)	$f\sigma_8(0.57)$	0.4685 ± 0.0067 (-0.4σ)
$\boldsymbol{A_{100}^{PS}}$	241 ± 23 (-0.7σ)	$\sigma_8/h^{0.5}$	$0.985^{+0.014}_{-0.012}$ (-0.1σ)	$\sigma_8(0.57)$	0.598 ± 0.011 (-0.3σ)
$\boldsymbol{A_{143}^{PS}}$	36 ± 8 (-0.9σ)	$\langle d^2 \rangle^{1/2}$	2.452 ± 0.025 (-0.2σ)	Y_P^{BBN}	0.2439 ± 0.0028 (-0.8σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.2\sigma)$	z_{re}	8.91 ± 1.4 $(+0.0\sigma)$	f_{2000}^{143}	27.3 ± 3.0 (-0.8σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-3.0σ)	$10^9 A_s$	$2.129^{+0.059}_{-0.069}$ (-0.2σ)	f_{2000}^{217}	105.2 ± 2.1 (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.55^{+1.7}_{-2.5}$ (-0.9σ)	$10^9 A_s e^{-2\tau}$	1.857 ± 0.019 (-0.8σ)	$f_{2000}^{143\times217}$	30.3 ± 2.3 (-0.9σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	D_{40}	1229 ± 13 (-0.3σ)	$\chi^2_{lensing}$	9.66 ± 1.4 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.611 (-0.2σ)	D_{220}	5712 ± 39 (-0.4σ)	χ^2_{lowTEB}	10496.0 ± 1.5 (-0.2σ)
$\boldsymbol{A^{kSZ}}$	4.93 ± 2.7 $(+0.6\sigma)$	D_{810}	2527 ± 14 (-0.4σ)	$\chi^2_{CamSpec}$	12953.0 ± 6.2
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	816.3 ± 5.0 $(+0.2\sigma)$	χ^2_{6DF}	0.09 ± 0.11 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{s,0.002}$	0.9632 ± 0.0080 (-0.1σ)	χ^2_{MGS}	1.18 ± 0.52 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Y_P	0.2426 ± 0.0028 (-0.8σ)	$\chi^2_{DR11CMASS}$	3.02 ± 0.89 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	13.98 ± 0.20 $(+0.6\sigma)$	$\chi^2_{DR11LOWZ}$	0.95 ± 0.72 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99677 ± 0.00097 (-1.8σ)	z_*	$1089.50^{+0.35}_{-0.41}$ (-1.0σ)	χ^2_{prior}	9.07 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.6\sigma)$	r_*	146.5 ± 1.9 $(+0.6\sigma)$	χ^2_{CMB}	23458.6 ± 6.2 $(+1609.2\sigma)$
$\boldsymbol{c_{TE}}$	1.0043 ± 0.0044	$100\theta_*$	1.04156 ± 0.00058 $(+0.5\sigma)$	χ^2_{BAO}	5.24 ± 1.3 (-0.0σ)
$\boldsymbol{c_{EE}}$	0.9996 ± 0.0047	z_{drag}	1059.24 ± 0.76 (-0.3σ)		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_{drag}	149.2 ± 2.0 $(+0.6\sigma)$		

$\bar{\chi}^2_{eff} = 23472.94$; $\Delta\bar{\chi}^2_{eff} = 10487.92$; $R - 1 = 0.02863$

14.25 base_nnu_mnu_WLonlyHeymans_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02230	0.02226 ± 0.00091	$10^9 A_s e^{-2\tau}$	1.284	$1.71^{+0.24}_{-0.59}$	z_{eq}	3400	3225^{+210}_{-120}
$\boldsymbol{\Omega_c h^2}$	0.1949	$0.191^{+0.050}_{-0.026}$	D_{40}	821	1096^{+200}_{-400}	k_{eq}	0.01282	$0.0123^{+0.0016}_{-0.00093}$
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	0.133	< 0.969	D_{220}	3585	4969^{+800}_{-2000}	$100\theta_{eq}$	0.8163	$0.852^{+0.020}_{-0.044}$
$\boldsymbol{N_{eff}}$	6.97	> 6.67	D_{810}	1509	2032^{+300}_{-800}	$100\theta_{s,eq}$	0.4511	$0.470^{+0.011}_{-0.023}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.693	$2.94^{+0.20}_{-0.32}$	D_{1420}	438	588^{+90}_{-200}	$r_{drag}/D_V(0.57)$	0.07177	0.07177 ± 0.00052
$\boldsymbol{n_s}$	0.9619	0.963 ± 0.020	D_{2000}	109.4	148^{+20}_{-70}	$H(0.57)$	115.8	116^{+10}_{-6}
H_0	84.4	85^{+10}_{-4}	$n_{s,0.002}$	0.9619	0.963 ± 0.020	$D_A(0.57)$	1113	1122^{+44}_{-140}
Ω_Λ	0.6931	0.6921 ± 0.0095	Y_P	0.2834	$0.282^{+0.014}_{-0.0022}$	$F_{AP}(0.57)$	0.67485	0.6751 ± 0.0024
Ω_m	0.3069	0.3079 ± 0.0095	Y_P^{BBN}	0.2849	$0.283^{+0.014}_{-0.0022}$	$f\sigma_8(0.57)$	0.4337	0.429 ± 0.017
$\Omega_m h^2$	0.2186	$0.222^{+0.051}_{-0.023}$	10^5D/H	3.94	$4.09^{+0.90}_{-0.55}$	$\sigma_8(0.57)$	0.5569	0.547 ± 0.024
$\Omega_\nu h^2$	0.0014	< 0.0104	Age/Gyr	11.09	$11.18^{+0.43}_{-1.4}$	χ^2_{6DF}	0.0072	0.069 ± 0.095
$\Omega_m h^3$	0.1845	$0.190^{+0.065}_{-0.032}$	z_*	1099.25	$1099.2^{+5.6}_{-2.8}$	χ^2_{MGS}	1.47	1.52 ± 0.69
σ_8	0.7469	0.732 ± 0.032	r_*	116.3	$117.2^{+4.5}_{-14}$	$\chi^2_{DR11CMASS}$	2.44	3.09 ± 0.93
$\sigma_8 \Omega_m^{0.5}$	0.4138	0.406 ± 0.016	$100\theta_*$	1.03885	$1.03900^{+0.00033}_{-0.0011}$	$\chi^2_{DR11LOWZ}$	0.453	0.67 ± 0.68
$\sigma_8 \Omega_m^{0.25}$	0.5559	0.545 ± 0.022	D_A/Gpc	11.20	$11.28^{+0.43}_{-1.4}$	$\chi^2_{CFHTLENS}$	96.06	98.1 ± 2.0
$\sigma_8/h^{0.5}$	0.8130	$0.799^{+0.038}_{-0.059}$	z_{drag}	1067.31	$1067.1^{+4.8}_{-2.7}$	χ^2_{prior}	0.01	2.03 ± 2.0
$\langle d^2 \rangle^{1/2}$	2.072	$2.27^{+0.16}_{-0.30}$	r_{drag}	118.6	$119.5^{+4.6}_{-15}$	χ^2_{BAO}	4.37	5.35 ± 1.4
z_{re}	10.99	$11.0^{+1.1}_{-0.53}$	k_D	0.1635	$0.163^{+0.014}_{-0.0063}$			
$10^9 A_s$	1.477	$1.96^{+0.28}_{-0.68}$	$100\theta_D$	0.17158	$0.1722^{+0.0062}_{-0.0028}$			

Best-fit $\chi^2_{eff} = 100.44$; $\bar{\chi}^2_{eff} = 105.46$; $R - 1 = 0.00615$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.44 DR11LOWZ: 0.45 WL - CFHTLENS_6bin_conservative: 96.06

14.26 base_nnu_mnu_WLonlyHeymans_H070p6_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02229	0.02229 ± 0.00090	z_{re}	9.40	$11.4^{+1.3}_{-0.89}$	z_{drag}	1060.47	$1068.4^{+5.6}_{-3.7}$
$\boldsymbol{\Omega_c h^2}$	0.126	$0.218^{+0.066}_{-0.045}$	$10^9 A_s$	1.788	$1.242^{+0.095}_{-0.61}$	r_{drag}	143.7	$117.5^{+7.1}_{-16}$
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	0.03	< 1.58	$10^9 A_s e^{-2\tau}$	1.555	$1.079^{+0.083}_{-0.53}$	k_D	0.1428	$0.168^{+0.017}_{-0.010}$
$\boldsymbol{N_{eff}}$	3.46	$6.73^{+2.1}_{-1.6}$	D_{40}	1030	670^{+55}_{-370}	$100\theta_D$	0.16225	$0.1702^{+0.0051}_{-0.0036}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.884	< 2.50	D_{220}	4728	2991^{+240}_{-1800}	z_{eq}	3345	3802^{+500}_{-200}
$\boldsymbol{n_s}$	0.9614	0.963 ± 0.020	D_{810}	2064	1308^{+100}_{-740}	k_{eq}	0.01049	$0.0143^{+0.0028}_{-0.0016}$
H_0	70.48	70.8 ± 3.2	D_{1420}	654	393^{+32}_{-230}	$100\theta_{eq}$	0.8236	$0.759^{+0.024}_{-0.068}$
Ω_Λ	0.702	0.49 ± 0.13	D_{2000}	180.6	$101.6^{+8.7}_{-65}$	$100\theta_{s,eq}$	0.4548	$0.421^{+0.013}_{-0.036}$
Ω_m	0.298	0.51 ± 0.13	$n_{s,0.002}$	0.9614	0.963 ± 0.020	$r_{drag}/D_V(0.57)$	0.07233	$0.0648^{+0.0021}_{-0.0047}$
$\Omega_m h^2$	0.148	$0.254^{+0.070}_{-0.056}$	Y_P	0.2509	$0.279^{+0.015}_{-0.0048}$	$H(0.57)$	96.0	$111^{+10}_{-7.1}$
$\Omega_\nu h^2$	0.0003	< 0.0170	Y_P^{BBN}	0.2522	$0.280^{+0.015}_{-0.0048}$	$D_A(0.57)$	1338	1243^{+50}_{-79}
$\Omega_m h^3$	0.1044	$0.180^{+0.050}_{-0.043}$	10^5D/H	2.75	3.87 ± 0.65	$F_{AP}(0.57)$	0.6726	$0.718^{+0.030}_{-0.021}$
σ_8	0.761	$0.576^{+0.050}_{-0.11}$	Age/Gyr	13.39	$11.56^{+0.58}_{-1.2}$	$f\sigma_8(0.57)$	0.4388	$0.356^{+0.030}_{-0.053}$
$\sigma_8 \Omega_m^{0.5}$	0.4157	0.400 ± 0.016	z_*	1090.9	$1100.8^{+6.6}_{-4.4}$	$\sigma_8(0.57)$	0.569	$0.408^{+0.041}_{-0.095}$
$\sigma_8 \Omega_m^{0.25}$	0.5626	$0.479^{+0.029}_{-0.050}$	r_*	141.1	$115.3^{+7.0}_{-16}$	χ^2_{H070p6}	0.001	0.97 ± 1.4
$\sigma_8/h^{0.5}$	0.907	$0.685^{+0.055}_{-0.13}$	$100\theta_*$	1.04070	$1.03934^{+0.00035}_{-0.00089}$	$\chi^2_{CFHTLENS}$	96.65	98.2 ± 2.1
$\langle d^2 \rangle^{1/2}$	2.253	$1.925^{+0.089}_{-0.33}$	D_A/Gpc	13.56	$11.09^{+0.67}_{-1.5}$	χ^2_{prior}	0.00	2.04 ± 2.0

Best-fit $\chi^2_{eff} = 96.66$; $\bar{\chi}^2_{eff} = 101.19$; $R - 1 = 0.00788$

χ^2_{eff}: Hubble - H070p6: 0.00 WL - CFHTLENS_6bin_conservative: 96.65

14.27 base_nnu_mnu_WLonlyHeymans_H070p6_BAO_theta

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02212	0.02220 ± 0.00091	$10^9 A_s e^{-2\tau}$	1.521	$1.93^{+0.26}_{-0.62}$	z_{eq}	3349	3199^{+200}_{-120}
$\boldsymbol{\Omega_c h^2}$	0.1322	$0.132^{+0.015}_{-0.017}$	D_{40}	1002	1271^{+200}_{-400}	k_{eq}	0.01073	0.01048 ± 0.00064
$\boldsymbol{\Sigma m_\nu}$ **[eV]**	0.121	< 0.683	D_{220}	4564	5964^{+900}_{-2000}	$100\theta_{eq}$	0.8227	$0.855^{+0.020}_{-0.043}$
$\boldsymbol{N_{eff}}$	3.80	$4.19^{+0.76}_{-0.86}$	D_{810}	1991	2517^{+400}_{-800}	$100\theta_{s,eq}$	0.4545	$0.471^{+0.011}_{-0.022}$
$\boldsymbol{\ln(10^{10} A_s)}$	2.862	$3.07^{+0.19}_{-0.30}$	D_{1420}	624	778^{+100}_{-300}	$r_{drag}/D_V(0.57)$	0.07177	0.07172 ± 0.00053
$\boldsymbol{n_s}$	0.9612	0.963 ± 0.020	D_{2000}	170	211^{+30}_{-70}	$H(0.57)$	97.52	98.7 ± 4.5
H_0	71.01	71.8 ± 3.2	$n_{s,0.002}$	0.9612	0.963 ± 0.020	$D_A(0.57)$	1322	1309^{+55}_{-65}
Ω_Λ	0.6914	0.6901 ± 0.0097	Y_P	0.2550	$0.2589^{+0.0097}_{-0.0084}$	$F_{AP}(0.57)$	0.67529	0.6756 ± 0.0025
Ω_m	0.3086	0.3099 ± 0.0097	Y_P^{BBN}	0.2563	$0.2603^{+0.0098}_{-0.0085}$	$f\sigma_8(0.57)$	0.4337	0.428 ± 0.018
$\Omega_m h^2$	0.1556	$0.160^{+0.015}_{-0.016}$	10^5D/H	2.904	$3.03^{+0.34}_{-0.41}$	$\sigma_8(0.57)$	0.5556	0.545 ± 0.025
$\Omega_\nu h^2$	0.00130	< 0.00735	Age/Gyr	13.17	$13.03^{+0.56}_{-0.65}$	χ^2_{H070p6}	0.02	1.10 ± 1.6
$\Omega_m h^3$	0.1105	$0.116^{+0.015}_{-0.018}$	z_*	1092.04	1092.4 ± 2.5	χ^2_{6DF}	0.0103	0.08 ± 0.11
σ_8	0.7455	0.729 ± 0.032	r_*	138.1	$136.7^{+6.0}_{-7.0}$	χ^2_{MGS}	1.41	1.44 ± 0.68
$\sigma_8 \Omega_m^{0.5}$	0.4141	0.406 ± 0.017	$100\theta_*$	1.040564	1.04048 ± 0.00045	$\chi^2_{DR11CMASS}$	2.39	3.10 ± 1.0
$\sigma_8 \Omega_m^{0.25}$	0.5556	0.544 ± 0.023	D_A/Gpc	13.28	$13.14^{+0.58}_{-0.67}$	$\chi^2_{DR11LOWZ}$	0.479	0.76 ± 0.75
$\sigma_8/h^{0.5}$	0.8846	0.861 ± 0.043	z_{drag}	1060.81	1061.3 ± 2.4	$\chi^2_{CFHTLENS}$	96.74	98.7 ± 2.1
$\langle d^2 \rangle^{1/2}$	2.222	$2.39^{+0.16}_{-0.29}$	r_{drag}	140.8	$139.3^{+6.1}_{-7.1}$	χ^2_{prior}	0.05	2.04 ± 2.0
z_{re}	9.633	9.73 ± 0.50	k_D	0.14472	0.1456 ± 0.0050	χ^2_{BAO}	4.29	5.37 ± 1.5
$10^9 A_s$	1.75	$2.22^{+0.30}_{-0.72}$	$100\theta_D$	0.16351	0.1646 ± 0.0029			

Best-fit $\chi^2_{eff} = 101.10$; $\bar{\chi}^2_{eff} = 107.23$; $R - 1 = 0.00319$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.40 DR11LOWZ: 0.48 Hubble - H070p6: 0.02 WL - CFHTLENS_6bin_conservative: 96.74

15 nnu+r

15.1 base_nnu_r_plikHM_TT_lowTEB_nnup39

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022591	0.02260 ± 0.00024	$\Omega_m h^3$	0.103769	0.10376 ± 0.00049	$100\theta_D$	0.161723	0.16174 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.12382	0.1236 ± 0.0023	σ_8	0.8507	0.849 ± 0.015	z_{eq}	3324.7	3319 ± 49
$\boldsymbol{100\theta_{MC}}$	1.040492	1.04054 ± 0.00048	$\sigma_8\Omega_m^{0.5}$	0.4623	0.460 ± 0.013	k_{eq}	0.010410	0.01039 ± 0.00015
$\boldsymbol{\tau}$	0.0904	0.089 ± 0.020	$\sigma_8\Omega_m^{0.25}$	0.6271	0.625 ± 0.013	$100\theta_{eq}$	0.8280	0.8292 ± 0.0097
$\boldsymbol{\ln(10^{10}A_s)}$	3.1252	3.122 ± 0.038	$\sigma_8/h^{0.5}$	1.0127	1.010 ± 0.020	$100\theta_{s,eq}$	0.4569	0.4575 ± 0.0050
$\boldsymbol{n_s}$	0.9838	0.9843 ± 0.0064	$\langle d^2\rangle^{1/2}$	2.4767	2.470 ± 0.047	$r_{drag}/D_V(0.57)$	0.07243	0.07253 ± 0.00078
$\boldsymbol{r}$	0.0003	< 0.0587	z_{re}	11.13	$10.9^{+1.9}_{-1.6}$	$H(0.57)$	95.927	95.98 ± 0.47
$\boldsymbol{y_{cal}}$	1.00035	1.0005 ± 0.0025	$10^9 A_s$	2.277	2.271 ± 0.087	$D_A(0.57)$	1337.4	1336 ± 13
$\boldsymbol{A_{217}^{CIB}}$	68.6	65.3 ± 6.6	$10^9 A_s e^{-2\tau}$	1.9001	1.899 ± 0.014	$F_{AP}(0.57)$	0.67188	0.6716 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1214.8	1231^{+17}_{-20}	$f\sigma_8(0.57)$	0.4901	0.4884 ± 0.0098
$\boldsymbol{A_{143}^{tSZ}}$	7.04	4.80 ± 2.0	D_{220}	5717.9	5719 ± 41	$\sigma_8(0.57)$	0.6370	0.636 ± 0.012
$\boldsymbol{A_{100}^{PS}}$	259.0	264 ± 28	D_{810}	2538.9	2539 ± 14	$r_{0.002}$	0.0002	< 0.0572
$\boldsymbol{A_{143}^{PS}}$	42.5	47 ± 8	D_{1420}	813.7	813.7 ± 5.1	$r_{0.01}$	0.0003	< 0.0580
$\boldsymbol{A_{143\times217}^{PS}}$	34.8	40^{+10}_{-10}	D_{2000}	228.92	228.9 ± 1.9	$\ln(10^{10}A_t)$	-5.14	$-0.38^{+1.4}_{-0.65}$
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	$n_{s,0.002}$	0.9838	0.9843 ± 0.0064	r_{10}	0.0001	< 0.0285
$\boldsymbol{A^{kSZ}}$	0.09	< 5.41	Y_P	0.250642	0.25064 ± 0.00010	$10^9 A_t$	0.001	< 0.134
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.48 ± 1.9	Y_P^{BBN}	0.251987	0.25199 ± 0.00010	$10^9 A_t e^{-2\tau}$	0.000	< 0.111
$\boldsymbol{A_{143}^{dustTT}}$	9.16	9.07 ± 1.8	10^5D/H	2.6830	2.683 ± 0.045	f_{2000}^{143}	31.50	31.9 ± 3.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.99	17.3 ± 4.2	Age/Gyr	13.4128	13.409 ± 0.039	$f_{2000}^{143\times217}$	33.92	34.0 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	z_*	1090.352	1090.33 ± 0.44	f_{2000}^{217}	107.34	107.5 ± 2.0
$\boldsymbol{c_{100}}$	0.99790	0.99788 ± 0.00077	r_*	141.421	141.48 ± 0.48	χ^2_{lowTEB}	10495.13	10497.5 ± 3.1
$\boldsymbol{c_{217}}$	0.99613	0.9961 ± 0.0015	$100\theta_*$	1.040406	1.04046 ± 0.00047	χ^2_{plik}	766.2	779.7 ± 5.9
H_0	70.56	70.7 ± 1.0	D_A/Gpc	13.5928	13.598 ± 0.044	χ^2_{prior}	2.12	7.48 ± 3.6
Ω_Λ	0.7047	0.706 ± 0.013	z_{drag}	1061.039	1061.02 ± 0.47	χ^2_{CMB}	11261.3	11277.2 ± 5.7
Ω_m	0.2953	0.294 ± 0.013	r_{drag}	143.971	144.03 ± 0.48			
$\Omega_m h^2$	0.14706	0.1468 ± 0.0022	k_D	0.14291	0.14285 ± 0.00053			

Best-fit $\chi^2_{eff} = 11263.45$; $\bar{\chi}^2_{eff} = 11284.71$; $R - 1 = 0.00534$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.13 plik_dx11dr2_HM_v18_TT: 766.20

15.2 base_nnu_r_plikHM_TTTEEE_lowTEB_nnup39

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022618	0.02260 ± 0.00016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.338 ± 0.080	D_A/Gpc	13.5690	13.572 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.12489	0.1248 ± 0.0015	$\boldsymbol{A^{dustTE}_{217}}$	1.659	1.67 ± 0.26	z_{drag}	1061.153	1061.12 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040251	1.04026 ± 0.00032	$\boldsymbol{c_{100}}$	0.99814	0.99812 ± 0.00078	r_{drag}	143.677	143.72 ± 0.31
$\boldsymbol{\tau}$	0.0935	0.089 ± 0.017	$\boldsymbol{c_{217}}$	0.99616	0.9961 ± 0.0014	k_D	0.143256	0.14320 ± 0.00034
$\boldsymbol{\ln(10^{10}A_s)}$	3.1344	3.126 ± 0.033	H_0	70.13	70.15 ± 0.68	$100\theta_D$	0.161618	0.16164 ± 0.00018
$\boldsymbol{n_s}$	0.9810	0.9812 ± 0.0050	Ω_Λ	0.6988	0.6991 ± 0.0087	z_{eq}	3349.7	3347 ± 33
$\boldsymbol{r}$	0.0001	< 0.0595	Ω_m	0.3012	0.3009 ± 0.0087	k_{eq}	0.010488	0.01048 ± 0.00010
$\boldsymbol{y_{cal}}$	1.00035	1.0005 ± 0.0025	$\Omega_m h^2$	0.14816	0.1480 ± 0.0014	$100\theta_{eq}$	0.8233	0.8237 ± 0.0064
$\boldsymbol{A^{CIB}_{217}}$	68.7	65.4 ± 6.6	$\Omega_m h^3$	0.103901	0.10385 ± 0.00032	$100\theta_{s,eq}$	0.45439	0.4546 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	σ_8	0.8570	0.853 ± 0.014	$r_{drag}/D_V(0.57)$	0.07205	0.07209 ± 0.00051
$\boldsymbol{A^{tSZ}_{143}}$	7.19	5.10 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4704	0.468 ± 0.010	$H(0.57)$	95.773	95.78 ± 0.30
$\boldsymbol{A^{PS}_{100}}$	261.1	266 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6349	0.632 ± 0.011	$D_A(0.57)$	1342.6	1342.4 ± 8.6
$\boldsymbol{A^{PS}_{143}}$	41.5	46 ± 8	$\sigma_8/h^{0.5}$	1.0234	1.019 ± 0.017	$F_{AP}(0.57)$	0.67341	0.6733 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	34.5	41^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.5047	2.493 ± 0.040	$f\sigma_8(0.57)$	0.4954	0.4930 ± 0.0082
$\boldsymbol{A^{PS}_{217}}$	97.5	97 ± 10	z_{re}	11.42	$11.0^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.6402	0.637 ± 0.011
$\boldsymbol{A^{kSZ}}$	0.00	< 4.92	$10^9 A_s$	2.298	2.279 ± 0.076	$r_{0.002}$	0.0001	< 0.0573
$\boldsymbol{A^{dustTT}_{100}}$	7.60	7.56 ± 1.9	$10^9 A_s e^{-2\tau}$	1.9055	1.905 ± 0.013	$r_{0.01}$	0.0001	< 0.0584
$\boldsymbol{A^{dustTT}_{143}}$	9.07	9.08 ± 1.8	D_{40}	1223.9	1239^{+16}_{-20}	$\ln(10^{10}A_t)$	−6.46	$-0.35^{+1.4}_{-0.60}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.67	17.2 ± 4.1	D_{220}	5726.4	5724 ± 39	r_{10}	0.0000	< 0.0287
$\boldsymbol{A^{dustTT}_{217}}$	81.7	81.5 ± 7.4	D_{810}	2540.1	2540 ± 14	$10^9 A_t$	0.000	< 0.135
$\boldsymbol{A^{dustEE}_{100}}$	0.0819	0.0814 ± 0.0057	D_{1420}	813.42	813.5 ± 4.9	$10^9 A_t e^{-2\tau}$	0.000	< 0.113
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04979	0.0490 ± 0.0050	D_{2000}	229.02	228.9 ± 1.6	f^{143}_{2000}	31.07	31.4 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0982	0.099 ± 0.033	$n_{s,0.002}$	0.9810	0.9812 ± 0.0050	$f^{143\times217}_{2000}$	33.65	33.8 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1013	0.1004 ± 0.0069	Y_P	0.250654	0.250648 ± 0.000070	f^{217}_{2000}	107.09	107.2 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2213	0.221 ± 0.046	Y_P^{BBN}	0.252000	0.251993 ± 0.000070	χ^2_{lowTEB}	10496.27	10498.1 ± 3.0
$\boldsymbol{A^{dustEE}_{217}}$	0.639	0.64 ± 0.13	10^5D/H	2.6778	2.681 ± 0.030	χ^2_{plik}	2436.9	2456.1 ± 6.9
$\boldsymbol{A^{dustTE}_{100}}$	0.1400	0.142 ± 0.038	Age/Gyr	13.4215	13.422 ± 0.026	χ^2_{prior}	7.46	19.7 ± 5.6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1317	0.132 ± 0.029	z_*	1090.407	1090.42 ± 0.30	χ^2_{CMB}	12933.2	12954.3 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.084	r_*	141.140	141.18 ± 0.31			
$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.156 ± 0.054	$100\theta_*$	1.040170	1.04017 ± 0.00032			

Best-fit $\chi^2_{eff} = 12940.62$; $\bar{\chi}^2_{eff} = 12973.98$; $R - 1 = 0.01087$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.26 plik_dx11dr2_HM_v18_TTTEEE: 2436.89

15.3 base_nnu_r_plikHM_TT_lowTEB_nnup57

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022748	0.02275 ± 0.00024	$\Omega_m h^3$	0.10744	0.10740 ± 0.00051	$100\theta_D$	0.162088	0.16210 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.12568	0.1254 ± 0.0024	σ_8	0.8603	0.857 ± 0.016	z_{eq}	3294.9	3288 ± 50
$\boldsymbol{100\theta_{MC}}$	1.040388	1.04041 ± 0.00048	$\sigma_8\Omega_m^{0.5}$	0.4609	0.458 ± 0.014	k_{eq}	0.010434	0.01041 ± 0.00016
$\boldsymbol{\tau}$	0.0965	0.094 ± 0.020	$\sigma_8\Omega_m^{0.25}$	0.6297	0.626 ± 0.014	$100\theta_{eq}$	0.8341	0.836 ± 0.010
$\boldsymbol{\ln(10^{10}A_s)}$	3.1416	3.135 ± 0.038	$\sigma_8/h^{0.5}$	1.0134	1.008 ± 0.020	$100\theta_{s,eq}$	0.4599	0.4607 ± 0.0051
$\boldsymbol{n_s}$	0.9910	0.9922 ± 0.0065	$\langle d^2\rangle^{1/2}$	2.4697	2.456 ± 0.047	$r_{drag}/D_V(0.57)$	0.07291	0.07303 ± 0.00080
$\boldsymbol{r}$	0.0001	< 0.0673	z_{re}	11.67	$11.3^{+1.8}_{-1.6}$	$H(0.57)$	97.34	97.40 ± 0.49
$\boldsymbol{y_{cal}}$	1.00028	1.0005 ± 0.0025	$10^9 A_s$	2.314	2.301 ± 0.088	$D_A(0.57)$	1313.7	1312 ± 13
$\boldsymbol{A_{217}^{CIB}}$	68.8	66.1 ± 6.7	$10^9 A_s e^{-2\tau}$	1.9080	1.907 ± 0.014	$F_{AP}(0.57)$	0.66970	0.6693 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1207.6	1224^{+18}_{-22}	$f\sigma_8(0.57)$	0.4931	0.490 ± 0.010
$\boldsymbol{A_{143}^{tSZ}}$	6.02	4.62 ± 2.0	D_{220}	5721.1	5720 ± 41	$\sigma_8(0.57)$	0.6465	0.644 ± 0.012
$\boldsymbol{A_{100}^{PS}}$	266.5	268 ± 28	D_{810}	2539.8	2540 ± 14	$r_{0.002}$	0.0001	< 0.0673
$\boldsymbol{A_{143}^{PS}}$	43.9	48 ± 8	D_{1420}	812.5	813.0 ± 5.1	$r_{0.01}$	0.0001	< 0.0673
$\boldsymbol{A_{143\times217}^{PS}}$	33.3	40^{+9}_{-10}	D_{2000}	228.00	228.1 ± 1.9	$\ln(10^{10}A_t)$	−5.74	$-0.23^{+1.4}_{-0.61}$
$\boldsymbol{A_{217}^{PS}}$	95.9	97 ± 10	$n_{s,0.002}$	0.9910	0.9922 ± 0.0065	r_{10}	0.0001	< 0.0335
$\boldsymbol{A^{kSZ}}$	1.91	< 5.86	Y_P	0.252986	0.25299 ± 0.00010	$10^9 A_t$	0.000	< 0.154
$\boldsymbol{A_{100}^{dustTT}}$	7.52	7.54 ± 1.9	Y_P^{BBN}	0.254340	0.25434 ± 0.00011	$10^9 A_t e^{-2\tau}$	0.000	< 0.128
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.09 ± 1.8	10^5D/H	2.7140	2.714 ± 0.045	f_{2000}^{143}	32.88	32.9 ± 3.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.30	17.3 ± 4.2	Age/Gyr	13.2371	13.234 ± 0.039	$f_{2000}^{143\times217}$	34.84	34.8 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.3	81.7 ± 7.4	z_*	1090.482	1090.45 ± 0.44	f_{2000}^{217}	108.18	108.2 ± 2.0
$\boldsymbol{c_{100}}$	0.99790	0.99789 ± 0.00078	r_*	140.026	140.10 ± 0.48	χ^2_{lowTEB}	10495.06	10497.2 ± 3.2
$\boldsymbol{c_{217}}$	0.99610	0.9962 ± 0.0015	$100\theta_*$	1.040176	1.04020 ± 0.00047	χ^2_{plik}	767.7	781.4 ± 6.0
H_0	72.07	72.2 ± 1.1	D_A/Gpc	13.4618	13.469 ± 0.045	χ^2_{prior}	2.25	7.53 ± 3.6
Ω_Λ	0.7130	0.714 ± 0.013	z_{drag}	1061.649	1061.64 ± 0.46	χ^2_{CMB}	11262.8	11278.6 ± 5.8
Ω_m	0.2870	0.286 ± 0.013	r_{drag}	142.510	142.59 ± 0.48			
$\Omega_m h^2$	0.14908	0.1488 ± 0.0022	k_D	0.14398	0.14389 ± 0.00053			

Best-fit $\chi^2_{eff} = 11265.06$; $\bar{\chi}^2_{eff} = 11286.10$; $R - 1 = 0.01002$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.06 plik_dx11dr2_HM_v18_TT: 767.74

15.4 base_nnu_r_plikHM_TTTEEE_lowTEB_nnup57

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022779	0.02276 ± 0.00016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.336 ± 0.081	D_A/Gpc	13.4301	13.432 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.12718	0.1272 ± 0.0016	$\boldsymbol{A^{dustTE}_{217}}$	1.665	1.66 ± 0.26	z_{drag}	1061.840	1061.78 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040045	1.04004 ± 0.00032	$\boldsymbol{c_{100}}$	0.99812	0.99810 ± 0.00077	r_{drag}	142.115	142.14 ± 0.30
$\boldsymbol{\tau}$	0.0983	0.094 ± 0.017	$\boldsymbol{c_{217}}$	0.99617	0.9962 ± 0.0014	k_D	0.144444	0.14440 ± 0.00034
$\boldsymbol{\ln(10^{10}A_s)}$	3.1487	3.141 ± 0.034	H_0	71.45	71.44 ± 0.70	$100\theta_D$	0.161946	0.16198 ± 0.00018
$\boldsymbol{n_s}$	0.98809	0.9884 ± 0.0049	Ω_Λ	0.7050	0.7048 ± 0.0086	z_{eq}	3328.9	3328 ± 33
$\boldsymbol{r}$	0.0001	< 0.0648	Ω_m	0.2950	0.2952 ± 0.0086	k_{eq}	0.010542	0.01054 ± 0.00010
$\boldsymbol{y_{cal}}$	1.00025	1.0006 ± 0.0025	$\Omega_m h^2$	0.15061	0.1506 ± 0.0015	$100\theta_{eq}$	0.8275	0.8276 ± 0.0065
$\boldsymbol{A^{CIB}_{217}}$	69.1	66.1 ± 6.6	$\Omega_m h^3$	0.107613	0.10757 ± 0.00033	$100\theta_{s,eq}$	0.45649	0.4565 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	σ_8	0.8671	0.864 ± 0.014	$r_{drag}/D_V(0.57)$	0.07238	0.07238 ± 0.00052
$\boldsymbol{A^{tSZ}_{143}}$	7.05	4.99 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4709	0.4694 ± 0.0099	$H(0.57)$	97.109	97.10 ± 0.32
$\boldsymbol{A^{PS}_{100}}$	263.6	268 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6390	0.637 ± 0.011	$D_A(0.57)$	1321.0	1321.3 ± 8.6
$\boldsymbol{A^{PS}_{143}}$	42.8	47 ± 8	$\sigma_8/h^{0.5}$	1.0258	1.022 ± 0.017	$F_{AP}(0.57)$	0.67179	0.6718 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	35.1	41^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4995	2.490 ± 0.040	$f\sigma_8(0.57)$	0.4994	0.4976 ± 0.0083
$\boldsymbol{A^{PS}_{217}}$	97.3	97 ± 10	z_{re}	11.86	$11.5^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.6494	0.647 ± 0.011
$\boldsymbol{A^{kSZ}}$	0.48	< 5.27	$10^9 A_s$	2.331	2.314 ± 0.078	$r_{0.002}$	0.0001	< 0.0641
$\boldsymbol{A^{dustTT}_{100}}$	7.56	7.58 ± 1.9	$10^9 A_s e^{-2\tau}$	1.9145	1.915 ± 0.012	$r_{0.01}$	0.0001	< 0.0645
$\boldsymbol{A^{dustTT}_{143}}$	9.15	9.14 ± 1.8	D_{40}	1215.9	1233^{+15}_{-20}	$\ln(10^{10}A_t)$	−5.85	$-0.26^{+1.4}_{-0.59}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.84	17.4 ± 4.2	D_{220}	5724.6	5723 ± 39	r_{10}	0.0001	< 0.0319
$\boldsymbol{A^{dustTT}_{217}}$	81.8	81.6 ± 7.4	D_{810}	2541.2	2543 ± 14	$10^9 A_t$	0.000	< 0.150
$\boldsymbol{A^{dustEE}_{100}}$	0.0826	0.0817 ± 0.0056	D_{1420}	812.47	813.0 ± 4.8	$10^9 A_t e^{-2\tau}$	0.000	< 0.124
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0502	0.0493 ± 0.0050	D_{2000}	228.23	228.3 ± 1.6	f^{143}_{2000}	32.02	32.2 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0977	0.099 ± 0.033	$n_{s,0.002}$	0.98809	0.9884 ± 0.0049	$f^{143\times217}_{2000}$	34.46	34.4 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1016	0.1009 ± 0.0070	Y_P	0.253000	0.252991 ± 0.000070	f^{217}_{2000}	107.76	107.8 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2187	0.219 ± 0.047	Y_P^{BBN}	0.254354	0.254344 ± 0.000070	χ^2_{lowTEB}	10495.97	10497.9 ± 3.1
$\boldsymbol{A^{dustEE}_{217}}$	0.643	0.64 ± 0.13	10^5D/H	2.7081	2.712 ± 0.030	χ^2_{plik}	2441.2	2460.4 ± 7.1
$\boldsymbol{A^{dustTE}_{100}}$	0.1408	0.142 ± 0.038	Age/Gyr	13.2503	13.252 ± 0.026	χ^2_{prior}	7.93	20 ± 6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1315	0.132 ± 0.029	z_*	1090.572	1090.60 ± 0.30	χ^2_{CMB}	12937.2	12958.3 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.302 ± 0.084	r_*	139.650	139.67 ± 0.31			
$\boldsymbol{A^{dustTE}_{143}}$	0.152	0.156 ± 0.054	$100\theta_*$	1.039830	1.03983 ± 0.00031			

Best-fit $\chi^2_{eff} = 12945.12$; $\bar{\chi}^2_{eff} = 12978.32$; $R - 1 = 0.01145$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.97 plik_dx11dr2_HM_v18_TTTEEE: 2441.22

15.5 base_nnu_r_plikHM_TT_lowTEB_nnup39_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022623	0.02262 ± 0.00023	$\Omega_m h^3$	0.103706	0.10364 ± 0.00047	$100\theta_D$	0.161740	0.16176 ± 0.00026
$\boldsymbol{\Omega_c h^2}$	0.12273	0.1225 ± 0.0021	σ_8	0.8364	0.8358 ± 0.0098	z_{eq}	3300.6	3294 ± 45
$\boldsymbol{100\theta_{MC}}$	1.040648	1.04065 ± 0.00046	$\sigma_8\Omega_m^{0.5}$	0.4499	0.4486 ± 0.0090	k_{eq}	0.010334	0.01031 ± 0.00014
$\boldsymbol{\tau}$	0.0791	0.079 ± 0.017	$\sigma_8\Omega_m^{0.25}$	0.6134	0.6123 ± 0.0079	$100\theta_{eq}$	0.8327	0.8340 ± 0.0090
$\boldsymbol{\ln(10^{10}A_s)}$	3.0993	3.099 ± 0.030	$\sigma_8/h^{0.5}$	0.9924	0.991 ± 0.011	$100\theta_{s,eq}$	0.45933	0.4600 ± 0.0046
$\boldsymbol{n_s}$	0.9850	0.9861 ± 0.0063	$\langle d^2\rangle^{1/2}$	2.4311	2.427 ± 0.027	$r_{drag}/D_V(0.57)$	0.07281	0.07290 ± 0.00073
$\boldsymbol{r}$	0.0003	< 0.0704	z_{re}	10.09	$10.1^{+1.6}_{-1.4}$	$H(0.57)$	96.115	96.15 ± 0.45
$\boldsymbol{y_{cal}}$	1.00003	1.0002 ± 0.0025	$10^9 A_s$	2.218	$2.220^{+0.064}_{-0.072}$	$D_A(0.57)$	1331.7	1331 ± 12
$\boldsymbol{A_{217}^{CIB}}$	67.7	65.8 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8937	1.893 ± 0.013	$F_{AP}(0.57)$	0.67031	0.6700 ± 0.0031
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	D_{40}	1205.9	1225^{+16}_{-22}	$f\sigma_8(0.57)$	0.4801	0.4793 ± 0.0056
$\boldsymbol{A_{143}^{tSZ}}$	6.16	4.75 ± 2.0	D_{220}	5719.8	5717 ± 41	$\sigma_8(0.57)$	0.6279	0.6278 ± 0.0088
$\boldsymbol{A_{100}^{PS}}$	264.2	265 ± 28	D_{810}	2535.9	2536 ± 14	$r_{0.002}$	0.0003	< 0.0694
$\boldsymbol{A_{143}^{PS}}$	42.4	47 ± 8	D_{1420}	813.1	813.4 ± 5.1	$r_{0.01}$	0.0003	< 0.0699
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	39^{+9}_{-10}	D_{2000}	228.42	228.5 ± 1.8	$\ln(10^{10}A_t)$	-4.89	$-0.20^{+1.3}_{-0.59}$
$\boldsymbol{A_{217}^{PS}}$	95.7	96 ± 10	$n_{s,0.002}$	0.9850	0.9861 ± 0.0063	r_{10}	0.0002	< 0.0348
$\boldsymbol{A^{kSZ}}$	2.05	< 5.82	Y_P	0.250656	0.25065 ± 0.00010	$10^9 A_t$	0.001	< 0.156
$\boldsymbol{A_{100}^{dustTT}}$	7.61	7.51 ± 1.9	Y_P^{BBN}	0.252001	0.25200 ± 0.00010	$10^9 A_t e^{-2\tau}$	0.001	< 0.133
$\boldsymbol{A_{143}^{dustTT}}$	9.32	9.12 ± 1.8	10^5D/H	2.6769	2.679 ± 0.044	f_{2000}^{143}	32.37	32.4 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.05	17.4 ± 4.1	Age/Gyr	13.4003	13.399 ± 0.038	$f_{2000}^{143\times217}$	34.31	34.4 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.9	81.8 ± 7.4	z_*	1090.216	1090.21 ± 0.42	f_{2000}^{217}	107.69	107.7 ± 2.0
$\boldsymbol{c_{100}}$	0.99791	0.99787 ± 0.00078	r_*	141.665	141.74 ± 0.44	$\chi^2_{lensing}$	9.40	9.99 ± 1.5
$\boldsymbol{c_{217}}$	0.99614	0.9961 ± 0.0015	$100\theta_*$	1.040562	1.04057 ± 0.00045	χ^2_{lowTEB}	10493.57	10496.0 ± 2.2
H_0	71.03	71.13 ± 0.97	D_A/Gpc	13.6142	13.621 ± 0.041	χ^2_{plik}	768.8	781.5 ± 5.5
Ω_Λ	0.7107	0.712 ± 0.012	z_{drag}	1061.001	1060.98 ± 0.46	χ^2_{prior}	2.40	7.60 ± 3.6
Ω_m	0.2893	0.288 ± 0.012	r_{drag}	144.213	144.29 ± 0.43	χ^2_{CMB}	11271.7	11287.4 ± 5.8
$\Omega_m h^2$	0.14599	0.1457 ± 0.0020	k_D	0.142672	0.14258 ± 0.00048			

Best-fit $\chi^2_{eff} = 11274.14$; $\bar{\chi}^2_{eff} = 11295.00$; $R - 1 = 0.00927$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.40 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.57 plik_dx11dr2_HM_v18_TT: 768.76

15.6 base_nnu_r_plikHM_TTTEEE_lowTEB_nnup39_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022626	0.02261 ± 0.00016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.335 ± 0.081	D_A/Gpc	13.5838	13.585 ± 0.028
$\boldsymbol{\Omega_c h^2}$	0.12418	0.1242 ± 0.0015	$\boldsymbol{A^{dustTE}_{217}}$	1.662	1.66 ± 0.25	z_{drag}	1061.115	1061.09 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040341	1.04035 ± 0.00031	$\boldsymbol{c_{100}}$	0.99811	0.99807 ± 0.00078	r_{drag}	143.845	143.86 ± 0.29
$\boldsymbol{\tau}$	0.0735	0.071 ± 0.014	$\boldsymbol{c_{217}}$	0.99643	0.9962 ± 0.0014	k_D	0.143079	0.14304 ± 0.00032
$\boldsymbol{\ln(10^{10}A_s)}$	3.0904	3.086 ± 0.025	H_0	70.42	70.41 ± 0.67	$100\theta_D$	0.161642	0.16167 ± 0.00018
$\boldsymbol{n_s}$	0.98202	0.9821 ± 0.0049	Ω_Λ	0.7026	0.7025 ± 0.0084	z_{eq}	3333.8	3333 ± 32
$\boldsymbol{r}$	0.0067	< 0.0724	Ω_m	0.2974	0.2975 ± 0.0084	k_{eq}	0.010438	0.010436 ± 0.000099
$\boldsymbol{y_{cal}}$	0.99945	1.0002 ± 0.0024	$\Omega_m h^2$	0.14746	0.1474 ± 0.0014	$100\theta_{eq}$	0.8263	0.8264 ± 0.0062
$\boldsymbol{A^{CIB}_{217}}$	69.4	66.4 ± 6.6	$\Omega_m h^3$	0.103832	0.10380 ± 0.00031	$100\theta_{s,eq}$	0.45597	0.4560 ± 0.0032
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	σ_8	0.8364	0.8348 ± 0.0089	$r_{drag}/D_V(0.57)$	0.072289	0.07229 ± 0.00050
$\boldsymbol{A^{tSZ}_{143}}$	7.10	4.96 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4561	0.4553 ± 0.0069	$H(0.57)$	95.878	95.87 ± 0.30
$\boldsymbol{A^{PS}_{100}}$	262.4	268 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6176	0.6165 ± 0.0068	$D_A(0.57)$	1339.2	1339.4 ± 8.4
$\boldsymbol{A^{PS}_{143}}$	42.2	46 ± 8	$\sigma_8/h^{0.5}$	0.9967	0.995 ± 0.010	$F_{AP}(0.57)$	0.67241	0.6724 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	34.1	39^{+9}_{-10}	$\langle d^2\rangle^{1/2}$	2.4410	2.436 ± 0.024	$f\sigma_8(0.57)$	0.4824	0.4814 ± 0.0050
$\boldsymbol{A^{PS}_{217}}$	95.7	95 ± 10	z_{re}	9.61	$9.33^{+1.4}_{-1.2}$	$\sigma_8(0.57)$	0.6258	0.6245 ± 0.0076
$\boldsymbol{A^{kSZ}}$	0.52	< 5.61	$10^9 A_s$	2.199	2.191 ± 0.055	$r_{0.002}$	0.0064	< 0.0704
$\boldsymbol{A^{dustTT}_{100}}$	7.61	7.61 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8980	1.900 ± 0.012	$r_{0.01}$	0.0066	< 0.0713
$\boldsymbol{A^{dustTT}_{143}}$	9.25	9.21 ± 1.8	D_{40}	1211.7	1231^{+15}_{-20}	$\ln(10^{10}A_t)$	-1.91	$-0.18^{+1.3}_{-0.56}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	18.63	17.5 ± 4.1	D_{220}	5714.4	5720 ± 39	r_{10}	0.0032	< 0.0356
$\boldsymbol{A^{dustTT}_{217}}$	82.9	81.6 ± 7.4	D_{810}	2535.0	2538 ± 13	$10^9 A_t$	0.015	< 0.158
$\boldsymbol{A^{dustEE}_{100}}$	0.0823	0.0816 ± 0.0057	D_{1420}	812.36	813.3 ± 4.7	$10^9 A_t e^{-2\tau}$	0.013	< 0.138
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0500	0.0492 ± 0.0050	D_{2000}	228.22	228.4 ± 1.6	f^{143}_{2000}	31.85	32.2 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0970	0.099 ± 0.033	$n_{s,0.002}$	0.98202	0.9821 ± 0.0049	$f^{143\times217}_{2000}$	34.26	34.4 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1013	0.1005 ± 0.0068	Y_P	0.250658	0.250651 ± 0.000070	f^{217}_{2000}	107.48	107.6 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2201	0.221 ± 0.047	Y_P^{BBN}	0.252003	0.251996 ± 0.000070	$\chi^2_{lensing}$	10.46	10.7 ± 1.9
$\boldsymbol{A^{dustEE}_{217}}$	0.636	0.65 ± 0.13	10^5D/H	2.6763	2.680 ± 0.030	χ^2_{lowTEB}	10493.83	10495.9 ± 1.9
$\boldsymbol{A^{dustTE}_{100}}$	0.1416	0.143 ± 0.038	Age/Gyr	13.4151	13.417 ± 0.025	χ^2_{plik}	2441.3	2459.9 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1322	0.133 ± 0.029	z_*	1090.338	1090.36 ± 0.30	χ^2_{prior}	8.09	20 ± 6
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.299	0.301 ± 0.084	r_*	141.306	141.32 ± 0.30	χ^2_{CMB}	12945.6	12966.6 ± 6.9
$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.156 ± 0.054	$100\theta_*$	1.040259	1.04026 ± 0.00031			

Best-fit $\chi^2_{eff} = 12953.69$; $\bar{\chi}^2_{eff} = 12986.64$; $R - 1 = 0.01320$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 10.46 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.83 plik_dx11dr2_HM_v18_TTTEEE: 2441.31

15.7 base_nnu_r_plikHM_TT_lowTEB_nnup57_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022795	0.02278 ± 0.00024	$\Omega_m h^3$	0.10737	0.10731 ± 0.00051	$100\theta_D$	0.162085	0.16210 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.12442	0.1243 ± 0.0021	σ_8	0.8465	0.845 ± 0.010	z_{eq}	3267.9	3266 ± 45
$\boldsymbol{100\theta_{MC}}$	1.040528	1.04050 ± 0.00045	$\sigma_8\Omega_m^{0.5}$	0.4483	0.4473 ± 0.0088	k_{eq}	0.010349	0.01034 ± 0.00014
$\boldsymbol{\tau}$	0.0879	0.084 ± 0.017	$\sigma_8\Omega_m^{0.25}$	0.6160	0.6147 ± 0.0078	$100\theta_{eq}$	0.8395	0.8400 ± 0.0091
$\boldsymbol{\ln(10^{10}A_s)}$	3.1179	3.115 ± 0.031	$\sigma_8/h^{0.5}$	0.9934	0.991 ± 0.011	$100\theta_{s,eq}$	0.46271	0.4630 ± 0.0046
$\boldsymbol{n_s}$	0.9933	0.9941 ± 0.0063	$\langle d^2\rangle^{1/2}$	2.4235	2.417 ± 0.026	$r_{drag}/D_V(0.57)$	0.07333	0.07336 ± 0.00074
$\boldsymbol{r}$	0.0040	< 0.0808	z_{re}	10.89	$10.5^{+1.6}_{-1.4}$	$H(0.57)$	97.565	97.57 ± 0.47
$\boldsymbol{y_{cal}}$	0.99852	1.0005 ± 0.0025	$10^9 A_s$	2.260	2.253 ± 0.069	$D_A(0.57)$	1307.3	1307 ± 12
$\boldsymbol{A_{217}^{CIB}}$	69.1	66.5 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8955	1.902 ± 0.014	$F_{AP}(0.57)$	0.66795	0.6679 ± 0.0030
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.003	< 0.610	D_{40}	1195.4	1219^{+16}_{-23}	$f\sigma_8(0.57)$	0.4831	0.4821 ± 0.0056
$\boldsymbol{A_{143}^{tSZ}}$	6.11	4.56 ± 2.0	D_{220}	5704.4	5722 ± 41	$\sigma_8(0.57)$	0.6379	0.6368 ± 0.0091
$\boldsymbol{A_{100}^{PS}}$	265.1	269 ± 28	D_{810}	2529.7	2539 ± 14	$r_{0.002}$	0.0040	< 0.0819
$\boldsymbol{A_{143}^{PS}}$	44.4	48 ± 8	D_{1420}	810.0	813.4 ± 5.1	$r_{0.01}$	0.0040	< 0.0814
$\boldsymbol{A_{143\times217}^{PS}}$	33.7	40^{+9}_{-10}	D_{2000}	227.05	228.0 ± 1.8	$\ln(10^{10}A_t)$	-2.39	$-0.07^{+1.4}_{-0.57}$
$\boldsymbol{A_{217}^{PS}}$	95.4	96 ± 10	$n_{s,0.002}$	0.9933	0.9941 ± 0.0063	r_{10}	0.0020	< 0.0409
$\boldsymbol{A^{kSZ}}$	1.91	$4.65^{+2.2}_{-3.9}$	Y_P	0.253007	0.25300 ± 0.00011	$10^9 A_t$	0.009	< 0.182
$\boldsymbol{A_{100}^{dustTT}}$	7.60	7.56 ± 1.9	Y_P^{BBN}	0.254361	0.25436 ± 0.00011	$10^9 A_t e^{-2\tau}$	0.008	< 0.154
$\boldsymbol{A_{143}^{dustTT}}$	9.32	9.13 ± 1.8	10^5D/H	2.7050	2.708 ± 0.046	f_{2000}^{143}	33.25	33.3 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.69	17.4 ± 4.2	Age/Gyr	13.2228	13.224 ± 0.038	$f_{2000}^{143\times217}$	35.12	35.1 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.3	81.7 ± 7.4	z_*	1090.315	1090.33 ± 0.43	f_{2000}^{217}	108.16	108.4 ± 2.0
$\boldsymbol{c_{100}}$	0.99787	0.99788 ± 0.00078	r_*	140.293	140.32 ± 0.43	$\chi^2_{lensing}$	9.48	10.0 ± 1.4
$\boldsymbol{c_{217}}$	0.99621	0.9962 ± 0.0014	$100\theta_*$	1.040315	1.04029 ± 0.00044	χ^2_{lowTEB}	10493.64	10495.7 ± 2.3
H_0	72.62	72.64 ± 0.99	D_A/Gpc	13.4856	13.489 ± 0.040	χ^2_{plik}	770.2	783.1 ± 5.6
Ω_Λ	0.7196	0.720 ± 0.011	z_{drag}	1061.687	1061.64 ± 0.47	χ^2_{prior}	2.78	7.61 ± 3.7
Ω_m	0.2804	0.280 ± 0.011	r_{drag}	142.766	142.80 ± 0.43	χ^2_{CMB}	11273.3	11288.8 ± 5.8
$\Omega_m h^2$	0.14786	0.1478 ± 0.0020	k_D	0.143726	0.14368 ± 0.00049			

Best-fit $\chi^2_{eff} = 11276.12$; $\bar{\chi}^2_{eff} = 11296.42$; $R - 1 = 0.00818$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.48 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.64 plik_dx11dr2_HM_v18_TT: 770.22

15.8 base_nnu_r_plikHM_TTTEEE_lowTEB_nnup57_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022758	0.02277 ± 0.00016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.336 ± 0.080	D_A/Gpc	13.4401	13.446 ± 0.028
$\boldsymbol{\Omega_c h^2}$	0.12677	0.1265 ± 0.0015	$\boldsymbol{A^{dustTE}_{217}}$	1.659	1.66 ± 0.25	z_{drag}	1061.764	1061.77 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040107	1.04013 ± 0.00031	$\boldsymbol{c_{100}}$	0.99806	0.99805 ± 0.00078	r_{drag}	142.236	142.30 ± 0.29
$\boldsymbol{\tau}$	0.0731	0.075 ± 0.014	$\boldsymbol{c_{217}}$	0.99625	0.9963 ± 0.0014	k_D	0.144292	0.14424 ± 0.00032
$\boldsymbol{\ln(10^{10}A_s)}$	3.0960	3.099 ± 0.026	H_0	71.60	71.74 ± 0.69	$100\theta_D$	0.161996	0.16199 ± 0.00018
$\boldsymbol{n_s}$	0.98807	0.9893 ± 0.0049	Ω_Λ	0.7071	0.7086 ± 0.0083	z_{eq}	3319.2	3313 ± 32
$\boldsymbol{r}$	0.0229	< 0.0787	Ω_m	0.2929	0.2914 ± 0.0083	k_{eq}	0.010511	0.01049 ± 0.00010
$\boldsymbol{y_{cal}}$	0.99979	1.0002 ± 0.0025	$\Omega_m h^2$	0.15017	0.1499 ± 0.0014	$100\theta_{eq}$	0.8293	0.8307 ± 0.0063
$\boldsymbol{A^{CIB}_{217}}$	69.8	67.3 ± 6.6	$\Omega_m h^3$	0.107525	0.10751 ± 0.00033	$100\theta_{s,eq}$	0.45744	0.4581 ± 0.0032
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.007	< 0.593	σ_8	0.8433	0.8441 ± 0.0092	$r_{drag}/D_V(0.57)$	0.07252	0.07262 ± 0.00051
$\boldsymbol{A^{tSZ}_{143}}$	6.44	4.81 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4564	0.4556 ± 0.0069	$H(0.57)$	97.155	97.21 ± 0.32
$\boldsymbol{A^{PS}_{100}}$	267.6	271 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6204	0.6201 ± 0.0069	$D_A(0.57)$	1319.3	1317.7 ± 8.4
$\boldsymbol{A^{PS}_{143}}$	43.5	48 ± 8	$\sigma_8/h^{0.5}$	0.9966	0.997 ± 0.010	$F_{AP}(0.57)$	0.67125	0.6708 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	33.5	39^{+9}_{-10}	$\langle d^2\rangle^{1/2}$	2.4305	2.429 ± 0.024	$f\sigma_8(0.57)$	0.4851	0.4850 ± 0.0051
$\boldsymbol{A^{PS}_{217}}$	94.5	95 ± 10	z_{re}	9.61	$9.73^{+1.4}_{-1.2}$	$\sigma_8(0.57)$	0.6321	0.6331 ± 0.0078
$\boldsymbol{A^{kSZ}}$	2.01	$4.65^{+2.3}_{-3.8}$	$10^9 A_s$	2.211	2.219 ± 0.057	$r_{0.002}$	0.0223	< 0.0783
$\boldsymbol{A^{dustTT}_{100}}$	7.71	7.69 ± 1.9	$10^9 A_s e^{-2\tau}$	1.9100	1.910 ± 0.012	$r_{0.01}$	0.0226	< 0.0785
$\boldsymbol{A^{dustTT}_{143}}$	9.35	9.29 ± 1.8	D_{40}	1210.6	1224^{+15}_{-22}	$\ln(10^{10}A_t)$	-0.68	$-0.06^{+1.3}_{-0.55}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.89	17.6 ± 4.2	D_{220}	5717.8	5720 ± 38	r_{10}	0.0112	< 0.0396
$\boldsymbol{A^{dustTT}_{217}}$	81.5	81.6 ± 7.4	D_{810}	2538.7	2540 ± 13	$10^9 A_t$	0.051	< 0.174
$\boldsymbol{A^{dustEE}_{100}}$	0.0823	0.0819 ± 0.0057	D_{1420}	811.88	812.7 ± 4.7	$10^9 A_t e^{-2\tau}$	0.044	< 0.150
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0500	0.0496 ± 0.0050	D_{2000}	227.41	227.7 ± 1.6	f^{143}_{2000}	33.23	33.2 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1006	0.099 ± 0.032	$n_{s,0.002}$	0.98807	0.9893 ± 0.0049	$f^{143\times217}_{2000}$	35.27	35.1 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1013	0.1009 ± 0.0069	Y_P	0.252991	0.252998 ± 0.000071	f^{217}_{2000}	108.40	108.3 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2197	0.219 ± 0.046	Y_P^{BBN}	0.254345	0.254352 ± 0.000072	$\chi^2_{lensing}$	10.43	11.0 ± 1.9
$\boldsymbol{A^{dustEE}_{217}}$	0.637	0.64 ± 0.13	10^5D/H	2.7120	2.709 ± 0.031	χ^2_{lowTEB}	10493.60	10495.4 ± 2.0
$\boldsymbol{A^{dustTE}_{100}}$	0.1425	0.142 ± 0.038	Age/Gyr	13.2487	13.245 ± 0.026	χ^2_{plik}	2446.4	2464.5 ± 7.0
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1315	0.133 ± 0.029	z_*	1090.561	1090.52 ± 0.30	χ^2_{prior}	8.28	20 ± 6
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.300	0.302 ± 0.084	r_*	139.763	139.82 ± 0.30	χ^2_{CMB}	12950.5	12970.9 ± 7.0
$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.156 ± 0.054	$100\theta_*$	1.039894	1.03992 ± 0.00031			

Best-fit $\chi^2_{eff} = 12958.73$; $\bar{\chi}^2_{eff} = 12991.26$; $R - 1 = 0.01465$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 10.43 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.60 plik_dx11dr2_HM_v18_TTTEEE: 2446.42

16 nnu+yhe

16.1 base_nnu_yhe_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022261	0.02231 ± 0.00037	Ω_Λ	0.6831	$0.688^{+0.024}_{-0.021}$	D_A/Gpc	13.993	13.88 ± 0.42
$\boldsymbol{\Omega_c h^2}$	0.1178	$0.1200^{+0.0068}_{-0.0084}$	Ω_m	0.3169	$0.312^{+0.021}_{-0.024}$	z_{drag}	1059.82	1060.0 ± 1.3
$\boldsymbol{100\theta_{MC}}$	1.04150	1.0411 ± 0.0019	$\Omega_m h^2$	0.1407	$0.1429^{+0.0069}_{-0.0084}$	r_{drag}	148.46	147.2 ± 4.7
$\boldsymbol{\tau}$	0.0787	0.081 ± 0.022	$\Omega_m h^3$	0.0938	$0.0971^{+0.0088}_{-0.011}$	k_D	0.13937	$0.1406^{+0.0040}_{-0.0046}$
$\boldsymbol{N_{eff}}$	2.91	$3.09^{+0.50}_{-0.60}$	σ_8	0.8275	0.833 ± 0.024	$100\theta_D$	0.16108	0.16120 ± 0.00079
$\boldsymbol{Y_P}$	0.2560	$0.250^{+0.034}_{-0.029}$	$\sigma_8\Omega_m^{0.5}$	0.4658	0.465 ± 0.013	z_{eq}	3409	3387 ± 89
$\boldsymbol{\ln(10^{10} A_s)}$	3.0893	3.097 ± 0.047	$\sigma_8\Omega_m^{0.25}$	0.6209	0.622 ± 0.014	k_{eq}	0.010310	$0.01035^{+0.00021}_{-0.00024}$
$\boldsymbol{n_s}$	0.9656	0.969 ± 0.016	$\sigma_8/h^{0.5}$	1.0137	1.013 ± 0.020	$100\theta_{eq}$	0.8121	0.816 ± 0.016
$\boldsymbol{y_{cal}}$	1.00027	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.5009	2.497 ± 0.049	$100\theta_{s,eq}$	0.4488	0.4510 ± 0.0083
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.3 ± 6.8	z_{re}	10.06	$10.2^{+2.1}_{-1.9}$	$r_{drag}/D_V(0.57)$	0.07131	0.0716 ± 0.0012
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.196	$2.215^{+0.099}_{-0.11}$	$H(0.57)$	92.09	$93.2^{+3.5}_{-3.9}$
$\boldsymbol{A_{143}^{tSZ}}$	7.09	5.01 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8762	$1.882^{+0.028}_{-0.025}$	$D_A(0.57)$	1405	1387 ± 63
$\boldsymbol{A_{100}^{PS}}$	255.1	260 ± 29	D_{40}	1234.3	1233 ± 23	$F_{AP}(0.57)$	0.6774	0.6762 ± 0.0056
$\boldsymbol{A_{143}^{PS}}$	39.9	45 ± 9	D_{220}	5715.5	5718 ± 42	$f\sigma_8(0.57)$	0.4825	0.484 ± 0.011
$\boldsymbol{A_{143\times217}^{PS}}$	33.1	39^{+10}_{-10}	D_{810}	2534.1	2535 ± 14	$\sigma_8(0.57)$	0.6143	0.620 ± 0.022
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	D_{1420}	814.3	814.0 ± 5.3	f_{2000}^{143}	30.19	31 ± 4
$\boldsymbol{A^{kSZ}}$	0.02	< 4.93	D_{2000}	230.10	229.9 ± 2.4	$f_{2000}^{143\times217}$	32.74	33.0 ± 2.8
$\boldsymbol{A_{100}^{dustTT}}$	7.41	7.44 ± 1.9	$n_{s,0.002}$	0.9656	0.969 ± 0.016	f_{2000}^{217}	106.41	106.5 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	9.06	9.01 ± 1.8	Y_P	0.2560	$0.250^{+0.034}_{-0.029}$	χ^2_{lowTEB}	10496.38	10497.4 ± 2.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.68	17.1 ± 4.2	Y_P^{BBN}	0.2574	$0.252^{+0.034}_{-0.029}$	χ^2_{plik}	763.4	779.1 ± 6.2
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.7 ± 7.4	Age/Gyr	13.93	13.79 ± 0.50	χ^2_{prior}	2.05	7.40 ± 3.6
$\boldsymbol{c_{100}}$	0.99791	0.99788 ± 0.00078	z_*	1090.24	1090.23 ± 0.70	χ^2_{CMB}	11259.8	11276.5 ± 5.9
$\boldsymbol{c_{217}}$	0.99601	0.9960 ± 0.0015	r_*	145.73	144.5 ± 4.6			
H_0	66.64	67.8 ± 3.6	$100\theta_*$	1.04144	1.0411 ± 0.0014			

Best-fit $\chi^2_{eff} = 11261.85$; $\bar{\chi}^2_{eff} = 11283.88$; $R - 1 = 0.00751$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.38 plik_dx11dr2_HM_v18_TT: 763.42

16.2 base_nnu_yhe_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022344	0.02234 ± 0.00026	Ω_m	0.3091	0.3086 ± 0.0090	r_{drag}	147.40	146.8 ± 3.9
$\boldsymbol{\Omega_c h^2}$	0.1189	$0.1203^{+0.0066}_{-0.0077}$	$\Omega_m h^2$	0.1419	$0.1433^{+0.0066}_{-0.0077}$	k_D	0.14024	$0.1409^{+0.0036}_{-0.0040}$
$\boldsymbol{100\theta_{MC}}$	1.04118	1.0410 ± 0.0018	$\Omega_m h^3$	0.0962	$0.0978^{+0.0071}_{-0.0086}$	$100\theta_D$	0.16116	0.16123 ± 0.00074
$\boldsymbol{\tau}$	0.0827	0.082 ± 0.018	σ_8	0.8322	$0.834^{+0.019}_{-0.022}$	z_{eq}	3377.3	3374 ± 44
$\boldsymbol{N_{eff}}$	3.043	$3.13^{+0.41}_{-0.48}$	$\sigma_8\Omega_m^{0.5}$	0.4627	0.463 ± 0.011	k_{eq}	0.010306	$0.01035^{+0.00021}_{-0.00024}$
$\boldsymbol{Y_P}$	0.2525	$0.249^{+0.033}_{-0.029}$	$\sigma_8\Omega_m^{0.25}$	0.6205	0.622 ± 0.014	$100\theta_{eq}$	0.8179	0.8186 ± 0.0074
$\boldsymbol{\ln(10^{10}A_s)}$	3.0991	3.100 ± 0.038	$\sigma_8/h^{0.5}$	1.0110	1.011 ± 0.019	$100\theta_{s,eq}$	0.45181	0.4521 ± 0.0038
$\boldsymbol{n_s}$	0.9705	0.9709 ± 0.0090	$\langle d^2\rangle^{1/2}$	2.4907	2.491 ± 0.043	$r_{drag}/D_V(0.57)$	0.071712	0.07174 ± 0.00047
$\boldsymbol{y_{cal}}$	1.00028	1.0004 ± 0.0025	z_{re}	10.40	$10.3^{+1.8}_{-1.6}$	$H(0.57)$	93.09	93.6 ± 2.6
$\boldsymbol{A_{217}^{CIB}}$	67.3	64.3 ± 6.8	$10^9 A_s$	2.218	2.222 ± 0.084	$D_A(0.57)$	1385.4	1379 ± 41
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$10^9 A_s e^{-2\tau}$	1.8798	1.884 ± 0.024	$F_{AP}(0.57)$	0.67541	0.6753 ± 0.0023
$\boldsymbol{A_{143}^{tSZ}}$	7.12	5.02 ± 2.0	D_{40}	1228.4	1230 ± 17	$f\sigma_8(0.57)$	0.4832	0.484 ± 0.011
$\boldsymbol{A_{100}^{PS}}$	254.4	260 ± 29	D_{220}	5716.4	5719 ± 41	$\sigma_8(0.57)$	0.6197	$0.622^{+0.015}_{-0.017}$
$\boldsymbol{A_{143}^{PS}}$	39.6	45 ± 9	D_{810}	2534.6	2535 ± 14	f_{2000}^{143}	29.99	31 ± 4
$\boldsymbol{A_{143\times217}^{PS}}$	33.1	39^{+10}_{-10}	D_{1420}	814.5	814.1 ± 5.3	$f_{2000}^{143\times217}$	32.64	33.0 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	D_{2000}	230.08	229.8 ± 2.4	f_{2000}^{217}	106.30	106.6 ± 2.7
$\boldsymbol{A^{kSZ}}$	0.00	< 4.99	$n_{s,0.002}$	0.9705	0.9709 ± 0.0090	χ^2_{lowTEB}	10495.99	10496.9 ± 2.5
$\boldsymbol{A_{100}^{dustTT}}$	7.52	7.43 ± 1.9	Y_P	0.2525	$0.249^{+0.033}_{-0.029}$	χ^2_{plik}	763.9	778.9 ± 6.0
$\boldsymbol{A_{143}^{dustTT}}$	9.03	9.02 ± 1.8	Y_P^{BBN}	0.2538	$0.251^{+0.033}_{-0.029}$	χ^2_{6DF}	0.0154	0.063 ± 0.087
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.69	17.2 ± 4.2	Age/Gyr	13.791	13.73 ± 0.37	χ^2_{MGS}	1.34	1.47 ± 0.63
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.5	z_*	1090.14	1090.19 ± 0.67	$\chi^2_{DR11CMASS}$	2.424	2.97 ± 0.79
$\boldsymbol{c_{100}}$	0.99792	0.99788 ± 0.00077	r_*	144.72	144.1 ± 3.8	$\chi^2_{DR11LOWZ}$	0.543	0.68 ± 0.63
$\boldsymbol{c_{217}}$	0.99597	0.9960 ± 0.0015	$100\theta_*$	1.04119	1.0411 ± 0.0013	χ^2_{prior}	2.05	7.41 ± 3.6
H_0	67.76	68.1 ± 2.2	D_A/Gpc	13.900	13.84 ± 0.35	χ^2_{CMB}	11259.9	11275.8 ± 5.7
Ω_Λ	0.6909	0.6914 ± 0.0090	z_{drag}	1060.05	1060.1 ± 1.1	χ^2_{BAO}	4.33	5.18 ± 1.2

Best-fit $\chi^2_{eff} = 11266.29$; $\bar{\chi}^2_{eff} = 11288.34$; $R - 1 = 0.00475$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.42 DR11LOWZ: 0.54 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.99 plik_dx11dr2_HM_v18_TT: 763.93

16.3 base_nnu_yhe_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022403	0.02241 ± 0.00033	Ω_Λ	0.6955	$0.696^{+0.017}_{-0.016}$	D_A/Gpc	13.746	13.72 ± 0.31
$\boldsymbol{\Omega_c h^2}$	0.1216	$0.1223^{+0.0060}_{-0.0069}$	Ω_m	0.3045	0.304 ± 0.016	z_{drag}	1060.12	1060.2 ± 1.3
$\boldsymbol{100\theta_{MC}}$	1.04060	1.0406 ± 0.0017	$\Omega_m h^2$	0.1447	$0.1454^{+0.0059}_{-0.0069}$	r_{drag}	145.70	145.4 ± 3.4
$\boldsymbol{\tau}$	0.0858	0.085 ± 0.021	$\Omega_m h^3$	0.0997	$0.1008^{+0.0069}_{-0.0079}$	k_D	0.14182	0.1421 ± 0.0033
$\boldsymbol{N_{eff}}$	3.238	3.29 ± 0.40	σ_8	0.8401	0.841 ± 0.021	$100\theta_D$	0.16115	0.16128 ± 0.00078
$\boldsymbol{Y_P}$	0.2436	0.244 ± 0.029	$\sigma_8\Omega_m^{0.5}$	0.4636	0.463 ± 0.013	z_{eq}	3355	3351 ± 63
$\boldsymbol{\ln(10^{10}A_s)}$	3.1097	3.109 ± 0.043	$\sigma_8\Omega_m^{0.25}$	0.6241	0.624 ± 0.014	k_{eq}	0.010372	0.01039 ± 0.00021
$\boldsymbol{n_s}$	0.9735	0.975 ± 0.013	$\sigma_8/h^{0.5}$	1.0119	1.011 ± 0.020	$100\theta_{eq}$	0.8217	0.823 ± 0.012
$\boldsymbol{y_{cal}}$	1.00037	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4917	2.488 ± 0.046	$100\theta_{s,eq}$	0.4538	0.4543 ± 0.0060
$\boldsymbol{A_{217}^{CIB}}$	66.7	64.4 ± 6.8	z_{re}	10.68	$10.5^{+2.0}_{-1.8}$	$r_{drag}/D_V(0.57)$	0.07193	0.07201 ± 0.00090
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.07	—	10^9A_s	2.241	$2.242^{+0.091}_{-0.11}$	$H(0.57)$	94.36	94.7 ± 2.5
$\boldsymbol{A_{143}^{tSZ}}$	7.03	5.00 ± 2.0	$10^9A_se^{-2\tau}$	1.8881	1.890 ± 0.022	$D_A(0.57)$	1364.4	1360 ± 42
$\boldsymbol{A_{100}^{PS}}$	254.1	261 ± 29	D_{40}	1228.0	1228 ± 21	$F_{AP}(0.57)$	0.67426	0.6740 ± 0.0042
$\boldsymbol{A_{143}^{PS}}$	40.5	45 ± 9	D_{220}	5719.8	5721 ± 41	$f\sigma_8(0.57)$	0.4866	0.486 ± 0.011
$\boldsymbol{A_{143\times217}^{PS}}$	34.9	39^{+10}_{-10}	D_{810}	2536.3	2536 ± 14	$\sigma_8(0.57)$	0.6267	0.627 ± 0.018
$\boldsymbol{A_{217}^{PS}}$	98.4	97 ± 10	D_{1420}	815.0	814.2 ± 5.3	f_{2000}^{143}	29.81	31 ± 4
$\boldsymbol{A^{kSZ}}$	0.00	< 5.02	D_{2000}	230.26	229.8 ± 2.4	$f_{2000}^{143\times217}$	32.48	33.0 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.44 ± 1.9	$n_{s,0.002}$	0.9735	0.975 ± 0.013	f_{2000}^{217}	106.08	106.5 ± 2.7
$\boldsymbol{A_{143}^{dustTT}}$	9.04	9.02 ± 1.8	Y_P	0.2436	0.244 ± 0.029	χ^2_{lowTEB}	10496.11	10497.0 ± 2.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.67	17.2 ± 4.2	Y_P^{BBN}	0.2449	0.245 ± 0.029	χ^2_{plik}	764.2	779.4 ± 6.1
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.8 ± 7.4	Age/Gyr	13.615	13.58 ± 0.34	χ^2_{H070p6}	0.254	0.72 ± 0.98
$\boldsymbol{c_{100}}$	0.99793	0.99789 ± 0.00077	z_*	1090.03	1090.13 ± 0.68	χ^2_{prior}	1.95	7.40 ± 3.6
$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0015	r_*	143.07	142.8 ± 3.4	χ^2_{CMB}	11260.3	11276.3 ± 5.8
H_0	68.92	69.2 ± 2.5	$100\theta_*$	1.04077	1.0407 ± 0.0011			

Best-fit $\chi^2_{eff} = 11262.50$; $\bar{\chi}^2_{eff} = 11284.44$; $R - 1 = 0.00516$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.11 plik_dx11dr2_HM_v18_TT: 764.18 Hubble - H070p6: 0.25

16.4 base_nnu_yhe_plikHM_TT_lowTEB_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022362	0.02237 ± 0.00025	$\Omega_m h^2$	0.1446	$0.1454^{+0.0060}_{-0.0068}$	$100\theta_D$	0.16110	0.16123 ± 0.00074
$\boldsymbol{\Omega_c h^2}$	0.1216	$0.1224^{+0.0060}_{-0.0068}$	$\Omega_m h^3$	0.0994	$0.1003^{+0.0063}_{-0.0075}$	z_{eq}	3359.1	3359 ± 38
$\boldsymbol{100\theta_{MC}}$	1.04051	1.0405 ± 0.0016	σ_8	0.8385	0.839 ± 0.019	k_{eq}	0.010377	0.01040 ± 0.00020
$\boldsymbol{\tau}$	0.0842	0.083 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.4639	0.464 ± 0.011	$100\theta_{eq}$	0.8209	0.8210 ± 0.0064
$\boldsymbol{N_{eff}}$	3.228	$3.27^{+0.36}_{-0.41}$	$\sigma_8\Omega_m^{0.25}$	0.6236	0.624 ± 0.014	$100\theta_{s,eq}$	0.45334	0.4534 ± 0.0033
$\boldsymbol{Y_P}$	0.2422	$0.243^{+0.031}_{-0.028}$	$\sigma_8/h^{0.5}$	1.0113	1.011 ± 0.019	$r_{drag}/D_V(0.57)$	0.071849	0.07187 ± 0.00044
$\boldsymbol{\ln(10^{10}A_s)}$	3.1060	3.104 ± 0.037	$\langle d^2\rangle^{1/2}$	2.4925	2.489 ± 0.043	$H(0.57)$	94.23	94.5 ± 2.2
$\boldsymbol{n_s}$	0.9719	0.9728 ± 0.0087	z_{re}	10.54	$10.4^{+1.8}_{-1.6}$	$D_A(0.57)$	1367.1	1364 ± 34
$\boldsymbol{y_{cal}}$	1.00026	1.0004 ± 0.0025	$10^9 A_s$	2.233	$2.231^{+0.080}_{-0.090}$	$F_{AP}(0.57)$	0.67464	0.6746 ± 0.0021
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.3 ± 6.8	$10^9 A_s e^{-2\tau}$	1.8869	1.890 ± 0.022	$f\sigma_8(0.57)$	0.4860	0.486 ± 0.011
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1229.8	1230 ± 17	$\sigma_8(0.57)$	0.6251	$0.626^{+0.015}_{-0.016}$
$\boldsymbol{A_{143}^{tSZ}}$	7.20	5.02 ± 2.0	D_{220}	5718.2	5720 ± 41	f_{2000}^{143}	29.88	31 ± 4
$\boldsymbol{A_{100}^{PS}}$	252.6	260 ± 29	D_{810}	2534.9	2536 ± 14	$f_{2000}^{143\times217}$	32.43	32.9 ± 2.9
$\boldsymbol{A_{143}^{PS}}$	39.1	45 ± 9	D_{1420}	814.5	814.1 ± 5.3	f_{2000}^{217}	106.03	106.5 ± 2.7
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	39^{+10}_{-10}	D_{2000}	230.15	229.8 ± 2.4	χ^2_{lowTEB}	10496.20	10496.8 ± 2.5
$\boldsymbol{A_{217}^{PS}}$	97.1	97 ± 10	$n_{s,0.002}$	0.9719	0.9728 ± 0.0087	χ^2_{plik}	763.9	779.0 ± 6.0
$\boldsymbol{A^{kSZ}}$	0.00	< 5.02	Y_P	0.2422	$0.243^{+0.031}_{-0.028}$	χ^2_{H070p6}	0.310	0.55 ± 0.68
$\boldsymbol{A_{100}^{dustTT}}$	7.54	7.43 ± 1.9	Y_P^{BBN}	0.2435	$0.244^{+0.031}_{-0.028}$	χ^2_{JLA}	706.614	706.66 ± 0.18
$\boldsymbol{A_{143}^{dustTT}}$	8.99	9.02 ± 1.8	Age/Gyr	13.631	13.60 ± 0.31	χ^2_{6DF}	0.0029	0.046 ± 0.064
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.54	17.2 ± 4.2	z_*	1090.02	1090.13 ± 0.67	χ^2_{MGS}	1.54	1.64 ± 0.61
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.8 ± 7.5	r_*	143.14	142.9 ± 3.3	$\chi^2_{DR11CMASS}$	2.431	2.91 ± 0.69
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00077	$100\theta_*$	1.04074	1.0407 ± 0.0011	$\chi^2_{DR11LOWZ}$	0.376	0.50 ± 0.50
$\boldsymbol{c_{217}}$	0.99588	0.9960 ± 0.0015	D_A/Gpc	13.754	13.73 ± 0.30	χ^2_{prior}	2.09	7.41 ± 3.6
H_0	68.75	69.0 ± 1.8	z_{drag}	1060.01	1060.1 ± 1.1	χ^2_{CMB}	11260.1	11275.8 ± 5.7
Ω_Λ	0.6940	0.6942 ± 0.0080	r_{drag}	145.79	145.5 ± 3.3	χ^2_{BAO}	4.35	5.10 ± 1.0
Ω_m	0.3060	0.3058 ± 0.0080	k_D	0.14178	0.1420 ± 0.0033			

Best-fit $\chi^2_{eff} = 11973.47$; $\bar{\chi}^2_{eff} = 11995.51$; $R - 1 = 0.00542$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.43 DR11LOWZ: 0.38 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.20 plik_dx11dr2_HM_v18_TT: 763.91 Hubble - H070p6: 0.31 SN - JLA December_2013: 706.61

16.5 base_nnu_yhe_plikHM_TT_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022264	0.02233 ± 0.00037	Ω_Λ	0.6917	0.695 ± 0.020	D_A/Gpc	13.949	13.87 ± 0.39
$\boldsymbol{\Omega_c h^2}$	0.1179	$0.1193^{+0.0064}_{-0.0078}$	Ω_m	0.3083	0.305 ± 0.020	z_{drag}	1059.63	1059.9 ± 1.3
$\boldsymbol{100\theta_{MC}}$	1.04119	1.0411 ± 0.0019	$\Omega_m h^2$	0.1408	$0.1423^{+0.0066}_{-0.0078}$	r_{drag}	147.96	147.1 ± 4.4
$\boldsymbol{\tau}$	0.0666	$0.069^{+0.019}_{-0.021}$	$\Omega_m h^3$	0.0952	$0.0976^{+0.0083}_{-0.010}$	k_D	0.13991	$0.1406^{+0.0038}_{-0.0043}$
$\boldsymbol{N_{eff}}$	3.00	$3.12^{+0.48}_{-0.56}$	σ_8	0.8146	0.820 ± 0.021	$100\theta_D$	0.16098	0.16118 ± 0.00077
$\boldsymbol{Y_P}$	0.2479	$0.247^{+0.033}_{-0.029}$	$\sigma_8\Omega_m^{0.5}$	0.4523	0.4518 ± 0.0090	z_{eq}	3370	3355 ± 81
$\boldsymbol{\ln(10^{10}A_s)}$	3.0628	3.071 ± 0.043	$\sigma_8\Omega_m^{0.25}$	0.6070	0.6084 ± 0.0099	k_{eq}	0.010255	$0.01028^{+0.00020}_{-0.00022}$
$\boldsymbol{n_s}$	0.9679	0.971 ± 0.015	$\sigma_8/h^{0.5}$	0.9909	0.991 ± 0.012	$100\theta_{eq}$	0.8190	0.822 ± 0.015
$\boldsymbol{y_{cal}}$	1.00009	$1.0002^{+0.0026}_{-0.0024}$	$\langle d^2\rangle^{1/2}$	2.4489	2.446 ± 0.029	$100\theta_{s,eq}$	0.4525	0.4541 ± 0.0077
$\boldsymbol{A_{217}^{CIB}}$	67.6	64.8 ± 6.6	z_{re}	8.89	9.07 ± 1.9	$r_{drag}/D_V(0.57)$	0.07178	$0.0720^{+0.0010}_{-0.0012}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	10^9A_s	2.139	$2.158^{+0.086}_{-0.10}$	$H(0.57)$	92.80	$93.7^{+3.2}_{-3.7}$
$\boldsymbol{A_{143}^{tSZ}}$	7.24	4.95 ± 2.0	$10^9A_se^{-2\tau}$	1.8721	$1.877^{+0.026}_{-0.023}$	$D_A(0.57)$	1389	1377 ± 59
$\boldsymbol{A_{100}^{PS}}$	254.4	262 ± 30	D_{40}	1224.3	1222 ± 21	$F_{AP}(0.57)$	0.6752	0.6742 ± 0.0051
$\boldsymbol{A_{143}^{PS}}$	39.0	45 ± 9	D_{220}	5714.2	5717 ± 42	$f\sigma_8(0.57)$	0.4728	0.4743 ± 0.0086
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39^{+10}_{-10}	D_{810}	2532.4	2533 ± 14	$\sigma_8(0.57)$	0.6068	0.612 ± 0.020
$\boldsymbol{A_{217}^{PS}}$	96.9	96 ± 10	D_{1420}	815.0	814.2 ± 5.2	f_{2000}^{143}	29.93	31 ± 4
$\boldsymbol{A^{kSZ}}$	0.00	< 5.30	D_{2000}	230.19	229.6 ± 2.4	$f_{2000}^{143\times217}$	32.59	33.2 ± 2.8
$\boldsymbol{A_{100}^{dustTT}}$	7.52	7.47 ± 1.9	$n_{s,0.002}$	0.9679	0.971 ± 0.015	f_{2000}^{217}	106.14	106.7 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	9.11	9.12 ± 1.8	Y_P	0.2479	$0.247^{+0.033}_{-0.029}$	$\chi^2_{lensing}$	9.26	10.1 ± 1.6
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.73	17.3 ± 4.2	Y_P^{BBN}	0.2492	$0.249^{+0.033}_{-0.029}$	χ^2_{lowTEB}	10494.86	10495.6 ± 2.0
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.9 ± 7.5	Age/Gyr	13.836	13.74 ± 0.47	χ^2_{plik}	766.2	781.2 ± 5.9
$\boldsymbol{c_{100}}$	0.99792	0.99787 ± 0.00077	z_*	1089.96	1090.04 ± 0.68	χ^2_{prior}	2.13	7.51 ± 3.6
$\boldsymbol{c_{217}}$	0.99602	0.9960 ± 0.0015	r_*	145.25	144.4 ± 4.3	χ^2_{CMB}	11270.3	11286.9 ± 5.9
H_0	67.59	$68.5^{+3.2}_{-3.7}$	$100\theta_*$	1.04134	1.0412 ± 0.0013			

Best-fit $\chi^2_{eff} = 11272.41$; $\bar{\chi}^2_{eff} = 11294.42$; $R - 1 = 0.01240$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.26 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.85 plik_dx11dr2_HM_v18_TT: 766.16

16.6 base_nnu_yhe_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022192	0.02221 ± 0.00024	$\boldsymbol{A^{dust\,TE}_{100\times143}}$	0.1313	0.131 ± 0.029	Age/Gyr	14.135	14.08 ± 0.30
$\boldsymbol{\Omega_c h^2}$	0.11469	$0.1155^{+0.0044}_{-0.0051}$	$\boldsymbol{A^{dust\,TE}_{100\times217}}$	0.301	0.304 ± 0.084	z_*	1090.238	1090.24 ± 0.45
$\boldsymbol{100\theta_{MC}}$	1.04216	1.0420 ± 0.0013	$\boldsymbol{A^{dust\,TE}_{143}}$	0.155	0.155 ± 0.054	r_*	147.72	147.3 ± 2.9
$\boldsymbol{\tau}$	0.0798	0.080 ± 0.018	$\boldsymbol{A^{dust\,TE}_{143\times217}}$	0.335	0.338 ± 0.080	$100\theta_*$	1.04200	1.04188 ± 0.00097
$\boldsymbol{N_{eff}}$	2.695	$2.75^{+0.29}_{-0.34}$	$\boldsymbol{A^{dust\,TE}_{217}}$	1.664	1.67 ± 0.26	D_A/Gpc	14.176	14.13 ± 0.26
$\boldsymbol{Y_P}$	0.2629	0.261 ± 0.018	$\boldsymbol{c_{100}}$	0.99816	0.99814 ± 0.00077	z_{drag}	1059.59	1059.66 ± 0.89
$\boldsymbol{\ln(10^{10}A_s)}$	3.0860	3.088 ± 0.038	$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0014	r_{drag}	150.50	150.0 ± 2.9
$\boldsymbol{n_s}$	0.9608	0.9619 ± 0.0095	H_0	65.36	65.7 ± 1.9	k_D	0.13768	0.1381 ± 0.0025
$\boldsymbol{y_{cal}}$	1.00035	1.0004 ± 0.0025	Ω_Λ	0.6780	0.680 ± 0.012	$100\theta_D$	0.160961	0.16101 ± 0.00048
$\boldsymbol{A^{CIB}_{217}}$	66.8	64.0 ± 6.7	Ω_m	0.3220	0.320 ± 0.012	z_{eq}	3433.1	3426 ± 47
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.08	—	$\Omega_m h^2$	0.13753	$0.1383^{+0.0045}_{-0.0051}$	k_{eq}	0.010228	0.01024 ± 0.00015
$\boldsymbol{A^{tSZ}_{143}}$	7.17	5.33 ± 1.9	$\Omega_m h^3$	0.0899	$0.0910^{+0.0051}_{-0.0061}$	$100\theta_{eq}$	0.8080	0.8094 ± 0.0085
$\boldsymbol{A^{PS}_{100}}$	256.4	260 ± 28	σ_8	0.8215	0.823 ± 0.018	$100\theta_{s,eq}$	0.44677	0.4475 ± 0.0043
$\boldsymbol{A^{PS}_{143}}$	39.9	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4661	0.4658 ± 0.0097	$r_{drag}/D_V(0.57)$	0.07108	0.07117 ± 0.00060
$\boldsymbol{A^{PS}_{143\times217}}$	35.2	41 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6188	0.619 ± 0.012	$H(0.57)$	90.67	$91.1^{+2.0}_{-2.2}$
$\boldsymbol{A^{PS}_{217}}$	98.5	98 ± 10	$\sigma_8/h^{0.5}$	1.0162	1.015 ± 0.017	$D_A(0.57)$	1429.3	1423 ± 36
$\boldsymbol{A^{kSZ}}$	0.00	< 4.18	$\langle d^2\rangle^{1/2}$	2.5135	2.511 ± 0.040	$F_{AP}(0.57)$	0.67866	0.6783 ± 0.0030
$\boldsymbol{A^{dust\,TT}_{100}}$	7.40	7.45 ± 1.9	z_{re}	10.13	$10.1^{+1.8}_{-1.5}$	$f\sigma_8(0.57)$	0.4803	0.4808 ± 0.0094
$\boldsymbol{A^{dust\,TT}_{143}}$	8.95	8.95 ± 1.8	$10^9 A_s$	2.189	2.194 ± 0.083	$\sigma_8(0.57)$	0.6086	0.610 ± 0.015
$\boldsymbol{A^{dust\,TT}_{143\times217}}$	17.45	17.0 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8662	1.869 ± 0.020	f^{143}_{2000}	29.56	29.9 ± 3.0
$\boldsymbol{A^{dust\,TT}_{217}}$	81.8	81.6 ± 7.4	D_{40}	1241.0	1241 ± 16	$f^{143\times217}_{2000}$	32.44	32.6 ± 2.2
$\boldsymbol{A^{dust\,EE}_{100}}$	0.0808	0.0808 ± 0.0057	D_{220}	5722.8	5725 ± 39	f^{217}_{2000}	106.08	106.2 ± 2.1
$\boldsymbol{A^{dust\,EE}_{100\times143}}$	0.0482	0.0483 ± 0.0050	D_{810}	2534.1	2535 ± 14	χ^2_{lowTEB}	10497.29	10498.0 ± 2.4
$\boldsymbol{A^{dust\,EE}_{100\times217}}$	0.1000	0.0995 ± 0.033	D_{1420}	814.82	814.7 ± 4.8	χ^2_{plik}	2430.2	2450.9 ± 7.0
$\boldsymbol{A^{dust\,EE}_{143}}$	0.0998	0.0997 ± 0.0069	D_{2000}	230.51	230.4 ± 1.8	χ^2_{prior}	6.81	19.3 ± 5.5
$\boldsymbol{A^{dust\,EE}_{143\times217}}$	0.2240	0.223 ± 0.047	$n_{s,0.002}$	0.9608	0.9619 ± 0.0095	χ^2_{CMB}	12927.5	12949.0 ± 6.9
$\boldsymbol{A^{dust\,EE}_{217}}$	0.647	0.65 ± 0.13	Y_P	0.2629	0.261 ± 0.018			
$\boldsymbol{A^{dust\,TE}_{100}}$	0.1393	0.141 ± 0.038	Y_P^{BBN}	0.2643	0.263 ± 0.018			

Best-fit $\chi^2_{eff} = 12934.29$; $\bar{\chi}^2_{eff} = 12968.23$; $R - 1 = 0.00734$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.29 plik_dx11dr2_HM_v18_TTTEEE: 2430.19

16.7 base_nnu_yhe_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022314	0.02232 ± 0.00020	$\boldsymbol{A^{dust\,TE}_{100\times217}}$	0.305	0.305 ± 0.084	r_*	147.03	146.6 ± 2.7
$\boldsymbol{\Omega_c h^2}$	0.11506	0.1160 ± 0.0047	$\boldsymbol{A^{dust\,TE}_{143}}$	0.153	0.153 ± 0.054	$100\theta_*$	1.04184	1.04175 ± 0.00095
$\boldsymbol{100\theta_{MC}}$	1.04197	1.0419 ± 0.0013	$\boldsymbol{A^{dust\,TE}_{143\times217}}$	0.337	0.335 ± 0.080	D_A/Gpc	14.113	14.07 ± 0.25
$\boldsymbol{\tau}$	0.0878	0.085 ± 0.017	$\boldsymbol{A^{dust\,TE}_{217}}$	1.666	1.66 ± 0.26	z_{drag}	1059.86	1059.97 ± 0.80
$\boldsymbol{N_{eff}}$	2.789	$2.84^{+0.28}_{-0.32}$	$\boldsymbol{c_{100}}$	0.99819	0.99815 ± 0.00078	r_{drag}	149.76	149.3 ± 2.8
$\boldsymbol{Y_P}$	0.2608	$0.261^{+0.020}_{-0.018}$	$\boldsymbol{c_{217}}$	0.99593	0.9960 ± 0.0015	k_D	0.13828	0.1386 ± 0.0025
$\boldsymbol{\ln(10^{10}A_s)}$	3.1029	3.099 ± 0.035	H_0	66.38	66.6 ± 1.6	$100\theta_D$	0.160976	0.16108 ± 0.00048
$\boldsymbol{n_s}$	0.9664	0.9664 ± 0.0075	Ω_Λ	0.6868	0.6867 ± 0.0078	z_{eq}	3400.1	3400 ± 34
$\boldsymbol{y_{cal}}$	1.00035	1.0005 ± 0.0025	Ω_m	0.3132	0.3133 ± 0.0078	k_{eq}	0.010197	0.01023 ± 0.00015
$\boldsymbol{A^{CIB}_{217}}$	64.8	64.1 ± 6.6	$\Omega_m h^2$	0.13802	0.1389 ± 0.0047	$100\theta_{eq}$	0.8141	0.8141 ± 0.0059
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.33	—	$\Omega_m h^3$	0.0916	$0.0926^{+0.0049}_{-0.0057}$	$100\theta_{s,eq}$	0.44987	0.4499 ± 0.0030
$\boldsymbol{A^{tSZ}_{143}}$	6.98	5.34 ± 1.9	σ_8	0.8277	0.828 ± 0.017	$r_{drag}/D_V(0.57)$	0.071531	0.07153 ± 0.00040
$\boldsymbol{A^{PS}_{100}}$	252.9	261 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4632	0.4632 ± 0.0091	$H(0.57)$	91.49	91.8 ± 1.8
$\boldsymbol{A^{PS}_{143}}$	43.6	44 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6192	0.619 ± 0.012	$D_A(0.57)$	1411.9	1408 ± 30
$\boldsymbol{A^{PS}_{143\times217}}$	42.7	40^{+10}_{-10}	$\sigma_8/h^{0.5}$	1.0159	1.014 ± 0.017	$F_{AP}(0.57)$	0.67646	0.6765 ± 0.0020
$\boldsymbol{A^{PS}_{217}}$	101.7	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5087	2.505 ± 0.039	$f\sigma_8(0.57)$	0.4817	0.4817 ± 0.0093
$\boldsymbol{A^{kSZ}}$	0.00	< 4.25	z_{re}	10.81	$10.5^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.6153	0.615 ± 0.013
$\boldsymbol{A^{dust\,TT}_{100}}$	7.47	7.49 ± 1.9	$10^9 A_s$	2.226	2.220 ± 0.077	f^{143}_{2000}	28.94	30.0 ± 3.1
$\boldsymbol{A^{dust\,TT}_{143}}$	8.99	8.98 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8675	1.871 ± 0.020	$f^{143\times217}_{2000}$	32.08	32.6 ± 2.3
$\boldsymbol{A^{dust\,TT}_{143\times217}}$	17.90	17.1 ± 4.2	D_{40}	1234.7	1236 ± 15	f^{217}_{2000}	105.57	106.2 ± 2.1
$\boldsymbol{A^{dust\,TT}_{217}}$	82.3	81.6 ± 7.4	D_{220}	5724.3	5728 ± 39	χ^2_{lowTEB}	10497.26	10497.7 ± 2.6
$\boldsymbol{A^{dust\,EE}_{100}}$	0.0813	0.0812 ± 0.0057	D_{810}	2534.6	2535 ± 14	χ^2_{plik}	2430.7	2451.2 ± 9.7
$\boldsymbol{A^{dust\,EE}_{100\times143}}$	0.0489	0.0488 ± 0.0050	D_{1420}	815.67	814.7 ± 4.8	χ^2_{6DF}	0.0471	0.084 ± 0.097
$\boldsymbol{A^{dust\,EE}_{100\times217}}$	0.0996	0.0995 ± 0.033	D_{2000}	230.88	230.3 ± 1.9	χ^2_{MGS}	1.097	1.17 ± 0.49
$\boldsymbol{A^{dust\,EE}_{143}}$	0.1002	0.1001 ± 0.0069	$n_{s,0.002}$	0.9664	0.9664 ± 0.0075	$\chi^2_{DR11CMASS}$	2.561	2.97 ± 0.76
$\boldsymbol{A^{dust\,EE}_{143\times217}}$	0.2235	0.223 ± 0.046	Y_P	0.2608	$0.261^{+0.020}_{-0.018}$	$\chi^2_{DR11LOWZ}$	0.81	0.94 ± 0.66
$\boldsymbol{A^{dust\,EE}_{217}}$	0.650	0.65 ± 0.13	Y_P^{BBN}	0.2622	$0.262^{+0.020}_{-0.018}$	χ^2_{prior}	6.78	19.5 ± 5.6
$\boldsymbol{A^{dust\,TE}_{100}}$	0.1410	0.141 ± 0.038	Age/Gyr	14.025	13.99 ± 0.27	χ^2_{CMB}	12928.0	12948.9 ± 9.6
$\boldsymbol{A^{dust\,TE}_{100\times143}}$	0.1304	0.131 ± 0.030	z_*	1090.067	1090.16 ± 0.44	χ^2_{BAO}	4.52	5.16 ± 1.1

Best-fit $\chi^2_{eff} = 12939.26$; $\bar{\chi}^2_{eff} = 12973.52$; $R - 1 = 0.01202$

χ^2_{eff}: BAO - 6DF: 0.05 MGS: 1.10 DR11CMASS: 2.56 DR11LOWZ: 0.81 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.26 plik_dx11dr2_HM_v18_TTTEEE: 2430.70

16.8 base_nnu_yhe_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022313	0.02232 ± 0.00023	$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1308	0.131 ± 0.030	Age/Gyr	13.932	13.90 ± 0.26
$\boldsymbol{\Omega_c h^2}$	0.11714	0.1178 ± 0.0045	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.304 ± 0.085	z_*	1090.127	1090.17 ± 0.44
$\boldsymbol{100\theta_{MC}}$	1.04154	1.0415 ± 0.0012	$\boldsymbol{A^{dustTE}_{143}}$	0.151	0.153 ± 0.054	r_*	145.94	145.6 ± 2.6
$\boldsymbol{\tau}$	0.0853	0.083 ± 0.018	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.335 ± 0.080	$100\theta_*$	1.04148	1.04141 ± 0.00089
$\boldsymbol{N_{eff}}$	2.895	2.94 ± 0.28	$\boldsymbol{A^{dustTE}_{217}}$	1.677	1.67 ± 0.26	D_A/Gpc	14.013	13.98 ± 0.24
$\boldsymbol{Y_P}$	0.2565	$0.256^{+0.019}_{-0.017}$	$\boldsymbol{c_{100}}$	0.99819	0.99815 ± 0.00079	z_{drag}	1059.93	1059.96 ± 0.86
$\boldsymbol{\ln(10^{10}A_s)}$	3.1018	3.099 ± 0.037	$\boldsymbol{c_{217}}$	0.99589	0.9960 ± 0.0015	r_{drag}	148.65	148.3 ± 2.7
$\boldsymbol{n_s}$	0.9664	0.9666 ± 0.0089	H_0	66.76	67.0 ± 1.7	k_D	0.13924	0.1395 ± 0.0024
$\boldsymbol{y_{cal}}$	1.00022	1.0005 ± 0.0025	Ω_Λ	0.6856	0.686 ± 0.011	$100\theta_D$	0.161006	0.16107 ± 0.00048
$\boldsymbol{A^{CIB}_{217}}$	65.3	64.1 ± 6.7	Ω_m	0.3144	0.314 ± 0.011	z_{eq}	3401.4	3399 ± 43
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.24	—	$\Omega_m h^2$	0.14010	0.1407 ± 0.0045	k_{eq}	0.010276	0.01029 ± 0.00015
$\boldsymbol{A^{tSZ}_{143}}$	7.06	$5.33^{+2.1}_{-1.9}$	$\Omega_m h^3$	0.0935	0.0943 ± 0.0051	$100\theta_{eq}$	0.8136	0.8142 ± 0.0078
$\boldsymbol{A^{PS}_{100}}$	254.2	261 ± 28	σ_8	0.8309	0.831 ± 0.017	$100\theta_{s,eq}$	0.44962	0.4499 ± 0.0040
$\boldsymbol{A^{PS}_{143}}$	42.4	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4659	0.4652 ± 0.0098	$r_{drag}/D_V(0.57)$	0.07144	0.07147 ± 0.00057
$\boldsymbol{A^{PS}_{143\times217}}$	40.3	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6222	0.622 ± 0.012	$H(0.57)$	92.08	92.3 ± 1.8
$\boldsymbol{A^{PS}_{217}}$	100.9	98 ± 10	$\sigma_8/h^{0.5}$	1.0170	1.015 ± 0.017	$D_A(0.57)$	1403.4	1400 ± 32
$\boldsymbol{A^{kSZ}}$	0.00	< 4.26	$\langle d^2\rangle^{1/2}$	2.5104	2.506 ± 0.039	$F_{AP}(0.57)$	0.67676	0.6766 ± 0.0028
$\boldsymbol{A^{dustTT}_{100}}$	7.41	7.46 ± 1.9	z_{re}	10.62	$10.4^{+1.8}_{-1.5}$	$f\sigma_8(0.57)$	0.4839	0.4834 ± 0.0092
$\boldsymbol{A^{dustTT}_{143}}$	8.93	8.96 ± 1.8	$10^9 A_s$	2.224	2.219 ± 0.081	$\sigma_8(0.57)$	0.6174	0.617 ± 0.014
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.60	17.0 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8750	1.877 ± 0.019	f^{143}_{2000}	29.20	30.0 ± 3.1
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.6 ± 7.4	D_{40}	1236.4	1237 ± 16	$f^{143\times217}_{2000}$	32.24	32.6 ± 2.2
$\boldsymbol{A^{dustEE}_{100}}$	0.0812	0.0812 ± 0.0057	D_{220}	5724.6	5728 ± 39	f^{217}_{2000}	105.76	106.2 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0488	0.0489 ± 0.0050	D_{810}	2535.3	2536 ± 14	χ^2_{lowTEB}	10497.14	10497.7 ± 2.5
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0983	0.0998 ± 0.033	D_{1420}	815.10	814.6 ± 4.8	χ^2_{plik}	2430.7	2451.6 ± 9.5
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.1002 ± 0.0069	D_{2000}	230.56	230.2 ± 1.8	χ^2_{H070p6}	1.34	1.45 ± 1.2
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2237	0.223 ± 0.046	$n_{s,0.002}$	0.9664	0.9666 ± 0.0089	χ^2_{prior}	6.87	19.5 ± 5.6
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	Y_P	0.2565	$0.256^{+0.019}_{-0.017}$	χ^2_{CMB}	12927.9	12949.3 ± 9.4
$\boldsymbol{A^{dustTE}_{100}}$	0.1415	0.141 ± 0.038	Y_P^{BBN}	0.2578	$0.257^{+0.020}_{-0.017}$			

Best-fit $\chi^2_{eff} = 12936.07$; $\bar{\chi}^2_{eff} = 12970.28$; $R - 1 = 0.01172$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.14 plik_dx11dr2_HM_v18_TTTEEE: 2430.72 Hubble - H070p6: 1.33

16.9 base_nnu_yhe_plikHM_TTTEEE_lowTEB_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022384	0.02238 ± 0.00019	$\boldsymbol{A_{143}^{dust\,TE}}$	0.153	0.152 ± 0.054	D_A/Gpc	13.977	13.96 ± 0.23
$\boldsymbol{\Omega_c h^2}$	0.11741	0.1179 ± 0.0045	$\boldsymbol{A_{143\times217}^{dust\,TE}}$	0.337	0.334 ± 0.080	z_{drag}	1060.12	1060.12 ± 0.78
$\boldsymbol{100\theta_{MC}}$	1.04153	1.0414 ± 0.0012	$\boldsymbol{A_{217}^{dust\,TE}}$	1.660	1.66 ± 0.26	r_{drag}	148.24	148.0 ± 2.6
$\boldsymbol{\tau}$	0.0881	0.086 ± 0.017	$\boldsymbol{c_{100}}$	0.99815	0.99816 ± 0.00079	k_D	0.13953	0.1398 ± 0.0023
$\boldsymbol{N_{eff}}$	2.945	2.98 ± 0.27	$\boldsymbol{c_{217}}$	0.99602	0.9960 ± 0.0015	$100\theta_D$	0.161092	0.16111 ± 0.00048
$\boldsymbol{Y_P}$	0.2572	$0.256^{+0.020}_{-0.017}$	H_0	67.30	67.4 ± 1.4	z_{eq}	3386.6	3384 ± 32
$\boldsymbol{\ln(10^{10}A_s)}$	3.1081	3.105 ± 0.034	Ω_Λ	0.6899	0.6901 ± 0.0071	k_{eq}	0.010266	0.01028 ± 0.00015
$\boldsymbol{n_s}$	0.9690	0.9690 ± 0.0072	Ω_m	0.3101	0.3099 ± 0.0071	$100\theta_{\mathrm{eq}}$	0.8165	0.8169 ± 0.0055
$\boldsymbol{y_{cal}}$	1.00026	1.0005 ± 0.0025	$\Omega_m h^2$	0.14044	0.1409 ± 0.0045	$100\theta_{s,\mathrm{eq}}$	0.45107	0.4513 ± 0.0028
$\boldsymbol{A_{217}^{CIB}}$	67.0	64.2 ± 6.6	$\Omega_m h^3$	0.09451	0.0951 ± 0.0049	$r_{\mathrm{drag}}/D_V(0.57)$	0.071667	0.07168 ± 0.00038
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	σ_8	0.8333	0.833 ± 0.016	$H(0.57)$	92.53	92.7 ± 1.7
$\boldsymbol{A_{143}^{tSZ}}$	7.20	$5.34^{+2.2}_{-1.9}$	$\sigma_8\Omega_m^{0.5}$	0.4640	0.4635 ± 0.0091	$D_A(0.57)$	1394.4	1392 ± 27
$\boldsymbol{A_{100}^{PS}}$	256.1	261 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6218	0.621 ± 0.012	$F_{\mathrm{AP}}(0.57)$	0.67567	0.6756 ± 0.0018
$\boldsymbol{A_{143}^{PS}}$	39.5	44 ± 8	$\sigma_8/h^{0.5}$	1.0157	1.014 ± 0.017	$f\sigma_8(0.57)$	0.4841	0.4837 ± 0.0092
$\boldsymbol{A_{143\times217}^{PS}}$	34.2	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.5062	2.502 ± 0.039	$\sigma_8(0.57)$	0.6202	0.620 ± 0.013
$\boldsymbol{A_{217}^{PS}}$	98.0	98 ± 10	z_{re}	10.86	$10.6^{+1.6}_{-1.4}$	f_{2000}^{143}	29.63	30.0 ± 3.1
$\boldsymbol{A^{kSZ}}$	0.00	< 4.30	$10^9 A_s$	2.238	2.232 ± 0.076	$f_{2000}^{143\times217}$	32.41	32.6 ± 2.3
$\boldsymbol{A_{100}^{dust\,TT}}$	7.45	7.49 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8763	1.878 ± 0.019	f_{2000}^{217}	106.07	106.2 ± 2.1
$\boldsymbol{A_{143}^{dust\,TT}}$	8.99	8.99 ± 1.8	D_{40}	1233.8	1234 ± 15	χ^2_{lowTEB}	10497.07	10497.5 ± 2.5
$\boldsymbol{A_{143\times217}^{dust\,TT}}$	17.56	17.1 ± 4.2	D_{220}	5728.1	5729 ± 39	χ^2_{plik}	2431.0	2451.6 ± 7.1
$\boldsymbol{A_{217}^{dust\,TT}}$	81.9	81.6 ± 7.4	D_{810}	2534.9	2536 ± 14	χ^2_{H070p6}	0.99	1.09 ± 0.85
$\boldsymbol{A_{100}^{dust\,EE}}$	0.0815	0.0815 ± 0.0057	D_{1420}	814.66	814.7 ± 4.8	χ^2_{JLA}	706.709	706.75 ± 0.20
$\boldsymbol{A_{100\times143}^{dust\,EE}}$	0.04884	0.0492 ± 0.0049	D_{2000}	230.29	230.2 ± 1.8	χ^2_{6DF}	0.0217	0.053 ± 0.068
$\boldsymbol{A_{100\times217}^{dust\,EE}}$	0.0987	0.0996 ± 0.032	$n_{s,0.002}$	0.9690	0.9690 ± 0.0072	χ^2_{MGS}	1.28	1.36 ± 0.49
$\boldsymbol{A_{143}^{dust\,EE}}$	0.1002	0.1004 ± 0.0069	Y_P	0.2572	$0.256^{+0.020}_{-0.017}$	$\chi^2_{\mathrm{DR11CMASS}}$	2.443	2.79 ± 0.54
$\boldsymbol{A_{143\times217}^{dust\,EE}}$	0.2223	0.222 ± 0.046	Y_P^{BBN}	0.2586	$0.257^{+0.020}_{-0.017}$	$\chi^2_{\mathrm{DR11LOWZ}}$	0.606	0.70 ± 0.53
$\boldsymbol{A_{217}^{dust\,EE}}$	0.649	0.65 ± 0.13	Age/Gyr	13.873	13.85 ± 0.24	χ^2_{prior}	7.19	19.6 ± 5.6
$\boldsymbol{A_{100}^{dust\,TE}}$	0.1398	0.141 ± 0.038	z_*	1090.111	1090.12 ± 0.44	χ^2_{CMB}	12928.0	12949.1 ± 6.9
$\boldsymbol{A_{100\times143}^{dust\,TE}}$	0.1303	0.131 ± 0.030	r_*	145.56	145.3 ± 2.5	χ^2_{BAO}	4.350	4.91 ± 0.80
$\boldsymbol{A_{100\times217}^{dust\,TE}}$	0.303	0.304 ± 0.085	$100\theta_*$	1.04143	1.04136 ± 0.00088			

Best-fit $\chi^2_{\mathrm{eff}} = 13647.30$; $\bar{\chi}^2_{\mathrm{eff}} = 13681.50$; $R - 1 = 0.01798$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.44 DR11LOWZ: 0.61 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.07 plik_dx11dr2_HM_v18_TTTEEE:

16.10 base_nnu_yhe_plikHM_TTTEEE_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022159	0.02217 ± 0.00024	$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1320	0.132 ± 0.030	Age/Gyr	14.158	14.11 ± 0.29
$\boldsymbol{\Omega_c h^2}$	0.11379	$0.1148^{+0.0044}_{-0.0050}$	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.306 ± 0.084	z_*	1090.109	1090.14 ± 0.45
$\boldsymbol{100\theta_{MC}}$	1.04223	1.0421 ± 0.0013	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.053	r_*	148.12	147.6 ± 2.8
$\boldsymbol{\tau}$	0.0616	0.061 ± 0.015	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.338 ± 0.080	$100\theta_*$	1.04213	1.04199 ± 0.00096
$\boldsymbol{N_{eff}}$	2.672	$2.73^{+0.29}_{-0.34}$	$\boldsymbol{A^{dustTE}_{217}}$	1.673	1.67 ± 0.26	D_A/Gpc	14.213	14.16 ± 0.26
$\boldsymbol{Y_P}$	0.2611	$0.259^{+0.020}_{-0.017}$	$\boldsymbol{c_{100}}$	0.99813	0.99812 ± 0.00078	z_{drag}	1059.40	1059.43 ± 0.90
$\boldsymbol{\ln(10^{10}A_s)}$	3.0460	3.048 ± 0.030	$\boldsymbol{c_{217}}$	0.99609	0.9960 ± 0.0015	r_{drag}	150.92	150.4 ± 2.9
$\boldsymbol{n_s}$	0.9600	0.9608 ± 0.0095	H_0	65.40	$65.7^{+1.9}_{-2.1}$	k_D	0.13738	$0.1379^{+0.0025}_{-0.0028}$
$\boldsymbol{y_{cal}}$	0.99999	1.0002 ± 0.0025	Ω_Λ	0.6807	0.681 ± 0.012	$100\theta_D$	0.160893	0.16094 ± 0.00049
$\boldsymbol{A^{CIB}_{217}}$	67.7	64.6 ± 6.6	Ω_m	0.3193	0.319 ± 0.012	z_{eq}	3420.7	3418 ± 47
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$\Omega_m h^2$	0.13660	$0.1376^{+0.0044}_{-0.0051}$	k_{eq}	0.010175	0.01021 ± 0.00015
$\boldsymbol{A^{tSZ}_{143}}$	7.29	$5.25^{+2.2}_{-1.9}$	$\Omega_m h^3$	0.0893	$0.0905^{+0.0050}_{-0.0061}$	$100\theta_{eq}$	0.8101	0.8107 ± 0.0085
$\boldsymbol{A^{PS}_{100}}$	257.0	262 ± 29	σ_8	0.8028	0.805 ± 0.014	$100\theta_{s,eq}$	0.44791	0.4482 ± 0.0043
$\boldsymbol{A^{PS}_{143}}$	39.1	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4537	0.4545 ± 0.0068	$r_{drag}/D_V(0.57)$	0.07124	0.07126 ± 0.00060
$\boldsymbol{A^{PS}_{143\times217}}$	33.3	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6035	0.6048 ± 0.0082	$H(0.57)$	90.55	$90.9^{+2.0}_{-2.2}$
$\boldsymbol{A^{PS}_{217}}$	97.1	97 ± 10	$\sigma_8/h^{0.5}$	0.9927	0.993 ± 0.011	$D_A(0.57)$	1429.7	1424 ± 36
$\boldsymbol{A^{kSZ}}$	0.00	< 4.64	$\langle d^2\rangle^{1/2}$	2.4603	2.461 ± 0.026	$F_{AP}(0.57)$	0.67801	0.6779 ± 0.0030
$\boldsymbol{A^{dustTT}_{100}}$	7.43	7.49 ± 1.9	z_{re}	8.41	$8.33^{+1.6}_{-1.3}$	$f\sigma_8(0.57)$	0.4687	0.4698 ± 0.0068
$\boldsymbol{A^{dustTT}_{143}}$	9.07	9.05 ± 1.8	$10^9 A_s$	2.103	2.107 ± 0.064	$\sigma_8(0.57)$	0.5954	0.597 ± 0.013
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.70	17.2 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8591	1.863 ± 0.020	f^{143}_{2000}	29.94	30.4 ± 3.1
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.6 ± 7.4	D_{40}	1232.8	1234 ± 16	$f^{143\times217}_{2000}$	32.73	32.9 ± 2.3
$\boldsymbol{A^{dustEE}_{100}}$	0.0806	0.0810 ± 0.0057	D_{220}	5719.2	5721 ± 38	f^{217}_{2000}	106.27	106.4 ± 2.2
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0482	0.0485 ± 0.0051	D_{810}	2531.5	2533 ± 14	$\chi^2_{lensing}$	9.59	10.4 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0992	0.0998 ± 0.032	D_{1420}	814.78	814.8 ± 4.8	χ^2_{lowTEB}	10495.75	10496.4 ± 1.7
$\boldsymbol{A^{dustEE}_{143}}$	0.0996	0.0999 ± 0.0070	D_{2000}	230.24	230.2 ± 1.8	χ^2_{plik}	2433.5	2453.9 ± 7.2
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2238	0.224 ± 0.047	$n_{s,0.002}$	0.9600	0.9608 ± 0.0095	χ^2_{prior}	6.90	19.4 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.659	0.65 ± 0.13	Y_P	0.2611	$0.259^{+0.020}_{-0.017}$	χ^2_{CMB}	12938.8	12960.6 ± 7.2
$\boldsymbol{A^{dustTE}_{100}}$	0.1409	0.140 ± 0.038	Y_P^{BBN}	0.2625	$0.260^{+0.020}_{-0.017}$			

Best-fit $\chi^2_{eff} = 12945.71$; $\bar{\chi}^2_{eff} = 12979.99$; $R - 1 = 0.02911$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.59 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.75 plik_dx11dr2_HM_v18_TTTEEE: 2433.48

16.11 base_nnu_yhe_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022277	0.02230 ± 0.00036 (-0.0σ)	$\boldsymbol{c_{217}}$	0.99774	0.9973 ± 0.0018 $(+0.9\sigma)$	z_*	1090.44	1090.18 ± 0.72 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.1171	$0.1191^{+0.0066}_{-0.0085}$ (-0.1σ)	$\boldsymbol{\beta_1^1}$	-0.02	-0.1 ± 1.0	r_*	145.97	144.9 ± 4.6 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04182	1.0413 ± 0.0019 $(+0.1\sigma)$	H_0	66.77	$67.6^{+3.4}_{-4.0}$ (-0.0σ)	$100\theta_*$	1.04159	1.0413 ± 0.0014 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0784	$0.081^{+0.021}_{-0.023}$ (-0.0σ)	Ω_Λ	0.6858	$0.688^{+0.024}_{-0.021}$ $(+0.0\sigma)$	$z_{\rm drag}$	1060.05	1059.9 ± 1.3 (-0.0σ)
$\boldsymbol{N_{eff}}$	2.89	$3.04^{+0.50}_{-0.62}$ (-0.1σ)	$\Omega_{\rm m}$	0.3142	$0.312^{+0.021}_{-0.024}$ (-0.0σ)	$r_{\rm drag}$	148.69	147.6 ± 4.7 $(+0.1\sigma)$
$\boldsymbol{Y_P}$	0.2630	$0.251^{+0.034}_{-0.030}$ $(+0.0\sigma)$	$\Omega_{\rm m}h^2$	0.1401	$0.1421^{+0.0067}_{-0.0086}$ (-0.1σ)	$k_{\rm D}$	0.13892	$0.1402^{+0.0040}_{-0.0048}$ (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0866	3.092 ± 0.047 (-0.1σ)	$\Omega_{\rm m}h^3$	0.0935	$0.0962^{+0.0086}_{-0.011}$ (-0.1σ)	$100\theta_{\rm D}$	0.16137	0.16116 ± 0.00078 (-0.0σ)
$\boldsymbol{n_s}$	0.9692	0.970 ± 0.015 $(+0.1\sigma)$	σ_8	0.8261	0.830 ± 0.024 (-0.1σ)	$z_{\rm eq}$	3402	3387 ± 90 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.00024	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4631	0.463 ± 0.013 (-0.1σ)	$100\theta_{\rm eq}$	0.8136	0.816 ± 0.016 $(+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	255.9	247 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6185	0.620 ± 0.014 (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07147	0.0716 ± 0.0011 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38.3	40 ± 9 (-0.5σ)	$\sigma_8/h^{0.5}$	1.0110	1.011 ± 0.021 (-0.1σ)	$H(0.57)$	92.09	$93.0^{+3.5}_{-4.0}$ (-0.1σ)
$\boldsymbol{A_{217}^{PS}}$	94.7	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.4858	2.487 ± 0.050 (-0.2σ)	$D_{\rm A}(0.57)$	1403	1391 ± 64 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47.4	46 ± 7 (-2.6σ)	$z_{\rm re}$	10.05	10.1 ± 2.0 (-0.0σ)	$F_{\rm AP}(0.57)$	0.6767	0.6761 ± 0.0056 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	2.08	$3.17^{+1.2}_{-2.7}$ (-0.9σ)	$10^9A_{\rm s}$	2.190	$2.205^{+0.097}_{-0.12}$ (-0.1σ)	$f\sigma_8(0.57)$	0.4810	0.483 ± 0.011 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.404	$0.52^{+0.10}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8724	1.874 ± 0.026 (-0.3σ)	$\sigma_8(0.57)$	0.6139	0.618 ± 0.022 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.070	< 0.592 (-0.2σ)	D_{40}	1223.8	1225 ± 22 (-0.3σ)	f_{2000}^{143}	31.03	29 ± 4 (-0.3σ)
$\boldsymbol{A^{kSZ}}$	7.05	$5.46^{+4.3}_{-1.7}$ $(+0.7\sigma)$	D_{220}	5696.0	5696 ± 42 (-0.5σ)	f_{2000}^{217}	108.06	106.9 ± 2.7 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.994	0.99 ± 0.19	D_{810}	2529.6	2531 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	33.18	32.2 ± 3.0 (-0.3σ)
$\boldsymbol{A_{143}^{dust}}$	1.017	1.02 ± 0.18	D_{1420}	812.3	813.9 ± 5.4 (-0.0σ)	$\chi^2_{\rm lowTEB}$	10495.35	10496.8 ± 2.7 (-0.2σ)
$\boldsymbol{A_{217}^{dust}}$	1.231	1.21 ± 0.12	$n_{\rm s,0.002}$	0.9692	0.970 ± 0.015 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8044.8	8061.5 ± 6.3
$\boldsymbol{A_{143\times217}^{dust}}$	0.956	0.98 ± 0.18	$Y_{\rm P}$	0.2630	$0.251^{+0.034}_{-0.030}$ $(+0.0\sigma)$	$\chi^2_{\rm prior}$	3.93	8.44 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99660	0.99677 ± 0.00097 (-1.4σ)	Age/Gyr	13.93	13.82 ± 0.50 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18540.2	18558.3 ± 6.1 $(+1239.4\sigma)$

Best-fit $\chi^2_{\rm eff} = 18544.12$; $\Delta\chi^2_{\rm eff} = 7282.27$; $\bar{\chi}^2_{\rm eff} = 18566.69$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.81$; $R - 1 = 0.01036$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.35 (Δ -1.03) CamSpec like_v9.10CMH_unified: 8044.85

16.12 base_nnu_yhe_CamSpecHM_TT_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02234 \pm 0.00026 \quad (-0.0\sigma)$	H_0	$67.9^{+2.1}_{-2.4} \quad (-0.1\sigma)$	$r_{\rm drag}$	$147.3 \pm 3.9 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1194^{+0.0063}_{-0.0079} \quad (-0.1\sigma)$	Ω_Λ	$0.6913 \pm 0.0092 \quad (-0.0\sigma)$	$k_{\rm D}$	$0.1404^{+0.0035}_{-0.0041} \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.0412 \pm 0.0018 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.3087 \pm 0.0092 \quad (+0.0\sigma)$	$100\theta_{\rm D}$	$0.16118 \pm 0.00074 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.082 \pm 0.019 \quad (-0.0\sigma)$	$\Omega_{\rm m}h^2$	$0.1424^{+0.0063}_{-0.0079} \quad (-0.1\sigma)$	$z_{\rm eq}$	$3376 \pm 45 \quad (+0.0\sigma)$
$\boldsymbol{N_{eff}}$	$3.07^{+0.40}_{-0.49} \quad (-0.1\sigma)$	$\Omega_{\rm m}h^3$	$0.0968^{+0.0067}_{-0.0089} \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8183 \pm 0.0076 \quad (-0.0\sigma)$
$\boldsymbol{Y_P}$	$0.251^{+0.032}_{-0.029} \quad (+0.0\sigma)$	σ_8	$0.832 \pm 0.021 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07175 \pm 0.00048 \quad (+0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.096 \pm 0.039 \quad (-0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.462 \pm 0.011 \quad (-0.1\sigma)$	$H(0.57)$	$93.3^{+2.5}_{-2.9} \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9721 \pm 0.0090 \quad (+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.620 \pm 0.014 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1384 \pm 42 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.009 \pm 0.020 \quad (-0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6753 \pm 0.0023 \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.5\sigma)$	$\langle d^2\rangle^{1/2}$	$2.483 \pm 0.044 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.483 \pm 0.011 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 9 \quad (-0.6\sigma)$	$z_{\rm re}$	$10.3^{+1.8}_{-1.6} \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.620 \pm 0.016 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$10^9A_{\rm s}$	$2.212 \pm 0.086 \quad (-0.1\sigma)$	f_{2000}^{143}	$29 \pm 4 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	$1.876 \pm 0.024 \quad (-0.3\sigma)$	f_{2000}^{217}	$106.9 \pm 2.6 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.11^{+1.1}_{-2.8} \quad (-1.0\sigma)$	D_{40}	$1223 \pm 17 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$32.3 \pm 2.9 \quad (-0.3\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.10}_{-0.12}$	D_{220}	$5697 \pm 41 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.3 \pm 2.5 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.596 \quad (-0.2\sigma)$	D_{810}	$2531 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{\rm CamSpec}$	8061.3 ± 6.2
$\boldsymbol{A^{kSZ}}$	$> 4.17 \quad (+0.7\sigma)$	D_{1420}	$814.0 \pm 5.3 \quad (-0.0\sigma)$	$\chi^2_{\rm 6DF}$	$0.065 \pm 0.088 \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{\rm s,0.002}$	$0.9721 \pm 0.0090 \quad (+0.1\sigma)$	$\chi^2_{\rm MGS}$	$1.47 \pm 0.64 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$Y_{\rm P}$	$0.251^{+0.032}_{-0.029} \quad (+0.0\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.98 \pm 0.80 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.78 \pm 0.38 \quad (+0.1\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.68 \pm 0.64 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	$1090.15 \pm 0.68 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.46 \pm 3.4 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99675 \pm 0.00097 \quad (-1.5\sigma)$	r_*	$144.6 \pm 3.9 \quad (+0.1\sigma)$	$\chi^2_{\rm CMB}$	$18557.6 \pm 6.1 \quad (+1272.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	$100\theta_*$	$1.0412 \pm 0.0013 \quad (+0.1\sigma)$	$\chi^2_{\rm BAO}$	$5.19 \pm 1.2 \quad (+0.0\sigma)$
$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	$z_{\rm drag}$	$1060.0 \pm 1.1 \quad (-0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18571.22$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.88$; $R - 1 = 0.01204$

16.13 base_nnu_yhe_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02241 \pm 0.00032 \quad (-0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.0408 \pm 0.0011 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1217^{+0.0059}_{-0.0069} \quad (-0.1\sigma)$	H_0	$69.2 \pm 2.5 \quad (-0.0\sigma)$	$z_{\rm drag}$	$1060.2 \pm 1.3 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.0407 \pm 0.0017 \quad (+0.1\sigma)$	Ω_Λ	$0.697^{+0.018}_{-0.015} \quad (+0.1\sigma)$	$r_{\rm drag}$	$145.7 \pm 3.5 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.085 \pm 0.021 \quad (-0.0\sigma)$	$\Omega_{\rm m}$	$0.303^{+0.015}_{-0.018} \quad (-0.1\sigma)$	$k_{\rm D}$	$0.1419 \pm 0.0034 \quad (-0.1\sigma)$
$\boldsymbol{N_{eff}}$	$3.26 \pm 0.41 \quad (-0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1448^{+0.0060}_{-0.0069} \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16122 \pm 0.00077 \quad (-0.1\sigma)$
$\boldsymbol{Y_P}$	$0.243 \pm 0.029 \quad (-0.0\sigma)$	$\Omega_{\rm m}h^3$	$0.1003^{+0.0071}_{-0.0080} \quad (-0.1\sigma)$	$z_{\rm eq}$	$3348 \pm 64 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.105 \pm 0.043 \quad (-0.1\sigma)$	σ_8	$0.838 \pm 0.021 \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.823 \pm 0.012 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.976 \pm 0.012 \quad (+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.461 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07207 \pm 0.00090 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.622 \pm 0.014 \quad (-0.2\sigma)$	$H(0.57)$	$94.6 \pm 2.6 \quad (-0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.008 \pm 0.020 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1362 \pm 43 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 9 \quad (-0.6\sigma)$	$\langle d^2\rangle^{1/2}$	$2.477 \pm 0.047 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6738 \pm 0.0041 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$10.5 \pm 1.9 \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.485 \pm 0.011 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.233^{+0.091}_{-0.10} \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.626 \pm 0.018 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.16^{+1.3}_{-2.6} \quad (-0.9\sigma)$	$10^9 A_{\rm s}e^{-2\tau}$	$1.883 \pm 0.022 \quad (-0.3\sigma)$	f_{2000}^{143}	$29 \pm 4 \quad (-0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{40}	$1220 \pm 20 \quad (-0.4\sigma)$	f_{2000}^{217}	$106.8 \pm 2.7 \quad (+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.592 \quad (-0.2\sigma)$	D_{220}	$5700 \pm 41 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$32.2 \pm 3.0 \quad (-0.3\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.51^{+4.3}_{-1.6} \quad (+0.6\sigma)$	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.4 \pm 2.7 \quad (-0.2\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.1 \pm 5.4 \quad (-0.0\sigma)$	$\chi^2_{\rm CamSpec}$	8061.8 ± 6.4
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.976 \pm 0.012 \quad (+0.1\sigma)$	$\chi^2_{\rm H070p6}$	$0.8 \pm 1.0 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.243 \pm 0.029 \quad (-0.0\sigma)$	$\chi^2_{\rm prior}$	$8.44 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.60 \pm 0.35 \quad (+0.1\sigma)$	$\chi^2_{\rm CMB}$	$18558.2 \pm 6.2 \quad (+1261.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00098 \quad (-1.4\sigma)$	z_*	$1090.05 \pm 0.69 \quad (-0.1\sigma)$		
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$143.0 \pm 3.4 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18567.40$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.96$; $R - 1 = 0.01141$

16.14 base_nnu_yhe_CamSpecHM_TT_lowTEB_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00025 \quad (-0.0\sigma)$	Ω_Λ	$0.6943 \pm 0.0081 \quad (+0.0\sigma)$	$100\theta_{\rm D}$	$0.16118 \pm 0.00073 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1216^{+0.0060}_{-0.0069} \quad (-0.1\sigma)$	$\Omega_{\rm m}$	$0.3057 \pm 0.0081 \quad (-0.0\sigma)$	$z_{\rm eq}$	$3359 \pm 39 \quad (+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.0407 \pm 0.0017 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1447^{+0.0060}_{-0.0069} \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8211 \pm 0.0066 \quad (+0.0\sigma)$
$\boldsymbol{\tau}$	$0.083 \pm 0.019 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.0996^{+0.0064}_{-0.0075} \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07189 \pm 0.00044 \quad (+0.0\sigma)$
$\boldsymbol{N_{eff}}$	$3.23^{+0.37}_{-0.42} \quad (-0.1\sigma)$	σ_8	$0.837 \pm 0.019 \quad (-0.1\sigma)$	$H(0.57)$	$94.3 \pm 2.3 \quad (-0.1\sigma)$
$\boldsymbol{Y_P}$	$0.243 \pm 0.029 \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.463 \pm 0.011 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1367 \pm 35 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.100 \pm 0.038 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.622 \pm 0.014 \quad (-0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6745 \pm 0.0021 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.9741 \pm 0.0086 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.009 \pm 0.020 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.485 \pm 0.011 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.481 \pm 0.044 \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.624 \pm 0.015 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.5\sigma)$	$z_{\rm re}$	$10.3^{+1.8}_{-1.6} \quad (-0.0\sigma)$	f_{2000}^{143}	$29 \pm 4 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 9 \quad (-0.6\sigma)$	$10^9 A_{\rm s}$	$2.222 \pm 0.085 \quad (-0.1\sigma)$	f_{2000}^{217}	$106.8 \pm 2.6 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.883 \pm 0.022 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.2 \pm 2.9 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	D_{40}	$1222 \pm 17 \quad (-0.4\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.2 \pm 2.5 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.13^{+1.2}_{-2.7} \quad (-1.0\sigma)$	D_{220}	$5699 \pm 41 \quad (-0.5\sigma)$	$\chi^2_{\rm CamSpec}$	8061.4 ± 6.2
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{\rm H070p6}$	$0.61 \pm 0.73 \quad (+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.598 \quad (-0.2\sigma)$	D_{1420}	$814.0 \pm 5.3 \quad (-0.0\sigma)$	$\chi^2_{\rm JLA}$	$706.66 \pm 0.18 \quad (-0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.19 \quad (+0.7\sigma)$	$n_{\rm s,0.002}$	$0.9741 \pm 0.0086 \quad (+0.2\sigma)$	$\chi^2_{\rm 6DF}$	$0.046 \pm 0.064 \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$Y_{\rm P}$	$0.243 \pm 0.029 \quad (+0.0\sigma)$	$\chi^2_{\rm MGS}$	$1.66 \pm 0.62 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Age/Gyr	$13.64 \pm 0.32 \quad (+0.1\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.92 \pm 0.71 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	z_*	$1090.08 \pm 0.67 \quad (-0.1\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.49 \pm 0.49 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	r_*	$143.2 \pm 3.3 \quad (+0.1\sigma)$	$\chi^2_{\rm prior}$	$8.45 \pm 3.4 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99676 \pm 0.00098 \quad (-1.5\sigma)$	$100\theta_*$	$1.0408 \pm 0.0011 \quad (+0.1\sigma)$	$\chi^2_{\rm CMB}$	$18557.6 \pm 6.1 \quad (+1277.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	$z_{\rm drag}$	$1060.1 \pm 1.1 \quad (-0.0\sigma)$	$\chi^2_{\rm BAO}$	$5.12 \pm 1.1 \quad (+0.0\sigma)$
$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	$r_{\rm drag}$	$145.9 \pm 3.4 \quad (+0.1\sigma)$		
H_0	$68.8 \pm 1.9 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.1417 \pm 0.0033 \quad (-0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 19278.44$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.93$; $R - 1 = 0.01439$

16.15 base_nnu_yhe_CamSpecHM_TT_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02232 \pm 0.00035 \quad (-0.0\sigma)$	$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	$100\theta_*$	$1.0413 \pm 0.0013 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1187^{+0.0064}_{-0.0079} \quad (-0.1\sigma)$	H_0	$68.3^{+3.2}_{-3.7} \quad (-0.1\sigma)$	$z_{\rm drag}$	$1059.8 \pm 1.3 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.0412 \pm 0.0018 \quad (+0.1\sigma)$	Ω_Λ	$0.695 \pm 0.020 \quad (-0.0\sigma)$	$r_{\rm drag}$	$147.5 \pm 4.4 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.071 \pm 0.019 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.305 \pm 0.020 \quad (+0.0\sigma)$	$k_{\rm D}$	$0.1404^{+0.0038}_{-0.0045} \quad (-0.1\sigma)$
$\boldsymbol{N_{eff}}$	$3.09^{+0.46}_{-0.58} \quad (-0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1417^{+0.0065}_{-0.0080} \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16112 \pm 0.00077 \quad (-0.1\sigma)$
$\boldsymbol{Y_P}$	$0.247^{+0.033}_{-0.028} \quad (-0.0\sigma)$	$\Omega_{\rm m}h^3$	$0.0969^{+0.0081}_{-0.011} \quad (-0.1\sigma)$	$z_{\rm eq}$	$3357 \pm 80 \quad (+0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.070 \pm 0.042 \quad (-0.0\sigma)$	σ_8	$0.819^{+0.021}_{-0.023} \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.822 \pm 0.015 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.972 \pm 0.014 \quad (+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.4519 \pm 0.0090 \quad (+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0720 \pm 0.0011 \quad (-0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.608 \pm 0.010 \quad (-0.0\sigma)$	$H(0.57)$	$93.4^{+3.2}_{-3.8} \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$0.992 \pm 0.012 \quad (+0.1\sigma)$	$D_{\rm A}(0.57)$	$1380 \pm 58 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 9 \quad (-0.6\sigma)$	$\langle d^2\rangle^{1/2}$	$2.444 \pm 0.030 \quad (-0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6743 \pm 0.0050 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.21 \pm 1.8 \quad (+0.1\sigma)$	$f\sigma_8(0.57)$	$0.4742 \pm 0.0087 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.157^{+0.086}_{-0.099} \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.611^{+0.019}_{-0.022} \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.11^{+1.2}_{-2.7} \quad (-0.9\sigma)$	$10^9 A_{\rm s}e^{-2\tau}$	$1.870 \pm 0.025 \quad (-0.3\sigma)$	f_{2000}^{143}	$30 \pm 4 \quad (-0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	D_{40}	$1216 \pm 20 \quad (-0.3\sigma)$	f_{2000}^{217}	$106.9 \pm 2.7 \quad (+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.581 \quad (-0.2\sigma)$	D_{220}	$5696 \pm 41 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$32.4 \pm 3.0 \quad (-0.3\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.32 \quad (+0.6\sigma)$	D_{810}	$2529 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{\rm lensing}$	$9.92 \pm 1.4 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.0 \pm 5.3 \quad (-0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.2 \pm 1.9 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	$0.972 \pm 0.014 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8063.1 ± 6.1
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$Y_{\rm P}$	$0.247^{+0.033}_{-0.028} \quad (-0.0\sigma)$	$\chi^2_{\rm prior}$	$8.43 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.77 \pm 0.47 \quad (+0.1\sigma)$	$\chi^2_{\rm CMB}$	$18568.2 \pm 6.1 \quad (+1244.6\sigma)$
$\boldsymbol{c_{100}}$	$0.99675 \pm 0.00098 \quad (-1.4\sigma)$	z_*	$1089.99 \pm 0.70 \quad (-0.1\sigma)$		
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$144.8 \pm 4.3 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18576.67$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.25$; $R - 1 = 0.01746$

16.16 base_nnu_yhe_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022229	0.02223 ± 0.00024 $(+0.1\sigma)$	$\boldsymbol{c_{TE}}$	1.00470	1.0044 ± 0.0047	z_*	1090.05	1089.92 ± 0.54 (-0.7σ)
$\boldsymbol{\Omega_c h^2}$	0.11293	$0.1135^{+0.0042}_{-0.0048}$ (-0.4σ)	$\boldsymbol{c_{EE}}$	1.0017	1.0009 ± 0.0055	r_*	148.58	148.3 ± 2.8 $(+0.4\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04246	1.0422 ± 0.0013 $(+0.2\sigma)$	$\boldsymbol{\beta_1^1}$	-0.13	-0.1 ± 1.0	$100\theta_*$	1.04229	1.04218 ± 0.00095 $(+0.3\sigma)$
$\boldsymbol{\tau}$	0.0752	0.075 ± 0.018 (-0.3σ)	H_0	65.20	65.4 ± 1.8 (-0.2σ)	$z_{\rm drag}$	1059.59	1059.45 ± 0.98 (-0.2σ)
$\boldsymbol{N_{eff}}$	2.618	$2.66^{+0.27}_{-0.31}$ (-0.3σ)	Ω_Λ	0.6806	0.681 ± 0.012 $(+0.1\sigma)$	$r_{\rm drag}$	151.36	151.1 ± 2.9 $(+0.4\sigma)$
$\boldsymbol{Y_P}$	0.2643	0.259 ± 0.020 (-0.1σ)	$\Omega_{\rm m}$	0.3194	0.319 ± 0.012 (-0.1σ)	$k_{\rm D}$	0.13704	$0.1374^{+0.0024}_{-0.0026}$ (-0.3σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0699	3.070 ± 0.038 (-0.5σ)	$\Omega_{\rm m}h^2$	0.13580	$0.1364^{+0.0042}_{-0.0049}$ (-0.4σ)	$100\theta_{\rm D}$	0.16081	0.16067 ± 0.00063 (-0.7σ)
$\boldsymbol{n_s}$	0.9616	0.9613 ± 0.0099 (-0.1σ)	$\Omega_{\rm m}h^3$	0.0885	$0.0892^{+0.0047}_{-0.0056}$ (-0.3σ)	$z_{\rm eq}$	3426.7	3423 ± 45 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00030	1.0003 ± 0.0025 (-0.1σ)	σ_8	0.8114	0.812 ± 0.018 (-0.6σ)	$100\theta_{\rm eq}$	0.8094	0.8100 ± 0.0082 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248.2	242 ± 23 (-0.6σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4586	0.4588 ± 0.0095 (-0.7σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07123	0.07124 ± 0.00059 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.5	38 ± 8 (-0.8σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6100	0.610 ± 0.012 (-0.7σ)	$H(0.57)$	90.28	90.5 ± 1.9 (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	97.2	100 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.0049	1.005 ± 0.017 (-0.6σ)	$D_{\rm A}(0.57)$	1434.1	1431 ± 35 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46.9	45 ± 7 (-2.9σ)	$\langle d^2\rangle^{1/2}$	2.4863	2.487 ± 0.040 (-0.6σ)	$F_{\rm AP}(0.57)$	0.67803	0.6780 ± 0.0030 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.31	$3.46^{+1.7}_{-2.5}$ (-1.0σ)	$z_{\rm re}$	9.67	$9.61^{+1.8}_{-1.6}$ (-0.3σ)	$f\sigma_8(0.57)$	0.4738	0.4741 ± 0.0093 (-0.7σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.419	0.52 ± 0.11	$10^9A_{\rm s}$	2.154	2.156 ± 0.081 (-0.5σ)	$\sigma_8(0.57)$	0.6018	0.602 ± 0.015 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9A_{\rm s}e^{-2\tau}$	1.8532	1.853 ± 0.020 (-0.8σ)	f_{2000}^{143}	29.16	28 ± 3 (-0.6σ)
$\boldsymbol{A^{kSZ}}$	4.92	—	D_{40}	1231.1	1233 ± 17 (-0.5σ)	f_{2000}^{217}	106.63	105.9 ± 2.4 (-0.1σ)
$\boldsymbol{A_{100}^{dust}}$	0.976	0.98 ± 0.19	D_{220}	5705.6	5706 ± 39 (-0.5σ)	$f_{2000}^{143\times217}$	31.66	31.1 ± 2.6 (-0.7σ)
$\boldsymbol{A_{143}^{dust}}$	1.033	1.02 ± 0.18	D_{810}	2527.4	2528 ± 14 (-0.5σ)	$\chi^2_{\rm lowTEB}$	10496.06	10497.0 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.224	1.22 ± 0.12	D_{1420}	814.43	815.3 ± 4.9 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	12933.3	12951.4 ± 6.3
$\boldsymbol{A_{143\times217}^{dust}}$	0.967	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9616	0.9613 ± 0.0099 (-0.1σ)	$\chi^2_{\rm prior}$	3.92	9.12 ± 3.6 (-1.8σ)
$\boldsymbol{c_{100}}$	0.99661	0.99676 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.2643	0.259 ± 0.020 (-0.1σ)	$\chi^2_{\rm CMB}$	23429.4	23448.5 ± 6.3 $(+1522.5\sigma)$
$\boldsymbol{c_{217}}$	0.99728	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	14.200	14.17 ± 0.29 $(+0.3\sigma)$			

Best-fit $\chi^2_{\rm eff} = 23433.29$; $\Delta\chi^2_{\rm eff} = 10499.00$; $\bar{\chi}^2_{\rm eff} = 23457.59$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.36$; $R - 1 = 0.00866$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.06 (Δ -1.23) CamSpec like_v9.10CMH_unified: 12933.32

16.17 base_nnu_yhe_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02232 \pm 0.00020 \quad (-0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	$150.5 \pm 2.7 \quad (+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1138^{+0.0042}_{-0.0048} \quad (-0.5\sigma)$	H_0	$66.1 \pm 1.5 \quad (-0.3\sigma)$	$k_{\rm D}$	$0.1378 \pm 0.0024 \quad (-0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.0422 \pm 0.0013 \quad (+0.2\sigma)$	Ω_Λ	$0.6867 \pm 0.0076 \quad (-0.0\sigma)$	$100\theta_{\rm D}$	$0.16079 \pm 0.00061 \quad (-0.6\sigma)$
$\boldsymbol{\tau}$	$0.080 \pm 0.017 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3133 \pm 0.0076 \quad (+0.0\sigma)$	$z_{\rm eq}$	$3402 \pm 33 \quad (+0.1\sigma)$
$\boldsymbol{N_{eff}}$	$2.72^{+0.26}_{-0.30} \quad (-0.4\sigma)$	$\Omega_{\rm m} h^2$	$0.1368^{+0.0042}_{-0.0048} \quad (-0.5\sigma)$	$100\theta_{\rm eq}$	$0.8139 \pm 0.0057 \quad (-0.0\sigma)$
$\boldsymbol{Y_P}$	$0.260 \pm 0.020 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.0904^{+0.0045}_{-0.0053} \quad (-0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07155 \pm 0.00039 \quad (+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.080 \pm 0.035 \quad (-0.6\sigma)$	σ_8	$0.816 \pm 0.017 \quad (-0.7\sigma)$	$H(0.57)$	$91.1 \pm 1.7 \quad (-0.4\sigma)$
$\boldsymbol{n_s}$	$0.9653 \pm 0.0078 \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4566 \pm 0.0089 \quad (-0.7\sigma)$	$D_{\rm A}(0.57)$	$1419 \pm 30 \quad (+0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.610 \pm 0.012 \quad (-0.7\sigma)$	$F_{\rm AP}(0.57)$	$0.6765 \pm 0.0019 \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$243 \pm 23 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.004 \pm 0.017 \quad (-0.6\sigma)$	$f\sigma_8(0.57)$	$0.4748 \pm 0.0092 \quad (-0.7\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.482 \pm 0.039 \quad (-0.6\sigma)$	$\sigma_8(0.57)$	$0.607 \pm 0.013 \quad (-0.7\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$z_{\rm re}$	$9.99^{+1.6}_{-1.4} \quad (-0.4\sigma)$	f_{2000}^{143}	$28 \pm 3 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.8\sigma)$	$10^9 A_{\rm s}$	$2.177 \pm 0.075 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.0 \pm 2.4 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.43^{+1.6}_{-2.6} \quad (-1.0\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.856 \pm 0.020 \quad (-0.8\sigma)$	$f_{2000}^{143\times217}$	$31.3 \pm 2.6 \quad (-0.6\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{40}	$1228 \pm 15 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.6 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	$5709 \pm 39 \quad (-0.5\sigma)$	$\chi^2_{\rm CamSpec}$	12951.6 ± 6.4
$\boldsymbol{A^{kSZ}}$	—	D_{810}	$2528 \pm 14 \quad (-0.5\sigma)$	$\chi^2_{\rm 6DF}$	$0.081 \pm 0.093 \quad (-0.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{1420}	$815.2 \pm 4.9 \quad (+0.1\sigma)$	$\chi^2_{\rm MGS}$	$1.18 \pm 0.48 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.9653 \pm 0.0078 \quad (-0.2\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.92 \pm 0.72 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$Y_{\rm P}$	$0.260 \pm 0.020 \quad (-0.0\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.92 \pm 0.63 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	$14.10 \pm 0.26 \quad (+0.4\sigma)$	$\chi^2_{\rm prior}$	$9.19 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00098 \quad (-1.8\sigma)$	z_*	$1089.90 \pm 0.54 \quad (-0.6\sigma)$	$\chi^2_{\rm CMB}$	$23448.2 \pm 6.2 \quad (+1093.1\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$147.8 \pm 2.7 \quad (+0.4\sigma)$	$\chi^2_{\rm BAO}$	$5.10 \pm 1.1 \quad (-0.1\sigma)$
$\boldsymbol{c_{TE}}$	1.0046 ± 0.0048	$100\theta_*$	$1.04209 \pm 0.00093 \quad (+0.4\sigma)$		
$\boldsymbol{c_{EE}}$	1.0016 ± 0.0053	$z_{\rm drag}$	$1059.74 \pm 0.86 \quad (-0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23462.48$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.97$; $R - 1 = 0.01137$

16.18 base_nnu_yhe_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02233 \pm 0.00023 \quad (+0.1\sigma)$	$\boldsymbol{c_{TE}}$	1.0045 ± 0.0048	z_*	$1089.88 \pm 0.54 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1158^{+0.0041}_{-0.0047} \quad (-0.4\sigma)$	$\boldsymbol{c_{EE}}$	1.0012 ± 0.0054	r_*	$146.7 \pm 2.6 \quad (+0.4\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.0417 \pm 0.0012 \quad (+0.2\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04170 \pm 0.00089 \quad (+0.3\sigma)$
$\boldsymbol{\tau}$	$0.079 \pm 0.018 \quad (-0.3\sigma)$	H_0	$66.6^{+1.6}_{-1.8} \quad (-0.2\sigma)$	$z_{\rm drag}$	$1059.78 \pm 0.95 \quad (-0.2\sigma)$
$\boldsymbol{N_{eff}}$	$2.84^{+0.26}_{-0.30} \quad (-0.3\sigma)$	Ω_Λ	$0.687 \pm 0.011 \quad (+0.1\sigma)$	$r_{\rm drag}$	$149.4 \pm 2.6 \quad (+0.4\sigma)$
$\boldsymbol{Y_P}$	$0.254 \pm 0.020 \quad (-0.1\sigma)$	$\Omega_{\rm m}$	$0.313 \pm 0.011 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.1388^{+0.0022}_{-0.0025} \quad (-0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.082 \pm 0.037 \quad (-0.5\sigma)$	$\Omega_{\rm m} h^2$	$0.1388^{+0.0041}_{-0.0047} \quad (-0.4\sigma)$	$100\theta_{\rm D}$	$0.16077 \pm 0.00063 \quad (-0.6\sigma)$
$\boldsymbol{n_s}$	$0.9661 \pm 0.0094 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.0925^{+0.0045}_{-0.0054} \quad (-0.4\sigma)$	$z_{\rm eq}$	$3396 \pm 42 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	σ_8	$0.820 \pm 0.017 \quad (-0.6\sigma)$	$100\theta_{\rm eq}$	$0.8148 \pm 0.0076 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$243 \pm 23 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4584 \pm 0.0095 \quad (-0.7\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07155^{+0.00054}_{-0.00060} \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.613 \pm 0.012 \quad (-0.7\sigma)$	$H(0.57)$	$91.8 \pm 1.8 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.004 \pm 0.017 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1408 \pm 31 \quad (+0.3\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.482 \pm 0.040 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6764 \pm 0.0027 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.45^{+1.6}_{-2.6} \quad (-1.0\sigma)$	$z_{\rm re}$	$9.91^{+1.7}_{-1.6} \quad (-0.3\sigma)$	$f\sigma_8(0.57)$	$0.4769 \pm 0.0091 \quad (-0.7\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.13}$	$10^9 A_{\rm s}$	$2.182 \pm 0.080 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.610 \pm 0.014 \quad (-0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.614 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.863 \pm 0.019 \quad (-0.8\sigma)$	f_{2000}^{143}	$28 \pm 3 \quad (-0.5\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{40}	$1229 \pm 17 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.0 \pm 2.4 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5710 \pm 39 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$31.2 \pm 2.6 \quad (-0.6\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2529 \pm 14 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.7 \pm 2.3 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$815.2 \pm 4.8 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	12952.3 ± 6.6
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9661 \pm 0.0094 \quad (-0.0\sigma)$	$\chi^2_{\rm H070p6}$	$1.70 \pm 1.2 \quad (+0.2\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00098 \quad (-1.7\sigma)$	$Y_{\rm P}$	$0.254 \pm 0.020 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$9.18 \pm 3.6 \quad (-1.8\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.99 \pm 0.26 \quad (+0.3\sigma)$	$\chi^2_{\rm CMB}$	$23449.0 \pm 6.5 \quad (+1112.4\sigma)$

$\bar{\chi}^2_{\rm eff} = 23459.86$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.58$; $R - 1 = 0.01120$

16.19 base_nnu_yhe_CamSpecHM_TTTEEE_lowTEB_post_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02238 ± 0.00019 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	149.2 ± 2.5 $(+0.5\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1158^{+0.0041}_{-0.0047}$ (-0.5σ)	H_0	66.9 ± 1.4 (-0.4σ)	$k_{\rm D}$	$0.1389^{+0.0022}_{-0.0025}$ (-0.3σ)
$\boldsymbol{100\theta_{MC}}$	1.0417 ± 0.0012 $(+0.2\sigma)$	Ω_Λ	0.6901 ± 0.0070 $(+0.0\sigma)$	$100\theta_{\rm D}$	0.16083 ± 0.00061 (-0.6σ)
$\boldsymbol{\tau}$	0.081 ± 0.017 (-0.3σ)	$\Omega_{\rm m}$	0.3099 ± 0.0070 (-0.0σ)	$z_{\rm eq}$	3386 ± 31 $(+0.1\sigma)$
$\boldsymbol{N_{\rm eff}}$	$2.86^{+0.25}_{-0.28}$ (-0.4σ)	$\Omega_{\rm m} h^2$	$0.1388^{+0.0041}_{-0.0047}$ (-0.5σ)	$100\theta_{\rm eq}$	0.8167 ± 0.0053 (-0.0σ)
$\boldsymbol{Y_P}$	$0.255^{+0.022}_{-0.020}$ (-0.0σ)	$\Omega_{\rm m} h^3$	$0.0930^{+0.0044}_{-0.0051}$ (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07170 ± 0.00037 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.086 ± 0.034 (-0.5σ)	σ_8	0.821 ± 0.016 (-0.7σ)	$H(0.57)$	92.0 ± 1.6 (-0.4σ)
$\boldsymbol{n_s}$	0.9681 ± 0.0075 (-0.1σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4571 ± 0.0089 (-0.7σ)	$D_{\rm A}(0.57)$	1403 ± 27 $(+0.4\sigma)$
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.613 ± 0.012 (-0.7σ)	$F_{\rm AP}(0.57)$	0.6756 ± 0.0018 (-0.0σ)
$\boldsymbol{A_{100}^{PS}}$	244 ± 23 (-0.6σ)	$\sigma_8/h^{0.5}$	1.004 ± 0.017 (-0.6σ)	$f\sigma_8(0.57)$	0.4770 ± 0.0090 (-0.7σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.7σ)	$\langle d^2 \rangle^{1/2}$	2.479 ± 0.039 (-0.6σ)	$\sigma_8(0.57)$	0.611 ± 0.013 (-0.7σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	$10.1^{+1.6}_{-1.4}$ (-0.4σ)	f_{2000}^{143}	28 ± 3 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$10^9 A_{\rm s}$	2.191 ± 0.075 (-0.5σ)	f_{2000}^{217}	106.0 ± 2.4 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.43^{+1.6}_{-2.6}$ (-1.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.863 ± 0.019 (-0.8σ)	$f_{2000}^{143\times217}$	31.3 ± 2.6 (-0.6σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.13}$	D_{40}	1226 ± 15 (-0.5σ)	$\chi^2_{\rm lowTEB}$	10496.5 ± 2.3 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	5711 ± 38 (-0.5σ)	$\chi^2_{\rm CamSpec}$	12952.3 ± 6.5
$\boldsymbol{A^{kSZ}}$	—	D_{810}	2529 ± 14 (-0.5σ)	$\chi^2_{\rm H070p6}$	1.39 ± 0.94 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	D_{1420}	815.1 ± 4.8 $(+0.1\sigma)$	$\chi^2_{\rm JLA}$	706.74 ± 0.19 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	0.9681 ± 0.0075 (-0.1σ)	$\chi^2_{\rm 6DF}$	0.050 ± 0.065 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$Y_{\rm P}$	$0.255^{+0.022}_{-0.020}$ (-0.0σ)	$\chi^2_{\rm MGS}$	1.38 ± 0.49 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	13.96 ± 0.24 $(+0.4\sigma)$	$\chi^2_{\rm DR11CMASS}$	2.76 ± 0.52 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.8σ)	z_*	1089.87 ± 0.54 (-0.6σ)	$\chi^2_{\rm DR11LOWZ}$	0.67 ± 0.51 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	r_*	146.5 ± 2.5 $(+0.5\sigma)$	$\chi^2_{\rm prior}$	9.21 ± 3.7 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0045 ± 0.0048	$100\theta_*$	1.04169 ± 0.00088 $(+0.4\sigma)$	$\chi^2_{\rm CMB}$	23448.8 ± 6.3 $(+1525.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0017 ± 0.0053	$z_{\rm drag}$	1059.92 ± 0.85 (-0.3σ)	$\chi^2_{\rm BAO}$	4.87 ± 0.77 (-0.1σ)

$\bar{\chi}^2_{\rm eff} = 24170.97$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.47$; $R - 1 = 0.01445$

16.20 base_nnu_yhe_CamSpecHM_TTTEEE_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02220 ± 0.00024 $(+0.1\sigma)$	$\boldsymbol{c_{TE}}$	1.0052 ± 0.0047	z_*	1089.87 ± 0.53 (-0.6σ)
$\boldsymbol{\Omega_c h^2}$	$0.1129^{+0.0041}_{-0.0046}$ (-0.4σ)	$\boldsymbol{c_{EE}}$	1.0010 ± 0.0054	r_*	148.6 ± 2.7 $(+0.4\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.0423 ± 0.0013 $(+0.2\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04229 ± 0.00093 $(+0.3\sigma)$
$\boldsymbol{\tau}$	0.064 ± 0.014 $(+0.1\sigma)$	H_0	65.3 ± 1.8 (-0.2σ)	$z_{\rm drag}$	1059.33 ± 0.97 (-0.1σ)
$\boldsymbol{N_{eff}}$	$2.63^{+0.27}_{-0.31}$ (-0.3σ)	Ω_Λ	0.682 ± 0.012 $(+0.0\sigma)$	$r_{\rm drag}$	151.4 ± 2.8 $(+0.4\sigma)$
$\boldsymbol{Y_P}$	0.259 ± 0.020 (-0.0σ)	$\Omega_{\rm m}$	0.318 ± 0.012 (-0.0σ)	$k_{\rm D}$	0.1372 ± 0.0024 (-0.3σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.044 ± 0.030 (-0.1σ)	$\Omega_{\rm m} h^2$	$0.1358^{+0.0041}_{-0.0047}$ (-0.4σ)	$100\theta_{\rm D}$	0.16065 ± 0.00063 (-0.6σ)
$\boldsymbol{n_s}$	0.9607 ± 0.0097 (-0.0σ)	$\Omega_{\rm m} h^3$	$0.0887^{+0.0046}_{-0.0056}$ (-0.3σ)	$z_{\rm eq}$	3419 ± 45 $(+0.0\sigma)$
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.1σ)	σ_8	0.800 ± 0.014 (-0.3σ)	$100\theta_{\rm eq}$	0.8108 ± 0.0081 $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{100}}$	243 ± 23 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4514 ± 0.0067 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07131 ± 0.00059 $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{143}}$	38 ± 8 (-0.8σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6010 ± 0.0081 (-0.5σ)	$H(0.57)$	$90.4^{+1.8}_{-2.1}$ (-0.3σ)
$\boldsymbol{A^{PS}_{217}}$	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.990 ± 0.011 (-0.3σ)	$D_{\rm A}(0.57)$	1433 ± 35 $(+0.2\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.454 ± 0.026 (-0.2σ)	$F_{\rm AP}(0.57)$	0.6778 ± 0.0029 (-0.0σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.41^{+1.5}_{-2.6}$ (-0.9σ)	$z_{\rm re}$	$8.50^{+1.5}_{-1.3}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4669 ± 0.0067 (-0.4σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.52^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	2.101 ± 0.062 (-0.1σ)	$\sigma_8(0.57)$	0.594 ± 0.012 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.607 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.849 ± 0.020 (-0.7σ)	f^{143}_{2000}	28 ± 3 (-0.6σ)
$\boldsymbol{A^{kSZ}}$	$5.20^{+3.6}_{-2.6}$ $(+0.6\sigma)$	D_{40}	1227 ± 16 (-0.4σ)	f^{217}_{2000}	106.1 ± 2.4 (-0.2σ)
$\boldsymbol{A^{dust}_{100}}$	0.98 ± 0.19	D_{220}	5702 ± 39 (-0.5σ)	$f^{143\times217}_{2000}$	31.3 ± 2.6 (-0.7σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	D_{810}	2526 ± 14 (-0.5σ)	$\chi^2_{\rm lensing}$	9.71 ± 1.4 (-0.4σ)
$\boldsymbol{A^{dust}_{217}}$	1.21 ± 0.12	D_{1420}	815.2 ± 4.9 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10495.9 ± 1.7 (-0.3σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.99 ± 0.18	$n_{\rm s,0.002}$	0.9607 ± 0.0097 (-0.0σ)	$\chi^2_{\rm CamSpec}$	12952.6 ± 6.4
$\boldsymbol{c_{100}}$	0.99672 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.259 ± 0.020 (-0.0σ)	$\chi^2_{\rm prior}$	9.22 ± 3.6 (-1.8σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	14.20 ± 0.29 $(+0.3\sigma)$	$\chi^2_{\rm CMB}$	23458.2 ± 6.4 $(+1462.1\sigma)$

$\bar{\chi}^2_{\rm eff} = 23467.39$; $\Delta\bar{\chi}^2_{\rm eff} = 10487.40$; $R - 1 = 0.01179$

17 nrun

17.1 base_nrun_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022366	0.02236 ± 0.00027	Ω_m	0.3128	0.313 ± 0.014	D_A/Gpc	13.8841	13.883 ± 0.047
$\boldsymbol{\Omega_c h^2}$	0.11956	0.1196 ± 0.0023	$\Omega_m h^2$	0.14257	0.1426 ± 0.0021	z_{drag}	1059.89	1059.88 ± 0.56
$\boldsymbol{100\theta_{MC}}$	1.040925	1.04093 ± 0.00049	$\Omega_m h^3$	0.09624	0.09624 ± 0.00053	r_{drag}	147.21	147.21 ± 0.51
$\boldsymbol{\tau}$	0.0872	$0.088^{+0.021}_{-0.024}$	σ_8	0.8354	0.836 ± 0.016	k_D	0.14074	0.14073 ± 0.00057
$\boldsymbol{\ln(10^{10} A_s)}$	3.1097	$3.111^{+0.042}_{-0.047}$	$\sigma_8 \Omega_m^{0.5}$	0.4673	0.468 ± 0.014	$100\theta_D$	0.160779	0.16079 ± 0.00032
$\boldsymbol{n_s}$	0.9658	0.9651 ± 0.0066	$\sigma_8 \Omega_m^{0.25}$	0.6248	0.625 ± 0.014	z_{eq}	3392	3393 ± 51
$\boldsymbol{dn_s/d\ln k}$	-0.0071	-0.0084 ± 0.0082	$\sigma_8/h^{0.5}$	1.0168	1.017 ± 0.021	k_{eq}	0.010351	0.01036 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00034	1.0004 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.5035	2.505 ± 0.047	$100\theta_{eq}$	0.8152	0.8151 ± 0.0097
$\boldsymbol{A_{217}^{CIB}}$	67.8	64.6 ± 6.7	z_{re}	10.76	10.7 ± 1.9	$100\theta_{s,eq}$	0.45038	0.4503 ± 0.0049
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.241	$2.247^{+0.091}_{-0.11}$	$r_{drag}/D_V(0.57)$	0.07149	0.07148 ± 0.00077
$\boldsymbol{A_{143}^{tSZ}}$	7.11	4.92 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8829	1.884 ± 0.014	$H(0.57)$	93.011	93.01 ± 0.45
$\boldsymbol{A_{100}^{PS}}$	255.3	261 ± 28	D_{40}	1221.9	1222 ± 22	$D_A(0.57)$	1388.6	1389 ± 14
$\boldsymbol{A_{143}^{PS}}$	39.9	45 ± 8	D_{220}	5720.0	5721 ± 41	$F_{AP}(0.57)$	0.67637	0.6765 ± 0.0035
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	39^{+10}_{-10}	D_{810}	2536.7	2537 ± 14	$f\sigma_8(0.57)$	0.4861	0.486 ± 0.010
$\boldsymbol{A_{217}^{PS}}$	97.1	97 ± 10	D_{1420}	814.1	813.4 ± 5.2	$\sigma_8(0.57)$	0.6212	$0.621^{+0.012}_{-0.014}$
$\boldsymbol{A^{kSZ}}$	0.00	< 5.12	D_{2000}	230.12	229.8 ± 2.0	f_{2000}^{143}	30.26	30.9 ± 3.1
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.49 ± 1.9	$n_{s,0.002}$	0.9888	0.992 ± 0.027	$f_{2000}^{143\times217}$	32.77	33.1 ± 2.3
$\boldsymbol{A_{143}^{dustTT}}$	9.08	9.03 ± 1.8	Y_P	0.245391	0.24539 ± 0.00012	f_{2000}^{217}	106.35	106.6 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.75	17.2 ± 4.2	Y_P^{BBN}	0.246718	0.24671 ± 0.00012	χ^2_{lowTEB}	10495.01	10496.2 ± 2.9
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	10^5D/H	2.592	2.594 ± 0.051	χ^2_{plik}	764.1	778.6 ± 5.9
$\boldsymbol{c_{100}}$	0.99793	0.99792 ± 0.00077	Age/Gyr	13.7959	13.796 ± 0.043	χ^2_{prior}	2.03	7.30 ± 3.5
$\boldsymbol{c_{217}}$	0.99604	0.9960 ± 0.0014	z_*	1089.885	1089.90 ± 0.48	χ^2_{CMB}	11259.1	11274.8 ± 5.7
H_0	67.51	67.5 ± 1.0	r_*	144.55	144.54 ± 0.51			
Ω_Λ	0.6872	$0.687^{+0.015}_{-0.014}$	$100\theta_*$	1.041110	1.04111 ± 0.00047			

Best-fit $\chi^2_{eff} = 11261.11$; $\bar{\chi}^2_{eff} = 11282.07$; $R - 1 = 0.00699$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.01 plik_dx11dr2_HM_v18_TT: 764.08

17.2 base_nrun_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022430	0.02240 ± 0.00024	$\Omega_m h^2$	0.14202	0.1421 ± 0.0012	r_{drag}	147.303	147.33 ± 0.38
$\boldsymbol{\Omega_c h^2}$	0.11894	0.1190 ± 0.0013	$\Omega_m h^3$	0.09630	0.09625 ± 0.00053	k_D	0.14069	0.14064 ± 0.00052
$\boldsymbol{100\theta_{MC}}$	1.041010	1.04101 ± 0.00042	σ_8	0.8371	0.836 ± 0.016	$100\theta_D$	0.160724	0.16077 ± 0.00031
$\boldsymbol{\tau}$	0.0922	0.090 ± 0.020	$\sigma_8\Omega_m^{0.5}$	0.4652	0.465 ± 0.011	z_{eq}	3378.4	3379 ± 30
$\boldsymbol{\ln(10^{10}A_s)}$	3.1187	3.115 ± 0.041	$\sigma_8\Omega_m^{0.25}$	0.6241	0.623 ± 0.013	k_{eq}	0.010311	0.010314 ± 0.000091
$\boldsymbol{n_s}$	0.96726	0.9666 ± 0.0047	$\sigma_8/h^{0.5}$	1.0166	1.015 ± 0.020	$100\theta_{eq}$	0.8178	0.8176 ± 0.0055
$\boldsymbol{dn_s/d\ln k}$	-0.0082	-0.0085 ± 0.0082	$\langle d^2\rangle^{1/2}$	2.5025	2.500 ± 0.044	$100\theta_{s,eq}$	0.45169	0.4516 ± 0.0029
$\boldsymbol{y_{cal}}$	1.00036	1.0004 ± 0.0025	z_{re}	11.17	11.0 ± 1.7	$r_{drag}/D_V(0.57)$	0.071706	0.07169 ± 0.00043
$\boldsymbol{A_{217}^{CIB}}$	67.5	64.5 ± 6.7	$10^9 A_s$	2.262	$2.256^{+0.088}_{-0.10}$	$H(0.57)$	93.143	93.12 ± 0.29
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8806	1.881 ± 0.012	$D_A(0.57)$	1384.6	1385.3 ± 8.0
$\boldsymbol{A_{143}^{tSZ}}$	7.18	4.94 ± 2.0	D_{40}	1218.5	1219 ± 20	$F_{AP}(0.57)$	0.67537	0.6755 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	254.5	261 ± 28	D_{220}	5723.0	5723 ± 40	$f\sigma_8(0.57)$	0.4860	0.4854 ± 0.0096
$\boldsymbol{A_{143}^{PS}}$	39.5	45^{+9}_{-8}	D_{810}	2536.4	2536 ± 14	$\sigma_8(0.57)$	0.6234	0.622 ± 0.012
$\boldsymbol{A_{143\times217}^{PS}}$	32.8	39^{+10}_{-10}	D_{1420}	814.3	813.7 ± 5.1	f_{2000}^{143}	30.08	30.7 ± 3.1
$\boldsymbol{A_{217}^{PS}}$	97.1	97 ± 10	D_{2000}	230.26	230.0 ± 1.9	$f_{2000}^{143\times217}$	32.62	32.9 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.00	< 5.07	$n_{s,0.002}$	0.9935	0.994 ± 0.026	f_{2000}^{217}	106.18	106.5 ± 2.1
$\boldsymbol{A_{100}^{dustTT}}$	7.49	7.48 ± 1.9	Y_P	0.245419	0.24540 ± 0.00011	χ^2_{lowTEB}	10495.11	10496.1 ± 2.8
$\boldsymbol{A_{143}^{dustTT}}$	9.09	9.02 ± 1.8	Y_P^{BBN}	0.246746	0.24673 ± 0.00011	χ^2_{plik}	764.1	778.0 ± 5.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.67	17.2 ± 4.2	10^5D/H	2.5801	2.587 ± 0.045	χ^2_{6DF}	0.0155	0.059 ± 0.078
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.5	Age/Gyr	13.7842	13.788 ± 0.032	χ^2_{MGS}	1.34	1.39 ± 0.55
$\boldsymbol{c_{100}}$	0.99794	0.99791 ± 0.00077	z_*	1089.753	1089.80 ± 0.34	$\chi^2_{DR11CMASS}$	2.434	2.90 ± 0.69
$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0015	r_*	144.659	144.67 ± 0.34	$\chi^2_{DR11LOWZ}$	0.547	0.72 ± 0.60
H_0	67.81	67.76 ± 0.58	$100\theta_*$	1.041191	1.04119 ± 0.00041	χ^2_{prior}	2.02	7.29 ± 3.5
Ω_Λ	0.6911	0.6905 ± 0.0077	D_A/Gpc	13.8936	13.894 ± 0.033	χ^2_{CMB}	11259.2	11274.1 ± 5.6
Ω_m	0.3089	0.3095 ± 0.0077	z_{drag}	1060.01	1059.93 ± 0.54	χ^2_{BAO}	4.34	5.06 ± 1.0

Best-fit $\chi^2_{eff} = 11265.56$; $\bar{\chi}^2_{eff} = 11286.45$; $R - 1 = 0.00796$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.43 DR11LOWZ: 0.55 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.11 plik_dx11dr2_HM_v18_TT: 764.09

17.3 base_nrun_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022402	0.02239 ± 0.00027	Ω_m	0.3106	0.311 ± 0.013	D_A/Gpc	13.8893	13.891 ± 0.044
$\boldsymbol{\Omega_c h^2}$	0.11922	0.1192 ± 0.0021	$\Omega_m h^2$	0.14226	0.1422 ± 0.0020	z_{drag}	1059.97	1059.92 ± 0.56
$\boldsymbol{100\theta_{MC}}$	1.040972	1.04098 ± 0.00047	$\Omega_m h^3$	0.09627	0.09625 ± 0.00053	r_{drag}	147.261	147.29 ± 0.49
$\boldsymbol{\tau}$	0.0895	$0.090^{+0.021}_{-0.024}$	σ_8	0.8361	0.836 ± 0.016	k_D	0.14071	0.14067 ± 0.00056
$\boldsymbol{\ln(10^{10} A_s)}$	3.1138	3.115 ± 0.043	$\sigma_8 \Omega_m^{0.5}$	0.4660	0.466 ± 0.013	$100\theta_D$	0.160748	0.16077 ± 0.00032
$\boldsymbol{n_s}$	0.9669	0.9662 ± 0.0063	$\sigma_8 \Omega_m^{0.25}$	0.6242	0.624 ± 0.014	z_{eq}	3384.2	3383 ± 47
$\boldsymbol{dn_s/d\ln k}$	-0.0077	-0.0086 ± 0.0082	$\sigma_8/h^{0.5}$	1.0163	1.016 ± 0.020	k_{eq}	0.010329	0.01033 ± 0.00014
$\boldsymbol{y_{cal}}$	1.00037	1.0004 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.5013	2.502 ± 0.046	$100\theta_{eq}$	0.8166	0.8169 ± 0.0090
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.5 ± 6.7	z_{re}	10.95	10.9 ± 1.9	$100\theta_{s,eq}$	0.45111	0.4513 ± 0.0046
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	$10^9 A_s$	2.251	$2.255^{+0.092}_{-0.11}$	$r_{drag}/D_V(0.57)$	0.07161	0.07163 ± 0.00072
$\boldsymbol{A_{143}^{tSZ}}$	6.99	4.94 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8817	1.882 ± 0.014	$H(0.57)$	93.084	93.09 ± 0.43
$\boldsymbol{A_{100}^{PS}}$	254.4	261 ± 28	D_{40}	1219.2	1220 ± 21	$D_A(0.57)$	1386.3	1386 ± 13
$\boldsymbol{A_{143}^{PS}}$	40.2	45 ± 8	D_{220}	5720.6	5722 ± 41	$F_{AP}(0.57)$	0.67581	0.6758 ± 0.0033
$\boldsymbol{A_{143\times217}^{PS}}$	33.5	39^{+10}_{-10}	D_{810}	2536.9	2536 ± 14	$f\sigma_8(0.57)$	0.4859	0.4857 ± 0.0099
$\boldsymbol{A_{217}^{PS}}$	97.5	97 ± 10	D_{1420}	814.5	813.6 ± 5.2	$\sigma_8(0.57)$	0.6222	$0.622^{+0.012}_{-0.014}$
$\boldsymbol{A^{kSZ}}$	0.02	< 5.08	D_{2000}	230.29	229.9 ± 2.0	f_{2000}^{143}	30.07	30.8 ± 3.2
$\boldsymbol{A_{100}^{dustTT}}$	7.53	7.49 ± 1.9	$n_{s,0.002}$	0.9916	0.994 ± 0.027	$f_{2000}^{143\times217}$	32.60	33.0 ± 2.3
$\boldsymbol{A_{143}^{dustTT}}$	9.05	9.03 ± 1.8	Y_P	0.245407	0.24540 ± 0.00012	f_{2000}^{217}	106.16	106.5 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.40	17.2 ± 4.2	Y_P^{BBN}	0.246733	0.24673 ± 0.00012	χ^2_{lowTEB}	10494.94	10496.2 ± 2.9
$\boldsymbol{A_{217}^{dustTT}}$	81.4	81.7 ± 7.5	10^5D/H	2.5853	2.588 ± 0.050	χ^2_{plik}	764.3	778.5 ± 6.0
$\boldsymbol{c_{100}}$	0.99793	0.99791 ± 0.00077	Age/Gyr	13.7894	13.790 ± 0.041	χ^2_{JLA}	706.724	706.86 ± 0.41
$\boldsymbol{c_{217}}$	0.99589	0.9960 ± 0.0015	z_*	1089.810	1089.83 ± 0.45	χ^2_{prior}	1.94	7.29 ± 3.5
H_0	67.67	67.69 ± 0.95	r_*	144.609	144.63 ± 0.48	χ^2_{CMB}	11259.2	11274.7 ± 5.7
Ω_Λ	0.6894	0.689 ± 0.013	$100\theta_*$	1.041156	1.04117 ± 0.00046			

Best-fit $\chi^2_{eff} = 11967.90$; $\bar{\chi}^2_{eff} = 11988.82$; $R - 1 = 0.00688$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.94 plik_dx11dr2_HM_v18_TT: 764.30 SN - JLA December_2013: 706.72

17.4 base_nrun_plikHM_TT_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022307	0.02229 ± 0.00026	Ω_m	0.3066	$0.307^{+0.012}_{-0.014}$	D_A/Gpc	13.9152	13.917 ± 0.043
$\boldsymbol{\Omega_c h^2}$	0.11842	0.1184 ± 0.0021	$\Omega_m h^2$	0.14137	0.1413 ± 0.0020	z_{drag}	1059.67	1059.64 ± 0.53
$\boldsymbol{100\theta_{MC}}$	1.041038	1.04106 ± 0.00047	$\Omega_m h^3$	0.095991	0.09597 ± 0.00050	r_{drag}	147.582	147.61 ± 0.46
$\boldsymbol{\tau}$	0.0678	0.068 ± 0.017	σ_8	0.8157	0.8156 ± 0.0094	k_D	0.14030	0.14026 ± 0.00051
$\boldsymbol{\ln(10^{10} A_s)}$	3.0664	3.068 ± 0.031	$\sigma_8 \Omega_m^{0.5}$	0.4517	0.4516 ± 0.0090	$100\theta_D$	0.160915	0.16094 ± 0.00030
$\boldsymbol{n_s}$	0.9682	0.9675 ± 0.0062	$\sigma_8 \Omega_m^{0.25}$	0.6070	0.6069 ± 0.0076	z_{eq}	3362.9	3362 ± 47
$\boldsymbol{dn_s/d\ln k}$	-0.0023	-0.0033 ± 0.0074	$\sigma_8/h^{0.5}$	0.9899	0.990 ± 0.011	k_{eq}	0.010264	0.01026 ± 0.00014
$\boldsymbol{y_{cal}}$	1.00010	1.0002 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.4449	2.445 ± 0.027	$100\theta_{eq}$	0.8203	0.8206 ± 0.0090
$\boldsymbol{A_{217}^{CIB}}$	67.8	65.1 ± 6.7	z_{re}	8.99	$8.96^{+1.7}_{-1.4}$	$100\theta_{s,eq}$	0.45309	0.4532 ± 0.0046
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.146	2.150 ± 0.068	$r_{drag}/D_V(0.57)$	0.07186	0.07188 ± 0.00073
$\boldsymbol{A_{143}^{tSZ}}$	7.24	4.79 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8743	1.875 ± 0.013	$H(0.57)$	93.112	93.12 ± 0.44
$\boldsymbol{A_{100}^{PS}}$	255.2	263 ± 28	D_{40}	1219.3	1219 ± 21	$D_A(0.57)$	1383.8	1384 ± 13
$\boldsymbol{A_{143}^{PS}}$	39.5	45 ± 8	D_{220}	5716.8	5718 ± 41	$F_{AP}(0.57)$	0.67479	0.6748 ± 0.0033
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	38^{+10}_{-10}	D_{810}	2533.2	2533 ± 14	$f\sigma_8(0.57)$	0.4730	0.4729 ± 0.0053
$\boldsymbol{A_{217}^{PS}}$	96.8	96 ± 10	D_{1420}	814.8	813.9 ± 5.3	$\sigma_8(0.57)$	0.6080	0.6080 ± 0.0086
$\boldsymbol{A^{kSZ}}$	0.00	< 5.49	D_{2000}	230.05	229.7 ± 2.0	f_{2000}^{143}	30.20	31.2 ± 3.1
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.50 ± 1.8	$n_{s,0.002}$	0.9756	0.978 ± 0.024	$f_{2000}^{143\times217}$	32.75	33.3 ± 2.3
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.12 ± 1.8	Y_P	0.245365	0.24536 ± 0.00012	f_{2000}^{217}	106.24	106.7 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.81	17.3 ± 4.2	Y_P^{BBN}	0.246692	0.24668 ± 0.00012	$\chi^2_{lensing}$	9.36	10.1 ± 1.7
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	10^5D/H	2.6032	2.606 ± 0.049	χ^2_{lowTEB}	10494.21	10495.2 ± 2.3
$\boldsymbol{c_{100}}$	0.99793	0.99789 ± 0.00076	Age/Gyr	13.7935	13.794 ± 0.042	χ^2_{plik}	766.7	780.7 ± 5.9
$\boldsymbol{c_{217}}$	0.99601	0.9960 ± 0.0014	z_*	1089.860	1089.88 ± 0.45	χ^2_{prior}	2.10	7.35 ± 3.6
H_0	67.90	67.91 ± 0.97	r_*	144.889	144.91 ± 0.46	χ^2_{CMB}	11270.2	11286.0 ± 5.7
Ω_Λ	0.6934	$0.693^{+0.014}_{-0.012}$	$100\theta_*$	1.041233	1.04126 ± 0.00046			

Best-fit $\chi^2_{eff} = 11272.34$; $\bar{\chi}^2_{eff} = 11293.36$; $R - 1 = 0.02203$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.36 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.21 plik_dx11dr2_HM_v18_TT: 766.68

17.5 base_nrun_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022404	0.02241 ± 0.00027	$\Omega_{\rm m}$	0.3099	0.310 ± 0.013	$D_{\rm A}$/Gpc	13.8918	13.893 ± 0.046
$\boldsymbol{\Omega_{\rm c}h^2}$	0.11910	0.1191 ± 0.0022	$\Omega_{\rm m}h^2$	0.14215	0.1421 ± 0.0020	$z_{\rm drag}$	1059.93	1059.95 ± 0.56
$\boldsymbol{100\theta_{\rm MC}}$	1.041003	1.04101 ± 0.00048	$\Omega_{\rm m}h^3$	0.09627	0.09627 ± 0.00053	$r_{\rm drag}$	147.294	147.30 ± 0.50
$\boldsymbol{\tau}$	0.0894	$0.091^{+0.022}_{-0.024}$	σ_8	0.8354	0.836 ± 0.016	$k_{\rm D}$	0.14068	0.14067 ± 0.00057
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.1129	3.116 ± 0.044	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4650	0.465 ± 0.013	$100\theta_{\rm D}$	0.160753	0.16076 ± 0.00032
$\boldsymbol{n_{\rm s}}$	0.9670	0.9665 ± 0.0064	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6233	0.624 ± 0.014	$z_{\rm eq}$	3381.4	3381 ± 49
$\boldsymbol{{\rm d}n_{\rm s}/{\rm d}\ln k}$	-0.0074	-0.0088 ± 0.0082	$\sigma_8/h^{0.5}$	1.0151	1.016 ± 0.021	$k_{\rm eq}$	0.010320	0.01032 ± 0.00015
$\boldsymbol{y_{\rm cal}}$	1.00024	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4992	2.501 ± 0.046	$100\theta_{\rm eq}$	0.8172	0.8175 ± 0.0093
$\boldsymbol{A_{217}^{\rm CIB}}$	67.6	64.5 ± 6.7	$z_{\rm re}$	10.93	11.0 ± 1.9	$100\theta_{\rm s,eq}$	0.45139	0.4515 ± 0.0048
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	$10^9A_{\rm s}$	2.249	$2.258^{+0.092}_{-0.11}$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07165	0.07168 ± 0.00074
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.13	4.95 ± 2.0	$10^9A_{\rm s}e^{-2\tau}$	1.8805	1.881 ± 0.014	$H(0.57)$	93.105	93.12 ± 0.44
$\boldsymbol{A_{100}^{\rm PS}}$	254.5	261 ± 28	D_{40}	1219.2	1219 ± 21	$D_{\rm A}(0.57)$	1385.6	1385 ± 13
$\boldsymbol{A_{143}^{\rm PS}}$	39.4	45 ± 8	D_{220}	5720.2	5723 ± 41	$F_{\rm AP}(0.57)$	0.67562	0.6756 ± 0.0034
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39 ± 10	D_{810}	2536.0	2536 ± 14	$f\sigma_8(0.57)$	0.4853	0.486 ± 0.010
$\boldsymbol{A_{217}^{\rm PS}}$	97.0	97 ± 10	D_{1420}	814.3	813.8 ± 5.2	$\sigma_8(0.57)$	0.6219	$0.623^{+0.012}_{-0.014}$
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 5.06	D_{2000}	230.23	230.0 ± 2.0	f_{2000}^{143}	30.01	30.7 ± 3.2
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.49	7.50 ± 1.9	$n_{\rm s,0.002}$	0.9908	0.995 ± 0.027	$f_{2000}^{143\times217}$	32.58	32.9 ± 2.3
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.09	9.03 ± 1.8	$Y_{\rm P}$	0.245408	0.24541 ± 0.00012	f_{2000}^{217}	106.15	106.5 ± 2.1
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.65	17.2 ± 4.2	$Y_{\rm P}^{\rm BBN}$	0.246734	0.24673 ± 0.00012	$\chi^2_{\rm lowTEB}$	10494.98	10496.2 ± 2.9
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.8	81.7 ± 7.5	10^5D/H	2.585	2.585 ± 0.050	$\chi^2_{\rm plik}$	764.1	778.6 ± 6.0
$\boldsymbol{c_{100}}$	0.99790	0.99791 ± 0.00077	Age/Gyr	13.7878	13.787 ± 0.042	$\chi^2_{\rm H070p6}$	0.746	0.82 ± 0.51
$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0015	z_*	1089.797	1089.80 ± 0.46	$\chi^2_{\rm prior}$	2.07	7.29 ± 3.5
H_0	67.73	67.76 ± 0.99	r_*	144.639	144.65 ± 0.49	$\chi^2_{\rm CMB}$	11259.1	11274.8 ± 5.7
Ω_Λ	0.6901	0.690 ± 0.013	$100\theta_*$	1.041184	1.04119 ± 0.00047			

Best-fit $\chi^2_{\rm eff} = 11261.92$; $\bar{\chi}^2_{\rm eff} = 11282.88$; $R-1 = 0.00688$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.98 plik_dx11dr2_HM_v18_TT: 764.12 Hubble - H070p6: 0.75

17.6 base_nrun_plikHM_TT_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022322	0.02230 ± 0.00022	$\Omega_m h^3$	0.096020	0.09597 ± 0.00050	$100\theta_D$	0.160906	0.16093 ± 0.00028
$\boldsymbol{\Omega_c h^2}$	0.11829	0.1183 ± 0.0012	σ_8	0.8169	0.8160 ± 0.0088	z_{eq}	3360.1	3360 ± 28
$\boldsymbol{100\theta_{MC}}$	1.041097	1.04107 ± 0.00040	$\sigma_8\Omega_m^{0.5}$	0.4517	0.4513 ± 0.0066	k_{eq}	0.010255	0.010254 ± 0.000085
$\boldsymbol{\tau}$	0.0701	0.069 ± 0.013	$\sigma_8\Omega_m^{0.25}$	0.6075	0.6068 ± 0.0069	$100\theta_{eq}$	0.8209	0.8209 ± 0.0052
$\boldsymbol{\ln(10^{10}A_s)}$	3.0703	3.069 ± 0.024	$\sigma_8/h^{0.5}$	0.9909	0.990 ± 0.011	$100\theta_{s,eq}$	0.45339	0.4534 ± 0.0027
$\boldsymbol{n_s}$	0.96863	$0.9677^{+0.0044}_{-0.0050}$	$\langle d^2\rangle^{1/2}$	2.4465	2.446 ± 0.026	$r_{drag}/D_V(0.57)$	0.071914	0.07191 ± 0.00041
$\boldsymbol{dn_s/d\ln k}$	-0.0026	-0.0033 ± 0.0073	z_{re}	9.20	9.07 ± 1.2	$H(0.57)$	93.150	$93.13^{+0.26}_{-0.32}$
$\boldsymbol{y_{cal}}$	0.99999	1.0002 ± 0.0025	$10^9 A_s$	2.155	2.152 ± 0.052	$D_A(0.57)$	1382.8	$1383.2^{+8.2}_{-7.3}$
$\boldsymbol{A_{217}^{CIB}}$	67.8	65.0 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8732	1.874 ± 0.012	$F_{AP}(0.57)$	0.67455	0.6746 ± 0.0018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1217.9	1219^{+18}_{-21}	$f\sigma_8(0.57)$	0.4735	0.4730 ± 0.0051
$\boldsymbol{A_{143}^{tSZ}}$	7.18	4.77 ± 2.0	D_{220}	5714.7	5719 ± 40	$\sigma_8(0.57)$	0.6092	0.6084 ± 0.0071
$\boldsymbol{A_{100}^{PS}}$	255.4	264 ± 28	D_{810}	2532.4	2533 ± 14	f_{2000}^{143}	30.34	31.1 ± 3.1
$\boldsymbol{A_{143}^{PS}}$	39.9	45 ± 8	D_{1420}	814.5	814.1 ± 5.2	$f_{2000}^{143\times217}$	32.83	33.3 ± 2.2
$\boldsymbol{A_{143\times217}^{PS}}$	33.0	38^{+10}_{-10}	D_{2000}	230.04	229.7 ± 1.9	f_{2000}^{217}	106.26	106.7 ± 2.1
$\boldsymbol{A_{217}^{PS}}$	96.8	96 ± 10	$n_{s,0.002}$	0.9770	0.978 ± 0.023	$\chi^2_{lensing}$	9.44	10.1 ± 1.7
$\boldsymbol{A^{kSZ}}$	0.02	< 5.42	Y_P	0.245372	0.24536 ± 0.00010	χ^2_{lowTEB}	10494.15	10494.9 ± 2.2
$\boldsymbol{A_{100}^{dustTT}}$	7.51	7.50 ± 1.9	Y_P^{BBN}	0.246698	0.24669 ± 0.00010	χ^2_{plik}	766.7	780.3 ± 5.7
$\boldsymbol{A_{143}^{dustTT}}$	9.21	9.12 ± 1.8	10^5D/H	2.6004	2.604 ± 0.042	χ^2_{H070p6}	0.625	0.66 ± 0.26
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.85	17.2 ± 4.2	Age/Gyr	13.7898	13.792 ± 0.031	χ^2_{JLA}	706.607	706.65 ± 0.16
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	z_*	1089.830	1089.86 ± 0.32	χ^2_{6DF}	0.0009	0.038 ± 0.054
$\boldsymbol{c_{100}}$	0.99790	0.99791 ± 0.00076	r_*	144.912	144.93 ± 0.32	χ^2_{MGS}	1.61	1.67 ± 0.57
$\boldsymbol{c_{217}}$	0.99600	$0.9960^{+0.0014}_{-0.0017}$	$100\theta_*$	1.041284	1.04127 ± 0.00040	$\chi^2_{DR11CMASS}$	2.437	2.84 ± 0.62
H_0	67.98	67.96 ± 0.56	D_A/Gpc	13.9167	13.918 ± 0.031	$\chi^2_{DR11LOWZ}$	0.320	0.45 ± 0.44
Ω_Λ	0.6943	0.6941 ± 0.0072	z_{drag}	1059.704	1059.65 ± 0.50	χ^2_{prior}	2.12	7.29 ± 3.6
Ω_m	0.3057	0.3059 ± 0.0072	r_{drag}	147.599	147.62 ± 0.35	χ^2_{CMB}	11270.2	11285.3 ± 5.5
$\Omega_m h^2$	0.14125	0.1412 ± 0.0012	k_D	0.140295	0.14025 ± 0.00047	χ^2_{BAO}	4.37	5.00 ± 0.94

Best-fit $\chi^2_{eff} = 11983.96$; $\bar{\chi}^2_{eff} = 12004.87$; $R - 1 = 0.03030$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.44 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.15 plik_dx11dr2_HM_v18_TT: 766.65 Hubble - H070p6: 0.62 SN - JLA December_2013: 706.61

17.7 base_nrun_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02236 ± 0.00027	Ω_m	$0.313^{+0.013}_{-0.015}$	D_A/Gpc	13.884 ± 0.047
$\boldsymbol{\Omega_c h^2}$	0.1196 ± 0.0022	$\Omega_m h^2$	0.1426 ± 0.0021	z_{drag}	1059.89 ± 0.56
$\boldsymbol{100\theta_{MC}}$	1.04093 ± 0.00048	$\Omega_m h^3$	0.09624 ± 0.00053	r_{drag}	147.21 ± 0.51
$\boldsymbol{\tau}$	$0.089^{+0.020}_{-0.025}$	σ_8	$0.836^{+0.015}_{-0.017}$	k_D	0.14073 ± 0.00057
$\boldsymbol{\ln(10^{10} A_s)}$	$3.113^{+0.039}_{-0.047}$	$\sigma_8 \Omega_m^{0.5}$	0.468 ± 0.014	$100\theta_D$	0.16079 ± 0.00032
$\boldsymbol{n_s}$	0.9652 ± 0.0065	$\sigma_8 \Omega_m^{0.25}$	0.626 ± 0.014	z_{eq}	3392 ± 51
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	-0.0085 ± 0.0081	$\sigma_8/h^{0.5}$	1.018 ± 0.020	k_{eq}	0.01035 ± 0.00015
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025	$\langle d^2 \rangle^{1/2}$	2.506 ± 0.046	$100\theta_{eq}$	0.8153 ± 0.0096
$\boldsymbol{A_{217}^{CIB}}$	64.6 ± 6.7	z_{re}	10.8 ± 1.8	$100\theta_{s,eq}$	0.4504 ± 0.0049
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.251^{+0.084}_{-0.11}$	$r_{drag}/D_V(0.57)$	0.07150 ± 0.00076
$\boldsymbol{A_{143}^{tSZ}}$	4.92 ± 2.0	$10^9 A_s e^{-2\tau}$	1.883 ± 0.014	$H(0.57)$	93.02 ± 0.45
$\boldsymbol{A_{100}^{PS}}$	261 ± 28	D_{40}	1222 ± 21	$D_A(0.57)$	1389 ± 14
$\boldsymbol{A_{143}^{PS}}$	45 ± 8	D_{220}	5721 ± 41	$F_{AP}(0.57)$	0.6764 ± 0.0035
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{810}	2536 ± 14	$f\sigma_8(0.57)$	0.4866 ± 0.0098
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{1420}	813.4 ± 5.2	$\sigma_8(0.57)$	$0.622^{+0.011}_{-0.014}$
$\boldsymbol{A^{kSZ}}$	< 5.11	D_{2000}	229.8 ± 2.0	f_{2000}^{143}	30.9 ± 3.2
$\boldsymbol{A_{100}^{dustTT}}$	7.49 ± 1.9	$n_{s,0.002}$	0.993 ± 0.027	$f_{2000}^{143\times217}$	33.1 ± 2.3
$\boldsymbol{A_{143}^{dustTT}}$	9.03 ± 1.8	Y_P	0.24539 ± 0.00012	f_{2000}^{217}	106.6 ± 2.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	Y_P^{BBN}	0.24671 ± 0.00012	χ^2_{lowTEB}	10496.2 ± 2.8
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.5	10^5D/H	2.593 ± 0.051	χ^2_{plik}	778.5 ± 6.0
$\boldsymbol{c_{100}}$	0.99791 ± 0.00077	Age/Gyr	13.795 ± 0.042	χ^2_{prior}	7.28 ± 3.5
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	z_*	1089.89 ± 0.47	χ^2_{CMB}	11274.7 ± 5.7
H_0	67.5 ± 1.0	r_*	144.55 ± 0.51		
Ω_Λ	$0.687^{+0.015}_{-0.013}$	$100\theta_*$	1.04112 ± 0.00047		

$\bar{\chi}^2_{eff} = 11281.97$; $R - 1 = 0.00630$

17.8 base_nrun_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022291	0.02229 ± 0.00017	$\boldsymbol{A^{{\rm dust}TE}_{100\times217}}$	0.302	0.302 ± 0.084	Age/Gyr	13.8091	13.809 ± 0.027
$\boldsymbol{\Omega_{\rm c}h^2}$	0.11982	0.1198 ± 0.0015	$\boldsymbol{A^{{\rm dust}TE}_{143}}$	0.154	0.155 ± 0.054	z_*	1090.004	1090.00 ± 0.31
$\boldsymbol{100\theta_{\rm MC}}$	1.040765	1.04078 ± 0.00032	$\boldsymbol{A^{{\rm dust}TE}_{143\times217}}$	0.337	0.338 ± 0.080	r_*	144.538	144.53 ± 0.33
$\boldsymbol{\tau}$	0.0844	0.083 ± 0.018	$\boldsymbol{A^{{\rm dust}TE}_{217}}$	1.672	1.67 ± 0.25	$100\theta_*$	1.040962	1.04097 ± 0.00032
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.1046	3.103 ± 0.036	$\boldsymbol{c_{100}}$	0.99821	0.99818 ± 0.00077	$D_{\rm A}$/Gpc	13.8850	13.885 ± 0.030
$\boldsymbol{n_{\rm s}}$	0.96416	0.9639 ± 0.0050	$\boldsymbol{c_{217}}$	0.99600	0.9960 ± 0.0014	$z_{\rm drag}$	1059.742	1059.74 ± 0.34
$\boldsymbol{{\rm d}n_{\rm s}/{\rm d}\ln k}$	-0.0051	-0.0057 ± 0.0071	H_0	67.30	67.31 ± 0.66	$r_{\rm drag}$	147.227	147.22 ± 0.32
$\boldsymbol{y_{\rm cal}}$	1.00015	1.0003 ± 0.0025	Ω_Λ	0.6848	0.6847 ± 0.0092	$k_{\rm D}$	0.140664	0.14067 ± 0.00035
$\boldsymbol{A^{\rm CIB}_{217}}$	67.4	64.5 ± 6.7	$\Omega_{\rm m}$	0.3152	0.3153 ± 0.0092	$100\theta_{\rm D}$	0.160849	0.16085 ± 0.00020
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.06	—	$\Omega_{\rm m}h^2$	0.14276	0.1428 ± 0.0014	$z_{\rm eq}$	3396.0	3396 ± 33
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.18	5.13 ± 1.9	$\Omega_{\rm m}h^3$	0.096078	0.09609 ± 0.00031	$k_{\rm eq}$	0.010365	0.01037 ± 0.00010
$\boldsymbol{A^{\rm PS}_{100}}$	258.4	263 ± 28	σ_8	0.8343	0.834 ± 0.014	$100\theta_{\rm eq}$	0.8141	0.8141 ± 0.0063
$\boldsymbol{A^{\rm PS}_{143}}$	40.5	45 ± 8	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4684	0.4680 ± 0.0098	$100\theta_{\rm s,eq}$	0.44984	0.4498 ± 0.0032
$\boldsymbol{A^{PS}_{143\times217}}$	34.9	40^{+10}_{-10}	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6251	0.625 ± 0.011	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07136	0.07137 ± 0.00050
$\boldsymbol{A^{\rm PS}_{217}}$	97.9	97 ± 10	$\sigma_8/h^{0.5}$	1.0169	1.016 ± 0.017	$H(0.57)$	92.891	92.90 ± 0.29
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.59	$\langle d^2\rangle^{1/2}$	2.5088	2.507 ± 0.040	$D_{\rm A}(0.57)$	1391.6	1391.5 ± 8.9
$\boldsymbol{A^{{\rm dust}TT}_{100}}$	7.41	7.45 ± 1.8	$z_{\rm re}$	10.55	$10.4^{+1.7}_{-1.5}$	$F_{\rm AP}(0.57)$	0.67696	0.6770 ± 0.0023
$\boldsymbol{A^{{\rm dust}TT}_{143}}$	8.96	8.91 ± 1.8	$10^9A_{\rm s}$	2.230	$2.228^{+0.077}_{-0.086}$	$f\sigma_8(0.57)$	0.4860	0.4855 ± 0.0082
$\boldsymbol{A^{{\rm dust}TT}_{143\times217}}$	17.38	17.0 ± 4.1	$10^9A_{\rm s}e^{-2\tau}$	1.8837	1.885 ± 0.013	$\sigma_8(0.57)$	0.6197	0.619 ± 0.011
$\boldsymbol{A^{{\rm dust}TT}_{217}}$	81.5	81.5 ± 7.5	D_{40}	1230.0	1230 ± 19	f^{143}_{2000}	30.03	30.5 ± 3.0
$\boldsymbol{A^{{\rm dust}EE}_{100}}$	0.0817	0.0817 ± 0.0057	D_{220}	5724.2	5727 ± 39	$f^{143\times217}_{2000}$	32.72	32.9 ± 2.1
$\boldsymbol{A^{{\rm dust}EE}_{100\times143}}$	0.0492	0.0493 ± 0.0050	D_{810}	2536.1	2537 ± 14	f^{217}_{2000}	106.23	106.4 ± 2.1
$\boldsymbol{A^{{\rm dust}EE}_{100\times217}}$	0.0990	0.099 ± 0.033	D_{1420}	813.55	813.6 ± 5.0	$\chi^2_{\rm lowTEB}$	10495.74	10496.5 ± 2.7
$\boldsymbol{A^{{\rm dust}EE}_{143}}$	0.1005	0.1006 ± 0.0069	D_{2000}	229.87	229.8 ± 1.8	$\chi^2_{\rm plik}$	2432.3	2452.1 ± 7.0
$\boldsymbol{A^{{\rm dust}EE}_{143\times217}}$	0.2239	0.223 ± 0.047	$n_{\rm s,0.002}$	0.9806	0.982 ± 0.022	$\chi^2_{\rm prior}$	7.08	19.4 ± 5.5
$\boldsymbol{A^{{\rm dust}EE}_{217}}$	0.648	0.65 ± 0.13	$Y_{\rm P}$	0.245358	0.245357 ± 0.000076	$\chi^2_{\rm CMB}$	12928.0	12948.6 ± 6.8
$\boldsymbol{A^{{\rm dust}TE}_{100}}$	0.1415	0.140 ± 0.038	$Y_{\rm P}^{\rm BBN}$	0.246685	0.246684 ± 0.000076			
$\boldsymbol{A^{{\rm dust}TE}_{100\times143}}$	0.1318	0.131 ± 0.029	10^5D/H	2.6062	2.606 ± 0.032			

Best-fit $\chi^2_{\rm eff} = 12935.12$; $\bar{\chi}^2_{\rm eff} = 12968.06$; $R-1 = 0.00882$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.74 plik_dx11dr2_HM_v18_TTTEEE: 2432.30

17.9 base_nrun_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022330	0.02233 ± 0.00015	$\boldsymbol{A_{143}^{dustTE}}$	0.153	0.154 ± 0.054	r_*	144.659	144.66 ± 0.25
$\boldsymbol{\Omega_c h^2}$	0.11924	0.1192 ± 0.0011	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.337	0.337 ± 0.080	$100\theta_*$	1.041030	1.04104 ± 0.00030
$\boldsymbol{100\theta_{MC}}$	1.040848	1.04085 ± 0.00030	$\boldsymbol{A_{217}^{dustTE}}$	1.668	1.66 ± 0.25	D_A/Gpc	13.8957	13.895 ± 0.024
$\boldsymbol{\tau}$	0.0872	0.087 ± 0.018	$\boldsymbol{c_{100}}$	0.99819	0.99817 ± 0.00078	z_{drag}	1059.780	1059.80 ± 0.32
$\boldsymbol{\ln(10^{10}A_s)}$	3.1089	3.108 ± 0.035	$\boldsymbol{c_{217}}$	0.99603	0.9960 ± 0.0014	r_{drag}	147.338	147.33 ± 0.26
$\boldsymbol{n_s}$	0.96582	0.9654 ± 0.0042	H_0	67.561	67.57 ± 0.48	k_D	0.140576	0.14058 ± 0.00032
$\boldsymbol{dn_s/d\ln k}$	−0.0048	-0.0057 ± 0.0071	Ω_Λ	0.6884	0.6884 ± 0.0065	$100\theta_D$	0.160826	0.16082 ± 0.00019
$\boldsymbol{y_{cal}}$	1.00024	1.0004 ± 0.0025	Ω_m	0.3116	0.3116 ± 0.0065	z_{eq}	3383.1	3383 ± 24
$\boldsymbol{A_{217}^{CIB}}$	67.2	64.4 ± 6.7	$\Omega_m h^2$	0.14221	0.1422 ± 0.0010	k_{eq}	0.010325	0.010326 ± 0.000074
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.06	—	$\Omega_m h^3$	0.096081	0.09609 ± 0.00031	$100\theta_{eq}$	0.81656	0.8166 ± 0.0046
$\boldsymbol{A_{143}^{tSZ}}$	7.12	$5.19^{+2.1}_{-1.9}$	σ_8	0.8346	0.834 ± 0.014	$100\theta_{s,eq}$	0.45111	0.4511 ± 0.0024
$\boldsymbol{A_{100}^{PS}}$	257.8	262 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4658	0.4654 ± 0.0089	$r_{drag}/D_V(0.57)$	0.071561	0.07157 ± 0.00036
$\boldsymbol{A_{143}^{PS}}$	40.2	44 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6235	0.623 ± 0.011	$H(0.57)$	92.995	93.00 ± 0.22
$\boldsymbol{A_{143\times217}^{PS}}$	34.7	40 ± 10	$\sigma_8/h^{0.5}$	1.0153	1.014 ± 0.017	$D_A(0.57)$	1388.2	1388.0 ± 6.5
$\boldsymbol{A_{217}^{PS}}$	97.7	97 ± 10	$\langle d^2\rangle^{1/2}$	2.5051	2.503 ± 0.039	$F_{AP}(0.57)$	0.67605	0.6760 ± 0.0017
$\boldsymbol{A^{kSZ}}$	0.00	< 4.49	z_{re}	10.77	$10.7^{+1.7}_{-1.5}$	$f\sigma_8(0.57)$	0.4852	0.4848 ± 0.0081
$\boldsymbol{A_{100}^{dustTT}}$	7.38	7.43 ± 1.8	$10^9 A_s$	2.240	$2.239^{+0.076}_{-0.085}$	$\sigma_8(0.57)$	0.6208	0.620 ± 0.011
$\boldsymbol{A_{143}^{dustTT}}$	8.94	8.91 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8812	1.882 ± 0.012	f_{2000}^{143}	29.80	30.2 ± 3.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.54	17.0 ± 4.2	D_{40}	1228.3	1228 ± 19	$f_{2000}^{143\times217}$	32.52	32.7 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.5 ± 7.5	D_{220}	5725.7	5728 ± 38	f_{2000}^{217}	106.07	106.3 ± 2.0
$\boldsymbol{A_{100}^{dustEE}}$	0.0817	0.0819 ± 0.0056	D_{810}	2535.7	2536 ± 14	χ^2_{lowTEB}	10495.85	10496.5 ± 2.8
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0493	0.0495 ± 0.0051	D_{1420}	814.0	813.8 ± 5.0	χ^2_{plik}	2432.3	2451.7 ± 7.0
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0998	0.099 ± 0.033	D_{2000}	230.13	230.0 ± 1.8	χ^2_{6DF}	0.0373	0.065 ± 0.076
$\boldsymbol{A_{143}^{dustEE}}$	0.1008	0.1009 ± 0.0069	$n_{s,0.002}$	0.9813	0.984 ± 0.022	χ^2_{MGS}	1.156	1.23 ± 0.45
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2233	0.224 ± 0.047	Y_P	0.245375	0.245376 ± 0.000067	$\chi^2_{DR11CMASS}$	2.547	2.87 ± 0.62
$\boldsymbol{A_{217}^{dustEE}}$	0.650	0.65 ± 0.13	Y_P^{BBN}	0.246701	0.246703 ± 0.000068	$\chi^2_{DR11LOWZ}$	0.75	0.84 ± 0.56
$\boldsymbol{A_{100}^{dustTE}}$	0.1402	0.141 ± 0.038	10^5D/H	2.5989	2.598 ± 0.028	χ^2_{prior}	7.08	19.5 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1310	0.131 ± 0.029	Age/Gyr	13.8007	13.800 ± 0.022	χ^2_{CMB}	12928.2	12948.2 ± 6.7
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.305	0.303 ± 0.084	z_*	1089.904	1089.90 ± 0.24	χ^2_{BAO}	4.49	5.00 ± 0.90

Best-fit $\chi^2_{eff} = 12939.75$; $\bar{\chi}^2_{eff} = 12972.72$; $R - 1 = 0.01477$

χ^2_{eff}: BAO - 6DF: 0.04 MGS: 1.16 DR11CMASS: 2.55 DR11LOWZ: 0.75 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.84 plik_dx11dr2_HM_v18_TTTEEE: 2432.33

17.10 base_nrun_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022307	0.02231 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.084	Age/Gyr	13.8059	13.805 ± 0.026
$\boldsymbol{\Omega_c h^2}$	0.11960	0.1196 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.154 ± 0.054	z_*	1089.966	1089.96 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040799	1.04081 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.337 ± 0.080	r_*	144.582	144.58 ± 0.32
$\boldsymbol{\tau}$	0.0854	0.085 ± 0.018	$\boldsymbol{A^{dustTE}_{217}}$	1.658	1.66 ± 0.25	$100\theta_*$	1.040984	1.04100 ± 0.00032
$\boldsymbol{\ln(10^{10}A_s)}$	3.1062	3.105 ± 0.036	$\boldsymbol{c_{100}}$	0.99820	0.99817 ± 0.00077	D_A/Gpc	13.8890	13.889 ± 0.029
$\boldsymbol{n_s}$	0.96474	0.9645 ± 0.0049	$\boldsymbol{c_{217}}$	0.99604	0.9960 ± 0.0014	z_{drag}	1059.780	1059.77 ± 0.33
$\boldsymbol{dn_s/d\ln k}$	-0.0049	-0.0058 ± 0.0071	H_0	67.40	67.41 ± 0.64	r_{drag}	147.266	147.26 ± 0.31
$\boldsymbol{y_{cal}}$	1.00027	1.0003 ± 0.0025	Ω_Λ	0.6862	0.6861 ± 0.0088	k_D	0.140635	0.14064 ± 0.00034
$\boldsymbol{A^{CIB}_{217}}$	67.8	64.5 ± 6.7	Ω_m	0.3138	0.3139 ± 0.0088	$100\theta_D$	0.160837	0.16084 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	$\Omega_m h^2$	0.14255	0.1426 ± 0.0013	z_{eq}	3391.1	3391 ± 32
$\boldsymbol{A^{tSZ}_{143}}$	7.24	5.16 ± 1.9	$\Omega_m h^3$	0.096080	0.09609 ± 0.00031	k_{eq}	0.010350	0.010351 ± 0.000098
$\boldsymbol{A^{PS}_{100}}$	258.2	263 ± 28	σ_8	0.8344	0.834 ± 0.014	$100\theta_{eq}$	0.8150	0.8150 ± 0.0061
$\boldsymbol{A^{PS}_{143}}$	39.3	45 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4674	0.4670 ± 0.0097	$100\theta_{s,eq}$	0.45032	0.4503 ± 0.0031
$\boldsymbol{A^{PS}_{143\times217}}$	33.2	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6245	0.624 ± 0.011	$r_{drag}/D_V(0.57)$	0.071436	0.07144 ± 0.00048
$\boldsymbol{A^{PS}_{217}}$	96.9	97 ± 10	$\sigma_8/h^{0.5}$	1.0163	1.015 ± 0.017	$H(0.57)$	92.930	92.94 ± 0.28
$\boldsymbol{A^{kSZ}}$	0.01	< 4.54	$\langle d^2\rangle^{1/2}$	2.5077	2.505 ± 0.040	$D_A(0.57)$	1390.3	1390.2 ± 8.6
$\boldsymbol{A^{dustTT}_{100}}$	7.44	7.44 ± 1.9	z_{re}	10.63	$10.5^{+1.7}_{-1.5}$	$F_{AP}(0.57)$	0.67661	0.6766 ± 0.0022
$\boldsymbol{A^{dustTT}_{143}}$	8.95	8.91 ± 1.8	$10^9 A_s$	2.234	$2.233^{+0.077}_{-0.087}$	$f\sigma_8(0.57)$	0.4857	0.4853 ± 0.0082
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.43	17.0 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8828	1.884 ± 0.012	$\sigma_8(0.57)$	0.6201	0.620 ± 0.011
$\boldsymbol{A^{dustTT}_{217}}$	81.5	81.5 ± 7.5	D_{40}	1229.8	1229 ± 19	f^{143}_{2000}	29.92	30.4 ± 3.0
$\boldsymbol{A^{dustEE}_{100}}$	0.0819	0.0818 ± 0.0056	D_{220}	5725.8	5727 ± 38	$f^{143\times217}_{2000}$	32.62	32.8 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0495	0.0494 ± 0.0051	D_{810}	2536.1	2537 ± 14	f^{217}_{2000}	106.18	106.3 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0996	0.099 ± 0.033	D_{1420}	813.81	813.7 ± 5.0	χ^2_{lowTEB}	10495.80	10496.5 ± 2.7
$\boldsymbol{A^{dustEE}_{143}}$	0.1008	0.1007 ± 0.0070	D_{2000}	229.99	229.9 ± 1.8	χ^2_{plik}	2432.1	2452.0 ± 7.0
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2240	0.224 ± 0.047	$n_{s,0.002}$	0.9806	0.983 ± 0.022	χ^2_{JLA}	706.820	706.89 ± 0.31
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	Y_P	0.245365	0.245365 ± 0.000074	χ^2_{prior}	7.21	19.5 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1420	0.140 ± 0.038	Y_P^{BBN}	0.246692	0.246692 ± 0.000074	χ^2_{CMB}	12927.9	12948.6 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1314	0.131 ± 0.029	10^5D/H	2.6032	2.603 ± 0.031			

Best-fit $\chi^2_{eff} = 13641.96$; $\bar{\chi}^2_{eff} = 13674.92$; $R - 1 = 0.01157$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.80 plik_dx11dr2_HM_v18_TTTEEE: 2432.12 SN - JLA December_2013: 706.82

17.11 base_nrun_plikHM_TTTEEE_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022269	0.02228 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.307 ± 0.082	Age/Gyr	13.8062	13.805 ± 0.027
$\boldsymbol{\Omega_c h^2}$	0.11926	0.1192 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	z_*	1089.984	1089.97 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040864	1.04088 ± 0.00031	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.339 ± 0.081	r_*	144.700	$144.70^{+0.33}_{-0.30}$
$\boldsymbol{\tau}$	0.0632	0.063 ± 0.014	$\boldsymbol{A^{dustTE}_{217}}$	1.664	$1.66^{+0.25}_{-0.28}$	$100\theta_*$	1.041059	1.04108 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	3.0593	3.060 ± 0.026	$\boldsymbol{c_{100}}$	0.99815	0.99814 ± 0.00077	D_A/Gpc	13.8993	$13.899^{+0.031}_{-0.027}$
$\boldsymbol{n_s}$	0.96571	0.9653 ± 0.0049	$\boldsymbol{c_{217}}$	0.99604	0.9961 ± 0.0014	z_{drag}	1059.666	1059.66 ± 0.33
$\boldsymbol{dn_s/d\ln k}$	−0.0007	-0.0020 ± 0.0067	H_0	67.51	67.54 ± 0.65	r_{drag}	147.398	$147.40^{+0.33}_{-0.29}$
$\boldsymbol{y_{cal}}$	1.00000	$1.0000^{+0.0024}_{-0.0027}$	Ω_Λ	0.6881	0.6882 ± 0.0089	k_D	0.140465	0.14047 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	67.7	64.8 ± 6.7	Ω_m	0.3119	0.3118 ± 0.0089	$100\theta_D$	0.160912	0.16091 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	$\Omega_m h^2$	0.14217	0.1422 ± 0.0013	z_{eq}	3382.1	3382 ± 32
$\boldsymbol{A^{tSZ}_{143}}$	7.30	$5.13^{+2.2}_{-1.8}$	$\Omega_m h^3$	0.095984	0.09600 ± 0.00030	k_{eq}	0.010323	0.010321 ± 0.000098
$\boldsymbol{A^{PS}_{100}}$	257.9	263 ± 28	σ_8	0.8153	0.8149 ± 0.0089	$100\theta_{eq}$	0.8166	0.8168 ± 0.0061
$\boldsymbol{A^{PS}_{143}}$	39.5	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4553	0.4550 ± 0.0071	$100\theta_{s,eq}$	0.45117	0.4513 ± 0.0031
$\boldsymbol{A^{PS}_{143\times217}}$	33.7	39^{+10}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6093	0.6089 ± 0.0069	$r_{drag}/D_V(0.57)$	0.071552	0.07157 ± 0.00049
$\boldsymbol{A^{PS}_{217}}$	96.9	96 ± 10	$\sigma_8/h^{0.5}$	0.9922	0.992 ± 0.011	$H(0.57)$	92.953	92.97 ± 0.29
$\boldsymbol{A^{kSZ}}$	0.00	< 4.98	$\langle d^2\rangle^{1/2}$	2.4538	2.452 ± 0.027	$D_A(0.57)$	1389.0	1388.6 ± 8.8
$\boldsymbol{A^{dustTT}_{100}}$	7.47	7.49 ± 1.9	z_{re}	8.58	$8.53^{+1.4}_{-1.2}$	$F_{AP}(0.57)$	0.67614	0.6761 ± 0.0023
$\boldsymbol{A^{dustTT}_{143}}$	9.09	9.01 ± 1.8	$10^9 A_s$	2.131	2.133 ± 0.055	$f\sigma_8(0.57)$	0.4741	0.4738 ± 0.0051
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.69	$17.2^{+4.4}_{-3.9}$	$10^9 A_s e^{-2\tau}$	1.8780	1.878 ± 0.012	$\sigma_8(0.57)$	0.6064	0.6062 ± 0.0074
$\boldsymbol{A^{dustTT}_{217}}$	81.8	81.7 ± 7.4	D_{40}	1228.1	1227 ± 19	f^{143}_{2000}	30.00	30.4 ± 3.0
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0815 ± 0.0055	D_{220}	5721.6	5723 ± 39	$f^{143\times217}_{2000}$	32.71	$32.9^{+2.1}_{-2.3}$
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0491	$0.0491^{+0.0056}_{-0.0049}$	D_{810}	2534.0	2534 ± 14	f^{217}_{2000}	106.16	106.3 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0985	0.100 ± 0.033	D_{1420}	814.6	814.2 ± 5.1	$\chi^2_{lensing}$	9.86	10.6 ± 2.0
$\boldsymbol{A^{dustEE}_{143}}$	0.1007	0.1005 ± 0.0069	D_{2000}	230.00	229.8 ± 1.8	χ^2_{lowTEB}	10495.06	10495.6 ± 2.3
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2261	0.224 ± 0.046	$n_{s,0.002}$	0.9681	0.972 ± 0.021	χ^2_{plik}	2435.1	2454.4 ± 7.0
$\boldsymbol{A^{dustEE}_{217}}$	0.655	0.65 ± 0.13	Y_P	0.245348	0.245350 ± 0.000075	χ^2_{prior}	7.12	19.5 ± 5.6
$\boldsymbol{A^{dustTE}_{100}}$	0.1396	0.141 ± 0.039	Y_P^{BBN}	0.246675	0.246676 ± 0.000075	χ^2_{CMB}	12940.0	12960.6 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1314	0.132 ± 0.029	10^5D/H	2.6104	2.609 ± 0.031			

Best-fit $\chi^2_{eff} = 12947.16$; $\bar{\chi}^2_{eff} = 12980.06$; $R - 1 = 0.03377$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.86 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.06 plik_dx11dr2_HM_v18_TTTEEE: 2435.13

17.12 base_nrun_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022322	0.02232 ± 0.00016	$\boldsymbol{A^{\rm dust}_{100\times217}}$	0.304	0.303 ± 0.084	Age/Gyr	13.8038	13.804 ± 0.026
$\boldsymbol{\Omega_{\rm c}h^2}$	0.11953	0.1196 ± 0.0015	$\boldsymbol{A^{\rm dust}_{143}}$	0.155	0.154 ± 0.054	z_*	1089.941	1089.95 ± 0.30
$\boldsymbol{100\theta_{\rm MC}}$	1.040802	1.04082 ± 0.00032	$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.337	0.337 ± 0.080	r_*	144.589	144.59 ± 0.32
$\boldsymbol{\tau}$	0.0863	0.085 ± 0.018	$\boldsymbol{A^{\rm dust}_{217}}$	1.658	1.66 ± 0.25	$100\theta_*$	1.040995	1.04101 ± 0.00032
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.1078	3.106 ± 0.036	$\boldsymbol{c_{100}}$	0.99820	0.99817 ± 0.00077	$D_{\rm A}$/Gpc	13.8895	13.889 ± 0.030
$\boldsymbol{n_{\rm s}}$	0.96491	0.9646 ± 0.0050	$\boldsymbol{c_{217}}$	0.99607	0.9960 ± 0.0014	$z_{\rm drag}$	1059.780	1059.78 ± 0.33
$\boldsymbol{{\rm d}n_{\rm s}/{\rm d}\ln k}$	-0.0053	-0.0058 ± 0.0071	H_0	67.44	67.43 ± 0.65	$r_{\rm drag}$	147.269	147.27 ± 0.32
$\boldsymbol{y_{\rm cal}}$	1.00021	1.0003 ± 0.0025	Ω_Λ	0.6867	0.6864 ± 0.0090	$k_{\rm D}$	0.140644	0.14064 ± 0.00034
$\boldsymbol{A^{\rm CIB}_{217}}$	67.7	64.5 ± 6.7	$\Omega_{\rm m}$	0.3133	0.3136 ± 0.0090	$100\theta_{\rm D}$	0.160822	0.16083 ± 0.00019
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.04	—	$\Omega_{\rm m}h^2$	0.14250	0.1425 ± 0.0014	$z_{\rm eq}$	3389.9	3390 ± 33
$\boldsymbol{A^{\rm tSZ}_{143}}$	7.12	5.17 ± 1.9	$\Omega_{\rm m}h^3$	0.096101	0.09610 ± 0.00031	$k_{\rm eq}$	0.010346	0.01035 ± 0.00010
$\boldsymbol{A^{\rm PS}_{100}}$	258.5	263 ± 28	σ_8	0.8347	0.834 ± 0.014	$100\theta_{\rm eq}$	0.8153	0.8152 ± 0.0062
$\boldsymbol{A^{\rm PS}_{143}}$	40.0	45 ± 8	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4672	0.4669 ± 0.0098	$100\theta_{\rm s,eq}$	0.45045	0.4504 ± 0.0032
$\boldsymbol{A^{PS}_{143\times217}}$	34.0	40 ± 10	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6245	0.624 ± 0.011	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071462	0.07146 ± 0.00049
$\boldsymbol{A^{\rm PS}_{217}}$	97.3	97 ± 10	$\sigma_8/h^{0.5}$	1.0164	1.015 ± 0.017	$H(0.57)$	92.951	92.95 ± 0.28
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.53	$\langle d^2\rangle^{1/2}$	2.5075	2.505 ± 0.040	$D_{\rm A}(0.57)$	1389.7	1389.9 ± 8.8
$\boldsymbol{A^{\rm dust}_{100}}^{TT}$	7.44	7.44 ± 1.9	$z_{\rm re}$	10.70	$10.5^{+1.7}_{-1.5}$	$F_{\rm AP}(0.57)$	0.67649	0.6765 ± 0.0023
$\boldsymbol{A^{\rm dust}_{143}}^{TT}$	8.93	8.91 ± 1.8	$10^9A_{\rm s}$	2.237	$2.234^{+0.077}_{-0.087}$	$f\sigma_8(0.57)$	0.4858	0.4853 ± 0.0082
$\boldsymbol{A^{\rm dust}_{143\times217}}^{TT}$	17.45	17.0 ± 4.2	$10^9A_{\rm s}e^{-2\tau}$	1.8825	1.883 ± 0.013	$\sigma_8(0.57)$	0.6205	0.620 ± 0.011
$\boldsymbol{A^{\rm dust}_{217}}^{TT}$	81.6	81.5 ± 7.5	D_{40}	1228.6	1229 ± 19	f^{143}_{2000}	29.96	30.4 ± 3.0
$\boldsymbol{A^{\rm dust}_{100}}^{EE}$	0.0817	0.0818 ± 0.0056	D_{220}	5725.6	5728 ± 38	$f^{143\times217}_{2000}$	32.68	32.8 ± 2.1
$\boldsymbol{A^{\rm dust}_{100\times143}}^{EE}$	0.0493	0.0494 ± 0.0051	D_{810}	2535.9	2537 ± 14	f^{217}_{2000}	106.21	106.3 ± 2.1
$\boldsymbol{A^{\rm dust}_{100\times217}}^{EE}$	0.0998	0.099 ± 0.033	D_{1420}	813.73	813.7 ± 5.0	$\chi^2_{\rm lowTEB}$	10495.74	10496.5 ± 2.8
$\boldsymbol{A^{\rm dust}_{143}}^{EE}$	0.1006	0.1008 ± 0.0070	D_{2000}	229.98	229.9 ± 1.8	$\chi^2_{\rm plik}$	2432.4	2452.1 ± 7.0
$\boldsymbol{A^{\rm dust}_{143\times217}}^{EE}$	0.2228	0.224 ± 0.047	$n_{\rm s,0.002}$	0.9821	0.983 ± 0.022	$\chi^2_{\rm H070p6}$	0.901	0.94 ± 0.37
$\boldsymbol{A^{\rm dust}_{217}}^{EE}$	0.653	0.65 ± 0.13	$Y_{\rm P}$	0.245371	0.245368 ± 0.000075	$\chi^2_{\rm prior}$	7.04	19.5 ± 5.5
$\boldsymbol{A^{\rm dust}_{100}}^{TE}$	0.1408	0.140 ± 0.038	$Y_{\rm P}^{\rm BBN}$	0.246698	0.246694 ± 0.000075	$\chi^2_{\rm CMB}$	12928.1	12948.6 ± 6.8
$\boldsymbol{A^{\rm dust}_{100\times143}}^{TE}$	0.1325	0.131 ± 0.029	$10^5{\rm D/H}$	2.6005	2.602 ± 0.031			

Best-fit $\chi^2_{\rm eff} = 12936.06$; $\bar{\chi}^2_{\rm eff} = 12969.03$; $R-1 = 0.01164$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.74 plik_dx11dr2_HM_v18_TTTEEE: 2432.38 Hubble - H070p6: 0.90

17.13 base_nrun_plikHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022327	0.02232 ± 0.00015	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.337	0.338 ± 0.080	D_A/Gpc	13.9092	13.908 ± 0.023
$\boldsymbol{\Omega_c h^2}$	0.11866	0.1187 ± 0.0010	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.662	$1.66^{+0.24}_{-0.27}$	z_{drag}	1059.742	1059.72 ± 0.32
$\boldsymbol{100\theta_{MC}}$	1.040935	1.04095 ± 0.00029	$\boldsymbol{c_{100}}$	0.99817	0.99814 ± 0.00077	r_{drag}	147.495	147.49 ± 0.25
$\boldsymbol{\tau}$	0.0662	0.067 ± 0.012	$\boldsymbol{c_{217}}$	0.99604	$0.9961^{+0.0016}_{-0.0014}$	k_D	0.140408	0.14041 ± 0.00030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0640	3.065 ± 0.023	H_0	67.794	67.77 ± 0.47	$100\theta_D$	0.160863	0.16088 ± 0.00018
$\boldsymbol{n_s}$	0.96695	0.9666 ± 0.0041	Ω_Λ	0.6918	0.6914 ± 0.0062	z_{eq}	3369.1	3371 ± 23
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	-0.0007	-0.0021 ± 0.0067	Ω_m	0.3082	0.3086 ± 0.0062	k_{eq}	0.010283	0.010287 ± 0.000070
$\boldsymbol{y_{cal}}$	1.00005	$1.0001^{+0.0024}_{-0.0028}$	$\Omega_m h^2$	0.14163	0.14169 ± 0.00096	$100\theta_{\mathrm{eq}}$	0.81914	0.8189 ± 0.0044
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	67.7	64.5 ± 6.7	$\Omega_m h^3$	0.096017	0.09602 ± 0.00030	$100\theta_{\mathrm{s,eq}}$	0.45246	0.4523 ± 0.0022
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	0.02	—	σ_8	0.8153	0.8156 ± 0.0087	$r_{\mathrm{drag}}/D_V(0.57)$	0.071760	0.07174 ± 0.00035
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	7.35	$5.17^{+2.1}_{-1.8}$	$\sigma_8\Omega_m^{0.5}$	0.4526	0.4531 ± 0.0061	$H(0.57)$	93.074	93.07 ± 0.22
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	256.6	263 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6075	0.6079 ± 0.0067	$D_A(0.57)$	1385.2	1385.5 ± 6.3
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	38.5	44 ± 8	$\sigma_8/h^{0.5}$	0.9903	0.991 ± 0.011	$F_{\mathrm{AP}}(0.57)$	0.67518	0.6753 ± 0.0016
$\boldsymbol{A^{PS}_{143\times217}}$	32.8	39^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4507	2.450 ± 0.027	$f\sigma_8(0.57)$	0.4732	0.4734 ± 0.0051
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	96.6	96 ± 10	z_{re}	8.84	8.84 ± 1.2	$\sigma_8(0.57)$	0.6074	0.6075 ± 0.0069
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.88	$10^9 A_s$	2.1414	2.144 ± 0.049	f^{143}_{2000}	29.68	30.2 ± 2.9
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.55	7.49 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8757	1.876 ± 0.011	$f^{143\times217}_{2000}$	32.44	32.7 ± 2.1
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	9.05	9.04 ± 1.8	D_{40}	1227.0	1225 ± 19	f^{217}_{2000}	105.99	106.2 ± 2.0
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.58	$17.2^{+4.5}_{-3.8}$	D_{220}	5728.0	5726 ± 39	$\chi^2_{\mathrm{lensing}}$	9.60	10.4 ± 1.9
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	81.7	$81.7^{+8.1}_{-7.1}$	D_{810}	2533.8	2534 ± 14	χ^2_{lowTEB}	10494.96	10495.3 ± 2.1
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0818	0.0817 ± 0.0055	D_{1420}	815.0	814.6 ± 5.0	χ^2_{plik}	2435.5	2454.4 ± 7.1
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0493	$0.0494^{+0.0054}_{-0.0049}$	D_{2000}	230.21	230.0 ± 1.8	χ^2_{H070p6}	0.713	0.74 ± 0.24
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0995	0.100 ± 0.033	$n_{\mathrm{s},0.002}$	0.9692	0.973 ± 0.021	χ^2_{JLA}	706.660	706.70 ± 0.16
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1005	0.1008 ± 0.0068	Y_P	0.245374	0.245368 ± 0.000066	χ^2_{6DF}	0.0102	0.038 ± 0.052
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2229	0.224 ± 0.046	Y_P^{BBN}	0.246700	0.246695 ± 0.000066	χ^2_{MGS}	1.407	1.44 ± 0.46
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.651	0.65 ± 0.13	$10^5\mathrm{D/H}$	2.5995	2.601 ± 0.028	$\chi^2_{\mathrm{DR11CMASS}}$	2.412	2.71 ± 0.43
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1412	0.141 ± 0.039	Age/Gyr	13.7959	13.797 ± 0.022	$\chi^2_{\mathrm{DR11LOWZ}}$	0.483	0.59 ± 0.45
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1315	0.132 ± 0.029	z_*	1089.856	1089.88 ± 0.24	χ^2_{prior}	7.31	19.6 ± 5.7
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.304	0.309 ± 0.082	r_*	144.811	144.80 ± 0.24	χ^2_{CMB}	12940.0	12960.1 ± 6.8
$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.154	0.154 ± 0.054	$100\theta_*$	1.041120	1.04114 ± 0.00029	χ^2_{BAO}	4.313	4.79 ± 0.63

Best-fit $\chi^2_{\mathrm{eff}} = 13659.02$; $\bar{\chi}^2_{\mathrm{eff}} = 13691.95$; $R - 1 = 0.05324$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.60 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.96 plik_dx11dr2_HM_v18_TTT

17.14 base_nrun_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02230 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303 ± 0.084	Age/Gyr	13.808 ± 0.027
$\boldsymbol{\Omega_c h^2}$	0.1198 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.154 ± 0.054	z_*	1090.00 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.04078 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338 ± 0.080	r_*	144.54 ± 0.32
$\boldsymbol{\tau}$	$0.084^{+0.017}_{-0.019}$	$\boldsymbol{A^{dustTE}_{217}}$	1.67 ± 0.25	$100\theta_*$	1.04097 ± 0.00032
$\boldsymbol{\ln(10^{10}A_s)}$	$3.104^{+0.034}_{-0.038}$	$\boldsymbol{c_{100}}$	0.99817 ± 0.00077	D_A/Gpc	13.885 ± 0.030
$\boldsymbol{n_s}$	0.9640 ± 0.0050	$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	z_{drag}	1059.75 ± 0.33
$\boldsymbol{dn_s/d\ln k}$	-0.0058 ± 0.0071	H_0	67.32 ± 0.66	r_{drag}	147.23 ± 0.32
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025	Ω_Λ	0.6849 ± 0.0091	k_D	0.14067 ± 0.00035
$\boldsymbol{A^{CIB}_{217}}$	64.5 ± 6.7	Ω_m	0.3151 ± 0.0091	$100\theta_D$	0.16085 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$\Omega_m h^2$	0.1428 ± 0.0014	z_{eq}	3396 ± 33
$\boldsymbol{A^{tSZ}_{143}}$	5.15 ± 1.9	$\Omega_m h^3$	0.09609 ± 0.00031	k_{eq}	0.01036 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	263 ± 28	σ_8	0.834 ± 0.013	$100\theta_{eq}$	0.8142 ± 0.0063
$\boldsymbol{A^{PS}_{143}}$	45 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4681 ± 0.0098	$100\theta_{s,eq}$	0.4499 ± 0.0032
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.625 ± 0.011	$r_{drag}/D_V(0.57)$	0.07138 ± 0.00050
$\boldsymbol{A^{PS}_{217}}$	97 ± 10	$\sigma_8/h^{0.5}$	1.016 ± 0.017	$H(0.57)$	92.90 ± 0.28
$\boldsymbol{A^{kSZ}}$	< 4.56	$\langle d^2\rangle^{1/2}$	2.508 ± 0.039	$D_A(0.57)$	1391.4 ± 8.8
$\boldsymbol{A^{dustTT}_{100}}$	7.43 ± 1.9	z_{re}	10.5 ± 1.5	$F_{AP}(0.57)$	0.6769 ± 0.0023
$\boldsymbol{A^{dustTT}_{143}}$	8.90 ± 1.8	$10^9 A_s$	$2.231^{+0.072}_{-0.088}$	$f\sigma_8(0.57)$	0.4858 ± 0.0079
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.0 ± 4.2	$10^9 A_s e^{-2\tau}$	1.884 ± 0.013	$\sigma_8(0.57)$	$0.620^{+0.010}_{-0.011}$
$\boldsymbol{A^{dustTT}_{217}}$	81.5 ± 7.5	D_{40}	1230 ± 19	f^{143}_{2000}	30.5 ± 3.0
$\boldsymbol{A^{dustEE}_{100}}$	0.0817 ± 0.0056	D_{220}	5727 ± 38	$f^{143\times217}_{2000}$	32.9 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0493 ± 0.0051	D_{810}	2537 ± 14	f^{217}_{2000}	106.4 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.099 ± 0.033	D_{1420}	813.5 ± 5.0	χ^2_{lowTEB}	10496.5 ± 2.7
$\boldsymbol{A^{dustEE}_{143}}$	0.1007 ± 0.0070	D_{2000}	229.8 ± 1.8	χ^2_{plik}	2452.1 ± 7.0
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.224 ± 0.047	$n_{s,0.002}$	0.983 ± 0.022	χ^2_{prior}	19.4 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.65 ± 0.13	Y_P	0.245359 ± 0.000075	χ^2_{CMB}	12948.5 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.140 ± 0.038	Y_P^{BBN}	0.246685 ± 0.000075		
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.131 ± 0.029	10^5D/H	2.606 ± 0.031		

$\bar{\chi}^2_{eff} = 12968.00$; $R - 1 = 0.01051$

17.15 base_nrun_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022330	0.02237 ± 0.00027 $(+0.1\sigma)$	$\boldsymbol{\beta_1^1}$	-0.01	-0.05 ± 0.99	r_*	144.565	144.61 ± 0.50 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11961	0.1193 ± 0.0023 (-0.1σ)	H_0	67.47	67.6 ± 1.0 $(+0.1\sigma)$	$100\theta_*$	1.041149	1.04119 ± 0.00048 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040955	1.04099 ± 0.00049 $(+0.1\sigma)$	Ω_Λ	0.6868	0.688 ± 0.014 $(+0.1\sigma)$	z_{drag}	1059.82	1059.88 ± 0.56 (-0.0σ)
$\boldsymbol{\tau}$	0.0854	0.089 ± 0.022 $(+0.0\sigma)$	Ω_m	0.3132	0.312 ± 0.014 (-0.1σ)	r_{drag}	147.240	147.27 ± 0.50 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.1031	3.110 ± 0.044 (-0.0σ)	$\Omega_m h^2$	0.14258	0.1423 ± 0.0021 (-0.1σ)	k_D	0.14069	0.14069 ± 0.00056 (-0.1σ)
$\boldsymbol{n_s}$	0.9657	0.9678 ± 0.0066 $(+0.4\sigma)$	$\Omega_m h^3$	0.09620	0.09624 ± 0.00052 $(+0.0\sigma)$	$100\theta_D$	0.160813	0.16078 ± 0.00032 (-0.1σ)
$\boldsymbol{dn_s/d\ln k}$	-0.0084	-0.0076 ± 0.0082 $(+0.1\sigma)$	σ_8	0.8328	0.835 ± 0.016 (-0.0σ)	z_{eq}	3391.8	3386 ± 51 (-0.1σ)
$\boldsymbol{y_{cal}}$	0.99988	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_m^{0.5}$	0.4661	0.466 ± 0.013 (-0.1σ)	$100\theta_{eq}$	0.8151	0.8164 ± 0.0097 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	255.2	248 ± 23 (-0.5σ)	$\sigma_8 \Omega_m^{0.25}$	0.6230	0.624 ± 0.014 (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07148	0.07159 ± 0.00077 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	36.8	40 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0139	1.016 ± 0.021 (-0.1σ)	$H(0.57)$	92.984	$93.07^{+0.44}_{-0.49}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	92.4	97 ± 10 $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4931	2.497 ± 0.046 (-0.2σ)	$D_A(0.57)$	1389.2	1387 ± 14 (-0.1σ)
$\boldsymbol{A_{217}^{CIB}}$	48.6	47 ± 7 (-2.7σ)	z_{re}	10.62	10.8 ± 1.9 $(+0.0\sigma)$	$F_{AP}(0.57)$	0.67647	0.6760 ± 0.0035 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	2.42	$3.10^{+1.2}_{-2.6}$ (-0.9σ)	$10^9 A_s$	2.227	$2.245^{+0.092}_{-0.11}$ (-0.0σ)	$f\sigma_8(0.57)$	0.4847	0.4856 ± 0.0099 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.387	$0.51^{+0.10}_{-0.12}$	$10^9 A_s e^{-2\tau}$	1.8770	1.878 ± 0.015 (-0.4σ)	$\sigma_8(0.57)$	0.6191	$0.622^{+0.012}_{-0.014}$ $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.591 (-0.2σ)	D_{40}	1213.4	1215 ± 21 (-0.3σ)	Y_P^{BBN}	0.246285	0.24630 ± 0.00012 (-3.3σ)
$\boldsymbol{A^{kSZ}}$	6.70	> 4.21 $(+0.6\sigma)$	D_{220}	5695.0	5700 ± 41 (-0.5σ)	f_{2000}^{143}	30.78	29.5 ± 3.1 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.986	0.99 ± 0.19	D_{810}	2529.0	2532 ± 14 (-0.3σ)	f_{2000}^{217}	107.59	106.8 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.049	1.02 ± 0.18	D_{1420}	811.4	813.5 ± 5.3 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	32.87	32.2 ± 2.3 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.210	1.21 ± 0.12	$n_{s,0.002}$	0.9928	0.992 ± 0.027 $(+0.0\sigma)$	χ^2_{lowTEB}	10494.24	10495.9 ± 2.7 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.951	0.98 ± 0.18	Y_P	0.244954	$0.24498^{+0.00011}_{-0.00013}$ (-3.4σ)	$\chi^2_{CamSpec}$	8045.3	8060.7 ± 6.1
$\boldsymbol{c_{100}}$	0.99657	0.99683 ± 0.00097 (-1.4σ)	Age/Gyr	13.7990	13.792 ± 0.043 (-0.1σ)	χ^2_{prior}	3.80	8.38 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99762	0.9973 ± 0.0018 $(+0.9\sigma)$	z_*	1089.919	1089.85 ± 0.48 (-0.1σ)	χ^2_{CMB}	18539.6	18556.6 ± 6.0 $(+1277.1\sigma)$

Best-fit $\chi^2_{eff} = 18543.36$; $\Delta\chi^2_{eff} = 7282.25$; $\bar{\chi}^2_{eff} = 18564.93$; $\Delta\bar{\chi}^2_{eff} = 7282.86$; $R - 1 = 0.00700$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.24 (Δ -0.77) CamSpec like_v9.10CMH_unified: 8045.33

17.16 base_nrun_CamSpecHM_TT_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02240 \pm 0.00023 \quad (-0.0\sigma)$	Ω_Λ	$0.6910 \pm 0.0077 \quad (+0.1\sigma)$	k_D	$0.14063 \pm 0.00049 \quad (-0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0013 \quad (-0.1\sigma)$	Ω_m	$0.3090 \pm 0.0077 \quad (-0.1\sigma)$	$100\theta_D$	$0.16076 \pm 0.00030 \quad (-0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04105 \pm 0.00043 \quad (+0.1\sigma)$	$\Omega_m h^2$	$0.1420 \pm 0.0012 \quad (-0.1\sigma)$	z_{eq}	$3377 \pm 30 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.090 \pm 0.021 \quad (-0.0\sigma)$	$\Omega_m h^3$	$0.09625 \pm 0.00051 \quad (+0.0\sigma)$	$100\theta_{eq}$	$0.8180 \pm 0.0055 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.112 \pm 0.042 \quad (-0.1\sigma)$	σ_8	$0.835 \pm 0.016 \quad (-0.0\sigma)$	$r_{drag}/D_V(0.57)$	$0.07172 \pm 0.00043 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9687 \pm 0.0047 \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.464 \pm 0.011 \quad (-0.1\sigma)$	$H(0.57)$	$93.13 \pm 0.30 \quad (+0.1\sigma)$
$\boldsymbol{dn_s/d\ln k}$	$-0.0076 \pm 0.0083 \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.623 \pm 0.013 \quad (-0.1\sigma)$	$D_A(0.57)$	$1384.8 \pm 8.1 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0026 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.014 \pm 0.020 \quad (-0.1\sigma)$	$F_{AP}(0.57)$	$0.6754 \pm 0.0020 \quad (-0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 23 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.493 \pm 0.044 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4849 \pm 0.0096 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	z_{re}	$10.9^{+1.9}_{-1.7} \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.622 \pm 0.012 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.0\sigma)$	$10^9 A_s$	$2.249^{+0.091}_{-0.11} \quad (-0.1\sigma)$	Y_P^{BBN}	$0.24631 \pm 0.00010 \quad (-3.9\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.876 \pm 0.012 \quad (-0.4\sigma)$	f_{2000}^{143}	$29.4 \pm 3.1 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.09^{+1.3}_{-2.6} \quad (-0.9\sigma)$	D_{40}	$1214 \pm 20 \quad (-0.3\sigma)$	f_{2000}^{217}	$106.7 \pm 2.1 \quad (+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	$5701 \pm 41 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$32.1 \pm 2.3 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.590 \quad (-0.2\sigma)$	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	χ^2_{lowTEB}	$10495.8 \pm 2.7 \quad (-0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.24 \quad (+0.7\sigma)$	D_{1420}	$813.8 \pm 5.2 \quad (+0.0\sigma)$	$\chi^2_{CamSpec}$	8060.1 ± 6.0
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.993 \pm 0.026 \quad (-0.0\sigma)$	χ^2_{6DF}	$0.056 \pm 0.075 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Y_P	$0.244985^{+0.000099}_{-0.00011} \quad (-3.9\sigma)$	χ^2_{MGS}	$1.43 \pm 0.56 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.787 \pm 0.032 \quad (-0.0\sigma)$	$\chi^2_{DR11CMASS}$	$2.89 \pm 0.67 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	$1089.78 \pm 0.34 \quad (-0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.68 \pm 0.58 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00098 \quad (-1.4\sigma)$	r_*	$144.69 \pm 0.33 \quad (+0.1\sigma)$	χ^2_{prior}	$8.45 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	$100\theta_*$	$1.04124 \pm 0.00042 \quad (+0.1\sigma)$	χ^2_{CMB}	$18555.9 \pm 5.8 \quad (+1305.1\sigma)$
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	z_{drag}	$1059.90 \pm 0.53 \quad (-0.0\sigma)$	χ^2_{BAO}	$5.05 \pm 0.99 \quad (-0.0\sigma)$
H_0	$67.80 \pm 0.59 \quad (+0.1\sigma)$	r_{drag}	$147.35 \pm 0.37 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{eff} = 18569.37$; $\Delta\bar{\chi}^2_{eff} = 7282.92$; $R - 1 = 0.00824$

17.17 base_nrun_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02240 \pm 0.00026 \quad (+0.0\sigma)$	H_0	$67.81 \pm 0.96 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1059.92 \pm 0.55 \quad (-0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0021 \quad (-0.1\sigma)$	Ω_Λ	$0.691 \pm 0.013 \quad (+0.1\sigma)$	$r_{\rm drag}$	$147.34 \pm 0.48 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04104 \pm 0.00048 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.309 \pm 0.013 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14064 \pm 0.00055 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.091 \pm 0.022 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1420 \pm 0.0020 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16076 \pm 0.00031 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.113 \pm 0.044 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.09625 \pm 0.00052 \quad (+0.0\sigma)$	$z_{\rm eq}$	$3377 \pm 47 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9687 \pm 0.0062 \quad (+0.4\sigma)$	σ_8	$0.835 \pm 0.016 \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.8180 \pm 0.0090 \quad (+0.1\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	$-0.0078 \pm 0.0083 \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.464 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07172 \pm 0.00072 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.623 \pm 0.013 \quad (-0.1\sigma)$	$H(0.57)$	$93.14 \pm 0.43 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.015 \pm 0.020 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1385 \pm 13 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.494 \pm 0.046 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6754 \pm 0.0033 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.0\sigma)$	$z_{\rm re}$	$10.9 \pm 1.9 \quad (+0.0\sigma)$	$f\sigma_8(0.57)$	$0.4850 \pm 0.0099 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.251^{+0.093}_{-0.11} \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.622^{+0.012}_{-0.014} \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.11^{+1.3}_{-2.6} \quad (-0.9\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.876 \pm 0.014 \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24631 \pm 0.00011 \quad (-3.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	$1213 \pm 21 \quad (-0.3\sigma)$	f_{2000}^{143}	$29.4 \pm 3.1 \quad (-0.5\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.591 \quad (-0.2\sigma)$	D_{220}	$5701 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.7 \pm 2.1 \quad (+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.20 \quad (+0.6\sigma)$	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.1 \pm 2.3 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$813.7 \pm 5.3 \quad (+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.9 \pm 2.7 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.994 \pm 0.027 \quad (-0.0\sigma)$	$\chi^2_{\rm CamSpec}$	8060.5 ± 6.1
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.24499^{+0.00011}_{-0.00012} \quad (-3.5\sigma)$	$\chi^2_{\rm JLA}$	$706.82 \pm 0.38 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.786 \pm 0.041 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.42 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00098 \quad (-1.4\sigma)$	z_*	$1089.77 \pm 0.45 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18556.4 \pm 5.9 \quad (+1278.7\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$144.69 \pm 0.47 \quad (+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	$100\theta_*$	$1.04123 \pm 0.00047 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 19271.67$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.85$; $R - 1 = 0.00747$

17.18 base_nrun_CamSpecHM_TT_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02233 ± 0.00026 $(+0.1\sigma)$	H_0	68.02 ± 0.96 $(+0.1\sigma)$	$z_{\rm drag}$	1059.69 ± 0.52 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1182^{+0.0022}_{-0.0020}$ (-0.1σ)	Ω_Λ	0.695 ± 0.013 $(+0.1\sigma)$	$r_{\rm drag}$	147.62 ± 0.45 $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04112 ± 0.00047 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.305 ± 0.013 (-0.1σ)	$k_{\rm D}$	0.14029 ± 0.00049 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.071 ± 0.017 $(+0.2\sigma)$	$\Omega_{\rm m} h^2$	$0.1412^{+0.0021}_{-0.0018}$ (-0.1σ)	$100\theta_{\rm D}$	0.16090 ± 0.00030 (-0.2σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.071 ± 0.032 $(+0.1\sigma)$	$\Omega_{\rm m} h^3$	0.09602 ± 0.00048 $(+0.1\sigma)$	$z_{\rm eq}$	3358^{+49}_{-44} (-0.1σ)
$\boldsymbol{n_s}$	0.9701 ± 0.0063 $(+0.4\sigma)$	σ_8	0.8175 ± 0.0095 $(+0.2\sigma)$	$100\theta_{\rm eq}$	$0.8213^{+0.0084}_{-0.0097}$ $(+0.1\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0027 ± 0.0075 $(+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4516 ± 0.0090 $(+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07195^{+0.00069}_{-0.00077}$ $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6076 ± 0.0077 $(+0.1\sigma)$	$H(0.57)$	$93.18^{+0.41}_{-0.47}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248 ± 23 (-0.5σ)	$\sigma_8/h^{0.5}$	0.991 ± 0.011 $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1382 ± 13 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	39^{+9}_{-8} (-0.7σ)	$\langle d^2 \rangle^{1/2}$	2.444 ± 0.027 (-0.1σ)	$F_{\rm AP}(0.57)$	0.6745 ± 0.0032 (-0.1σ)
$\boldsymbol{A_{217}^{PS}}$	96 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	$9.25^{+1.7}_{-1.5}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4736 ± 0.0054 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.7σ)	$10^9 A_{\rm s}$	$2.158^{+0.064}_{-0.073}$ $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6097 ± 0.0087 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.09^{+1.3}_{-2.5}$ (-0.9σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.870 ± 0.013 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	0.24628 ± 0.00011 (-3.4σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	1213^{+20}_{-22} (-0.3σ)	f_{2000}^{143}	29.4 ± 3.2 (-0.6σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.586 (-0.2σ)	D_{220}	5698^{+40}_{-44} (-0.5σ)	f_{2000}^{217}	106.7 ± 2.1 $(+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	> 4.36 $(+0.6\sigma)$	D_{810}	2529 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	32.2 ± 2.4 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	814.2 ± 5.3 $(+0.1\sigma)$	$\chi^2_{\rm lensing}$	9.99 ± 1.6 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	0.979 ± 0.024 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10494.9 ± 2.2 (-0.1σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.24496^{+0.00010}_{-0.00012}$ (-3.4σ)	$\chi^2_{\rm CamSpec}$	8062.5 ± 5.9
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	13.788 ± 0.041 (-0.1σ)	$\chi^2_{\rm prior}$	8.51 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99679 ± 0.00099 (-1.4σ)	z_*	1089.81 ± 0.45 (-0.2σ)	$\chi^2_{\rm CMB}$	18567.3 ± 5.9 $(+1272.5\sigma)$
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	r_*	144.93 ± 0.45 $(+0.0\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04132 ± 0.00046 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18575.85$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.49$; $R - 1 = 0.02683$

17.19 base_nrun_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02242 \pm 0.00027 \quad (+0.0\sigma)$	H_0	$67.88 \pm 0.99 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1059.95 \pm 0.55 \quad (-0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1188 \pm 0.0022 \quad (-0.1\sigma)$	Ω_Λ	$0.692 \pm 0.013 \quad (+0.1\sigma)$	$r_{\rm drag}$	$147.36 \pm 0.49 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04107 \pm 0.00048 \quad (+0.1\sigma)$	$\Omega_{\rm m}$	$0.308 \pm 0.013 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14063 \pm 0.00055 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.092 \pm 0.023 \quad (+0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1419 \pm 0.0020 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16074 \pm 0.00031 \quad (-0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.115 \pm 0.044 \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.09627 \pm 0.00052 \quad (+0.0\sigma)$	$z_{\rm eq}$	$3374 \pm 49 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9691 \pm 0.0064 \quad (+0.4\sigma)$	σ_8	$0.836 \pm 0.016 \quad (-0.0\sigma)$	$100\theta_{\rm eq}$	$0.8187 \pm 0.0093 \quad (+0.1\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	$-0.0079 \pm 0.0083 \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.464 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07178 \pm 0.00075 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.623 \pm 0.014 \quad (-0.1\sigma)$	$H(0.57)$	$93.18 \pm 0.45 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 23 \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.014 \pm 0.021 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1384 \pm 13 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.493 \pm 0.046 \quad (-0.2\sigma)$	$F_{\rm AP}(0.57)$	$0.6751 \pm 0.0034 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.0\sigma)$	$z_{\rm re}$	$11.0^{+2.0}_{-1.8} \quad (+0.0\sigma)$	$f\sigma_8(0.57)$	$0.485 \pm 0.010 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$10^9 A_{\rm s}$	$2.255^{+0.094}_{-0.11} \quad (-0.0\sigma)$	$\sigma_8(0.57)$	$0.623^{+0.012}_{-0.014} \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.12^{+1.3}_{-2.5} \quad (-0.9\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.876 \pm 0.014 \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24632 \pm 0.00011 \quad (-3.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	$1213 \pm 21 \quad (-0.3\sigma)$	f_{2000}^{143}	$29.3 \pm 3.1 \quad (-0.5\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.591 \quad (-0.2\sigma)$	D_{220}	$5702 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{217}	$106.6 \pm 2.1 \quad (+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.17 \quad (+0.6\sigma)$	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.0 \pm 2.3 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$813.9 \pm 5.3 \quad (+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.9 \pm 2.7 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	$0.995 \pm 0.027 \quad (-0.0\sigma)$	$\chi^2_{\rm CamSpec}$	8060.6 ± 6.1
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.24500^{+0.00011}_{-0.00013} \quad (-3.4\sigma)$	$\chi^2_{\rm H070p6}$	$0.75 \pm 0.49 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.783 \pm 0.042 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.42 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99683 \pm 0.00098 \quad (-1.4\sigma)$	z_*	$1089.74 \pm 0.46 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18556.5 \pm 5.9 \quad (+1270.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	r_*	$144.71 \pm 0.49 \quad (+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	$100\theta_*$	$1.04126 \pm 0.00047 \quad (+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18565.73$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.85$; $R - 1 = 0.00786$

17.20 base_nrun_CamSpecHM_TT_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00021 $(+0.1\sigma)$	Ω_m	0.3058 ± 0.0072 (-0.0σ)	z_{eq}	3360 ± 28 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1183 ± 0.0012 $(+0.0\sigma)$	$\Omega_m h^2$	0.1413 ± 0.0012 $(+0.0\sigma)$	$100\theta_{eq}$	0.8209 ± 0.0052 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04111 ± 0.00042 $(+0.1\sigma)$	$\Omega_m h^3$	0.09603 ± 0.00048 $(+0.1\sigma)$	$r_{drag}/D_V(0.57)$	0.07192 ± 0.00041 $(+0.0\sigma)$
$\boldsymbol{\tau}$	0.071 ± 0.013 $(+0.1\sigma)$	σ_8	0.8173 ± 0.0091 $(+0.1\sigma)$	$H(0.57)$	93.16 ± 0.28 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.070 ± 0.025 $(+0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4519 ± 0.0066 $(+0.1\sigma)$	$D_A(0.57)$	1382.7 ± 7.6 (-0.1σ)
$\boldsymbol{n_s}$	0.9699 ± 0.0046 $(+0.5\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6077 ± 0.0070 $(+0.1\sigma)$	$F_{AP}(0.57)$	0.6746 ± 0.0018 (-0.0σ)
$\boldsymbol{dn_s/d\ln k}$	-0.0026 ± 0.0075 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.991 ± 0.011 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4737 ± 0.0053 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.0σ)	$\langle d^2 \rangle^{1/2}$	2.443 ± 0.027 (-0.1σ)	$\sigma_8(0.57)$	0.6094 ± 0.0073 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248^{+25}_{-23} (-0.6σ)	z_{re}	$9.21^{+1.3}_{-1.1}$ $(+0.1\sigma)$	Y_P^{BBN}	0.246281 ± 0.000093 (-4.1σ)
$\boldsymbol{A_{143}^{PS}}$	40^{+8}_{-7} (-0.7σ)	$10^9 A_s$	2.155 ± 0.054 $(+0.0\sigma)$	f_{2000}^{143}	29.5 ± 3.2 (-0.5σ)
$\boldsymbol{A_{217}^{PS}}$	96 ± 10 $(+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.870 ± 0.012 (-0.4σ)	f_{2000}^{217}	106.7 ± 2.1 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.7σ)	D_{40}	1213^{+18}_{-21} (-0.3σ)	$f_{2000}^{143\times217}$	32.2 ± 2.3 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.08^{+1.2}_{-2.6}$ (-0.9σ)	D_{220}	5698^{+39}_{-44} (-0.5σ)	$\chi^2_{lensing}$	9.95 ± 1.6 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{810}	2529 ± 14 (-0.3σ)	χ^2_{lowTEB}	10494.6 ± 2.1 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.580 (-0.2σ)	D_{1420}	814.3 ± 5.3 $(+0.0\sigma)$	$\chi^2_{CamSpec}$	8062.1 ± 5.8
$\boldsymbol{A^{kSZ}}$	> 4.34 $(+0.6\sigma)$	$n_{s,0.002}$	0.978 ± 0.023 $(+0.0\sigma)$	χ^2_{H070p6}	0.65 ± 0.26 (-0.0σ)
$\boldsymbol{A_{100}^{dust}}$	0.997 ± 0.19	Y_P	0.244953 ± 0.000092 (-4.1σ)	χ^2_{JLA}	706.65 ± 0.15 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	Age/Gyr	13.789 ± 0.030 (-0.1σ)	χ^2_{6DF}	0.037 ± 0.053 (-0.0σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	z_*	1089.82 ± 0.32 (-0.1σ)	χ^2_{MGS}	1.68 ± 0.56 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	r_*	144.91 ± 0.31 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.84 ± 0.63 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00098 (-1.5σ)	$100\theta_*$	1.04131 ± 0.00042 $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.44 ± 0.43 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	z_{drag}	1059.69 ± 0.48 $(+0.1\sigma)$	χ^2_{prior}	8.50 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_{drag}	147.60 ± 0.34 (-0.1σ)	χ^2_{CMB}	18566.7 ± 5.8 $(+1314.2\sigma)$
H_0	67.98 ± 0.55 $(+0.0\sigma)$	k_D	0.14031 ± 0.00045 $(+0.1\sigma)$	χ^2_{BAO}	5.00 ± 0.95 (-0.0σ)
Ω_Λ	0.6942 ± 0.0072 $(+0.0\sigma)$	$100\theta_D$	0.16089 ± 0.00028 (-0.1σ)		

$\bar{\chi}^2_{eff} = 19287.49$; $\Delta\bar{\chi}^2_{eff} = 7282.61$; $R - 1 = 0.02448$

17.21 base_nrun_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00027 \quad (+0.1\sigma)$	$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	r_*	$144.61 \pm 0.50 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1193 \pm 0.0022 \quad (-0.1\sigma)$	H_0	$67.6 \pm 1.0 \quad (+0.1\sigma)$	$100\theta_*$	$1.04119 \pm 0.00048 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04100 \pm 0.00049 \quad (+0.1\sigma)$	Ω_Λ	$0.689 \pm 0.014 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1059.89 \pm 0.55 \quad (-0.0\sigma)$
$\boldsymbol{\tau}$	$0.090^{+0.020}_{-0.025} \quad (+0.0\sigma)$	$\Omega_{\rm m}$	$0.311 \pm 0.014 \quad (-0.1\sigma)$	$r_{\rm drag}$	$147.28 \pm 0.50 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.112^{+0.040}_{-0.049} \quad (-0.0\sigma)$	$\Omega_{\rm m} h^2$	$0.1423 \pm 0.0021 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14069 \pm 0.00056 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9679 \pm 0.0065 \quad (+0.4\sigma)$	$\Omega_{\rm m} h^3$	$0.09625 \pm 0.00051 \quad (+0.0\sigma)$	$100\theta_{\rm D}$	$0.16077 \pm 0.00031 \quad (-0.1\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	$-0.0077 \pm 0.0082 \quad (+0.1\sigma)$	σ_8	$0.836^{+0.015}_{-0.017} \quad (-0.0\sigma)$	$z_{\rm eq}$	$3385 \pm 50 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.466 \pm 0.013 \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8165 \pm 0.0096 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 23 \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.624 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07161 \pm 0.00077 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.016 \pm 0.020 \quad (-0.1\sigma)$	$H(0.57)$	$93.08^{+0.43}_{-0.49} \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.498 \pm 0.045 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1387 \pm 14 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	$z_{\rm re}$	$10.9 \pm 1.8 \quad (+0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6759 \pm 0.0035 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.10^{+1.3}_{-2.6} \quad (-0.9\sigma)$	$10^9 A_{\rm s}$	$2.248^{+0.085}_{-0.11} \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.4858 \pm 0.0097 \quad (-0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	$1.878 \pm 0.014 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.622^{+0.011}_{-0.014} \quad (+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.589 \quad (-0.2\sigma)$	D_{40}	$1215 \pm 21 \quad (-0.3\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24630 \pm 0.00011 \quad (-3.4\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.22 \quad (+0.6\sigma)$	D_{220}	$5700 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{143}	$29.5 \pm 3.1 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	$2532 \pm 14 \quad (-0.3\sigma)$	f_{2000}^{217}	$106.8 \pm 2.1 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	$813.5 \pm 5.3 \quad (+0.0\sigma)$	$f_{2000}^{143\times217}$	$32.2 \pm 2.3 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	$0.993 \pm 0.027 \quad (+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10495.9 \pm 2.7 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.24498^{+0.00011}_{-0.00013} \quad (-3.4\sigma)$	$\chi^2_{\rm CamSpec}$	8060.5 ± 6.1
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00098 \quad (-1.4\sigma)$	Age/Gyr	$13.791 \pm 0.043 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.42 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	z_*	$1089.83 \pm 0.47 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18556.4 \pm 5.9 \quad (+1281.4\sigma)$

$\bar{\chi}^2_{\rm eff} = 18564.83$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.86$; $R - 1 = 0.00717$

17.22 base_nrun_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022383	0.02239 ± 0.00017 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.00080	1.0007 ± 0.0043	r_*	144.638	144.64 ± 0.33 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11917	0.1192 ± 0.0015 (-0.5σ)	$\boldsymbol{\beta_1^1}$	−0.06	-0.1 ± 1.0	$100\theta_*$	1.041036	1.04103 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040839	$1.04084^{+0.00033}_{-0.00030}$ $(+0.2\sigma)$	H_0	67.63	67.65 ± 0.65 $(+0.5\sigma)$	z_{drag}	1059.895	1059.91 ± 0.35 $(+0.5\sigma)$
$\boldsymbol{\tau}$	0.0802	0.081 ± 0.018 (-0.1σ)	Ω_Λ	0.6891	0.6891 ± 0.0089 $(+0.5\sigma)$	r_{drag}	147.298	147.29 ± 0.33 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0919	3.094 ± 0.036 (-0.3σ)	Ω_m	0.3109	0.3109 ± 0.0089 (-0.5σ)	k_D	0.140675	0.14069 ± 0.00036 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.96667	0.9676 ± 0.0050 $(+0.8\sigma)$	$\Omega_m h^2$	0.14220	0.1422 ± 0.0014 (-0.4σ)	$100\theta_D$	0.160738	0.16073 ± 0.00020 (-0.6σ)
$\boldsymbol{dn_s/d\ln k}$	−0.0042	-0.0033 ± 0.0070 $(+0.3\sigma)$	$\Omega_m h^3$	0.096168	0.09618 ± 0.00032 $(+0.3\sigma)$	z_{eq}	3382.7	3382 ± 33 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.00020	1.0003 ± 0.0025 (-0.0σ)	σ_8	0.8275	0.829 ± 0.014 (-0.4σ)	$100\theta_{eq}$	0.8168	0.8169 ± 0.0063 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	250.0	245 ± 22 (-0.6σ)	$\sigma_8\Omega_m^{0.5}$	0.4614	0.462 ± 0.010 (-0.6σ)	$r_{drag}/D_V(0.57)$	0.071590	0.07160 ± 0.00049 $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.9	39 ± 8 (-0.8σ)	$\sigma_8\Omega_m^{0.25}$	0.6179	0.619 ± 0.011 (-0.5σ)	$H(0.57)$	93.042	93.06 ± 0.28 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	96.2	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.0062	1.008 ± 0.017 (-0.5σ)	$D_A(0.57)$	1387.1	1386.9 ± 8.7 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	47.4	46 ± 7 (-2.8σ)	$\langle d^2\rangle^{1/2}$	2.4823	2.485 ± 0.040 (-0.6σ)	$F_{AP}(0.57)$	0.67588	0.6759 ± 0.0023 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.32	$3.32^{+1.5}_{-2.5}$ (-0.9σ)	z_{re}	10.13	$10.1^{+1.8}_{-1.6}$ (-0.2σ)	$f\sigma_8(0.57)$	0.4810	0.4816 ± 0.0084 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.418	$0.52^{+0.11}_{-0.12}$	$10^9 A_s$	2.202	$2.207^{+0.077}_{-0.087}$ (-0.3σ)	$\sigma_8(0.57)$	0.6157	0.617 ± 0.011 (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.010	< 0.605 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.8754	1.876 ± 0.012 (-0.7σ)	Y_P^{BBN}	0.246309	0.246312 ± 0.000073 (-4.9σ)
$\boldsymbol{A^{kSZ}}$	5.19	$5.28^{+3.8}_{-2.3}$ $(+0.7\sigma)$	D_{40}	1221.6	1223 ± 18 (-0.3σ)	f_{2000}^{143}	29.57	28.8 ± 3.0 (-0.6σ)
$\boldsymbol{A_{100}^{dust}}$	0.973	0.99 ± 0.19	D_{220}	5711.7	5712 ± 39 (-0.4σ)	f_{2000}^{217}	106.81	106.2 ± 2.1 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.019	1.02 ± 0.18	D_{810}	2530.3	2532 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.97	31.5 ± 2.3 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.219	1.21 ± 0.12	D_{1420}	813.36	814.4 ± 4.9 $(+0.2\sigma)$	χ^2_{lowTEB}	10494.81	10496.1 ± 2.6 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.969	0.98 ± 0.18	$n_{s,0.002}$	0.9802	0.978 ± 0.022 (-0.2σ)	$\chi^2_{CamSpec}$	12936.6	12953.6 ± 6.3
$\boldsymbol{c_{100}}$	0.99672	0.99681 ± 0.00097 (-1.8σ)	Y_P	0.244977	0.244983 ± 0.000074 (-5.0σ)	χ^2_{prior}	3.64	8.89 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99732	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.7951	13.794 ± 0.026 (-0.5σ)	χ^2_{CMB}	23431.4	23449.7 ± 6.1 $(+1548.8\sigma)$
$\boldsymbol{c_{TE}}$	1.00366	1.0038 ± 0.0045	z_*	1089.813	1089.80 ± 0.30 (-0.7σ)			

Best-fit $\chi^2_{eff} = 23435.08$; $\Delta\chi^2_{eff} = 10499.96$; $\bar{\chi}^2_{eff} = 23458.60$; $\Delta\bar{\chi}^2_{eff} = 10490.54$; $R - 1 = 0.00840$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.81 (Δ -0.93) CamSpec like_v9.10CMH_unified: 12936.63

17.23 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02241 \pm 0.00016 \quad (+0.5\sigma)$	H_0	$67.76 \pm 0.47 \quad (+0.4\sigma)$	k_D	$0.14065 \pm 0.00033 \quad (+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0011 \quad (-0.3\sigma)$	Ω_Λ	$0.6908 \pm 0.0064 \quad (+0.4\sigma)$	$100\theta_D$	$0.16072 \pm 0.00020 \quad (-0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04087 \pm 0.00028 \quad (+0.1\sigma)$	Ω_m	$0.3092 \pm 0.0064 \quad (-0.4\sigma)$	z_{eq}	$3377 \pm 24 \quad (-0.3\sigma)$
$\boldsymbol{\tau}$	$0.082 \pm 0.018 \quad (-0.2\sigma)$	$\Omega_m h^2$	$0.1419 \pm 0.0010 \quad (-0.3\sigma)$	$100\theta_{eq}$	$0.8180 \pm 0.0045 \quad (+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.096 \pm 0.036 \quad (-0.4\sigma)$	$\Omega_m h^3$	$0.09618 \pm 0.00032 \quad (+0.3\sigma)$	$r_{drag}/D_V(0.57)$	$0.07169 \pm 0.00035 \quad (+0.3\sigma)$
$\boldsymbol{n_s}$	$0.9683 \pm 0.0043 \quad (+0.7\sigma)$	σ_8	$0.829 \pm 0.014 \quad (-0.4\sigma)$	$H(0.57)$	$93.10 \pm 0.22 \quad (+0.4\sigma)$
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	$-0.0033 \pm 0.0070 \quad (+0.3\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.4608 \pm 0.0091 \quad (-0.5\sigma)$	$D_A(0.57)$	$1385.4 \pm 6.4 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.618 \pm 0.011 \quad (-0.5\sigma)$	$F_{AP}(0.57)$	$0.6754 \pm 0.0016 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.007 \pm 0.017 \quad (-0.5\sigma)$	$f\sigma_8(0.57)$	$0.4812 \pm 0.0084 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.483 \pm 0.040 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.617 \pm 0.011 \quad (-0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	z_{re}	$10.2^{+1.7}_{-1.5} \quad (-0.3\sigma)$	Y_P^{BBN}	$0.246319 \pm 0.000067 \quad (-5.7\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.8\sigma)$	$10^9 A_s$	$2.211^{+0.077}_{-0.086} \quad (-0.3\sigma)$	f_{2000}^{143}	$28.6 \pm 3.0 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.34^{+1.5}_{-2.5} \quad (-1.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.875 \pm 0.012 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.2 \pm 2.0 \quad (-0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	D_{40}	$1222 \pm 18 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$31.4 \pm 2.2 \quad (-0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.605 \quad (-0.2\sigma)$	D_{220}	$5712 \pm 39 \quad (-0.4\sigma)$	χ^2_{lowTEB}	$10496.0 \pm 2.6 \quad (-0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.26^{+3.9}_{-2.3} \quad (+0.7\sigma)$	D_{810}	$2531 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{CamSpec}$	12953.3 ± 6.2
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	$814.5 \pm 4.9 \quad (+0.1\sigma)$	χ^2_{6DF}	$0.045 \pm 0.059 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{s,0.002}$	$0.979 \pm 0.022 \quad (-0.2\sigma)$	χ^2_{MGS}	$1.38 \pm 0.46 \quad (+0.3\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Y_P	$0.244990 \pm 0.000068 \quad (-5.7\sigma)$	$\chi^2_{DR11CMASS}$	$2.76 \pm 0.49 \quad (-0.2\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.790 \pm 0.022 \quad (-0.4\sigma)$	$\chi^2_{DR11LOWZ}$	$0.67 \pm 0.48 \quad (-0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00097 \quad (-1.7\sigma)$	z_*	$1089.76 \pm 0.25 \quad (-0.6\sigma)$	χ^2_{prior}	$8.88 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.69 \pm 0.25 \quad (+0.1\sigma)$	χ^2_{CMB}	$23449.3 \pm 6.0 \quad (+1573.3\sigma)$
$\boldsymbol{c_{TE}}$	1.0038 ± 0.0046	$100\theta_*$	$1.04106 \pm 0.00028 \quad (+0.1\sigma)$	χ^2_{BAO}	$4.85 \pm 0.71 \quad (-0.2\sigma)$
$\boldsymbol{c_{EE}}$	1.0007 ± 0.0043	z_{drag}	$1059.93 \pm 0.34 \quad (+0.4\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_{drag}	$147.34 \pm 0.27 \quad (+0.0\sigma)$		

$\bar{\chi}^2_{eff} = 23463.06$; $\Delta\bar{\chi}^2_{eff} = 10490.35$; $R - 1 = 0.00851$

17.24 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02241 \pm 0.00017 \quad (+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0007 ± 0.0043	r_*	$144.67 \pm 0.32 \quad (+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1190 \pm 0.0014 \quad (-0.4\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04105 \pm 0.00030 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04086 \pm 0.00030 \quad (+0.2\sigma)$	H_0	$67.73 \pm 0.63 \quad (+0.5\sigma)$	$z_{\rm drag}$	$1059.93 \pm 0.35 \quad (+0.5\sigma)$
$\boldsymbol{\tau}$	$0.082 \pm 0.019 \quad (-0.1\sigma)$	Ω_Λ	$0.6902 \pm 0.0086 \quad (+0.5\sigma)$	$r_{\rm drag}$	$147.33 \pm 0.32 \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.095 \pm 0.037 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3098 \pm 0.0086 \quad (-0.5\sigma)$	$k_{\rm D}$	$0.14066 \pm 0.00036 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9681 \pm 0.0049 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^2$	$0.1420 \pm 0.0013 \quad (-0.4\sigma)$	$100\theta_{\rm D}$	$0.16072 \pm 0.00020 \quad (-0.6\sigma)$
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	$-0.0033 \pm 0.0070 \quad (+0.3\sigma)$	$\Omega_{\rm m} h^3$	$0.09618 \pm 0.00032 \quad (+0.3\sigma)$	$z_{\rm eq}$	$3379 \pm 32 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	σ_8	$0.829 \pm 0.014 \quad (-0.4\sigma)$	$100\theta_{\rm eq}$	$0.8176 \pm 0.0060 \quad (+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4612 \pm 0.0099 \quad (-0.6\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07166 \pm 0.00048 \quad (+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.8\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.618 \pm 0.011 \quad (-0.5\sigma)$	$H(0.57)$	$93.09 \pm 0.28 \quad (+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.007 \pm 0.018 \quad (-0.5\sigma)$	$D_{\rm A}(0.57)$	$1385.8 \pm 8.4 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.484 \pm 0.040 \quad (-0.5\sigma)$	$F_{\rm AP}(0.57)$	$0.6756 \pm 0.0022 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.34^{+1.5}_{-2.5} \quad (-0.9\sigma)$	$z_{\rm re}$	$10.2^{+1.7}_{-1.6} \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4814 \pm 0.0084 \quad (-0.5\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	$2.211^{+0.077}_{-0.087} \quad (-0.3\sigma)$	$\sigma_8(0.57)$	$0.617 \pm 0.011 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.602 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.875 \pm 0.012 \quad (-0.7\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246317 \pm 0.000072 \quad (-5.0\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.26^{+3.9}_{-2.3} \quad (+0.7\sigma)$	D_{40}	$1223 \pm 18 \quad (-0.3\sigma)$	f_{2000}^{143}	$28.7 \pm 3.0 \quad (-0.6\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5712 \pm 39 \quad (-0.4\sigma)$	f_{2000}^{217}	$106.2 \pm 2.1 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2531 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.5 \pm 2.2 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	$814.4 \pm 4.9 \quad (+0.2\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.1 \pm 2.6 \quad (-0.2\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.979 \pm 0.022 \quad (-0.2\sigma)$	$\chi^2_{\rm CamSpec}$	12953.6 ± 6.2
$\boldsymbol{c_{100}}$	$0.99681 \pm 0.00097 \quad (-1.7\sigma)$	$Y_{\rm P}$	$0.244989 \pm 0.000073 \quad (-5.1\sigma)$	$\chi^2_{\rm JLA}$	$706.76 \pm 0.24 \quad (-0.4\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.791 \pm 0.026 \quad (-0.5\sigma)$	$\chi^2_{\rm prior}$	$8.89 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0038 ± 0.0046	z_*	$1089.77 \pm 0.29 \quad (-0.6\sigma)$	$\chi^2_{\rm CMB}$	$23449.7 \pm 6.1 \quad (+1555.2\sigma)$

$\bar{\chi}^2_{\rm eff} = 24165.38$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.45$; $R - 1 = 0.00868$

17.25 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02237 ± 0.00016 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0014 ± 0.0042	r_*	144.77 ± 0.31 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1187 ± 0.0014 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04109 ± 0.00029 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04090 ± 0.00030 $(+0.1\sigma)$	H_0	67.81 ± 0.64 $(+0.4\sigma)$	$z_{\rm drag}$	1059.83 ± 0.34 $(+0.5\sigma)$
$\boldsymbol{\tau}$	0.066 ± 0.014 $(+0.2\sigma)$	Ω_Λ	$0.6917^{+0.0090}_{-0.0080}$ $(+0.4\sigma)$	$r_{\rm drag}$	147.44 ± 0.31 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.062 ± 0.025 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.3083^{+0.0080}_{-0.0090}$ (-0.4σ)	$k_{\rm D}$	0.14052 ± 0.00034 $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.9686 ± 0.0049 $(+0.7\sigma)$	$\Omega_{\rm m} h^2$	0.1417 ± 0.0013 (-0.3σ)	$100\theta_{\rm D}$	0.16078 ± 0.00019 (-0.7σ)
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0004 ± 0.0067 $(+0.2\sigma)$	$\Omega_{\rm m} h^3$	0.09609 ± 0.00031 $(+0.3\sigma)$	$z_{\rm eq}$	3371 ± 31 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0024 $(+0.0\sigma)$	σ_8	0.8150 ± 0.0087 $(+0.0\sigma)$	$100\theta_{\rm eq}$	0.8190 ± 0.0060 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	245 ± 23 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4525 ± 0.0070 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07175 ± 0.00048 $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6073 ± 0.0069 (-0.2σ)	$H(0.57)$	93.10 ± 0.28 $(+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.990 ± 0.011 (-0.2σ)	$D_{\rm A}(0.57)$	1384.8 ± 8.5 (-0.4σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.446 ± 0.026 (-0.2σ)	$F_{\rm AP}(0.57)$	0.6752 ± 0.0022 (-0.4σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.32^{+1.4}_{-2.7}$ (-0.9σ)	$z_{\rm re}$	8.80 ± 1.3 $(+0.2\sigma)$	$f\sigma_8(0.57)$	0.4730 ± 0.0051 (-0.2σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	$10^9 A_{\rm s}$	$2.138^{+0.052}_{-0.057}$ $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6071 ± 0.0073 $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.597 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.871 ± 0.012 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246303 ± 0.000071 (-4.9σ)
$\boldsymbol{A^{kSZ}}$	> 3.99 $(+0.6\sigma)$	D_{40}	1222 ± 18 (-0.3σ)	f_{2000}^{143}	28.8 ± 3.0 (-0.6σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5709 ± 39 (-0.3σ)	f_{2000}^{217}	106.2 ± 2.1 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	2529 ± 13 (-0.3σ)	$f_{2000}^{143\times217}$	31.6 ± 2.2 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	814.7 ± 4.8 $(+0.1\sigma)$	$\chi^2_{\rm lensing}$	9.96 ± 1.5 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$n_{\rm s,0.002}$	0.970 ± 0.021 (-0.1σ)	$\chi^2_{\rm lowTEB}$	10495.3 ± 2.2 (-0.1σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00096 (-1.8σ)	$Y_{\rm P}$	$0.244974^{+0.000070}_{-0.000080}$ (-5.0σ)	$\chi^2_{\rm CamSpec}$	12954.6 ± 6.1
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.792 ± 0.026 (-0.5σ)	$\chi^2_{\rm prior}$	9.05 ± 3.6 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0051 ± 0.0045	z_*	1089.79 ± 0.29 (-0.6σ)	$\chi^2_{\rm CMB}$	23459.9 ± 6.1 $(+1522.1\sigma)$

$\bar{\chi}^2_{\rm eff} = 23468.94$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.88$; $R - 1 = 0.01694$

17.26 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02241 \pm 0.00017 \quad (+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0007 ± 0.0043	r_*	$144.68 \pm 0.32 \quad (+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0014 \quad (-0.4\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04106 \pm 0.00030 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04087 \pm 0.00030 \quad (+0.2\sigma)$	H_0	$67.76 \pm 0.64 \quad (+0.5\sigma)$	$z_{\rm drag}$	$1059.94 \pm 0.35 \quad (+0.5\sigma)$
$\boldsymbol{\tau}$	$0.082 \pm 0.019 \quad (-0.1\sigma)$	Ω_Λ	$0.6906 \pm 0.0087 \quad (+0.5\sigma)$	$r_{\rm drag}$	$147.34 \pm 0.32 \quad (+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.096 \pm 0.037 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3094 \pm 0.0087 \quad (-0.5\sigma)$	$k_{\rm D}$	$0.14066 \pm 0.00036 \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9682 \pm 0.0049 \quad (+0.7\sigma)$	$\Omega_{\rm m} h^2$	$0.1420 \pm 0.0013 \quad (-0.4\sigma)$	$100\theta_{\rm D}$	$0.16071 \pm 0.00020 \quad (-0.6\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	$-0.0034 \pm 0.0070 \quad (+0.3\sigma)$	$\Omega_{\rm m} h^3$	$0.09619 \pm 0.00032 \quad (+0.3\sigma)$	$z_{\rm eq}$	$3377 \pm 32 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	σ_8	$0.829 \pm 0.014 \quad (-0.4\sigma)$	$100\theta_{\rm eq}$	$0.8179 \pm 0.0061 \quad (+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 23 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.461 \pm 0.010 \quad (-0.6\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07168 \pm 0.00049 \quad (+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$39 \pm 8 \quad (-0.8\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.618 \pm 0.011 \quad (-0.5\sigma)$	$H(0.57)$	$93.10 \pm 0.28 \quad (+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.007 \pm 0.018 \quad (-0.5\sigma)$	$D_{\rm A}(0.57)$	$1385.4 \pm 8.5 \quad (-0.5\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.484 \pm 0.040 \quad (-0.5\sigma)$	$F_{\rm AP}(0.57)$	$0.6755 \pm 0.0022 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.34^{+1.5}_{-2.5} \quad (-0.9\sigma)$	$z_{\rm re}$	$10.2^{+1.7}_{-1.6} \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4813 \pm 0.0085 \quad (-0.5\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	$2.212^{+0.077}_{-0.088} \quad (-0.3\sigma)$	$\sigma_8(0.57)$	$0.617 \pm 0.011 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.602 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.875 \pm 0.012 \quad (-0.7\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246320^{+0.000079}_{-0.000072} \quad (-5.0\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.25^{+3.9}_{-2.3} \quad (+0.7\sigma)$	D_{40}	$1223 \pm 18 \quad (-0.3\sigma)$	f_{2000}^{143}	$28.6 \pm 3.0 \quad (-0.6\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5713 \pm 39 \quad (-0.4\sigma)$	f_{2000}^{217}	$106.2 \pm 2.1 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2531 \pm 14 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.4 \pm 2.2 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	$814.5 \pm 4.9 \quad (+0.2\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.1 \pm 2.6 \quad (-0.2\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.979 \pm 0.022 \quad (-0.2\sigma)$	$\chi^2_{\rm CamSpec}$	12953.7 ± 6.2
$\boldsymbol{c_{100}}$	$0.99682 \pm 0.00097 \quad (-1.7\sigma)$	$Y_{\rm P}$	$0.244992 \pm 0.000073 \quad (-5.0\sigma)$	$\chi^2_{\rm H070p6}$	$0.77 \pm 0.33 \quad (-0.5\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.790 \pm 0.026 \quad (-0.5\sigma)$	$\chi^2_{\rm prior}$	$8.89 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0038 ± 0.0046	z_*	$1089.76 \pm 0.30 \quad (-0.6\sigma)$	$\chi^2_{\rm CMB}$	$23449.8 \pm 6.1 \quad (+1552.2\sigma)$

$\bar{\chi}^2_{\rm eff} = 23459.44$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.41$; $R - 1 = 0.00871$

17.27 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02239 ± 0.00015 $(+0.5\sigma)$	Ω_Λ	0.6931 ± 0.0060 $(+0.3\sigma)$	$z_{\rm eq}$	3366 ± 23 (-0.2σ)
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0010 (-0.2σ)	$\Omega_{\rm m}$	0.3069 ± 0.0060 (-0.3σ)	$100\theta_{\rm eq}$	0.8198 ± 0.0043 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04093 ± 0.00028 (-0.1σ)	$\Omega_{\rm m}h^2$	0.14152 ± 0.00095 (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07182 ± 0.00034 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.068 ± 0.012 $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09610 ± 0.00031 $(+0.3\sigma)$	$H(0.57)$	93.14 ± 0.21 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.064 ± 0.023 (-0.0σ)	σ_8	0.8153 ± 0.0087 (-0.0σ)	$D_{\rm A}(0.57)$	1383.5 ± 6.1 (-0.3σ)
$\boldsymbol{n_s}$	0.9691 ± 0.0042 $(+0.6\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4516 ± 0.0060 (-0.2σ)	$F_{\rm AP}(0.57)$	0.6749 ± 0.0015 (-0.3σ)
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0005 ± 0.0067 $(+0.2\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6068 ± 0.0067 (-0.2σ)	$f\sigma_8(0.57)$	0.4728 ± 0.0050 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0024 (-0.0σ)	$\sigma_8/h^{0.5}$	0.989 ± 0.011 (-0.1σ)	$\sigma_8(0.57)$	0.6076 ± 0.0069 $(+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	245 ± 23 (-0.6σ)	$\langle d^2\rangle^{1/2}$	2.444 ± 0.026 (-0.2σ)	$Y_{\rm P}^{\rm BBN}$	0.246312 ± 0.000065 (-5.8σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.7σ)	$z_{\rm re}$	$8.92^{+1.2}_{-1.1}$ $(+0.1\sigma)$	f_{2000}^{143}	28.7 ± 2.9 (-0.5σ)
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$10^9A_{\rm s}$	2.142 ± 0.050 (-0.0σ)	f_{2000}^{217}	106.2 ± 2.1 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.8σ)	$10^9A_{\rm s}e^{-2\tau}$	1.870 ± 0.011 (-0.5σ)	$f_{2000}^{143\times217}$	31.5 ± 2.2 (-0.6σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.32^{+1.4}_{-2.7}$ (-1.0σ)	D_{40}	1221 ± 18 (-0.2σ)	$\chi^2_{\rm lensing}$	9.90 ± 1.5 (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	D_{220}	5710 ± 39 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10495.2 ± 2.1 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.602 (-0.2σ)	D_{810}	2529 ± 13 (-0.3σ)	$\chi^2_{\rm CamSpec}$	12954.4 ± 6.0
$\boldsymbol{A^{kSZ}}$	$5.42^{+4.4}_{-1.8}$ $(+0.7\sigma)$	D_{1420}	814.9 ± 4.8 $(+0.1\sigma)$	$\chi^2_{\rm H070p6}$	0.67 ± 0.22 (-0.3σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$n_{\rm s,0.002}$	0.971 ± 0.021 (-0.1σ)	$\chi^2_{\rm JLA}$	706.66 ± 0.14 (-0.2σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$Y_{\rm P}$	0.244982 ± 0.000065 (-5.8σ)	$\chi^2_{\rm 6DF}$	0.030 ± 0.042 (-0.2σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Age/Gyr	$13.789^{+0.023}_{-0.021}$ (-0.4σ)	$\chi^2_{\rm MGS}$	1.55 ± 0.46 $(+0.2\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	1089.74 ± 0.24 (-0.6σ)	$\chi^2_{\rm DR11CMASS}$	2.70 ± 0.41 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99679 ± 0.00097 (-1.8σ)	r_*	144.81 ± 0.24 $(+0.0\sigma)$	$\chi^2_{\rm DR11LOWZ}$	0.49 ± 0.39 (-0.2σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0017 $(+0.7\sigma)$	$100\theta_*$	1.04112 ± 0.00027 (-0.1σ)	$\chi^2_{\rm prior}$	9.03 ± 3.6 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0051 ± 0.0045	$z_{\rm drag}$	1059.86 ± 0.33 $(+0.4\sigma)$	$\chi^2_{\rm CMB}$	23459.5 ± 6.0 $(+1539.0\sigma)$
$\boldsymbol{c_{EE}}$	1.0014 ± 0.0043	$r_{\rm drag}$	147.47 ± 0.25 (-0.1σ)	$\chi^2_{\rm BAO}$	4.77 ± 0.61 (-0.0σ)
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$k_{\rm D}$	0.14050 ± 0.00031 $(+0.3\sigma)$		
H_0	67.91 ± 0.45 $(+0.3\sigma)$	$100\theta_{\rm D}$	0.16076 ± 0.00019 (-0.6σ)		

$\bar{\chi}^2_{\rm eff} = 24180.59$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.64$; $R-1 = 0.01725$

17.28 base_nrun_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02240 ± 0.00017 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0007 ± 0.0043	r_*	144.64 ± 0.33 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0015 (-0.5σ)	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04103 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04084 ± 0.00030 $(+0.2\sigma)$	H_0	67.66 ± 0.65 $(+0.5\sigma)$	$z_{\rm drag}$	1059.92 ± 0.35 $(+0.5\sigma)$
$\boldsymbol{\tau}$	$0.082^{+0.017}_{-0.020}$ (-0.1σ)	Ω_Λ	0.6893 ± 0.0088 $(+0.5\sigma)$	$r_{\rm drag}$	147.30 ± 0.33 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.095^{+0.034}_{-0.039}$ (-0.3σ)	$\Omega_{\rm m}$	0.3107 ± 0.0088 (-0.5σ)	$k_{\rm D}$	0.14068 ± 0.00036 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9677 ± 0.0049 $(+0.8\sigma)$	$\Omega_{\rm m} h^2$	0.1422 ± 0.0014 (-0.4σ)	$100\theta_{\rm D}$	0.16072 ± 0.00020 (-0.6σ)
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0034 ± 0.0070 $(+0.3\sigma)$	$\Omega_{\rm m} h^3$	0.09618 ± 0.00032 $(+0.3\sigma)$	$z_{\rm eq}$	3382 ± 33 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	σ_8	$0.829^{+0.013}_{-0.015}$ (-0.4σ)	$100\theta_{\rm eq}$	0.8170 ± 0.0062 $(+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	245 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4622 ± 0.0099 (-0.6σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07161 ± 0.00049 $(+0.5\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.8σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.619 ± 0.011 (-0.5σ)	$H(0.57)$	93.06 ± 0.28 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.008 ± 0.017 (-0.5σ)	$D_{\rm A}(0.57)$	1386.7 ± 8.7 (-0.5σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.486 ± 0.039 (-0.6σ)	$F_{\rm AP}(0.57)$	0.6758 ± 0.0022 (-0.5σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.33^{+1.5}_{-2.5}$ (-0.9σ)	$z_{\rm re}$	10.2 ± 1.5 (-0.2σ)	$f\sigma_8(0.57)$	0.4819 ± 0.0082 (-0.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	$2.211^{+0.071}_{-0.088}$ (-0.3σ)	$\sigma_8(0.57)$	$0.6171^{+0.0099}_{-0.012}$ (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.602 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.876 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246313 ± 0.000073 (-4.9σ)
$\boldsymbol{A^{kSZ}}$	$5.27^{+3.9}_{-2.3}$ $(+0.7\sigma)$	D_{40}	1223 ± 18 (-0.3σ)	f_{2000}^{143}	28.7 ± 3.0 (-0.6σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5711 ± 39 (-0.4σ)	f_{2000}^{217}	106.2 ± 2.1 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2531 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.5 ± 2.2 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	814.3 ± 4.9 $(+0.2\sigma)$	$\chi^2_{\rm lowTEB}$	10496.1 ± 2.6 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.979 ± 0.022 (-0.2σ)	$\chi^2_{\rm CamSpec}$	12953.6 ± 6.2
$\boldsymbol{c_{100}}$	0.99681 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.244984 ± 0.000073 (-5.0σ)	$\chi^2_{\rm prior}$	8.88 ± 3.6 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.793 ± 0.026 (-0.6σ)	$\chi^2_{\rm CMB}$	23449.7 ± 6.1 $(+1560.6\sigma)$
$\boldsymbol{c_{TE}}$	1.0038 ± 0.0046	z_*	1089.80 ± 0.30 (-0.7σ)		

$\bar{\chi}^2_{\rm eff} = 23458.55$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.55$; $R - 1 = 0.00795$

17.29 base_nrun_plikHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022379	0.02236 ± 0.00025	σ_8	0.8068	0.809 ± 0.020	$100\theta_*$	1.041273	1.04120 ± 0.00050
$\boldsymbol{\Omega_c h^2}$	0.11827	0.1182 ± 0.0021	$\sigma_8\Omega_m^{0.5}$	0.4458	0.447 ± 0.016	D_A/Gpc	13.9131	13.918 ± 0.047
$\boldsymbol{100\theta_{MC}}$	1.04108	1.04101 ± 0.00051	$\sigma_8\Omega_m^{0.25}$	0.5997	0.601 ± 0.017	z_{drag}	1059.82	1059.77 ± 0.54
$\boldsymbol{\tau}$	0.0613	0.063 ± 0.022	$\sigma_8/h^{0.5}$	0.9782	0.981 ± 0.026	r_{drag}	147.54	147.59 ± 0.51
$\boldsymbol{\ln(10^{10}A_s)}$	3.0480	3.053 ± 0.047	$\langle d^2\rangle^{1/2}$	2.407	2.415 ± 0.057	k_D	0.14040	0.14033 ± 0.00058
$\boldsymbol{n_s}$	0.9692	0.970 ± 0.014	z_{re}	8.35	$8.40^{+2.3}_{-2.0}$	$100\theta_D$	0.160826	0.16085 ± 0.00031
$\boldsymbol{dn_s/d\ln k}$	-0.0074	-0.007 ± 0.013	10^9A_s	2.107	$2.121^{+0.094}_{-0.11}$	z_{eq}	3361.0	3359 ± 48
$\boldsymbol{y_{cal}}$	0.99967	1.0001 ± 0.0025	$10^9A_se^{-2\tau}$	1.8642	1.868 ± 0.021	k_{eq}	0.010258	0.01025 ± 0.00015
$\boldsymbol{A_{100}^{dustTE}}$	0.1413	0.136 ± 0.038	D_{40}	1193.7	1200 ± 25	$100\theta_{eq}$	0.8209	0.8213 ± 0.0092
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1311	0.133 ± 0.029	D_{220}	5676	5688 ± 58	$100\theta_{s,eq}$	0.45334	0.4536 ± 0.0047
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.289	0.303 ± 0.085	D_{810}	2521.0	2526 ± 26	$r_{drag}/D_V(0.57)$	0.07193	0.07194 ± 0.00072
$\boldsymbol{A_{143}^{dustTE}}$	0.145	0.152 ± 0.054	D_{1420}	810.5	812 ± 14	$H(0.57)$	93.194	93.18 ± 0.42
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.325	0.334 ± 0.081	D_{2000}	228.5	229.1 ± 5.7	$D_A(0.57)$	1381.9	1382 ± 13
$\boldsymbol{A_{217}^{dustTE}}$	1.635	1.65 ± 0.25	$n_{s,0.002}$	0.9931	0.991 ± 0.035	$F_{AP}(0.57)$	0.67445	0.6745 ± 0.0032
$\boldsymbol{c_{100}}$	0.99922	0.99925 ± 0.00099	Y_P	0.245397	$0.24539^{+0.00012}_{-0.00011}$	$f\sigma_8(0.57)$	0.4675	0.469 ± 0.013
H_0	68.03	68.02 ± 0.94	Y_P^{BBN}	0.246723	$0.24671^{+0.00012}_{-0.00011}$	$\sigma_8(0.57)$	0.6017	0.603 ± 0.015
Ω_Λ	0.6947	$0.695^{+0.014}_{-0.012}$	10^5D/H	2.5896	2.594 ± 0.048	χ^2_{lowTEB}	10492.49	10494.4 ± 2.2
Ω_m	0.3053	$0.305^{+0.012}_{-0.014}$	Age/Gyr	13.7841	13.788 ± 0.039	χ^2_{plikTE}	932.55	939.5 ± 4.1
$\Omega_m h^2$	0.14129	0.1412 ± 0.0020	z_*	1089.759	1089.78 ± 0.43	χ^2_{prior}	1.90	7.88 ± 3.6
$\Omega_m h^3$	0.09612	0.09603 ± 0.00052	r_*	144.874	144.91 ± 0.50	χ^2_{CMB}	11425.04	11433.9 ± 4.3

Best-fit $\chi^2_{eff} = 11426.94$; $\bar{\chi}^2_{eff} = 11441.78$; $R-1 = 0.00865$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.49 plik_dx11dr2_HM_v18_TE: 932.55

17.30 base_nrun_plikHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02406	0.0243 ± 0.0013	$\sigma_8\Omega_m^{0.5}$	0.4291	$0.426^{+0.032}_{-0.036}$	D_A/Gpc	13.894	13.891 ± 0.078
$\boldsymbol{\Omega_c h^2}$	0.11487	0.1144 ± 0.0048	$\sigma_8\Omega_m^{0.25}$	0.5882	0.585 ± 0.032	z_{drag}	1063.40	1063.7 ± 2.6
$\boldsymbol{100\theta_{MC}}$	1.03977	1.03991 ± 0.00094	$\sigma_8/h^{0.5}$	0.9624	0.957 ± 0.047	r_{drag}	146.59	146.54 ± 0.94
$\boldsymbol{\tau}$	0.0766	$0.077^{+0.023}_{-0.026}$	$\langle d^2\rangle^{1/2}$	2.404	2.396 ± 0.093	k_D	0.14256	0.1427 ± 0.0015
$\boldsymbol{\ln(10^{10}A_s)}$	3.105	$3.105^{+0.052}_{-0.059}$	z_{re}	9.27	9.11 ± 2.1	$100\theta_D$	0.15861	$0.1585^{+0.0012}_{-0.0015}$
$\boldsymbol{n_s}$	0.9699	0.973 ± 0.019	$10^9 A_s$	2.231	$2.23^{+0.11}_{-0.14}$	z_{eq}	3320	3313 ± 94
$\boldsymbol{dn_s/d\ln k}$	−0.0200	-0.019 ± 0.017	$10^9 A_s e^{-2\tau}$	1.9142	1.914 ± 0.032	k_{eq}	0.010133	0.01011 ± 0.00029
$\boldsymbol{y_{cal}}$	1.00012	1.0000 ± 0.0025	D_{40}	1215.3	1216 ± 29	$100\theta_{eq}$	0.8322	0.835 ± 0.021
$\boldsymbol{A_{100}^{dust\,EE}}$	0.0825	0.0825 ± 0.0059	D_{220}	6021	6041 ± 210	$100\theta_{s,eq}$	0.4579	0.459 ± 0.010
$\boldsymbol{A_{100\times143}^{dust\,EE}}$	0.0494	0.0498 ± 0.0053	D_{810}	2594.3	2596 ± 42	$r_{drag}/D_V(0.57)$	0.07291	0.0732 ± 0.0018
$\boldsymbol{A_{100\times217}^{dust\,EE}}$	0.1009	0.099 ± 0.032	D_{1420}	835.4	837 ± 21	$H(0.57)$	94.54	$94.9^{+1.5}_{-1.8}$
$\boldsymbol{A_{143}^{dust\,EE}}$	0.1001	0.1010 ± 0.0072	D_{2000}	237.1	237.9 ± 8.2	$D_A(0.57)$	1350.5	1345 ± 38
$\boldsymbol{A_{143\times217}^{dust\,EE}}$	0.2235	0.224 ± 0.047	$n_{s,0.002}$	1.0343	1.034 ± 0.045	$F_{AP}(0.57)$	0.6687	0.6679 ± 0.0080
$\boldsymbol{A_{217}^{dust\,EE}}$	0.651	0.65 ± 0.13	Y_P	0.24611	0.24617 ± 0.00052	$f\sigma_8(0.57)$	0.4611	0.458 ± 0.022
H_0	70.22	70.7 ± 2.9	Y_P^{BBN}	0.24743	0.24750 ± 0.00052	$\sigma_8(0.57)$	0.6070	0.606 ± 0.016
Ω_Λ	0.7169	$0.719^{+0.033}_{-0.027}$	10^5D/H	2.304	$2.29^{+0.18}_{-0.21}$	χ^2_{lowTEB}	10492.67	10494.6 ± 2.1
Ω_m	0.2831	$0.281^{+0.027}_{-0.033}$	Age/Gyr	13.639	$13.61^{+0.17}_{-0.15}$	χ^2_{plikEE}	751.02	758.7 ± 4.5
$\Omega_m h^2$	0.13958	0.1393 ± 0.0040	z_*	1087.51	1087.3 ± 1.7	χ^2_{prior}	3.90	8.27 ± 3.5
$\Omega_m h^3$	0.09801	0.0983 ± 0.0020	r_*	144.46	144.45 ± 0.83	χ^2_{CMB}	11243.68	11253.3 ± 4.9
σ_8	0.8064	0.804 ± 0.027	$100\theta_*$	1.03978	1.03990 ± 0.00091			

Best-fit $\chi^2_{eff} = 11247.58$; $\bar{\chi}^2_{eff} = 11261.59$; $R-1 = 0.00766$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.67 plik_dx11dr2_HM_v18_EE: 751.02

17.31 base_nrun_CamSpecHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022372	0.02237 ± 0.00025 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9727	0.971 ± 0.027 (-0.4σ)	$k_{\rm D}$	0.13996	0.13993 ± 0.00060 (-0.7σ)
$\boldsymbol{\Omega_c h^2}$	0.11668	0.1166 ± 0.0021 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.381	2.379 ± 0.057 (-0.6σ)	$100\theta_{\rm D}$	0.160902	0.16091 ± 0.00032 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04129	1.04130 ± 0.00049 $(+0.6\sigma)$	$z_{\rm re}$	8.84	$8.70^{+2.3}_{-2.0}$ $(+0.1\sigma)$	$z_{\rm eq}$	3323.0	3321 ± 49 (-0.8σ)
$\boldsymbol{\tau}$	0.0668	0.067 ± 0.022 $(+0.2\sigma)$	$10^9 A_{\rm s}$	2.117	$2.117^{+0.097}_{-0.12}$ (-0.0σ)	$100\theta_{\rm eq}$	0.8280	0.8285 ± 0.0095 $(+0.8\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.053	3.051 ± 0.050 (-0.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8526	1.851 ± 0.028 (-0.8σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07247	0.07251 ± 0.00074 $(+0.8\sigma)$
$\boldsymbol{n_s}$	0.9772	0.977 ± 0.014 $(+0.5\sigma)$	D_{40}	1173.7	1173 ± 25 (-1.1σ)	$H(0.57)$	93.411	93.43 ± 0.43 $(+0.6\sigma)$
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	-0.0072	-0.008 ± 0.013 (-0.1σ)	D_{220}	5637	5635 ± 79 (-0.9σ)	$D_{\rm A}(0.57)$	1374.0	1374 ± 13 (-0.7σ)
$\boldsymbol{y_{cal}}$	1.00012	0.99999 ± 0.0025 (-0.0σ)	D_{810}	2516.8	2514 ± 37 (-0.5σ)	$F_{\rm AP}(0.57)$	0.67214	0.6721 ± 0.0032 (-0.7σ)
$\boldsymbol{c_{TE}}$	0.9995	0.9990 ± 0.0099	D_{1420}	811.9	811 ± 16 (-0.1σ)	$f\sigma_8(0.57)$	0.4646	0.464 ± 0.013 (-0.4σ)
H_0	68.66	68.70 ± 0.95 $(+0.7\sigma)$	$n_{\rm s,0.002}$	1.0002	1.003 ± 0.035 $(+0.3\sigma)$	$\sigma_8(0.57)$	0.6033	0.603 ± 0.015 (-0.1σ)
Ω_Λ	0.7037	0.704 ± 0.012 $(+0.7\sigma)$	$Y_{\rm P}$	0.244972	0.24498 ± 0.00011 (-3.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246304	$0.24630^{+0.00012}_{-0.00011}$ (-3.6σ)
$\Omega_{\rm m}$	0.2963	0.296 ± 0.012 (-0.7σ)	Age/Gyr	13.7718	13.771 ± 0.039 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10491.77	10493.4 ± 1.7 (-0.4σ)
$\Omega_{\rm m} h^2$	0.13970	0.1396 ± 0.0020 (-0.8σ)	z_*	1089.609	1089.60 ± 0.43 (-0.4σ)	$\chi^2_{\rm CamSpec}$	2694.72	2700.1 ± 3.3
$\Omega_{\rm m} h^3$	0.09592	0.09591 ± 0.00052 (-0.2σ)	r_*	145.30	145.32 ± 0.51 $(+0.8\sigma)$	$\chi^2_{\rm prior}$	10.03	12.0 ± 1.9 $(+1.1\sigma)$
σ_8	0.8060	0.805 ± 0.021 (-0.2σ)	$100\theta_*$	1.041487	1.04149 ± 0.00049 $(+0.6\sigma)$	$\chi^2_{\rm CMB}$	13186.49	13193.5 ± 3.8 $(+409.9\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4388	0.438 ± 0.016 (-0.6σ)	$z_{\rm drag}$	1059.70	1059.68 ± 0.55 (-0.2σ)			
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5947	0.594 ± 0.018 (-0.4σ)	$r_{\rm drag}$	147.97	148.00 ± 0.53 $(+0.8\sigma)$			

Best-fit $\chi^2_{\rm eff} = 13196.52$; $\Delta\chi^2_{\rm eff} = 1769.59$; $\bar{\chi}^2_{\rm eff} = 13205.50$; $\Delta\bar{\chi}^2_{\rm eff} = 1763.72$; $R - 1 = 0.00874$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10491.77 (Δ -0.71) CamSpec like_v9.10CMH_unified: 2694.72

17.32 base_nrun_CamSpecHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02440	0.0244 ± 0.0011 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9612	0.963 ± 0.040 $(+0.1\sigma)$	k_D	0.14363	0.1436 ± 0.0013 $(+0.6\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11643	0.1165 ± 0.0040 $(+0.4\sigma)$	$\langle d^2\rangle^{1/2}$	2.421	2.422 ± 0.080 $(+0.3\sigma)$	$100\theta_D$	0.15814	$0.1582^{+0.0010}_{-0.0012}$ (-0.3σ)
$\boldsymbol{100\theta_{MC}}$	1.03971	1.03971 ± 0.00075 (-0.2σ)	z_{re}	8.78	$8.76^{+2.3}_{-1.9}$ (-0.2σ)	z_{eq}	3365	3368 ± 79 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.0716	0.073 ± 0.024 (-0.2σ)	$10^9 A_s$	2.213	$2.22^{+0.11}_{-0.13}$ (-0.1σ)	$100\theta_{eq}$	0.8246	0.825 ± 0.017 (-0.5σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.097	3.099 ± 0.053 (-0.1σ)	$10^9 A_s e^{-2\tau}$	1.9181	1.918 ± 0.033 $(+0.1\sigma)$	$r_{drag}/D_V(0.57)$	0.07246	0.0725 ± 0.0015 (-0.4σ)
$\boldsymbol{n_s}$	0.9592	0.960 ± 0.015 (-0.6σ)	D_{40}	1229.7	1227 ± 27 $(+0.4\sigma)$	$H(0.57)$	94.60	$94.7^{+1.2}_{-1.4}$ (-0.1σ)
$\boldsymbol{dn_s/d\ln k}$	−0.0239	-0.025 ± 0.016 (-0.3σ)	D_{220}	6072	6066 ± 190 $(+0.1\sigma)$	$D_A(0.57)$	1353.1	1353 ± 31 $(+0.2\sigma)$
$\boldsymbol{y_{cal}}$	1.00004	1.0001 ± 0.0025 $(+0.0\sigma)$	D_{810}	2586.2	2586 ± 43 (-0.2σ)	$F_{AP}(0.57)$	0.6704	0.6706 ± 0.0067 $(+0.3\sigma)$
$\boldsymbol{c_{EE}}$	0.9986	0.999 ± 0.010	D_{1420}	829.3	829 ± 18 (-0.4σ)	$f\sigma_8(0.57)$	0.4613	0.462 ± 0.019 $(+0.2\sigma)$
H_0	69.91	69.9 ± 2.3 (-0.3σ)	$n_{s,0.002}$	1.0362	1.039 ± 0.042 $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6033	0.604 ± 0.015 (-0.1σ)
Ω_Λ	0.7105	$0.709^{+0.028}_{-0.024}$ (-0.3σ)	Y_P	0.245807	0.24580 ± 0.00041 (-0.7σ)	Y_P^{BBN}	0.247129	0.24712 ± 0.00041 (-0.7σ)
Ω_m	0.2895	$0.291^{+0.024}_{-0.028}$ $(+0.3\sigma)$	Age/Gyr	13.614	13.61 ± 0.13 $(+0.0\sigma)$	χ^2_{lowTEB}	10493.04	10494.7 ± 2.0 $(+0.1\sigma)$
$\Omega_m h^2$	0.14148	0.1416 ± 0.0033 $(+0.6\sigma)$	z_*	1087.26	1087.3 ± 1.4 (-0.0σ)	$\chi^2_{CamSpec}$	2186.10	2191.5 ± 3.3
$\Omega_m h^3$	0.09891	0.0989 ± 0.0016 $(+0.3\sigma)$	r_*	143.80	143.77 ± 0.67 (-0.8σ)	χ^2_{prior}	10.05	12.1 ± 2.0 $(+1.1\sigma)$
σ_8	0.8036	0.805 ± 0.024 $(+0.0\sigma)$	$100\theta_*$	1.03969	1.03970 ± 0.00073 (-0.2σ)	χ^2_{CMB}	12679.14	12686.2 ± 3.7 $(+291.1\sigma)$
$\sigma_8\Omega_m^{0.5}$	0.4324	0.434 ± 0.028 $(+0.2\sigma)$	z_{drag}	1064.20	1064.2 ± 2.1 $(+0.2\sigma)$			
$\sigma_8\Omega_m^{0.25}$	0.5895	0.591 ± 0.027 $(+0.2\sigma)$	r_{drag}	145.82	145.79 ± 0.76 (-0.8σ)			

Best-fit $\chi^2_{eff} = 12689.19$; $\Delta\chi^2_{eff} = 1441.61$; $\bar{\chi}^2_{eff} = 12698.31$; $\Delta\bar{\chi}^2_{eff} = 1436.72$; $R - 1 = 0.00988$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.04 (Δ 0.37) CamSpec like_v9.10CMH_unified: 2186.10

17.33 base_nrun_plikHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022313	0.02231 ± 0.00026	σ_8	0.8070	0.802 ± 0.017	$100\theta_*$	1.04117	1.04118 ± 0.00050
$\boldsymbol{\Omega_c h^2}$	0.11790	0.1179 ± 0.0022	$\sigma_8\Omega_m^{0.5}$	0.4450	0.442 ± 0.015	D_A/Gpc	13.9285	13.928 ± 0.048
$\boldsymbol{100\theta_{MC}}$	1.04099	1.04099 ± 0.00051	$\sigma_8\Omega_m^{0.25}$	0.5992	0.596 ± 0.016	z_{drag}	1059.67	1059.65 ± 0.55
$\boldsymbol{\tau}$	0.0523	0.048 ± 0.018	$\sigma_8/h^{0.5}$	0.9782	0.972 ± 0.023	r_{drag}	147.71	147.71 ± 0.52
$\boldsymbol{\ln(10^{10}A_s)}$	3.0238	$3.016^{+0.038}_{-0.044}$	$\langle d^2\rangle^{1/2}$	2.453	2.436 ± 0.056	k_D	0.14017	0.14017 ± 0.00059
$\boldsymbol{n_s}$	0.9784	0.976 ± 0.016	z_{re}	7.45	$6.93^{+2.1}_{-1.8}$	$100\theta_D$	0.160913	0.16092 ± 0.00032
$\boldsymbol{dn_s/d\ln k}$	0.0334	0.027 ± 0.025	$10^9 A_s$	2.057	$2.042^{+0.075}_{-0.092}$	z_{eq}	3350.7	3351 ± 50
$\boldsymbol{y_{cal}}$	1.00032	1.0002 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8527	1.852 ± 0.022	k_{eq}	0.010227	0.01023 ± 0.00015
$\boldsymbol{A_{100}^{dustTE}}$	0.1358	0.138 ± 0.038	D_{40}	1284	1273 ± 51	$100\theta_{eq}$	0.8225	0.8226 ± 0.0095
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1311	0.134 ± 0.029	D_{220}	5709	5704 ± 58	$100\theta_{s,eq}$	0.45423	0.4543 ± 0.0049
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.304	0.305 ± 0.085	D_{810}	2520.7	2517 ± 26	$r_{drag}/D_V(0.57)$	0.07200	0.07201 ± 0.00075
$\boldsymbol{A_{143}^{dustTE}}$	0.152	0.156 ± 0.054	D_{1420}	823.7	820 ± 16	$H(0.57)$	93.156	93.17 ± 0.43
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.351	0.337 ± 0.081	D_{2000}	235.5	233.8 ± 7.1	$D_A(0.57)$	1381.8	1382 ± 13
$\boldsymbol{A_{217}^{dustTE}}$	1.729	1.66 ± 0.26	$n_{s,0.002}$	0.871	0.888 ± 0.071	$F_{AP}(0.57)$	0.67412	0.6742 ± 0.0033
$\boldsymbol{c_{100}}$	0.99922	0.9992 ± 0.0010	Y_P	0.245368	0.24536 ± 0.00012	$f\sigma_8(0.57)$	0.4673	0.464 ± 0.011
H_0	68.07	68.07 ± 0.97	Y_P^{BBN}	0.246694	0.24669 ± 0.00012	$\sigma_8(0.57)$	0.6022	0.598 ± 0.012
Ω_Λ	0.6960	0.696 ± 0.013	10^5D/H	2.6021	2.603 ± 0.049	χ^2_{lowEB}	5430.76	5431.6 ± 1.2
Ω_m	0.3040	0.304 ± 0.013	Age/Gyr	13.7924	13.792 ± 0.040	χ^2_{plikTE}	929.83	938.0 ± 4.1
$\Omega_m h^2$	0.14086	0.1409 ± 0.0021	z_*	1089.808	1089.82 ± 0.45	χ^2_{prior}	1.82	7.81 ± 3.7
$\Omega_m h^3$	0.09588	0.09588 ± 0.00053	r_*	145.02	145.02 ± 0.51	χ^2_{CMB}	6360.59	6369.6 ± 4.3

Best-fit $\chi^2_{eff} = 6362.40$; $\bar{\chi}^2_{eff} = 6377.41$; $R - 1 = 0.00882$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.76 plik_dx11dr2_HM_v18_TE: 929.83

17.34 base_nrun_plikHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02339	0.0236 ± 0.0015	$\sigma_8\Omega_m^{0.5}$	0.4244	0.425 ± 0.034	D_A/Gpc	13.947	13.933 ± 0.093
$\boldsymbol{\Omega_c h^2}$	0.1146	0.1146 ± 0.0051	$\sigma_8\Omega_m^{0.25}$	0.5810	0.582 ± 0.031	z_{drag}	1061.88	1062.2 ± 3.1
$\boldsymbol{100\theta_{MC}}$	1.03992	1.03992 ± 0.00096	$\sigma_8/h^{0.5}$	0.9521	0.953 ± 0.045	r_{drag}	147.39	147.2 ± 1.2
$\boldsymbol{\tau}$	0.0506	$0.054^{+0.019}_{-0.023}$	$\langle d^2\rangle^{1/2}$	2.414	2.416 ± 0.096	k_D	0.14127	0.1415 ± 0.0020
$\boldsymbol{\ln(10^{10}A_s)}$	3.037	$3.047^{+0.048}_{-0.060}$	z_{re}	7.01	$7.20^{+2.1}_{-1.9}$	$100\theta_D$	0.15945	$0.1594^{+0.0015}_{-0.0019}$
$\boldsymbol{n_s}$	0.9822	$0.983^{+0.022}_{-0.025}$	$10^9 A_s$	2.084	$2.108^{+0.094}_{-0.13}$	z_{eq}	3298	3303 ± 100
$\boldsymbol{dn_s/d\ln k}$	0.0291	0.023 ± 0.042	$10^9 A_s e^{-2\tau}$	1.8835	1.889 ± 0.040	k_{eq}	0.010066	0.01008 ± 0.00031
$\boldsymbol{y_{cal}}$	1.00017	1.0001 ± 0.0025	D_{40}	1299	1291^{+70}_{-78}	$100\theta_{eq}$	0.8345	$0.835^{+0.021}_{-0.024}$
$\boldsymbol{A_{100}^{dustEE}}$	0.0790	0.0793 ± 0.0065	D_{220}	5947	5965 ± 240	$100\theta_{s,eq}$	0.4596	$0.460^{+0.010}_{-0.011}$
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0457	0.0462 ± 0.0061	D_{810}	2574.1	2578 ± 46	$r_{drag}/D_V(0.57)$	0.07293	$0.0730^{+0.0018}_{-0.0021}$
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1013	0.099 ± 0.033	D_{1420}	844.4	844 ± 23	$H(0.57)$	94.09	$94.3^{+1.6}_{-1.9}$
$\boldsymbol{A_{143}^{dustEE}}$	0.0966	0.0972 ± 0.0078	D_{2000}	242.6	$242.5^{+9.3}_{-11}$	$D_A(0.57)$	1357.9	1355 ± 41
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2210	0.223 ± 0.047	$n_{s,0.002}$	0.888	0.91 ± 0.12	$F_{AP}(0.57)$	0.6691	0.6691 ± 0.0085
$\boldsymbol{A_{217}^{dustEE}}$	0.632	0.65 ± 0.13	Y_P	0.24583	$0.24589^{+0.00067}_{-0.00059}$	$f\sigma_8(0.57)$	0.4552	0.455 ± 0.021
H_0	69.79	70.0 ± 3.0	Y_P^{BBN}	0.24716	$0.24722^{+0.00067}_{-0.00059}$	$\sigma_8(0.57)$	0.5983	0.599 ± 0.013
Ω_Λ	0.7153	$0.715^{+0.036}_{-0.030}$	10^5D/H	2.411	$2.40^{+0.21}_{-0.28}$	χ^2_{lowEB}	5430.67	5431.7 ± 1.3
Ω_m	0.2847	$0.285^{+0.030}_{-0.036}$	Age/Gyr	13.701	13.68 ± 0.18	χ^2_{plikEE}	750.55	759.2 ± 4.6
$\Omega_m h^2$	0.13866	0.1389 ± 0.0042	z_*	1088.23	$1088.1^{+1.8}_{-2.2}$	χ^2_{prior}	3.19	7.58 ± 3.4
$\Omega_m h^3$	0.09678	0.0971 ± 0.0023	r_*	145.05	144.90 ± 0.99	χ^2_{CMB}	6181.23	6190.9 ± 4.7
σ_8	0.7954	0.797 ± 0.024	$100\theta_*$	1.04000	1.03998 ± 0.00094			

Best-fit $\chi^2_{eff} = 6184.41$; $\bar{\chi}^2_{eff} = 6198.47$; $R - 1 = 0.00962$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.67 plik_dx11dr2_HM_v18_EE: 750.55

17.35 base_nrun_plikHM_TT_tau07

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022111	0.02211 ± 0.00027	Ω_Λ	0.6790	0.678 ± 0.014	r_*	144.455	144.44 ± 0.50
$\boldsymbol{\Omega_{\rm c}h^2}$	0.12067	0.1208 ± 0.0022	$\Omega_{\rm m}$	0.3210	0.322 ± 0.014	$100\theta_*$	1.040957	1.04095 ± 0.00047
$\boldsymbol{100\theta_{\rm MC}}$	1.040757	1.04074 ± 0.00048	$\Omega_{\rm m}h^2$	0.14343	0.1435 ± 0.0021	$D_{\rm A}/{\rm Gpc}$	13.8772	13.876 ± 0.046
$\boldsymbol{\tau}$	0.0814	0.081 ± 0.019	$\Omega_{\rm m}h^3$	0.09588	0.09588 ± 0.00053	$z_{\rm drag}$	1059.40	1059.38 ± 0.57
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0977	3.098 ± 0.037	σ_8	0.8372	0.837 ± 0.015	$r_{\rm drag}$	147.20	147.19 ± 0.51
$\boldsymbol{n_{\rm s}}$	0.9632	0.9624 ± 0.0062	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4743	0.475 ± 0.014	$k_{\rm D}$	0.14055	0.14056 ± 0.00058
$\boldsymbol{{\rm d}n_{\rm s}/{\rm d}\ln k}$	0.0069	0.0058 ± 0.0099	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6301	0.630 ± 0.014	$100\theta_{\rm D}$	0.161072	0.16108 ± 0.00033
$\boldsymbol{A_{217}^{\rm CIB}}$	65.5	63.3 ± 6.8	$\sigma_8/h^{0.5}$	1.0239	1.024 ± 0.020	$z_{\rm eq}$	3412	3414 ± 50
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.12	—	$\langle d^2\rangle^{1/2}$	2.5407	2.541 ± 0.049	$k_{\rm eq}$	0.010414	0.01042 ± 0.00015
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.18	5.19 ± 1.9	$z_{\rm re}$	10.35	$10.3^{+1.9}_{-1.6}$	$100\theta_{\rm eq}$	0.8107	0.8105 ± 0.0094
$\boldsymbol{A_{100}^{\rm PS}}$	250.6	257 ± 28	$10^9A_{\rm s}$	2.215	2.216 ± 0.082	$100\theta_{\rm s,eq}$	0.44821	0.4481 ± 0.0048
$\boldsymbol{A_{143}^{\rm PS}}$	39.3	43 ± 8	$10^9A_{\rm s}e^{-2\tau}$	1.8820	1.883 ± 0.014	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07108	0.07106 ± 0.00074
$\boldsymbol{A_{143\times217}^{PS}}$	35.5	39 ± 10	D_{40}	1262.8	1263 ± 28	$H(0.57)$	92.667	92.67 ± 0.43
$\boldsymbol{A_{217}^{\rm PS}}$	99.3	98 ± 10	D_{220}	5721.5	5723 ± 41	$D_{\rm A}(0.57)$	1398.0	1398 ± 13
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.46	D_{810}	2532.0	2532 ± 14	$F_{\rm AP}(0.57)$	0.67841	0.6786 ± 0.0035
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.27	7.29 ± 1.9	D_{1420}	814.3	813.6 ± 5.1	$f\sigma_8(0.57)$	0.4892	0.4890 ± 0.0095
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	8.95	8.92 ± 1.8	D_{2000}	230.69	230.4 ± 1.9	$\sigma_8(0.57)$	0.6205	0.620 ± 0.011
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.59	17.0 ± 4.2	$n_{\rm s,0.002}$	0.9408	0.944 ± 0.032	f_{2000}^{143}	28.91	29.6 ± 3.1
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	82.2	81.9 ± 7.4	$Y_{\rm P}$	0.245273	0.24527 ± 0.00012	$f_{2000}^{143\times217}$	31.77	32.1 ± 2.3
$\boldsymbol{c_{100}}$	0.99795	0.99792 ± 0.00077	$Y_{\rm P}^{\rm BBN}$	0.246599	0.24660 ± 0.00012	f_{2000}^{217}	105.46	105.8 ± 2.1
$\boldsymbol{c_{217}}$	0.99582	0.9958 ± 0.0014	$10^5{\rm D/H}$	2.641	2.642 ± 0.052	$\chi^2_{\rm plik}$	762.1	777.0 ± 5.6
$\boldsymbol{y_{\rm cal}}$	1.00018	1.0002 ± 0.0025	Age/Gyr	13.8316	13.832 ± 0.042	$\chi^2_{\rm prior}$	2.24	8.37 ± 3.9
H_0	66.85	66.82 ± 0.99	z_*	1090.311	1090.32 ± 0.48			

Best-fit $\chi^2_{\rm eff} = 764.38$; $\bar{\chi}^2_{\rm eff} = 785.35$; $R-1 = 0.00514$
$\chi^2_{\rm eff}$: CMB - plik_dx11dr2_HM_v18_TT: 762.14

17.36 base_nrun_plikHM_TTTEEE_tau07

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022216	0.02220 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.304 ± 0.084	Y_P^{BBN}	0.246651	0.246643 ± 0.000077
$\boldsymbol{\Omega_c h^2}$	0.12000	0.1202 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.156 ± 0.054	10^5D/H	2.6205	2.623 ± 0.032
$\boldsymbol{100\theta_{MC}}$	1.040738	1.04073 ± 0.00032	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.340 ± 0.080	Age/Gyr	13.8186	13.820 ± 0.026
$\boldsymbol{\tau}$	0.0874	0.084 ± 0.016	$\boldsymbol{A^{dustTE}_{217}}$	1.673	1.68 ± 0.25	z_*	1090.114	1090.15 ± 0.30
$\boldsymbol{\ln(10^{10}A_s)}$	3.1090	3.103 ± 0.032	$\boldsymbol{c_{100}}$	0.99830	0.99818 ± 0.00077	r_*	144.549	144.51 ± 0.32
$\boldsymbol{n_s}$	0.96514	0.9631 ± 0.0048	$\boldsymbol{c_{217}}$	0.99569	0.9959 ± 0.0015	$100\theta_*$	1.040936	1.04093 ± 0.00032
$\boldsymbol{dn_s/d\ln k}$	0.0086	0.0058 ± 0.0083	$\boldsymbol{y_{cal}}$	1.00011	1.0003 ± 0.0025	D_A/Gpc	13.8865	13.883 ± 0.030
$\boldsymbol{A^{CIB}_{217}}$	61.4	63.1 ± 6.7	H_0	67.17	67.10 ± 0.65	z_{drag}	1059.589	1059.56 ± 0.34
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.63	—	Ω_Λ	0.6833	$0.6821^{+0.0098}_{-0.0088}$	r_{drag}	147.263	147.23 ± 0.32
$\boldsymbol{A^{tSZ}_{143}}$	6.83	$5.47^{+2.1}_{-1.9}$	Ω_m	0.3167	0.3179 ± 0.0091	k_D	0.140566	0.14059 ± 0.00035
$\boldsymbol{A^{PS}_{100}}$	248.2	259 ± 28	$\Omega_m h^2$	0.14286	0.1430 ± 0.0014	$100\theta_D$	0.160945	0.16096 ± 0.00020
$\boldsymbol{A^{PS}_{143}}$	45.6	42 ± 8	$\Omega_m h^3$	0.095952	0.09596 ± 0.00031	z_{eq}	3398.5	3403 ± 33
$\boldsymbol{A^{PS}_{143\times217}}$	49.6	40 ± 10	σ_8	0.8402	0.837 ± 0.013	k_{eq}	0.010372	0.01039 ± 0.00010
$\boldsymbol{A^{PS}_{217}}$	105.2	98 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4728	0.472 ± 0.010	$100\theta_{eq}$	0.8134	0.8127 ± 0.0062
$\boldsymbol{A^{kSZ}}$	0.00	< 3.88	$\sigma_8\Omega_m^{0.25}$	0.6303	0.629 ± 0.011	$100\theta_{s,eq}$	0.44954	0.4492 ± 0.0032
$\boldsymbol{A^{dustTT}_{100}}$	7.31	7.30 ± 1.9	$\sigma_8/h^{0.5}$	1.0251	1.022 ± 0.017	$r_{drag}/D_V(0.57)$	0.071290	0.07124 ± 0.00049
$\boldsymbol{A^{dustTT}_{143}}$	8.85	8.88 ± 1.8	$\langle d^2\rangle^{1/2}$	2.5476	2.540 ± 0.041	$H(0.57)$	92.808	92.79 ± 0.28
$\boldsymbol{A^{dustTT}_{143\times217}}$	18.09	16.9 ± 4.1	z_{re}	10.84	$10.5^{+1.6}_{-1.3}$	$D_A(0.57)$	1393.6	1394.6 ± 8.7
$\boldsymbol{A^{dustTT}_{217}}$	82.8	81.7 ± 7.4	$10^9 A_s$	2.240	2.229 ± 0.072	$F_{AP}(0.57)$	0.67734	0.6776 ± 0.0023
$\boldsymbol{A^{dustEE}_{100}}$	0.0802	0.0803 ± 0.0057	$10^9 A_s e^{-2\tau}$	1.8805	1.882 ± 0.012	$f\sigma_8(0.57)$	0.4898	0.4884 ± 0.0079
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0475	0.0477 ± 0.0051	D_{40}	1267.7	1264 ± 24	$\sigma_8(0.57)$	0.6237	0.6213 ± 0.0098
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0991	0.099 ± 0.033	D_{220}	5737.0	5739 ± 39	f^{143}_{2000}	27.24	28.8 ± 3.1
$\boldsymbol{A^{dustEE}_{143}}$	0.0990	0.0990 ± 0.0069	D_{810}	2533.7	2533 ± 14	$f^{143\times217}_{2000}$	30.77	31.6 ± 2.2
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2224	0.224 ± 0.046	D_{1420}	816.1	814.5 ± 5.0	f^{217}_{2000}	104.24	105.3 ± 2.1
$\boldsymbol{A^{dustEE}_{217}}$	0.646	0.65 ± 0.13	D_{2000}	231.63	230.8 ± 1.9	χ^2_{plik}	2430.4	2450.3 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1417	0.141 ± 0.037	$n_{s,0.002}$	0.9373	0.944 ± 0.026	χ^2_{prior}	6.85	20 ± 6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1314	0.131 ± 0.029	Y_P	0.245325	0.245317 ± 0.000076			

Best-fit $\chi^2_{eff} = 2437.28$; $\bar{\chi}^2_{eff} = 2470.34$; $R - 1 = 0.00793$
χ^2_{eff}: CMB - plik_dx11dr2_HM_v18_TTTEEE: 2430.43

17.37 base_nrun_CamSpecHM_TT_tau07

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02214 \pm 0.00027 \quad (+0.1\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	$144.51 \pm 0.50 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1204 \pm 0.0022 \quad (-0.2\sigma)$	H_0	$67.0 \pm 1.0 \quad (+0.2\sigma)$	$100\theta_*$	$1.04103 \pm 0.00048 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04081 \pm 0.00049 \quad (+0.2\sigma)$	Ω_Λ	$0.681 \pm 0.014 \quad (+0.2\sigma)$	z_{drag}	$1059.42 \pm 0.56 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.082 \pm 0.019 \quad (+0.0\sigma)$	Ω_m	$0.319 \pm 0.014 \quad (-0.2\sigma)$	r_{drag}	$147.25 \pm 0.51 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.096 \pm 0.036 \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1432 \pm 0.0021 \quad (-0.2\sigma)$	k_D	$0.14054 \pm 0.00058 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.9650 \pm 0.0063 \quad (+0.4\sigma)$	$\Omega_m h^3$	$0.09592 \pm 0.00053 \quad (+0.1\sigma)$	$100\theta_D$	$0.16103 \pm 0.00032 \quad (-0.1\sigma)$
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	$0.0048 \pm 0.0099 \quad (-0.1\sigma)$	σ_8	$0.835 \pm 0.014 \quad (-0.1\sigma)$	z_{eq}	$3406 \pm 50 \quad (-0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$245 \pm 23 \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.472 \pm 0.014 \quad (-0.2\sigma)$	$100\theta_{eq}$	$0.8121 \pm 0.0094 \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.628 \pm 0.013 \quad (-0.2\sigma)$	$r_{drag}/D_V(0.57)$	$0.07120 \pm 0.00075 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.020 \pm 0.020 \quad (-0.2\sigma)$	$H(0.57)$	$92.75 \pm 0.44 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.526 \pm 0.048 \quad (-0.3\sigma)$	$D_A(0.57)$	$1396 \pm 13 \quad (-0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.32^{+1.5}_{-2.5} \quad (-1.0\sigma)$	z_{re}	$10.3^{+1.8}_{-1.5} \quad (+0.0\sigma)$	$F_{AP}(0.57)$	$0.6779 \pm 0.0035 \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.13}$	$10^9 A_s$	$2.211 \pm 0.080 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4874 \pm 0.0094 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.602 \quad (-0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.877 \pm 0.014 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.620 \pm 0.011 \quad (-0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.21^{+3.6}_{-2.6} \quad (+0.7\sigma)$	D_{40}	$1251 \pm 28 \quad (-0.4\sigma)$	Y_P^{BBN}	$0.24620 \pm 0.00012 \quad (-3.2\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{220}	$5703 \pm 41 \quad (-0.5\sigma)$	f_{2000}^{143}	$28 \pm 3 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2528 \pm 14 \quad (-0.2\sigma)$	f_{2000}^{217}	$106.1 \pm 2.2 \quad (+0.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$813.5 \pm 5.2 \quad (-0.0\sigma)$	$f_{2000}^{143\times217}$	$31.4 \pm 2.4 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{s,0.002}$	$0.949 \pm 0.032 \quad (+0.2\sigma)$	$\chi^2_{CamSpec}$	8059.7 ± 5.9
$\boldsymbol{y_{cal}}$	$1.0001 \pm 0.0025 \quad (-0.0\sigma)$	Y_P	$0.24488 \pm 0.00011 \quad (-3.2\sigma)$	χ^2_{prior}	$9.52 \pm 3.8 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99684 \pm 0.00097 \quad (-1.4\sigma)$	Age/Gyr	$13.825 \pm 0.042 \quad (-0.2\sigma)$		
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.9\sigma)$	z_*	$1090.23 \pm 0.47 \quad (-0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 8069.21$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.86$; $R - 1 = 0.00653$

18 nrun+r

18.1 base_nrun_r_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022355	0.02245 ± 0.00028	$\Omega_m h^2$	0.14270	0.1422 ± 0.0022	k_D	0.14075	0.14077 ± 0.00058
$\boldsymbol{\Omega_c h^2}$	0.11970	0.1191 ± 0.0023	$\Omega_m h^3$	0.09624	0.09635 ± 0.00055	$100\theta_D$	0.160788	0.16070 ± 0.00033
$\boldsymbol{100\theta_{MC}}$	1.040907	1.04099 ± 0.00049	σ_8	0.8359	0.835 ± 0.016	z_{eq}	3395	3384 ± 51
$\boldsymbol{\tau}$	0.0874	$0.090^{+0.022}_{-0.024}$	$\sigma_8\Omega_m^{0.5}$	0.4682	0.465 ± 0.014	k_{eq}	0.010361	0.01033 ± 0.00016
$\boldsymbol{\ln(10^{10}A_s)}$	3.1101	3.115 ± 0.044	$\sigma_8\Omega_m^{0.25}$	0.6256	0.623 ± 0.014	$100\theta_{eq}$	0.8146	0.8170 ± 0.0098
$\boldsymbol{n_s}$	0.9653	0.9667 ± 0.0066	$\sigma_8/h^{0.5}$	1.0179	1.015 ± 0.021	$100\theta_{s,eq}$	0.4501	0.4513 ± 0.0050
$\boldsymbol{dn_s/d\ln k}$	-0.0074	$-0.0126^{+0.0098}_{-0.0087}$	$\langle d^2\rangle^{1/2}$	2.5060	2.492 ± 0.048	$r_{drag}/D_V(0.57)$	0.07144	0.07166 ± 0.00079
$\boldsymbol{r}$	0.0000	< 0.0765	z_{re}	10.79	10.9 ± 1.9	$H(0.57)$	92.985	93.14 ± 0.47
$\boldsymbol{y_{cal}}$	1.00010	1.0004 ± 0.0025	$10^9 A_s$	2.242	$2.256^{+0.092}_{-0.11}$	$D_A(0.57)$	1389.4	1385 ± 14
$\boldsymbol{A_{217}^{CIB}}$	67.8	65.1 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8828	1.883 ± 0.014	$F_{AP}(0.57)$	0.67659	0.6757 ± 0.0036
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1222.0	1231 ± 23	$f\sigma_8(0.57)$	0.4866	0.485 ± 0.010
$\boldsymbol{A_{143}^{tSZ}}$	7.10	4.85 ± 2.0	D_{220}	5717.5	5717 ± 41	$\sigma_8(0.57)$	0.6213	0.622 ± 0.013
$\boldsymbol{A_{100}^{PS}}$	255.8	262 ± 28	D_{810}	2535.7	2538 ± 14	$r_{0.002}$	0.0000	< 0.0762
$\boldsymbol{A_{143}^{PS}}$	40.0	45 ± 8	D_{1420}	813.6	813.6 ± 5.2	$r_{0.01}$	0.0000	< 0.0751
$\boldsymbol{A_{143\times217}^{PS}}$	33.0	38^{+10}_{-10}	D_{2000}	229.92	229.7 ± 2.0	$\ln(10^{10}A_t)$	-7.93	$-0.13^{+1.4}_{-0.66}$
$\boldsymbol{A_{217}^{PS}}$	97.1	96 ± 10	$n_{s,0.002}$	0.9891	$1.007^{+0.029}_{-0.033}$	r_{10}	0.0000	< 0.0387
$\boldsymbol{A^{kSZ}}$	0.02	< 5.32	Y_P	0.245386	0.24542 ± 0.00013	$10^9 A_t$	0.000	< 0.173
$\boldsymbol{A_{100}^{dustTT}}$	7.45	7.48 ± 1.9	Y_P^{BBN}	0.246713	0.24675 ± 0.00013	$10^9 A_t e^{-2\tau}$	0.000	< 0.144
$\boldsymbol{A_{143}^{dustTT}}$	9.09	9.08 ± 1.9	10^5D/H	2.594	2.578 ± 0.053	f_{2000}^{143}	30.32	31.1 ± 3.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.68	17.2 ± 4.2	Age/Gyr	13.7980	13.784 ± 0.045	$f_{2000}^{143\times217}$	32.81	33.3 ± 2.3
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.7 ± 7.4	z_*	1089.913	1089.76 ± 0.49	f_{2000}^{217}	106.31	106.7 ± 2.1
$\boldsymbol{c_{100}}$	0.99793	0.99790 ± 0.00078	r_*	144.52	144.60 ± 0.51	χ^2_{lowTEB}	10495.06	10497.0 ± 3.0
$\boldsymbol{c_{217}}$	0.99599	0.9960 ± 0.0015	$100\theta_*$	1.041099	1.04117 ± 0.00048	χ^2_{plik}	764.1	779.4 ± 6.1
H_0	67.44	67.8 ± 1.1	D_A/Gpc	13.8816	13.888 ± 0.047	χ^2_{prior}	1.99	7.41 ± 3.6
Ω_Λ	0.6863	0.690 ± 0.014	z_{drag}	1059.89	1060.05 ± 0.58	χ^2_{CMB}	11259.1	11276.4 ± 6.0
Ω_m	0.3137	0.310 ± 0.014	r_{drag}	147.19	147.24 ± 0.51			

Best-fit $\chi^2_{eff} = 11261.12$; $\bar{\chi}^2_{eff} = 11283.76$; $R - 1 = 0.00694$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.06 plik_dx11dr2_HM_v18_TT: 764.07

18.2 base_nrun_r_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022405	0.02246 ± 0.00025	σ_8	0.8361	0.835 ± 0.016	$100\theta_{eq}$	0.8172	0.8180 ± 0.0056
$\boldsymbol{\Omega_c h^2}$	0.11910	0.1189 ± 0.0013	$\sigma_8\Omega_m^{0.5}$	0.4654	0.464 ± 0.011	$100\theta_{s,eq}$	0.45140	0.4518 ± 0.0029
$\boldsymbol{100\theta_{MC}}$	1.041037	1.04103 ± 0.00042	$\sigma_8\Omega_m^{0.25}$	0.6238	0.622 ± 0.013	$r_{drag}/D_V(0.57)$	0.071660	0.07173 ± 0.00044
$\boldsymbol{\tau}$	0.0899	0.091 ± 0.021	$\sigma_8/h^{0.5}$	1.0158	1.014 ± 0.020	$H(0.57)$	93.113	93.18 ± 0.30
$\boldsymbol{\ln(10^{10}A_s)}$	3.1142	3.116 ± 0.042	$\langle d^2\rangle^{1/2}$	2.5013	2.489 ± 0.045	$D_A(0.57)$	1385.5	1383.8 ± 8.2
$\boldsymbol{n_s}$	0.96718	0.9673 ± 0.0047	z_{re}	10.98	10.9 ± 1.7	$F_{AP}(0.57)$	0.67560	0.6753 ± 0.0020
$\boldsymbol{dn_s/d\ln k}$	−0.0070	-0.0125 ± 0.0091	10^9A_s	2.251	$2.258^{+0.089}_{-0.10}$	$f\sigma_8(0.57)$	0.4857	0.4846 ± 0.0096
$\boldsymbol{r}$	0.0000	< 0.0758	$10^9A_se^{-2\tau}$	1.8808	1.882 ± 0.012	$\sigma_8(0.57)$	0.6224	0.622 ± 0.012
$\boldsymbol{y_{cal}}$	1.00034	1.0005 ± 0.0025	D_{40}	1220.4	1230^{+21}_{-24}	$r_{0.002}$	0.0000	< 0.0754
$\boldsymbol{A_{217}^{CIB}}$	67.5	65.0 ± 6.7	D_{220}	5721.1	5719 ± 41	$r_{0.01}$	0.0000	< 0.0742
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{810}	2536.3	2538 ± 14	$\ln(10^{10}A_t)$	−6.83	$-0.13^{+1.4}_{-0.65}$
$\boldsymbol{A_{143}^{tSZ}}$	7.10	4.85 ± 2.0	D_{1420}	814.5	813.8 ± 5.1	r_{10}	0.0000	< 0.0384
$\boldsymbol{A_{100}^{PS}}$	255.0	262 ± 28	D_{2000}	230.35	229.8 ± 1.9	10^9A_t	0.000	< 0.172
$\boldsymbol{A_{143}^{PS}}$	39.6	45 ± 8	$n_{s,0.002}$	0.9899	1.007 ± 0.029	$10^9A_te^{-2\tau}$	0.000	< 0.143
$\boldsymbol{A_{143\times217}^{PS}}$	32.7	39^{+10}_{-10}	Y_P	0.245408	0.24543 ± 0.00011	f_{2000}^{143}	30.04	31.1 ± 3.1
$\boldsymbol{A_{217}^{PS}}$	96.9	96 ± 10	Y_P^{BBN}	0.246735	0.24676 ± 0.00011	$f_{2000}^{143\times217}$	32.53	33.2 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.01	< 5.30	10^5D/H	2.5847	2.575 ± 0.046	f_{2000}^{217}	106.08	106.7 ± 2.1
$\boldsymbol{A_{100}^{dustTT}}$	7.45	7.51 ± 1.9	Age/Gyr	13.7869	13.781 ± 0.033	χ^2_{lowTEB}	10495.15	10496.8 ± 3.0
$\boldsymbol{A_{143}^{dustTT}}$	8.99	9.08 ± 1.8	z_*	1089.796	1089.72 ± 0.35	χ^2_{plik}	764.0	778.9 ± 7.2
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.62	17.2 ± 4.1	r_*	144.638	144.65 ± 0.34	χ^2_{6DF}	0.0215	0.055 ± 0.074
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.7 ± 7.4	$100\theta_*$	1.041211	1.04120 ± 0.00042	χ^2_{MGS}	1.28	1.45 ± 0.57
$\boldsymbol{c_{100}}$	0.99792	0.99790 ± 0.00078	D_A/Gpc	13.8913	13.893 ± 0.033	$\chi^2_{DR11CMASS}$	2.458	2.90 ± 0.68
$\boldsymbol{c_{217}}$	0.99600	0.9960 ± 0.0015	z_{drag}	1059.97	1060.06 ± 0.55	$\chi^2_{DR11LOWZ}$	0.609	0.66 ± 0.58
H_0	67.74	67.86 ± 0.60	r_{drag}	147.290	147.29 ± 0.38	χ^2_{prior}	2.03	7.39 ± 3.6
Ω_Λ	0.6902	0.6915 ± 0.0078	k_D	0.14068	0.14073 ± 0.00052	χ^2_{CMB}	11259.2	11275.8 ± 7.1
Ω_m	0.3098	0.3085 ± 0.0078	$100\theta_D$	0.160756	0.16069 ± 0.00031	χ^2_{BAO}	4.37	5.06 ± 1.0
$\Omega_m h^2$	0.14215	0.1420 ± 0.0013	z_{eq}	3381.5	3378 ± 30			
$\Omega_m h^3$	0.09629	0.09635 ± 0.00054	k_{eq}	0.010321	0.010310 ± 0.000092			

Best-fit $\chi^2_{eff} = 11265.57$; $\bar{\chi}^2_{eff} = 11288.20$; $R - 1 = 0.00475$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.46 DR11LOWZ: 0.61 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.15 plik_dx11dr2_HM_v18_TT: 764.02

18.3 base_nrun_r_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022403	$0.02247^{+0.00027}_{-0.00030}$	$\Omega_m h^2$	0.14236	0.1419 ± 0.0020	k_D	0.14074	0.14073 ± 0.00056
$\boldsymbol{\Omega_c h^2}$	0.11931	0.1188 ± 0.0021	$\Omega_m h^3$	0.09628	0.09636 ± 0.00054	$100\theta_D$	0.160741	0.16068 ± 0.00032
$\boldsymbol{100\theta_{MC}}$	1.040952	1.04104 ± 0.00048	σ_8	0.8361	0.835 ± 0.016	z_{eq}	3386.5	3377 ± 48
$\boldsymbol{\tau}$	0.0894	0.091 ± 0.022	$\sigma_8\Omega_m^{0.5}$	0.4664	0.464 ± 0.013	k_{eq}	0.010336	0.01031 ± 0.00015
$\boldsymbol{\ln(10^{10}A_s)}$	3.1138	3.118 ± 0.044	$\sigma_8\Omega_m^{0.25}$	0.6245	0.622 ± 0.014	$100\theta_{eq}$	0.8162	0.8184 ± 0.0091
$\boldsymbol{n_s}$	0.9661	0.9675 ± 0.0063	$\sigma_8/h^{0.5}$	1.0166	1.014 ± 0.021	$100\theta_{s,eq}$	0.45089	0.4520 ± 0.0047
$\boldsymbol{dn_s/d\ln k}$	-0.0079	-0.0127 ± 0.0091	$\langle d^2\rangle^{1/2}$	2.5033	2.489 ± 0.047	$r_{drag}/D_V(0.57)$	0.07158	0.07177 ± 0.00073
$\boldsymbol{r}$	0.0000	< 0.0775	z_{re}	10.94	11.0 ± 1.9	$H(0.57)$	93.070	$93.20^{+0.43}_{-0.49}$
$\boldsymbol{y_{cal}}$	1.00039	1.0005 ± 0.0025	$10^9 A_s$	2.251	$2.261^{+0.093}_{-0.11}$	$D_A(0.57)$	1386.8	1383 ± 13
$\boldsymbol{A_{217}^{CIB}}$	67.9	65.0 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8823	1.882 ± 0.014	$F_{AP}(0.57)$	0.67596	0.6752 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1220.4	1229^{+22}_{-25}	$f\sigma_8(0.57)$	0.4860	0.485 ± 0.010
$\boldsymbol{A_{143}^{tSZ}}$	7.20	4.86 ± 2.0	D_{220}	5723.5	5719 ± 41	$\sigma_8(0.57)$	0.6220	0.622 ± 0.013
$\boldsymbol{A_{100}^{PS}}$	255.4	262 ± 28	D_{810}	2536.8	2537 ± 14	$r_{0.002}$	0.0000	< 0.0773
$\boldsymbol{A_{143}^{PS}}$	39.9	45 ± 8	D_{1420}	814.1	813.8 ± 5.2	$r_{0.01}$	0.0000	< 0.0760
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	38^{+10}_{-10}	D_{2000}	230.13	229.8 ± 1.9	$\ln(10^{10}A_t)$	-7.08	$-0.12^{+1.4}_{-0.65}$
$\boldsymbol{A_{217}^{PS}}$	97.0	96 ± 10	$n_{s,0.002}$	0.9917	$1.008^{+0.029}_{-0.032}$	r_{10}	0.0000	< 0.0392
$\boldsymbol{A^{kSZ}}$	0.00	< 5.32	Y_P	0.245407	0.24544 ± 0.00012	$10^9 A_t$	0.000	< 0.175
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.49 ± 1.9	Y_P^{BBN}	0.246734	0.24676 ± 0.00012	$10^9 A_t e^{-2\tau}$	0.000	< 0.146
$\boldsymbol{A_{143}^{dustTT}}$	9.14	9.07 ± 1.8	10^5D/H	2.585	2.573 ± 0.051	f_{2000}^{143}	30.31	31.0 ± 3.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.85	17.2 ± 4.2	Age/Gyr	13.7903	$13.779^{+0.046}_{-0.042}$	$f_{2000}^{143\times217}$	32.80	33.2 ± 2.3
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.6 ± 7.4	z_*	1089.817	1089.69 ± 0.46	f_{2000}^{217}	106.36	106.7 ± 2.1
$\boldsymbol{c_{100}}$	0.99794	0.99790 ± 0.00078	r_*	144.585	144.66 ± 0.48	χ^2_{lowTEB}	10494.99	10497.0 ± 3.1
$\boldsymbol{c_{217}}$	0.99597	0.9960 ± 0.0015	$100\theta_*$	1.041135	1.04121 ± 0.00047	χ^2_{plik}	764.1	779.4 ± 7.8
H_0	67.63	67.90 ± 0.98	D_A/Gpc	13.8872	13.894 ± 0.044	χ^2_{JLA}	706.740	706.80 ± 0.37
Ω_Λ	0.6888	0.692 ± 0.013	z_{drag}	1059.97	1060.08 ± 0.58	χ^2_{prior}	2.02	7.41 ± 3.6
Ω_m	0.3112	0.308 ± 0.013	r_{drag}	147.237	147.29 ± 0.48	χ^2_{CMB}	11259.1	11276.4 ± 7.8

Best-fit $\chi^2_{eff} = 11967.89$; $\bar{\chi}^2_{eff} = 11990.57$; $R - 1 = 0.00459$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.99 plik_dx11dr2_HM_v18_TT: 764.14 SN - JLA December_2013: 706.74

18.4 base_nrun_r_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022416	$0.02250^{+0.00027}_{-0.00031}$	$\Omega_m h^2$	0.14207	0.1417 ± 0.0021	k_D	0.14068	0.14071 ± 0.00057
$\boldsymbol{\Omega_c h^2}$	0.11901	0.1186 ± 0.0022	$\Omega_m h^3$	0.09628	0.09638 ± 0.00055	$100\theta_D$	0.160741	0.16066 ± 0.00033
$\boldsymbol{100\theta_{MC}}$	1.041016	1.04107 ± 0.00048	σ_8	0.8366	0.835 ± 0.016	z_{eq}	3379.7	3372 ± 49
$\boldsymbol{\tau}$	0.0912	$0.093^{+0.022}_{-0.024}$	$\sigma_8\Omega_m^{0.5}$	0.4653	0.463 ± 0.013	k_{eq}	0.010315	0.01029 ± 0.00015
$\boldsymbol{\ln(10^{10} A_s)}$	3.1167	3.120 ± 0.044	$\sigma_8\Omega_m^{0.25}$	0.6239	0.622 ± 0.014	$100\theta_{eq}$	0.8175	0.8194 ± 0.0095
$\boldsymbol{n_s}$	0.9673	0.9681 ± 0.0064	$\sigma_8/h^{0.5}$	1.0163	1.013 ± 0.021	$100\theta_{s,eq}$	0.45156	0.4524 ± 0.0049
$\boldsymbol{dn_s/d\ln k}$	−0.0080	$-0.0132^{+0.0099}_{-0.0088}$	$\langle d^2\rangle^{1/2}$	2.5010	2.488 ± 0.047	$r_{drag}/D_V(0.57)$	0.07168	0.07185 ± 0.00076
$\boldsymbol{r}$	0.0000	< 0.0793	z_{re}	11.09	11.1 ± 1.9	$H(0.57)$	93.126	$93.25^{+0.45}_{-0.50}$
$\boldsymbol{y_{cal}}$	1.00030	1.0004 ± 0.0025	$10^9 A_s$	2.257	$2.267^{+0.094}_{-0.11}$	$D_A(0.57)$	1385.0	1382 ± 14
$\boldsymbol{A_{217}^{CIB}}$	67.3	65.1 ± 6.8	$10^9 A_s e^{-2\tau}$	1.8807	1.881 ± 0.014	$F_{AP}(0.57)$	0.67548	0.6748 ± 0.0034
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1217.9	1228^{+22}_{-25}	$f\sigma_8(0.57)$	0.4859	0.484 ± 0.010
$\boldsymbol{A_{143}^{tSZ}}$	7.23	4.86 ± 2.0	D_{220}	5720.2	5720 ± 41	$\sigma_8(0.57)$	0.6229	0.623 ± 0.013
$\boldsymbol{A_{100}^{PS}}$	252.8	262 ± 28	D_{810}	2536.3	2537 ± 14	$r_{0.002}$	0.0000	< 0.0794
$\boldsymbol{A_{143}^{PS}}$	39.1	45 ± 8	D_{1420}	814.3	813.9 ± 5.2	$r_{0.01}$	0.0000	< 0.0779
$\boldsymbol{A_{143\times217}^{PS}}$	32.7	38^{+9}_{-10}	D_{2000}	230.27	229.9 ± 2.0	$\ln(10^{10} A_t)$	−8.36	$-0.09^{+1.4}_{-0.66}$
$\boldsymbol{A_{217}^{PS}}$	97.4	96 ± 10	$n_{s,0.002}$	0.9932	$1.010^{+0.029}_{-0.033}$	r_{10}	0.0000	< 0.0403
$\boldsymbol{A^{kSZ}}$	0.00	< 5.30	Y_P	0.245413	0.24545 ± 0.00013	$10^9 A_t$	0.000	< 0.180
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.49 ± 1.9	Y_P^{BBN}	0.246740	0.24677 ± 0.00013	$10^9 A_t e^{-2\tau}$	0.000	< 0.149
$\boldsymbol{A_{143}^{dustTT}}$	9.08	9.09 ± 1.9	10^5D/H	2.583	2.568 ± 0.052	f_{2000}^{143}	29.97	31.0 ± 3.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.55	17.2 ± 4.2	Age/Gyr	13.7858	13.774 ± 0.044	$f_{2000}^{143\times217}$	32.51	33.1 ± 2.3
$\boldsymbol{A_{217}^{dustTT}}$	81.7	81.6 ± 7.4	z_*	1089.775	1089.64 ± 0.48	f_{2000}^{217}	106.10	106.6 ± 2.1
$\boldsymbol{c_{100}}$	0.99791	0.99790 ± 0.00078	r_*	144.652	144.70 ± 0.49	χ^2_{lowTEB}	10494.99	10497.0 ± 3.1
$\boldsymbol{c_{217}}$	0.99589	0.9960 ± 0.0015	$100\theta_*$	1.041196	1.04124 ± 0.00047	χ^2_{plik}	764.1	779.4 ± 6.6
H_0	67.77	68.0 ± 1.0	D_A/Gpc	13.8928	13.897 ± 0.046	χ^2_{H070p6}	0.724	0.70 ± 0.48
Ω_Λ	0.6907	$0.693^{+0.014}_{-0.013}$	z_{drag}	1059.97	1060.13 ± 0.59	χ^2_{prior}	2.09	7.42 ± 3.6
Ω_m	0.3093	0.307 ± 0.013	r_{drag}	147.30	147.32 ± 0.50	χ^2_{CMB}	11259.1	11276.5 ± 6.5

Best-fit $\chi^2_{eff} = 11261.93$; $\bar{\chi}^2_{eff} = 11284.60$; $R - 1 = 0.00746$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.99 plik_dx11dr2_HM_v18_TT: 764.13 Hubble - H070p6: 0.72

18.5 base_nrun_r_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02245^{+0.00027}_{-0.00030}$	$\Omega_m h^2$	0.1423 ± 0.0021	k_D	0.14078 ± 0.00057
$\boldsymbol{\Omega_c h^2}$	0.1192 ± 0.0023	$\Omega_m h^3$	0.09635 ± 0.00054	$100\theta_D$	0.16070 ± 0.00032
$\boldsymbol{100\theta_{MC}}$	1.04099 ± 0.00049	σ_8	0.836 ± 0.016	z_{eq}	3384 ± 51
$\boldsymbol{\tau}$	$0.091^{+0.020}_{-0.024}$	$\sigma_8\Omega_m^{0.5}$	0.465 ± 0.014	k_{eq}	0.01033 ± 0.00016
$\boldsymbol{\ln(10^{10} A_s)}$	$3.116^{+0.040}_{-0.047}$	$\sigma_8\Omega_m^{0.25}$	0.624 ± 0.014	$100\theta_{eq}$	0.8169 ± 0.0097
$\boldsymbol{n_s}$	0.9667 ± 0.0065	$\sigma_8/h^{0.5}$	1.015 ± 0.020	$100\theta_{s,eq}$	0.4512 ± 0.0050
$\boldsymbol{dn_s/d\ln k}$	-0.0126 ± 0.0091	$\langle d^2\rangle^{1/2}$	2.493 ± 0.047	$r_{drag}/D_V(0.57)$	0.07165 ± 0.00078
$\boldsymbol{r}$	< 0.0758	z_{re}	10.9 ± 1.8	$H(0.57)$	$93.14^{+0.44}_{-0.52}$
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$10^9 A_s$	$2.259^{+0.086}_{-0.11}$	$D_A(0.57)$	1385 ± 14
$\boldsymbol{A_{217}^{CIB}}$	65.1 ± 6.7	$10^9 A_s e^{-2\tau}$	1.883 ± 0.014	$F_{AP}(0.57)$	0.6757 ± 0.0035
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1231^{+22}_{-25}	$f\sigma_8(0.57)$	0.4854 ± 0.0099
$\boldsymbol{A_{143}^{tSZ}}$	4.85 ± 2.0	D_{220}	5718 ± 41	$\sigma_8(0.57)$	$0.622^{+0.012}_{-0.014}$
$\boldsymbol{A_{100}^{PS}}$	262 ± 28	D_{810}	2538 ± 14	$r_{0.002}$	< 0.0753
$\boldsymbol{A_{143}^{PS}}$	45 ± 8	D_{1420}	813.6 ± 5.2	$r_{0.01}$	< 0.0741
$\boldsymbol{A_{143\times217}^{PS}}$	38^{+10}_{-10}	D_{2000}	229.8 ± 2.0	$\ln(10^{10} A_t)$	$-0.14^{+1.4}_{-0.65}$
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	$n_{s,0.002}$	$1.007^{+0.029}_{-0.032}$	r_{10}	< 0.0383
$\boldsymbol{A^{kSZ}}$	< 5.33	Y_P	0.24543 ± 0.00012	$10^9 A_t$	< 0.171
$\boldsymbol{A_{100}^{dustTT}}$	7.49 ± 1.9	Y_P^{BBN}	0.24675 ± 0.00013	$10^9 A_t e^{-2\tau}$	< 0.143
$\boldsymbol{A_{143}^{dustTT}}$	9.07 ± 1.9	10^5D/H	2.578 ± 0.052	f_{2000}^{143}	31.1 ± 3.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	Age/Gyr	$13.784^{+0.048}_{-0.042}$	$f_{2000}^{143\times217}$	33.2 ± 2.3
$\boldsymbol{A_{217}^{dustTT}}$	81.6 ± 7.4	z_*	1089.76 ± 0.48	f_{2000}^{217}	106.7 ± 2.1
$\boldsymbol{c_{100}}$	0.99789 ± 0.00078	r_*	144.59 ± 0.51	χ^2_{lowTEB}	10497.0 ± 3.1
$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	$100\theta_*$	1.04117 ± 0.00048	χ^2_{plik}	779.4 ± 7.8
H_0	67.7 ± 1.0	D_A/Gpc	13.887 ± 0.047	χ^2_{prior}	7.41 ± 3.6
Ω_Λ	0.690 ± 0.014	z_{drag}	1060.05 ± 0.58	χ^2_{CMB}	11276.4 ± 7.8
Ω_m	0.310 ± 0.014	r_{drag}	147.23 ± 0.51		

$\bar{\chi}^2_{eff} = 11283.76$; $R - 1 = 0.00414$

18.6 base_nrun_r_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022336	0.02232 ± 0.00017	$\boldsymbol{A_{143}^{dustTE}}$	0.158	0.156 ± 0.053	$100\theta_*$	1.040979	1.04099 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.11968	0.1197 ± 0.0015	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.340	0.336 ± 0.081	D_A/Gpc	13.8850	13.887 ± 0.030
$\boldsymbol{100\theta_{MC}}$	1.040796	1.04080 ± 0.00032	$\boldsymbol{A_{217}^{dustTE}}$	1.696	1.66 ± 0.26	z_{drag}	1059.818	1059.79 ± 0.34
$\boldsymbol{\tau}$	0.0860	0.084 ± 0.018	$\boldsymbol{c_{100}}$	0.99814	0.99816 ± 0.00077	r_{drag}	147.216	147.24 ± 0.32
$\boldsymbol{\ln(10^{10}A_s)}$	3.1082	3.104 ± 0.035	$\boldsymbol{c_{217}}$	0.99594	0.9961 ± 0.0015	k_D	0.140712	0.14067 ± 0.00035
$\boldsymbol{n_s}$	0.96452	0.9644 ± 0.0049	H_0	67.40	67.40 ± 0.66	$100\theta_D$	0.160795	0.16082 ± 0.00020
$\boldsymbol{dn_s/d\ln k}$	−0.0055	-0.0085 ± 0.0076	Ω_Λ	0.6859	0.6859 ± 0.0091	z_{eq}	3393.7	3393 ± 33
$\boldsymbol{r}$	0.0009	< 0.0687	Ω_m	0.3141	0.3141 ± 0.0091	k_{eq}	0.010358	0.01036 ± 0.00010
$\boldsymbol{y_{cal}}$	1.00034	1.0004 ± 0.0025	$\Omega_m h^2$	0.14266	0.1426 ± 0.0014	$100\theta_{eq}$	0.8146	0.8148 ± 0.0063
$\boldsymbol{A_{217}^{CIB}}$	67.0	64.9 ± 6.7	$\Omega_m h^3$	0.096146	0.09611 ± 0.00031	$100\theta_{s,eq}$	0.45010	0.4502 ± 0.0032
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	σ_8	0.8351	0.833 ± 0.014	$r_{drag}/D_V(0.57)$	0.07142	0.07143 ± 0.00050
$\boldsymbol{A_{143}^{tSZ}}$	7.05	5.05 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4680	0.467 ± 0.010	$H(0.57)$	92.943	92.94 ± 0.29
$\boldsymbol{A_{100}^{PS}}$	256.8	265 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6252	0.623 ± 0.011	$D_A(0.57)$	1390.2	1390.3 ± 8.9
$\boldsymbol{A_{143}^{PS}}$	41.6	45 ± 8	$\sigma_8/h^{0.5}$	1.0173	1.014 ± 0.017	$F_{AP}(0.57)$	0.67669	0.6767 ± 0.0023
$\boldsymbol{A_{143\times217}^{PS}}$	36.5	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.5098	2.498 ± 0.040	$f\sigma_8(0.57)$	0.4862	0.4848 ± 0.0082
$\boldsymbol{A_{217}^{PS}}$	98.1	97 ± 10	z_{re}	10.67	$10.4^{+1.7}_{-1.5}$	$\sigma_8(0.57)$	0.6206	0.619 ± 0.010
$\boldsymbol{A^{kSZ}}$	0.13	< 4.84	10^9A_s	2.238	2.230 ± 0.079	$r_{0.002}$	0.0008	< 0.0662
$\boldsymbol{A_{100}^{dustTT}}$	7.10	7.42 ± 1.9	$10^9A_se^{-2\tau}$	1.8845	1.885 ± 0.012	$r_{0.01}$	0.0008	< 0.0667
$\boldsymbol{A_{143}^{dustTT}}$	8.82	8.94 ± 1.8	D_{40}	1230.2	1242 ± 21	$\ln(10^{10}A_t)$	−3.92	$-0.24^{+1.4}_{-0.63}$
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.31	17.0 ± 4.2	D_{220}	5730.8	5724 ± 39	r_{10}	0.0004	< 0.0337
$\boldsymbol{A_{217}^{dustTT}}$	81.0	81.4 ± 7.4	D_{810}	2537.7	2538 ± 14	10^9A_t	0.002	< 0.153
$\boldsymbol{A_{100}^{dustEE}}$	0.0823	0.0811 ± 0.0057	D_{1420}	814.25	813.4 ± 5.0	$10^9A_te^{-2\tau}$	0.002	< 0.130
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04932	0.0488 ± 0.0050	D_{2000}	230.14	229.6 ± 1.8	f_{2000}^{143}	29.92	30.8 ± 3.0
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1091	0.0995 ± 0.033	$n_{s,0.002}$	0.9822	0.992 ± 0.024	$f_{2000}^{143\times217}$	32.46	33.2 ± 2.1
$\boldsymbol{A_{143}^{dustEE}}$	0.1011	0.1001 ± 0.0069	Y_P	0.245378	0.245369 ± 0.000075	f_{2000}^{217}	105.91	106.7 ± 2.1
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2235	0.223 ± 0.047	Y_P^{BBN}	0.246704	0.246696 ± 0.000075	χ^2_{lowTEB}	10495.80	10497.5 ± 2.9
$\boldsymbol{A_{217}^{dustEE}}$	0.641	0.65 ± 0.13	10^5D/H	2.5978	2.601 ± 0.031	χ^2_{plik}	2432.6	2452.7 ± 7.1
$\boldsymbol{A_{100}^{dustTE}}$	0.1392	0.142 ± 0.038	Age/Gyr	13.8034	13.805 ± 0.027	χ^2_{prior}	6.80	19.3 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1305	0.132 ± 0.029	z_*	1089.936	1089.96 ± 0.30	χ^2_{CMB}	12928.4	12950.2 ± 7.0
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.294	0.301 ± 0.085	r_*	144.540	144.56 ± 0.33			

Best-fit $\chi^2_{eff} = 12935.18$; $\bar{\chi}^2_{eff} = 12969.51$; $R - 1 = 0.01111$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.80 plik_dx11dr2_HM_v18_TTTEEE: 2432.59

18.7 base_nrun_r_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022334	0.02235 ± 0.00015	$\boldsymbol{A_{217}^{\mathrm{dust}TE}}$	1.658	1.65 ± 0.25	k_D	0.140588	0.14060 ± 0.00032
$\boldsymbol{\Omega_c h^2}$	0.11925	0.1192 ± 0.0011	$\boldsymbol{c_{100}}$	0.99822	0.99816 ± 0.00078	$100\theta_\mathrm{D}$	0.160820	0.16080 ± 0.00019
$\boldsymbol{100\theta_{MC}}$	1.040846	1.04086 ± 0.00030	$\boldsymbol{c_{217}}$	0.99599	0.9961 ± 0.0015	z_eq	3383.5	3382 ± 24
$\boldsymbol{\tau}$	0.0873	0.086 ± 0.017	H_0	67.561	67.62 ± 0.48	k_eq	0.010327	0.010321 ± 0.000074
$\boldsymbol{\ln(10^{10} A_s)}$	3.1093	3.108 ± 0.035	Ω_Λ	0.6884	0.6891 ± 0.0065	$100\theta_\mathrm{eq}$	0.81650	0.8169 ± 0.0046
$\boldsymbol{n_s}$	0.96613	0.9656 ± 0.0042	Ω_m	0.3116	0.3109 ± 0.0065	$100\theta_\mathrm{s,eq}$	0.45108	0.4513 ± 0.0024
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	-0.0054	-0.0085 ± 0.0076	$\Omega_\mathrm{m}h^2$	0.14223	0.1422 ± 0.0010	$r_\mathrm{drag}/D_\mathrm{V}(0.57)$	0.071559	0.07160 ± 0.00036
$\boldsymbol{r}$	0.0002	< 0.0701	$\Omega_\mathrm{m}h^3$	0.096093	0.09612 ± 0.00031	$H(0.57)$	92.998	93.03 ± 0.22
$\boldsymbol{y_{cal}}$	1.00021	1.0005 ± 0.0025	σ_8	0.8347	0.833 ± 0.014	$D_\mathrm{A}(0.57)$	1388.1	1387.3 ± 6.5
$\boldsymbol{A_{217}^{\mathrm{CIB}}}$	66.2	64.8 ± 6.7	$\sigma_8\Omega_\mathrm{m}^{0.5}$	0.4660	0.4644 ± 0.0088	$F_\mathrm{AP}(0.57)$	0.67606	0.6759 ± 0.0017
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	0.19	—	$\sigma_8\Omega_\mathrm{m}^{0.25}$	0.6237	0.622 ± 0.011	$f\sigma_8(0.57)$	0.4854	0.4841 ± 0.0080
$\boldsymbol{A_{143}^{\mathrm{tSZ}}}$	7.01	5.10 ± 2.0	$\sigma_8/h^{0.5}$	1.0155	1.013 ± 0.017	$\sigma_8(0.57)$	0.6209	0.620 ± 0.010
$\boldsymbol{A_{100}^{\mathrm{PS}}}$	255.7	264 ± 28	$\langle d^2\rangle^{1/2}$	2.5038	2.495 ± 0.039	$r_{0.002}$	0.0002	< 0.0676
$\boldsymbol{A_{143}^{\mathrm{PS}}}$	42.4	45 ± 8	z_re	10.78	$10.6^{+1.7}_{-1.4}$	$r_{0.01}$	0.0002	< 0.0681
$\boldsymbol{A_{143\times217}^{PS}}$	39.0	40^{+10}_{-10}	$10^9 A_s$	2.240	2.238 ± 0.077	$\ln(10^{10}A_t)$	-5.61	$-0.22^{+1.4}_{-0.62}$
$\boldsymbol{A_{217}^{\mathrm{PS}}}$	99.7	97 ± 10	$10^9 A_s e^{-2\tau}$	1.8816	1.883 ± 0.012	r_{10}	0.0001	< 0.0343
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.01	< 4.78	D_{40}	1226.2	1240^{+20}_{-22}	$10^9 A_t$	0.000	< 0.157
$\boldsymbol{A_{100}^{\mathrm{dust}TT}}$	7.44	7.41 ± 1.9	D_{220}	5723.8	5726 ± 39	$10^9 A_t e^{-2\tau}$	0.000	< 0.132
$\boldsymbol{A_{143}^{\mathrm{dust}TT}}$	8.98	8.94 ± 1.8	D_{810}	2536.3	2537 ± 14	f_{2000}^{143}	29.58	30.6 ± 3.0
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TT}}$	17.78	17.0 ± 4.2	D_{1420}	814.28	813.7 ± 5.0	$f_{2000}^{143\times217}$	32.51	33.1 ± 2.1
$\boldsymbol{A_{217}^{\mathrm{dust}TT}}$	82.1	81.5 ± 7.5	D_{2000}	230.19	229.8 ± 1.8	f_{2000}^{217}	105.97	106.6 ± 2.0
$\boldsymbol{A_{100}^{\mathrm{dust}EE}}$	0.0819	0.0813 ± 0.0057	$n_{\mathrm{s},0.002}$	0.9834	0.993 ± 0.024	χ^2_lowTEB	10495.60	10497.5 ± 2.9
$\boldsymbol{A_{100\times143}^{\mathrm{dust}EE}}$	0.04942	0.0490 ± 0.0050	Y_P	0.245377	0.245385 ± 0.000067	χ^2_plik	2432.8	2452.3 ± 7.0
$\boldsymbol{A_{100\times217}^{\mathrm{dust}EE}}$	0.0995	0.0996 ± 0.032	$Y_\mathrm{P}^\mathrm{BBN}$	0.246703	0.246712 ± 0.000067	χ^2_6DF	0.0377	0.060 ± 0.072
$\boldsymbol{A_{143}^{\mathrm{dust}EE}}$	0.1009	0.1003 ± 0.0069	$10^5\mathrm{D/H}$	2.5981	2.594 ± 0.028	χ^2_MGS	1.156	1.27 ± 0.45
$\boldsymbol{A_{143\times217}^{\mathrm{dust}EE}}$	0.2231	0.223 ± 0.047	Age/Gyr	13.8003	13.797 ± 0.022	$\chi^2_\mathrm{DR11CMASS}$	2.550	2.83 ± 0.58
$\boldsymbol{A_{217}^{\mathrm{dust}EE}}$	0.654	0.65 ± 0.13	z_*	1089.899	1089.87 ± 0.24	χ^2_DR11LOWZ	0.752	0.79 ± 0.54
$\boldsymbol{A_{100}^{\mathrm{dust}TE}}$	0.1411	0.142 ± 0.038	r_*	144.652	144.66 ± 0.25	χ^2_prior	6.91	19.3 ± 5.4
$\boldsymbol{A_{100\times143}^{\mathrm{dust}TE}}$	0.1312	0.132 ± 0.029	$100\theta_*$	1.041032	1.04105 ± 0.00029	χ^2_CMB	12928.4	12949.8 ± 6.9
$\boldsymbol{A_{100\times217}^{\mathrm{dust}TE}}$	0.301	0.301 ± 0.085	$D_\mathrm{A}/\mathrm{Gpc}$	13.8951	13.896 ± 0.024	χ^2_BAO	4.496	4.95 ± 0.84
$\boldsymbol{A_{143}^{\mathrm{dust}TE}}$	0.154	0.155 ± 0.053	z_drag	1059.780	1059.84 ± 0.32			
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TE}}$	0.335	0.334 ± 0.080	r_drag	147.331	147.33 ± 0.26			

Best-fit $\chi^2_{\rm eff} = 12939.80$; $\bar{\chi}^2_{\rm eff} = 12974.09$; $R - 1 = 0.01017$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.04 MGS: 1.16 DR11CMASS: 2.55 DR11LOWZ: 0.75 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.60 plik_dx11dr2_HM_v18_TTTEEE: 2432.79

18.8 base_nrun_r_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022309	0.02233 ± 0.00016	$\boldsymbol{A_{143}^{dust\,TE}}$	0.154	0.155 ± 0.053	$100\theta_*$	1.041009	1.04101 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.11961	0.1194 ± 0.0014	$\boldsymbol{A_{143\times217}^{dust\,TE}}$	0.337	0.335 ± 0.080	D_A/Gpc	13.8882	13.891 ± 0.029
$\boldsymbol{100\theta_{MC}}$	1.040823	1.04082 ± 0.00032	$\boldsymbol{A_{217}^{dust\,TE}}$	1.660	1.66 ± 0.25	z_{drag}	1059.780	1059.81 ± 0.33
$\boldsymbol{\tau}$	0.0856	0.085 ± 0.018	$\boldsymbol{c_{100}}$	0.99819	0.99816 ± 0.00078	r_{drag}	147.260	147.28 ± 0.32
$\boldsymbol{\ln(10^{10}A_s)}$	3.1066	3.105 ± 0.035	$\boldsymbol{c_{217}}$	0.99607	0.9961 ± 0.0015	k_D	0.140642	0.14064 ± 0.00034
$\boldsymbol{n_s}$	0.96464	0.9649 ± 0.0048	H_0	67.40	67.49 ± 0.64	$100\theta_D$	0.160838	0.16081 ± 0.00019
$\boldsymbol{dn_s/d\ln k}$	−0.0051	-0.0085 ± 0.0076	Ω_Λ	0.6862	0.6872 ± 0.0088	z_{eq}	3391.5	3388 ± 32
$\boldsymbol{r}$	0.0001	< 0.0694	Ω_m	0.3138	0.3128 ± 0.0088	k_{eq}	0.010351	0.010341 ± 0.000098
$\boldsymbol{y_{cal}}$	1.00029	1.0004 ± 0.0025	$\Omega_m h^2$	0.14257	0.1424 ± 0.0013	$100\theta_{eq}$	0.8150	0.8157 ± 0.0061
$\boldsymbol{A_{217}^{CIB}}$	67.9	64.9 ± 6.7	$\Omega_m h^3$	0.096099	0.09612 ± 0.00031	$100\theta_{s,eq}$	0.45029	0.4507 ± 0.0031
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	σ_8	0.8346	0.833 ± 0.014	$r_{drag}/D_V(0.57)$	0.071438	0.07150 ± 0.00048
$\boldsymbol{A_{143}^{tSZ}}$	7.25	5.09 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4675	0.4657 ± 0.0098	$H(0.57)$	92.936	92.98 ± 0.28
$\boldsymbol{A_{100}^{PS}}$	258.1	264 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6246	0.623 ± 0.011	$D_A(0.57)$	1390.2	1389.1 ± 8.6
$\boldsymbol{A_{143}^{PS}}$	39.3	45 ± 8	$\sigma_8/h^{0.5}$	1.0165	1.014 ± 0.017	$F_{AP}(0.57)$	0.67661	0.6764 ± 0.0022
$\boldsymbol{A_{143\times217}^{PS}}$	33.1	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.5081	2.497 ± 0.040	$f\sigma_8(0.57)$	0.4858	0.4845 ± 0.0081
$\boldsymbol{A_{217}^{PS}}$	97.0	97 ± 10	z_{re}	10.64	$10.5^{+1.7}_{-1.5}$	$\sigma_8(0.57)$	0.6203	0.619 ± 0.010
$\boldsymbol{A^{kSZ}}$	0.00	< 4.81	10^9A_s	2.235	2.233 ± 0.079	$r_{0.002}$	0.0001	< 0.0669
$\boldsymbol{A_{100}^{dust\,TT}}$	7.38	7.41 ± 1.9	$10^9A_se^{-2\tau}$	1.8830	1.884 ± 0.012	$r_{0.01}$	0.0001	< 0.0673
$\boldsymbol{A_{143}^{dust\,TT}}$	8.93	8.95 ± 1.8	D_{40}	1229.9	1241 ± 21	$\ln(10^{10}A_t)$	−6.44	$-0.23^{+1.4}_{-0.63}$
$\boldsymbol{A_{143\times217}^{dust\,TT}}$	17.47	17.0 ± 4.2	D_{220}	5726.4	5725 ± 40	r_{10}	0.0000	< 0.0340
$\boldsymbol{A_{217}^{dust\,TT}}$	81.7	81.5 ± 7.5	D_{810}	2536.2	2537 ± 14	10^9A_t	0.000	< 0.155
$\boldsymbol{A_{100}^{dust\,EE}}$	0.0816	0.0812 ± 0.0057	D_{1420}	813.8	813.5 ± 5.0	$10^9A_te^{-2\tau}$	0.000	< 0.131
$\boldsymbol{A_{100\times143}^{dust\,EE}}$	0.04924	0.0489 ± 0.0050	D_{2000}	229.98	229.7 ± 1.8	f_{2000}^{143}	30.05	30.7 ± 3.0
$\boldsymbol{A_{100\times217}^{dust\,EE}}$	0.1004	0.0996 ± 0.032	$n_{s,0.002}$	0.9809	0.992 ± 0.024	$f_{2000}^{143\times217}$	32.74	33.1 ± 2.1
$\boldsymbol{A_{143}^{dust\,EE}}$	0.1004	0.1002 ± 0.0069	Y_P	0.245366	0.245376 ± 0.000074	f_{2000}^{217}	106.31	106.6 ± 2.0
$\boldsymbol{A_{143\times217}^{dust\,EE}}$	0.2248	0.223 ± 0.047	Y_P^{BBN}	0.246692	0.246703 ± 0.000074	χ^2_{lowTEB}	10495.80	10497.5 ± 2.9
$\boldsymbol{A_{217}^{dust\,EE}}$	0.652	0.65 ± 0.13	10^5D/H	2.6028	2.598 ± 0.031	χ^2_{plik}	2432.2	2452.6 ± 7.1
$\boldsymbol{A_{100}^{dust\,TE}}$	0.1414	0.142 ± 0.038	Age/Gyr	13.8050	13.801 ± 0.026	χ^2_{JLA}	706.820	706.85 ± 0.29
$\boldsymbol{A_{100\times143}^{dust\,TE}}$	0.1319	0.132 ± 0.029	z_*	1089.965	1089.92 ± 0.30	χ^2_{prior}	7.11	19.3 ± 5.5
$\boldsymbol{A_{100\times217}^{dust\,TE}}$	0.304	0.301 ± 0.085	r_*	144.577	144.60 ± 0.32	χ^2_{CMB}	12928.0	12950.1 ± 7.0

Best-fit $\chi^2_{eff} = 13641.97$; $\bar{\chi}^2_{eff} = 13676.29$; $R - 1 = 0.01141$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.80 plik_dx11dr2_HM_v18_TTTEEE: 2432.24 SN - JLA December_2013: 706.82

18.9 base_nrun_r_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022325	0.02234 ± 0.00017	$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.156	0.155 ± 0.053	$100\theta_*$	1.041012	1.04102 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.11950	0.1194 ± 0.0015	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.337	0.335 ± 0.080	D_A/Gpc	13.8897	13.891 ± 0.030
$\boldsymbol{100\theta_{MC}}$	1.040818	1.04083 ± 0.00032	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.663	1.66 ± 0.25	z_{drag}	1059.780	1059.83 ± 0.34
$\boldsymbol{\tau}$	0.0854	0.085 ± 0.018	$\boldsymbol{c_{100}}$	0.99821	0.99816 ± 0.00078	r_{drag}	147.274	147.28 ± 0.32
$\boldsymbol{\ln(10^{10}A_s)}$	3.1063	3.106 ± 0.035	$\boldsymbol{c_{217}}$	0.99600	0.9961 ± 0.0015	k_D	0.140642	0.14064 ± 0.00035
$\boldsymbol{n_s}$	0.96519	0.9650 ± 0.0049	H_0	67.46	67.52 ± 0.65	$100\theta_D$	0.160821	0.16081 ± 0.00019
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	-0.0045	-0.0086 ± 0.0077	Ω_Λ	0.6869	0.6875 ± 0.0089	z_{eq}	3389.3	3387 ± 33
$\boldsymbol{r}$	0.0000	< 0.0696	Ω_m	0.3131	0.3125 ± 0.0089	k_{eq}	0.010344	0.01034 ± 0.00010
$\boldsymbol{y_{cal}}$	1.00036	1.0004 ± 0.0025	$\Omega_m h^2$	0.14247	0.1424 ± 0.0014	$100\theta_{\mathrm{eq}}$	0.8154	0.8159 ± 0.0062
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	66.8	64.9 ± 6.7	$\Omega_m h^3$	0.096111	0.09612 ± 0.00031	$100\theta_{\mathrm{s,eq}}$	0.45052	0.4508 ± 0.0032
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	0.09	—	σ_8	0.8342	0.833 ± 0.014	$r_{\mathrm{drag}}/D_V(0.57)$	0.071477	0.07152 ± 0.00049
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	7.07	5.09 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4668	0.4655 ± 0.0099	$H(0.57)$	92.961	92.99 ± 0.28
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	257.1	264 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6240	0.623 ± 0.011	$D_A(0.57)$	1389.5	1388.7 ± 8.7
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	40.6	45 ± 8	$\sigma_8/h^{0.5}$	1.0157	1.014 ± 0.017	$F_{\mathrm{AP}}(0.57)$	0.67643	0.6763 ± 0.0023
$\boldsymbol{A^{PS}_{143\times217}}$	35.7	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.5066	2.497 ± 0.040	$f\sigma_8(0.57)$	0.4855	0.4844 ± 0.0081
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	98.6	97 ± 10	z_{re}	10.62	$10.5^{+1.7}_{-1.5}$	$\sigma_8(0.57)$	0.6202	0.619 ± 0.010
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.01	< 4.80	10^9A_s	2.234	2.235 ± 0.079	$r_{0.002}$	0.0000	< 0.0671
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.37	7.41 ± 1.9	$10^9A_se^{-2\tau}$	1.8830	1.884 ± 0.012	$r_{0.01}$	0.0000	< 0.0675
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	8.91	8.95 ± 1.8	D_{40}	1230.4	1241 ± 21	$\ln(10^{10}A_t)$	-7.46	$-0.23^{+1.4}_{-0.63}$
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.45	17.0 ± 4.2	D_{220}	5729.0	5725 ± 40	r_{10}	0.0000	< 0.0341
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	81.8	81.5 ± 7.5	D_{810}	2537.1	2538 ± 14	10^9A_t	0.000	< 0.156
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0817	0.0813 ± 0.0057	D_{1420}	814.4	813.6 ± 5.0	$10^9A_te^{-2\tau}$	0.000	< 0.131
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.04941	0.0489 ± 0.0050	D_{2000}	230.24	229.7 ± 1.8	f^{143}_{2000}	29.66	30.7 ± 3.0
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0998	0.0996 ± 0.032	$n_{\mathrm{s},0.002}$	0.9797	0.993 ± 0.024	$f^{143\times217}_{2000}$	32.46	33.1 ± 2.1
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1008	0.1002 ± 0.0069	Y_P	0.245373	0.245379 ± 0.000074	f^{217}_{2000}	106.06	106.6 ± 2.0
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2238	0.223 ± 0.047	Y_P^{BBN}	0.246699	0.246705 ± 0.000075	χ^2_{lowTEB}	10495.88	10497.5 ± 2.9
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.653	0.65 ± 0.13	10^5D/H	2.5998	2.597 ± 0.031	χ^2_{plik}	2432.4	2452.6 ± 7.1
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1396	0.142 ± 0.037	Age/Gyr	13.8028	13.800 ± 0.026	χ^2_{H070p6}	0.890	0.89 ± 0.36
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1322	0.132 ± 0.029	z_*	1089.934	1089.90 ± 0.30	χ^2_{prior}	6.90	19.3 ± 5.5
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.302	0.301 ± 0.085	r_*	144.594	144.61 ± 0.32	χ^2_{CMB}	12928.3	12950.2 ± 7.0

Best-fit $\chi^2_{\mathrm{eff}} = 12936.05$; $\bar{\chi}^2_{\mathrm{eff}} = 12970.39$; $R - 1 = 0.01160$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.88 plik_dx11dr2_HM_v18_TTTEEE: 2432.38 Hubble - H070p6: 0.89

18.10 base_nrun_r_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.02232 ± 0.00017	$\boldsymbol{A_{143}^{{\rm dust}TE}}$	0.156 ± 0.053	$100\theta_*$	1.04099 ± 0.00031
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1196 ± 0.0015	$\boldsymbol{A_{143\times217}^{{\rm dust}TE}}$	0.335 ± 0.081	$D_{\rm A}$/Gpc	13.887 ± 0.030
$\boldsymbol{100\theta_{\rm MC}}$	1.04080 ± 0.00032	$\boldsymbol{A_{217}^{{\rm dust}TE}}$	1.66 ± 0.26	$z_{\rm drag}$	1059.80 ± 0.33
$\boldsymbol{\tau}$	0.084 ± 0.017	$\boldsymbol{c_{100}}$	0.99816 ± 0.00078	$r_{\rm drag}$	147.24 ± 0.32
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.105 ± 0.034	$\boldsymbol{c_{217}}$	0.9961 ± 0.0014	$k_{\rm D}$	0.14067 ± 0.00035
$\boldsymbol{n_{\rm s}}$	0.9644 ± 0.0049	H_0	67.40 ± 0.66	$100\theta_{\rm D}$	0.16082 ± 0.00019
$\boldsymbol{{\rm d}n_{\rm s}/{\rm d}\ln k}$	-0.0085 ± 0.0076	Ω_Λ	0.6859 ± 0.0091	$z_{\rm eq}$	3393 ± 33
$\boldsymbol{r}$	< 0.0688	$\Omega_{\rm m}$	0.3141 ± 0.0091	$k_{\rm eq}$	0.01035 ± 0.00010
$\boldsymbol{y_{\rm cal}}$	1.0004 ± 0.0025	$\Omega_{\rm m}h^2$	0.1426 ± 0.0014	$100\theta_{\rm eq}$	0.8149 ± 0.0063
$\boldsymbol{A_{217}^{\rm CIB}}$	64.9 ± 6.7	$\Omega_{\rm m}h^3$	0.09611 ± 0.00031	$100\theta_{\rm s,eq}$	0.4502 ± 0.0032
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	σ_8	0.833 ± 0.013	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07143 ± 0.00050
$\boldsymbol{A_{143}^{\rm tSZ}}$	5.07 ± 2.0	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4668 ± 0.0099	$H(0.57)$	92.94 ± 0.29
$\boldsymbol{A_{100}^{\rm PS}}$	264 ± 28	$\sigma_8\Omega_{\rm m}^{0.25}$	0.624 ± 0.011	$D_{\rm A}(0.57)$	1390.2 ± 8.9
$\boldsymbol{A_{143}^{\rm PS}}$	45 ± 8	$\sigma_8/h^{0.5}$	1.015 ± 0.017	$F_{\rm AP}(0.57)$	0.6767 ± 0.0023
$\boldsymbol{A_{143\times217}^{PS}}$	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.499 ± 0.039	$f\sigma_8(0.57)$	0.4850 ± 0.0080
$\boldsymbol{A_{217}^{\rm PS}}$	97 ± 10	$z_{\rm re}$	$10.5^{+1.7}_{-1.5}$	$\sigma_8(0.57)$	0.619 ± 0.010
$\boldsymbol{A^{\rm kSZ}}$	< 4.83	$10^9A_{\rm s}$	2.232 ± 0.076	$r_{0.002}$	< 0.0663
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.41 ± 1.9	$10^9A_{\rm s}e^{-2\tau}$	1.885 ± 0.012	$r_{0.01}$	< 0.0668
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	8.95 ± 1.8	D_{40}	1241 ± 21	$\ln(10^{10}A_{\rm t})$	$-0.24^{+1.4}_{-0.63}$
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.0 ± 4.2	D_{220}	5724 ± 40	r_{10}	< 0.0337
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.5 ± 7.5	D_{810}	2538 ± 14	$10^9A_{\rm t}$	< 0.154
$\boldsymbol{A_{100}^{{\rm dust}EE}}$	0.0812 ± 0.0057	D_{1420}	813.4 ± 5.0	$10^9A_te^{-2\tau}$	< 0.130
$\boldsymbol{A_{100\times143}^{{\rm dust}EE}}$	0.0488 ± 0.0050	D_{2000}	229.6 ± 1.8	f_{2000}^{143}	30.8 ± 3.0
$\boldsymbol{A_{100\times217}^{{\rm dust}EE}}$	0.0996 ± 0.032	$n_{\rm s,0.002}$	0.992 ± 0.024	$f_{2000}^{143\times217}$	33.2 ± 2.1
$\boldsymbol{A_{143}^{{\rm dust}EE}}$	0.1001 ± 0.0069	$Y_{\rm P}$	0.245370 ± 0.000075	f_{2000}^{217}	106.7 ± 2.0
$\boldsymbol{A_{143\times217}^{{\rm dust}EE}}$	0.223 ± 0.047	$Y_{\rm P}^{\rm BBN}$	0.246697 ± 0.000075	$\chi^2_{\rm lowTEB}$	10497.5 ± 2.9
$\boldsymbol{A_{217}^{{\rm dust}EE}}$	0.65 ± 0.13	10^5D/H	2.601 ± 0.031	$\chi^2_{\rm plik}$	2452.6 ± 7.1
$\boldsymbol{A_{100}^{{\rm dust}TE}}$	0.142 ± 0.038	Age/Gyr	13.804 ± 0.026	$\chi^2_{\rm prior}$	19.3 ± 5.5
$\boldsymbol{A_{100\times143}^{{\rm dust}TE}}$	0.132 ± 0.029	z_*	1089.95 ± 0.30	$\chi^2_{\rm CMB}$	12950.1 ± 7.0
$\boldsymbol{A_{100\times217}^{{\rm dust}TE}}$	0.301 ± 0.085	r_*	144.56 ± 0.33		

$\bar{\chi}^2_{\rm eff} = 12969.39$; $R - 1 = 0.01187$

18.11 base_nrun_r_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022328	0.02245 ± 0.00028 $(+0.0\sigma)$	Ω_Λ	0.6872	0.691 ± 0.014 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.160816	0.16070 ± 0.00032 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.11952	0.1189 ± 0.0022 (-0.1σ)	$\Omega_{\rm m}$	0.3128	0.309 ± 0.014 (-0.1σ)	$z_{\rm eq}$	3389.6	3378 ± 50 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.040932	1.04105 ± 0.00049 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14249	0.1420 ± 0.0021 (-0.1σ)	$100\theta_{\rm eq}$	0.8154	0.8181 ± 0.0096 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0829	$0.091^{+0.021}_{-0.025}$ $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	0.09617	0.09633 ± 0.00052 (-0.0σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07150	0.07174 ± 0.00077 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0993	$3.114^{+0.042}_{-0.048}$ (-0.0σ)	σ_8	0.8309	0.835 ± 0.016 (-0.0σ)	$H(0.57)$	92.988	$93.18^{+0.45}_{-0.51}$ $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9654	0.9691 ± 0.0066 $(+0.4\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4647	0.464 ± 0.013 (-0.1σ)	$D_{\rm A}(0.57)$	1388.9	1384 ± 14 (-0.1σ)
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0082	-0.0116 ± 0.0090 $(+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6214	0.622 ± 0.014 (-0.1σ)	$F_{\rm AP}(0.57)$	0.67636	0.6753 ± 0.0035 (-0.1σ)
$\boldsymbol{r}$	0.0002	< 0.0747 (-0.0σ)	$\sigma_8/h^{0.5}$	1.0113	1.013 ± 0.021 (-0.1σ)	$f\sigma_8(0.57)$	0.4834	0.484 ± 0.010 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00048	1.0003 ± 0.0025 (-0.0σ)	$\langle d^2\rangle^{1/2}$	2.4886	2.484 ± 0.047 (-0.2σ)	$\sigma_8(0.57)$	0.6178	$0.622^{+0.012}_{-0.014}$ $(+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	256.7	249 ± 23 (-0.5σ)	$z_{\rm re}$	10.40	10.9 ± 1.9 $(+0.0\sigma)$	$r_{0.002}$	0.0001	< 0.0745 (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	36.9	40 ± 8 (-0.6σ)	$10^9A_{\rm s}$	2.218	$2.252^{+0.090}_{-0.11}$ (-0.0σ)	$r_{0.01}$	0.0001	< 0.0734 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	92.9	97 ± 10 $(+0.1\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	1.8791	1.877 ± 0.014 (-0.4σ)	$\ln(10^{10}A_{\rm t})$	-5.67	$-0.17^{+1.4}_{-0.66}$ (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	48.1	47 ± 7 (-2.7σ)	D_{40}	1215.3	1224 ± 23 (-0.3σ)	r_{10}	0.0001	< 0.0378 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	2.24	$3.06^{+1.1}_{-2.8}$ (-0.9σ)	D_{220}	5705.3	5697 ± 42 (-0.5σ)	$10^9A_{\rm t}$	0.000	< 0.168 (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.381	$0.507^{+0.099}_{-0.12}$	D_{810}	2532.0	2533 ± 14 (-0.3σ)	$10^9A_te^{-2\tau}$	0.000	< 0.140 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.004	< 0.575 (-0.2σ)	D_{1420}	812.3	813.6 ± 5.2 $(+0.0\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246284	0.24633 ± 0.00012 (-3.3σ)
$\boldsymbol{A^{kSZ}}$	7.08	> 4.34 $(+0.6\sigma)$	$n_{\rm s,0.002}$	0.9917	$1.006^{+0.028}_{-0.032}$ (-0.0σ)	f_{2000}^{143}	30.91	29.7 ± 3.1 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	1.000	0.99 ± 0.19	$Y_{\rm P}$	0.244953	$0.24501^{+0.00012}_{-0.00013}$ (-3.3σ)	f_{2000}^{217}	107.82	106.9 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.026	1.02 ± 0.18	Age/Gyr	13.7993	13.781 ± 0.044 (-0.1σ)	$f_{2000}^{143\times217}$	32.94	32.4 ± 2.4 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.224	1.21 ± 0.12	z_*	1089.914	1089.72 ± 0.48 (-0.1σ)	$\chi^2_{\rm lowTEB}$	10494.11	10496.7 ± 3.0 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.953	0.98 ± 0.18	r_*	144.590	144.66 ± 0.49 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8045.5	8061.3 ± 6.1
$\boldsymbol{c_{100}}$	0.99669	0.99681 ± 0.00097 (-1.4σ)	$100\theta_*$	1.041133	1.04123 ± 0.00048 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	3.81	8.36 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99771	0.9973 ± 0.0018 $(+0.9\sigma)$	$z_{\rm drag}$	1059.78	1060.02 ± 0.56 (-0.0σ)	$\chi^2_{\rm CMB}$	18539.6	18558.0 ± 6.2 $(+1219.1\sigma)$
$\boldsymbol{\beta_1^1}$	-0.21	-0.1 ± 1.0	$r_{\rm drag}$	147.269	147.30 ± 0.49 $(+0.1\sigma)$			
H_0	67.49	67.9 ± 1.0 $(+0.1\sigma)$	$k_{\rm D}$	0.14067	0.14072 ± 0.00055 (-0.1σ)			

Best-fit $\chi^2_{\rm eff} = 18543.37$; $\Delta\chi^2_{\rm eff} = 7282.25$; $\bar{\chi}^2_{\rm eff} = 18566.33$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.57$; $R - 1 = 0.00729$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.11 (Δ -0.95) CamSpec like_v9.10CMH_unified: 8045.46

18.12 base_nrun_r_CamSpecHM_TT_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02245 ± 0.00024 (-0.0σ)	Ω_m	0.3081 ± 0.0077 (-0.1σ)	$100\theta_{eq}$	0.8184 ± 0.0055 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1188 ± 0.0013 (-0.1σ)	$\Omega_m h^2$	0.1419 ± 0.0012 (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07176 ± 0.00043 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04106 ± 0.00042 $(+0.1\sigma)$	$\Omega_m h^3$	0.09633 ± 0.00052 (-0.0σ)	$H(0.57)$	93.19 ± 0.30 $(+0.0\sigma)$
$\boldsymbol{\tau}$	$0.090^{+0.020}_{-0.022}$ (-0.0σ)	σ_8	$0.834^{+0.016}_{-0.018}$ (-0.0σ)	$D_A(0.57)$	1383.5 ± 8.1 (-0.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	$3.113^{+0.040}_{-0.045}$ (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.463 ± 0.011 (-0.1σ)	$F_{AP}(0.57)$	0.6751 ± 0.0020 (-0.1σ)
$\boldsymbol{n_s}$	0.9692 ± 0.0048 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.622 ± 0.013 (-0.0σ)	$f\sigma_8(0.57)$	0.4842 ± 0.0097 (-0.0σ)
$\boldsymbol{dn_s/d\ln k}$	-0.0115 ± 0.0090 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.013 ± 0.020 (-0.0σ)	$\sigma_8(0.57)$	$0.622^{+0.012}_{-0.014}$ (-0.0σ)
$\boldsymbol{r}$	< 0.0748 (-0.0σ)	$\langle d^2 \rangle^{1/2}$	2.483 ± 0.045 (-0.1σ)	$r_{0.002}$	< 0.0747 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	z_{re}	10.9 ± 1.8 (-0.0σ)	$r_{0.01}$	< 0.0735 (-0.0σ)
$\boldsymbol{A_{100}^{PS}}$	248 ± 23 (-0.5σ)	$10^9 A_s$	$2.251^{+0.087}_{-0.11}$ (-0.1σ)	$\ln(10^{10} A_t)$	$-0.16^{+1.4}_{-0.65}$ (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	40 ± 8 (-0.6σ)	$10^9 A_s e^{-2\tau}$	1.877 ± 0.012 (-0.4σ)	r_{10}	< 0.0379 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	D_{40}	1224 ± 22 (-0.3σ)	$10^9 A_t$	< 0.169 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.7σ)	D_{220}	5697 ± 41 (-0.5σ)	$10^9 A_t e^{-2\tau}$	< 0.140 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.07^{+1.1}_{-2.8}$ (-0.9σ)	D_{810}	2533 ± 14 (-0.3σ)	Y_P^{BBN}	0.24634 ± 0.00010 (-3.9σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{1420}	813.6 ± 5.1 (-0.0σ)	f_{2000}^{143}	29.7 ± 3.1 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.574 (-0.2σ)	$n_{s,0.002}$	$1.006^{+0.028}_{-0.031}$ (-0.0σ)	f_{2000}^{217}	106.9 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	> 4.40 $(+0.6\sigma)$	Y_P	0.24501 ± 0.00010 (-3.9σ)	$f_{2000}^{143\times217}$	32.4 ± 2.3 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	Age/Gyr	13.780 ± 0.032 (-0.0σ)	χ^2_{lowTEB}	10496.5 ± 2.9 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	z_*	1089.70 ± 0.34 (-0.0σ)	$\chi^2_{CamSpec}$	8060.9 ± 6.0
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	r_*	144.68 ± 0.33 $(+0.1\sigma)$	χ^2_{6DF}	0.051 ± 0.070 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$100\theta_*$	1.04125 ± 0.00042 $(+0.1\sigma)$	χ^2_{MGS}	1.49 ± 0.57 $(+0.1\sigma)$
$\boldsymbol{c_{100}}$	0.99682 ± 0.00097 (-1.4σ)	z_{drag}	1060.02 ± 0.53 (-0.1σ)	$\chi^2_{DR11CMASS}$	2.88 ± 0.66 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	r_{drag}	147.32 ± 0.37 $(+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	0.62 ± 0.55 (-0.1σ)
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	k_D	0.14070 ± 0.00049 (-0.0σ)	χ^2_{prior}	8.36 ± 3.5 $(+0.3\sigma)$
H_0	67.88 ± 0.59 $(+0.0\sigma)$	$100\theta_D$	0.16069 ± 0.00030 $(+0.0\sigma)$	χ^2_{CMB}	18557.4 ± 6.0 $(+1019.1\sigma)$
Ω_Λ	0.6919 ± 0.0077 $(+0.1\sigma)$	z_{eq}	3376 ± 30 (-0.1σ)	χ^2_{BAO}	5.04 ± 0.97 (-0.0σ)

$\bar{\chi}^2_{eff} = 18570.78$; $\Delta\bar{\chi}^2_{eff} = 7282.57$; $R - 1 = 0.00727$

18.13 base_nrun_r_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02247 ± 0.00027 $(+0.0\sigma)$	Ω_Λ	0.693 ± 0.013 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.16068 ± 0.00031 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1186 ± 0.0021 (-0.1σ)	$\Omega_{\rm m}$	0.307 ± 0.013 (-0.1σ)	$z_{\rm eq}$	3371 ± 46 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04109 ± 0.00048 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.1417 ± 0.0019 (-0.1σ)	$100\theta_{\rm eq}$	0.8194 ± 0.0090 $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.092^{+0.021}_{-0.024}$ $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	0.09634 ± 0.00052 (-0.0σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07185 ± 0.00072 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.116^{+0.042}_{-0.048}$ (-0.0σ)	σ_8	0.835 ± 0.016 (-0.0σ)	$H(0.57)$	$93.24^{+0.43}_{-0.48}$ $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9699 ± 0.0063 $(+0.4\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.462 ± 0.013 (-0.1σ)	$D_{\rm A}(0.57)$	1382 ± 13 (-0.1σ)
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0118 ± 0.0091 $(+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.621 ± 0.014 (-0.1σ)	$F_{\rm AP}(0.57)$	0.6748 ± 0.0032 (-0.1σ)
$\boldsymbol{r}$	< 0.0760 (-0.0σ)	$\sigma_8/h^{0.5}$	1.012 ± 0.021 (-0.1σ)	$f\sigma_8(0.57)$	0.484 ± 0.010 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	$\langle d^2\rangle^{1/2}$	2.482 ± 0.047 (-0.2σ)	$\sigma_8(0.57)$	$0.622^{+0.012}_{-0.014}$ $(+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248 ± 23 (-0.5σ)	$z_{\rm re}$	11.0 ± 1.9 $(+0.0\sigma)$	$r_{0.002}$	< 0.0760 (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	40 ± 8 (-0.6σ)	$10^9A_{\rm s}$	$2.258^{+0.090}_{-0.11}$ (-0.0σ)	$r_{0.01}$	< 0.0747 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	1.876 ± 0.014 (-0.4σ)	$\ln(10^{10}A_{\rm t})$	$-0.15^{+1.4}_{-0.65}$ (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.7σ)	D_{40}	1223 ± 23 (-0.3σ)	r_{10}	< 0.0386 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.07^{+1.2}_{-2.7}$ (-0.9σ)	D_{220}	5698 ± 41 (-0.5σ)	$10^9A_{\rm t}$	< 0.172 (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{810}	2533 ± 14 (-0.3σ)	$10^9A_te^{-2\tau}$	< 0.143 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.575 (-0.2σ)	D_{1420}	813.7 ± 5.2 (-0.0σ)	$Y_{\rm P}^{\rm BBN}$	0.24634 ± 0.00011 (-3.4σ)
$\boldsymbol{A^{kSZ}}$	> 4.33 $(+0.6\sigma)$	$n_{\rm s,0.002}$	$1.008^{+0.028}_{-0.032}$ (-0.0σ)	f_{2000}^{143}	29.6 ± 3.2 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$Y_{\rm P}$	0.24502 ± 0.00012 (-3.4σ)	f_{2000}^{217}	106.9 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Age/Gyr	13.776 ± 0.042 (-0.1σ)	$f_{2000}^{143\times217}$	32.3 ± 2.4 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	z_*	1089.66 ± 0.46 (-0.1σ)	$\chi^2_{\rm lowTEB}$	10496.7 ± 3.0 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	r_*	144.72 ± 0.46 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8061.2 ± 6.1
$\boldsymbol{c_{100}}$	0.99682 ± 0.00097 (-1.4σ)	$100\theta_*$	1.04127 ± 0.00047 $(+0.1\sigma)$	$\chi^2_{\rm JLA}$	706.76 ± 0.33 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	$z_{\rm drag}$	1060.05 ± 0.56 (-0.1σ)	$\chi^2_{\rm prior}$	8.37 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$r_{\rm drag}$	147.36 ± 0.47 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18558.0 ± 6.1 $(+933.1\sigma)$
H_0	68.00 ± 0.97 $(+0.1\sigma)$	$k_{\rm D}$	0.14068 ± 0.00054 (-0.1σ)		

$\bar{\chi}^2_{\rm eff} = 19273.08$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.51$; $R-1 = 0.00801$

18.14 base_nrun_r_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02249 ± 0.00027 (-0.0σ)	Ω_Λ	0.694 ± 0.013 $(+0.1\sigma)$	$100\theta_{\rm D}$	0.16066 ± 0.00031 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1184 ± 0.0021 (-0.1σ)	$\Omega_{\rm m}$	0.306 ± 0.013 (-0.1σ)	$z_{\rm eq}$	3367 ± 48 (-0.1σ)
$\boldsymbol{100\theta_{\rm MC}}$	1.04112 ± 0.00048 $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.1416 ± 0.0020 (-0.1σ)	$100\theta_{\rm eq}$	0.8202 ± 0.0093 $(+0.1\sigma)$
$\boldsymbol{\tau}$	$0.093^{+0.021}_{-0.025}$ $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	0.09637 ± 0.00052 (-0.0σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07191 ± 0.00075 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.118^{+0.042}_{-0.049}$ (-0.0σ)	σ_8	0.835 ± 0.016 (-0.0σ)	$H(0.57)$	93.28 ± 0.46 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9703 ± 0.0065 $(+0.4\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.462 ± 0.013 (-0.1σ)	$D_{\rm A}(0.57)$	1381 ± 13 (-0.1σ)
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0120 ± 0.0091 $(+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.621 ± 0.014 (-0.1σ)	$F_{\rm AP}(0.57)$	0.6745 ± 0.0033 (-0.1σ)
$\boldsymbol{r}$	< 0.0771 (-0.0σ)	$\sigma_8/h^{0.5}$	1.012 ± 0.021 (-0.1σ)	$f\sigma_8(0.57)$	0.484 ± 0.010 (-0.1σ)
$\boldsymbol{y_{\rm cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\langle d^2\rangle^{1/2}$	2.481 ± 0.047 (-0.1σ)	$\sigma_8(0.57)$	$0.623^{+0.012}_{-0.014}$ (-0.0σ)
$\boldsymbol{A^{\rm PS}_{100}}$	248 ± 23 (-0.5σ)	$z_{\rm re}$	11.1 ± 1.9 $(+0.0\sigma)$	$r_{0.002}$	< 0.0776 (-0.0σ)
$\boldsymbol{A^{\rm PS}_{143}}$	40 ± 8 (-0.6σ)	$10^9A_{\rm s}$	$2.262^{+0.090}_{-0.11}$ (-0.0σ)	$r_{0.01}$	< 0.0759 (-0.0σ)
$\boldsymbol{A^{\rm PS}_{217}}$	97 ± 10 $(+0.1\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	1.875 ± 0.014 (-0.4σ)	$\ln(10^{10}A_{\rm t})$	$-0.14^{+1.4}_{-0.64}$ (-0.0σ)
$\boldsymbol{A^{\rm CIB}_{217}}$	47 ± 7 (-2.7σ)	D_{40}	1223 ± 23 (-0.3σ)	r_{10}	< 0.0392 (-0.0σ)
$\boldsymbol{A^{\rm tSZ}_{143}}$	$3.08^{+1.2}_{-2.7}$ (-0.9σ)	D_{220}	5699 ± 41 (-0.5σ)	$10^9A_{\rm t}$	< 0.175 (-0.0σ)
$\boldsymbol{r^{\rm PS}_{143\times217}}$	$0.51^{+0.10}_{-0.12}$	D_{810}	2533 ± 14 (-0.3σ)	$10^9A_te^{-2\tau}$	< 0.144 (-0.0σ)
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	< 0.576 (-0.2σ)	D_{1420}	813.9 ± 5.2 $(+0.0\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.24635 ± 0.00012 (-3.3σ)
$\boldsymbol{A^{\rm kSZ}}$	> 4.30 $(+0.6\sigma)$	$n_{\rm s,0.002}$	$1.009^{+0.029}_{-0.033}$ (-0.0σ)	f^{143}_{2000}	29.5 ± 3.2 (-0.5σ)
$\boldsymbol{A^{\rm dust}_{100}}$	0.99 ± 0.19	$Y_{\rm P}$	0.24503 ± 0.00012 (-3.4σ)	f^{217}_{2000}	106.8 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A^{\rm dust}_{143}}$	1.02 ± 0.18	Age/Gyr	13.772 ± 0.043 (-0.0σ)	$f^{143\times217}_{2000}$	32.2 ± 2.4 (-0.4σ)
$\boldsymbol{A^{\rm dust}_{217}}$	1.21 ± 0.12	z_*	1089.62 ± 0.46 (-0.1σ)	$\chi^2_{\rm lowTEB}$	10496.8 ± 3.1 (-0.1σ)
$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.98 ± 0.18	r_*	144.75 ± 0.48 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8061.3 ± 6.1
$\boldsymbol{c_{100}}$	0.99682 ± 0.00097 (-1.4σ)	$100\theta_*$	1.04130 ± 0.00047 $(+0.1\sigma)$	$\chi^2_{\rm H070p6}$	0.66 ± 0.46 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	$z_{\rm drag}$	1060.09 ± 0.56 (-0.1σ)	$\chi^2_{\rm prior}$	8.37 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$r_{\rm drag}$	147.38 ± 0.48 $(+0.1\sigma)$	$\chi^2_{\rm CMB}$	18558.1 ± 6.2 $(+1124.1\sigma)$
H_0	68.1 ± 1.0 $(+0.1\sigma)$	$k_{\rm D}$	0.14067 ± 0.00055 (-0.1σ)		

$\bar{\chi}^2_{\rm eff} = 18567.12$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.52$; $R - 1 = 0.00832$

18.15 base_nrun_r_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02245 \pm 0.00027 \quad (+0.0\sigma)$	Ω_Λ	$0.691 \pm 0.014 \quad (+0.1\sigma)$	$100\theta_{\rm D}$	$0.16069 \pm 0.00031 \quad (-0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0022 \quad (-0.1\sigma)$	$\Omega_{\rm m}$	$0.309 \pm 0.014 \quad (-0.1\sigma)$	$z_{\rm eq}$	$3377 \pm 49 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04105 \pm 0.00049 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1420 \pm 0.0021 \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8182 \pm 0.0095 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.091^{+0.020}_{-0.025} \quad (+0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.09634 \pm 0.00052 \quad (-0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07175 \pm 0.00077 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.115^{+0.039}_{-0.049} \quad (-0.0\sigma)$	σ_8	$0.835^{+0.015}_{-0.018} \quad (-0.0\sigma)$	$H(0.57)$	$93.19^{+0.44}_{-0.50} \quad (+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9692 \pm 0.0066 \quad (+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.464 \pm 0.013 \quad (-0.1\sigma)$	$D_{\rm A}(0.57)$	$1384 \pm 14 \quad (-0.1\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	$-0.0116 \pm 0.0090 \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.622 \pm 0.014 \quad (-0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.6753 \pm 0.0035 \quad (-0.1\sigma)$
$\boldsymbol{r}$	$< 0.0745 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.014 \pm 0.020 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4846 \pm 0.0099 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.485 \pm 0.047 \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.622^{+0.011}_{-0.014} \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 23 \quad (-0.5\sigma)$	$z_{\rm re}$	$11.0 \pm 1.8 \quad (+0.0\sigma)$	$r_{0.002}$	$< 0.0745 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	$10^9 A_{\rm s}$	$2.255^{+0.084}_{-0.11} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.0733 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.877 \pm 0.014 \quad (-0.4\sigma)$	$\ln(10^{10} A_{\rm t})$	$-0.17^{+1.4}_{-0.65} \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	D_{40}	$1224 \pm 23 \quad (-0.3\sigma)$	r_{10}	$< 0.0378 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.06^{+1.1}_{-2.7} \quad (-0.9\sigma)$	D_{220}	$5697 \pm 42 \quad (-0.5\sigma)$	$10^9 A_{\rm t}$	$< 0.168 \quad (-0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{810}	$2533 \pm 14 \quad (-0.3\sigma)$	$10^9 A_t e^{-2\tau}$	$< 0.140 \quad (-0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.575 \quad (-0.2\sigma)$	D_{1420}	$813.6 \pm 5.2 \quad (-0.0\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.24634 \pm 0.00012 \quad (-3.3\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.36 \quad (+0.6\sigma)$	$n_{\rm s,0.002}$	$1.007^{+0.028}_{-0.032} \quad (-0.0\sigma)$	f_{2000}^{143}	$29.7 \pm 3.1 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	$Y_{\rm P}$	$0.24501^{+0.00011}_{-0.00013} \quad (-3.3\sigma)$	f_{2000}^{217}	$106.9 \pm 2.2 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Age/Gyr	$13.781 \pm 0.044 \quad (-0.1\sigma)$	$f_{2000}^{143\times217}$	$32.3 \pm 2.4 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	z_*	$1089.71 \pm 0.48 \quad (-0.1\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.7 \pm 3.0 \quad (-0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	r_*	$144.66 \pm 0.49 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8061.2 ± 6.1
$\boldsymbol{c_{100}}$	$0.99681 \pm 0.00097 \quad (-1.4\sigma)$	$100\theta_*$	$1.04124 \pm 0.00048 \quad (+0.1\sigma)$	$\chi^2_{\rm prior}$	$8.37 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	$z_{\rm drag}$	$1060.03 \pm 0.56 \quad (-0.0\sigma)$	$\chi^2_{\rm CMB}$	$18557.9 \pm 6.1 \quad (+930.0\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	$147.30 \pm 0.49 \quad (+0.1\sigma)$		
H_0	$67.9 \pm 1.0 \quad (+0.1\sigma)$	$k_{\rm D}$	$0.14072 \pm 0.00055 \quad (-0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18566.29$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.53$; $R - 1 = 0.00830$

18.16 base_nrun_r_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022390	0.02243 ± 0.00017 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.13	-0.1 ± 1.0	$r_{\rm drag}$	147.315	147.32 ± 0.32 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11908	0.1189 ± 0.0014 (-0.5σ)	H_0	67.67	67.78 ± 0.65 $(+0.6\sigma)$	$k_{\rm D}$	0.140664	0.14068 ± 0.00036 $(+0.0\sigma)$
$\boldsymbol{100\theta_{\rm MC}}$	1.040848	1.04086 ± 0.00030 $(+0.2\sigma)$	Ω_Λ	0.6896	0.6909 ± 0.0087 $(+0.6\sigma)$	$100\theta_{\rm D}$	0.160730	0.16069 ± 0.00020 (-0.7σ)
$\boldsymbol{\tau}$	0.0803	0.082 ± 0.018 (-0.1σ)	$\Omega_{\rm m}$	0.3104	0.3091 ± 0.0087 (-0.6σ)	$z_{\rm eq}$	3380.7	3377 ± 32 (-0.5σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0924	3.095 ± 0.036 (-0.2σ)	$\Omega_{\rm m} h^2$	0.14211	0.1420 ± 0.0013 (-0.5σ)	$100\theta_{\rm eq}$	0.8172	0.8180 ± 0.0062 $(+0.5\sigma)$
$\boldsymbol{n_s}$	0.9673	0.9686 ± 0.0050 $(+0.9\sigma)$	$\Omega_{\rm m} h^3$	0.096167	0.09621 ± 0.00033 $(+0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071620	0.07170 ± 0.00049 $(+0.5\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0054	-0.0080 ± 0.0081 $(+0.1\sigma)$	σ_8	0.8273	0.828 ± 0.014 (-0.4σ)	$H(0.57)$	93.058	93.12 ± 0.29 $(+0.6\sigma)$
$\boldsymbol{r}$	0.029	< 0.105 $(+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4609	0.4601 ± 0.0098 (-0.7σ)	$D_{\rm A}(0.57)$	1386.6	1385.0 ± 8.6 (-0.6σ)
$\boldsymbol{y_{\rm cal}}$	1.00038	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6175	0.617 ± 0.011 (-0.6σ)	$F_{\rm AP}(0.57)$	0.67574	0.6754 ± 0.0022 (-0.6σ)
$\boldsymbol{A_{100}^{\rm PS}}$	250.1	247 ± 23 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0057	1.005 ± 0.017 (-0.5σ)	$f\sigma_8(0.57)$	0.4807	0.4805 ± 0.0082 (-0.5σ)
$\boldsymbol{A_{143}^{\rm PS}}$	35.9	40 ± 8 (-0.7σ)	$\langle d^2 \rangle^{1/2}$	2.4777	2.471 ± 0.040 (-0.7σ)	$\sigma_8(0.57)$	0.6157	0.616 ± 0.011 (-0.2σ)
$\boldsymbol{A_{217}^{\rm PS}}$	96.6	98 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	10.13	$10.2^{+1.7}_{-1.5}$ (-0.1σ)	$r_{0.002}$	0.027	< 0.105 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{\rm CIB}}$	47.1	46 ± 7 (-2.8σ)	$10^9 A_{\rm s}$	2.203	2.211 ± 0.079 (-0.2σ)	$r_{0.01}$	0.028	< 0.104 $(+0.6\sigma)$
$\boldsymbol{A_{143}^{\rm tSZ}}$	3.16	$3.22^{+1.4}_{-2.6}$ (-0.9σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8762	1.876 ± 0.012 (-0.7σ)	$\ln(10^{10} A_{\rm t})$	-0.45	$0.24^{+1.3}_{-0.51}$ $(+0.4\sigma)$
$\boldsymbol{r_{143\times217}^{\rm PS}}$	0.411	$0.51^{+0.10}_{-0.12}$	D_{40}	1227.3	1239^{+20}_{-23} (-0.1σ)	r_{10}	0.0137	< 0.0534 $(+0.6\sigma)$
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.000	< 0.593 (-0.2σ)	D_{220}	5710.2	5703 ± 39 (-0.5σ)	$10^9 A_{\rm t}$	0.064	< 0.233 $(+0.6\sigma)$
$\boldsymbol{A^{\rm kSZ}}$	5.28	$5.44^{+4.0}_{-2.0}$ $(+0.7\sigma)$	D_{810}	2531.8	2532 ± 14 (-0.4σ)	$10^9 A_t e^{-2\tau}$	0.054	< 0.198 $(+0.6\sigma)$
$\boldsymbol{A_{100}^{\rm dust}}$	0.994	0.98 ± 0.19	D_{1420}	813.8	814.0 ± 5.0 $(+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246312	0.246329 ± 0.000074 (-4.9σ)
$\boldsymbol{A_{143}^{\rm dust}}$	1.009	1.02 ± 0.18	$n_{\rm s,0.002}$	0.9847	0.994 ± 0.026 $(+0.1\sigma)$	f_{2000}^{143}	29.54	29.4 ± 3.1 (-0.5σ)
$\boldsymbol{A_{217}^{\rm dust}}$	1.224	1.21 ± 0.12	$Y_{\rm P}$	0.244980	0.245000 ± 0.000075 (-4.9σ)	f_{2000}^{217}	106.88	106.6 ± 2.1 (-0.0σ)
$\boldsymbol{A_{143\times217}^{\rm dust}}$	0.968	0.99 ± 0.18	Age/Gyr	13.7939	13.788 ± 0.027 (-0.6σ)	$f_{2000}^{143\times217}$	31.91	32.0 ± 2.3 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99678	0.99680 ± 0.00097 (-1.8σ)	z_*	1089.796	1089.73 ± 0.30 (-0.7σ)	$\chi^2_{\rm lowTEB}$	10495.23	10497.4 ± 2.9 (-0.0σ)
$\boldsymbol{c_{217}}$	0.99734	0.9971 ± 0.0018 $(+0.7\sigma)$	r_*	144.655	144.68 ± 0.32 $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12936.3	12952.8 ± 6.4
$\boldsymbol{c_{TE}}$	1.00327	1.0036 ± 0.0045	$100\theta_*$	1.041038	1.04105 ± 0.00030 $(+0.2\sigma)$	$\chi^2_{\rm prior}$	3.55	8.84 ± 3.6 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.00084	1.0007 ± 0.0042	$z_{\rm drag}$	1059.895	1059.98 ± 0.36 $(+0.6\sigma)$	$\chi^2_{\rm CMB}$	23431.5	23450.3 ± 6.3 $(+1506.9\sigma)$

Best-fit $\chi^2_{\rm eff} = 23435.05$; $\Delta\chi^2_{\rm eff} = 10499.87$; $\bar{\chi}^2_{\rm eff} = 23459.10$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.59$; $R - 1 = 0.00444$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.23 (Δ -0.56) CamSpec like_v9.10CMH_unified: 12936.26

18.17 base_nrun_r_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02244 \pm 0.00016 \quad (+0.6\sigma)$	Ω_Λ	$0.6917 \pm 0.0063 \quad (+0.4\sigma)$	$100\theta_{\rm eq}$	$0.8185 \pm 0.0045 \quad (+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1188 \pm 0.0010 \quad (-0.4\sigma)$	$\Omega_{\rm m}$	$0.3083 \pm 0.0063 \quad (-0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07174 \pm 0.00035 \quad (+0.4\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04088 \pm 0.00028 \quad (+0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1418 \pm 0.0010 \quad (-0.3\sigma)$	$H(0.57)$	$93.14 \pm 0.22 \quad (+0.5\sigma)$
$\boldsymbol{\tau}$	$0.082 \pm 0.017 \quad (-0.2\sigma)$	$\Omega_{\rm m}h^3$	$0.09621 \pm 0.00033 \quad (+0.3\sigma)$	$D_{\rm A}(0.57)$	$1384.3 \pm 6.4 \quad (-0.5\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.096 \pm 0.035 \quad (-0.3\sigma)$	σ_8	$0.828 \pm 0.014 \quad (-0.4\sigma)$	$F_{\rm AP}(0.57)$	$0.6752 \pm 0.0016 \quad (-0.4\sigma)$
$\boldsymbol{n_s}$	$0.9690 \pm 0.0043 \quad (+0.8\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.4595 \pm 0.0089 \quad (-0.6\sigma)$	$f\sigma_8(0.57)$	$0.4803 \pm 0.0082 \quad (-0.5\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	$-0.0079 \pm 0.0081 \quad (+0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.617 \pm 0.011 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.616 \pm 0.010 \quad (-0.3\sigma)$
$\boldsymbol{r}$	$< 0.105 \quad (+0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.005 \pm 0.017 \quad (-0.5\sigma)$	$r_{0.002}$	$< 0.105 \quad (+0.6\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\langle d^2\rangle^{1/2}$	$2.470 \pm 0.040 \quad (-0.6\sigma)$	$r_{0.01}$	$< 0.104 \quad (+0.6\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.6\sigma)$	$z_{\rm re}$	$10.2^{+1.7}_{-1.5} \quad (-0.2\sigma)$	$\ln(10^{10}A_{\rm t})$	$0.24^{+1.3}_{-0.52} \quad (+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	$10^9A_{\rm s}$	$2.212 \pm 0.078 \quad (-0.3\sigma)$	r_{10}	$< 0.0535 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$10^9A_{\rm s}e^{-2\tau}$	$1.875 \pm 0.011 \quad (-0.7\sigma)$	$10^9A_{\rm t}$	$< 0.234 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.8\sigma)$	D_{40}	$1239^{+20}_{-24} \quad (-0.1\sigma)$	$10^9A_te^{-2\tau}$	$< 0.198 \quad (+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.23^{+1.4}_{-2.6} \quad (-1.0\sigma)$	D_{220}	$5704 \pm 39 \quad (-0.6\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246332 \pm 0.000068 \quad (-5.6\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{810}	$2532 \pm 14 \quad (-0.4\sigma)$	f_{2000}^{143}	$29.3 \pm 3.0 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.596 \quad (-0.2\sigma)$	D_{1420}	$814.0 \pm 5.0 \quad (+0.1\sigma)$	f_{2000}^{217}	$106.6 \pm 2.1 \quad (+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.42^{+4.0}_{-1.9} \quad (+0.7\sigma)$	$n_{\rm s,0.002}$	$0.994 \pm 0.026 \quad (+0.1\sigma)$	$f_{2000}^{143\times217}$	$31.9 \pm 2.2 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	$Y_{\rm P}$	$0.245003 \pm 0.000069 \quad (-5.7\sigma)$	$\chi^2_{\rm lowTEB}$	$10497.4 \pm 2.9 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Age/Gyr	$13.787 \pm 0.022 \quad (-0.5\sigma)$	$\chi^2_{\rm CamSpec}$	12952.4 ± 6.3
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	z_*	$1089.71 \pm 0.25 \quad (-0.6\sigma)$	$\chi^2_{\rm 6DF}$	$0.040 \pm 0.053 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	r_*	$144.70 \pm 0.25 \quad (+0.2\sigma)$	$\chi^2_{\rm MGS}$	$1.44 \pm 0.47 \quad (+0.4\sigma)$
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00097 \quad (-1.8\sigma)$	$100\theta_*$	$1.04106 \pm 0.00028 \quad (+0.1\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.74 \pm 0.45 \quad (-0.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	$z_{\rm drag}$	$1059.99 \pm 0.34 \quad (+0.5\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.60 \pm 0.46 \quad (-0.4\sigma)$
$\boldsymbol{c_{TE}}$	1.0036 ± 0.0045	$r_{\rm drag}$	$147.35 \pm 0.27 \quad (+0.0\sigma)$	$\chi^2_{\rm prior}$	$8.80 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{EE}}$	1.0007 ± 0.0043	$k_{\rm D}$	$0.14066 \pm 0.00034 \quad (+0.2\sigma)$	$\chi^2_{\rm CMB}$	$23449.8 \pm 6.2 \quad (+1513.2\sigma)$
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_{\rm D}$	$0.16068 \pm 0.00020 \quad (-0.6\sigma)$	$\chi^2_{\rm BAO}$	$4.82 \pm 0.67 \quad (-0.2\sigma)$
H_0	$67.84 \pm 0.47 \quad (+0.4\sigma)$	$z_{\rm eq}$	$3374 \pm 24 \quad (-0.3\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23463.43$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.34$; $R - 1 = 0.00588$

18.18 base_nrun_r_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02244 \pm 0.00017 \quad (+0.7\sigma)$	H_0	$67.85 \pm 0.63 \quad (+0.6\sigma)$	$100\theta_{\rm D}$	$0.16068 \pm 0.00020 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1187 \pm 0.0014 \quad (-0.5\sigma)$	Ω_Λ	$0.6919 \pm 0.0084 \quad (+0.5\sigma)$	$z_{\rm eq}$	$3373 \pm 31 \quad (-0.5\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04088 \pm 0.00030 \quad (+0.2\sigma)$	$\Omega_{\rm m}$	$0.3081 \pm 0.0084 \quad (-0.5\sigma)$	$100\theta_{\rm eq}$	$0.8187 \pm 0.0060 \quad (+0.5\sigma)$
$\boldsymbol{\tau}$	$0.083 \pm 0.018 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1418 \pm 0.0013 \quad (-0.5\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07175 \pm 0.00047 \quad (+0.5\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.097 \pm 0.036 \quad (-0.3\sigma)$	$\Omega_{\rm m} h^3$	$0.09622 \pm 0.00033 \quad (+0.3\sigma)$	$H(0.57)$	$93.15 \pm 0.28 \quad (+0.6\sigma)$
$\boldsymbol{n_s}$	$0.9690 \pm 0.0049 \quad (+0.9\sigma)$	σ_8	$0.828 \pm 0.014 \quad (-0.4\sigma)$	$D_{\rm A}(0.57)$	$1384.1 \pm 8.4 \quad (-0.6\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	$-0.0080 \pm 0.0081 \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4594 \pm 0.0097 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6752 \pm 0.0021 \quad (-0.5\sigma)$
$\boldsymbol{r}$	$< 0.107 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.617 \pm 0.011 \quad (-0.6\sigma)$	$f\sigma_8(0.57)$	$0.4803 \pm 0.0083 \quad (-0.5\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.005 \pm 0.017 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.617 \pm 0.011 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.470 \pm 0.041 \quad (-0.7\sigma)$	$r_{0.002}$	$< 0.106 \quad (+0.6\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.7\sigma)$	$z_{\rm re}$	$10.3^{+1.7}_{-1.5} \quad (-0.2\sigma)$	$r_{0.01}$	$< 0.105 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$10^9 A_{\rm s}$	$2.214 \pm 0.080 \quad (-0.2\sigma)$	$\ln(10^{10} A_{\rm t})$	$0.25^{+1.3}_{-0.51} \quad (+0.4\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.8\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.875 \pm 0.012 \quad (-0.7\sigma)$	r_{10}	$< 0.0540 \quad (+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.23^{+1.4}_{-2.6} \quad (-0.9\sigma)$	D_{40}	$1238^{+20}_{-24} \quad (-0.1\sigma)$	$10^9 A_{\rm t}$	$< 0.236 \quad (+0.6\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	$5704 \pm 39 \quad (-0.5\sigma)$	$10^9 A_t e^{-2\tau}$	$< 0.200 \quad (+0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.595 \quad (-0.2\sigma)$	D_{810}	$2532 \pm 14 \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246334 \pm 0.000073 \quad (-5.0\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.41^{+4.0}_{-2.0} \quad (+0.7\sigma)$	D_{1420}	$814.1 \pm 5.1 \quad (+0.1\sigma)$	f_{2000}^{143}	$29.3 \pm 3.1 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	$n_{\rm s,0.002}$	$0.995 \pm 0.026 \quad (+0.1\sigma)$	f_{2000}^{217}	$106.6 \pm 2.1 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$Y_{\rm P}$	$0.245005 \pm 0.000075 \quad (-5.0\sigma)$	$f_{2000}^{143\times217}$	$31.9 \pm 2.3 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.786 \pm 0.026 \quad (-0.6\sigma)$	$\chi^2_{\rm lowTEB}$	$10497.4 \pm 3.0 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	$1089.70 \pm 0.29 \quad (-0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12952.8 ± 6.4
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00097 \quad (-1.8\sigma)$	r_*	$144.71 \pm 0.31 \quad (+0.3\sigma)$	$\chi^2_{\rm JLA}$	$706.72 \pm 0.22 \quad (-0.5\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	$100\theta_*$	$1.04107 \pm 0.00030 \quad (+0.2\sigma)$	$\chi^2_{\rm prior}$	$8.82 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0036 ± 0.0045	$z_{\rm drag}$	$1060.00 \pm 0.36 \quad (+0.6\sigma)$	$\chi^2_{\rm CMB}$	$23450.2 \pm 6.3 \quad (+1498.0\sigma)$
$\boldsymbol{c_{EE}}$	1.0007 ± 0.0043	$r_{\rm drag}$	$147.35 \pm 0.32 \quad (+0.2\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$k_{\rm D}$	$0.14067 \pm 0.00036 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 24165.77$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.48$; $R - 1 = 0.00569$

18.19 base_nrun_r_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02245 \pm 0.00017 \quad (+0.7\sigma)$	H_0	$67.89 \pm 0.64 \quad (+0.6\sigma)$	$100\theta_{\rm D}$	$0.16067 \pm 0.00021 \quad (-0.7\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1187 \pm 0.0014 \quad (-0.5\sigma)$	Ω_Λ	$0.6923 \pm 0.0085 \quad (+0.5\sigma)$	$z_{\rm eq}$	$3372 \pm 32 \quad (-0.5\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04089 \pm 0.00030 \quad (+0.2\sigma)$	$\Omega_{\rm m}$	$0.3077 \pm 0.0085 \quad (-0.5\sigma)$	$100\theta_{\rm eq}$	$0.8190 \pm 0.0061 \quad (+0.5\sigma)$
$\boldsymbol{\tau}$	$0.083 \pm 0.018 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1418 \pm 0.0013 \quad (-0.5\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07177 \pm 0.00048 \quad (+0.5\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.097 \pm 0.036 \quad (-0.2\sigma)$	$\Omega_{\rm m} h^3$	$0.09622 \pm 0.00033 \quad (+0.3\sigma)$	$H(0.57)$	$93.16 \pm 0.28 \quad (+0.6\sigma)$
$\boldsymbol{n_s}$	$0.9692 \pm 0.0049 \quad (+0.9\sigma)$	σ_8	$0.828 \pm 0.014 \quad (-0.4\sigma)$	$D_{\rm A}(0.57)$	$1383.7 \pm 8.5 \quad (-0.6\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	$-0.0081 \pm 0.0081 \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4591 \pm 0.0098 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6751 \pm 0.0022 \quad (-0.5\sigma)$
$\boldsymbol{r}$	$< 0.107 \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.616 \pm 0.011 \quad (-0.6\sigma)$	$f\sigma_8(0.57)$	$0.4802 \pm 0.0083 \quad (-0.5\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.005 \pm 0.017 \quad (-0.5\sigma)$	$\sigma_8(0.57)$	$0.617 \pm 0.011 \quad (-0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 23 \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.470 \pm 0.041 \quad (-0.7\sigma)$	$r_{0.002}$	$< 0.107 \quad (+0.6\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.7\sigma)$	$z_{\rm re}$	$10.3^{+1.7}_{-1.5} \quad (-0.1\sigma)$	$r_{0.01}$	$< 0.106 \quad (+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$10^9 A_{\rm s}$	$2.215^{+0.077}_{-0.086} \quad (-0.2\sigma)$	$\ln(10^{10} A_{\rm t})$	$0.26^{+1.3}_{-0.51} \quad (+0.4\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.8\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.875 \pm 0.012 \quad (-0.7\sigma)$	r_{10}	$< 0.0545 \quad (+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.24^{+1.4}_{-2.6} \quad (-0.9\sigma)$	D_{40}	$1238^{+20}_{-24} \quad (-0.1\sigma)$	$10^9 A_{\rm t}$	$< 0.238 \quad (+0.6\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{220}	$5705 \pm 39 \quad (-0.5\sigma)$	$10^9 A_t e^{-2\tau}$	$< 0.201 \quad (+0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.595 \quad (-0.2\sigma)$	D_{810}	$2532 \pm 14 \quad (-0.4\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246337 \pm 0.000074 \quad (-4.9\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.39^{+4.0}_{-2.0} \quad (+0.7\sigma)$	D_{1420}	$814.1 \pm 5.1 \quad (+0.1\sigma)$	f_{2000}^{143}	$29.3 \pm 3.1 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	$n_{\rm s,0.002}$	$0.995 \pm 0.026 \quad (+0.1\sigma)$	f_{2000}^{217}	$106.6 \pm 2.1 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$Y_{\rm P}$	$0.245008 \pm 0.000075 \quad (-5.0\sigma)$	$f_{2000}^{143\times217}$	$31.9 \pm 2.3 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Age/Gyr	$13.784 \pm 0.026 \quad (-0.6\sigma)$	$\chi^2_{\rm lowTEB}$	$10497.5 \pm 3.0 \quad (-0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	z_*	$1089.69 \pm 0.30 \quad (-0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12952.9 ± 6.4
$\boldsymbol{c_{100}}$	$0.99680 \pm 0.00097 \quad (-1.8\sigma)$	r_*	$144.72 \pm 0.32 \quad (+0.3\sigma)$	$\chi^2_{\rm H070p6}$	$0.70 \pm 0.31 \quad (-0.5\sigma)$
$\boldsymbol{c_{217}}$	$0.9971 \pm 0.0018 \quad (+0.7\sigma)$	$100\theta_*$	$1.04107 \pm 0.00030 \quad (+0.2\sigma)$	$\chi^2_{\rm prior}$	$8.82 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0036 ± 0.0046	$z_{\rm drag}$	$1060.01 \pm 0.36 \quad (+0.6\sigma)$	$\chi^2_{\rm CMB}$	$23450.3 \pm 6.3 \quad (+1493.4\sigma)$
$\boldsymbol{c_{EE}}$	1.0007 ± 0.0043	$r_{\rm drag}$	$147.36 \pm 0.32 \quad (+0.2\sigma)$		
$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$k_{\rm D}$	$0.14066 \pm 0.00036 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 23459.82$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.43$; $R - 1 = 0.00607$

18.20 base_nrun_r_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02243 ± 0.00017 $(+0.7\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$r_{\rm drag}$	147.32 ± 0.32 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1189 ± 0.0014 (-0.5σ)	H_0	67.79 ± 0.64 $(+0.6\sigma)$	$k_{\rm D}$	0.14069 ± 0.00036 $(+0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04086 ± 0.00030 $(+0.2\sigma)$	Ω_Λ	0.6910 ± 0.0087 $(+0.6\sigma)$	$100\theta_{\rm D}$	0.16068 ± 0.00020 (-0.7σ)
$\boldsymbol{\tau}$	$0.082^{+0.017}_{-0.019}$ (-0.1σ)	$\Omega_{\rm m}$	0.3090 ± 0.0087 (-0.6σ)	$z_{\rm eq}$	3376 ± 32 (-0.5σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.096 ± 0.035 (-0.2σ)	$\Omega_{\rm m} h^2$	0.1419 ± 0.0013 (-0.5σ)	$100\theta_{\rm eq}$	0.8181 ± 0.0061 $(+0.5\sigma)$
$\boldsymbol{n_s}$	0.9687 ± 0.0049 $(+0.9\sigma)$	$\Omega_{\rm m} h^3$	0.09622 ± 0.00033 $(+0.3\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07170 ± 0.00049 $(+0.5\sigma)$
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0080 ± 0.0080 $(+0.1\sigma)$	σ_8	0.828 ± 0.013 (-0.4σ)	$H(0.57)$	93.12 ± 0.28 $(+0.6\sigma)$
$\boldsymbol{r}$	< 0.106 $(+0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4602 ± 0.0097 (-0.7σ)	$D_{\rm A}(0.57)$	1384.9 ± 8.6 (-0.6σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.617 ± 0.011 (-0.6σ)	$F_{\rm AP}(0.57)$	0.6754 ± 0.0022 (-0.6σ)
$\boldsymbol{A_{100}^{PS}}$	247 ± 23 (-0.6σ)	$\sigma_8/h^{0.5}$	1.006 ± 0.017 (-0.5σ)	$f\sigma_8(0.57)$	0.4807 ± 0.0081 (-0.5σ)
$\boldsymbol{A_{143}^{PS}}$	40 ± 8 (-0.7σ)	$\langle d^2 \rangle^{1/2}$	2.472 ± 0.040 (-0.7σ)	$\sigma_8(0.57)$	$0.617^{+0.010}_{-0.011}$ (-0.2σ)
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	10.3 ± 1.5 (-0.1σ)	$r_{0.002}$	< 0.105 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.8σ)	$10^9 A_{\rm s}$	$2.213^{+0.073}_{-0.086}$ (-0.2σ)	$r_{0.01}$	< 0.104 $(+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.23^{+1.4}_{-2.6}$ (-0.9σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.876 ± 0.012 (-0.7σ)	$\ln(10^{10} A_{\rm t})$	$0.23^{+1.3}_{-0.52}$ $(+0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	1239^{+20}_{-23} (-0.1σ)	r_{10}	< 0.0536 $(+0.6\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.596 (-0.2σ)	D_{220}	5703 ± 39 (-0.5σ)	$10^9 A_{\rm t}$	< 0.234 $(+0.6\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.42^{+4.0}_{-2.0}$ $(+0.7\sigma)$	D_{810}	2532 ± 14 (-0.4σ)	$10^9 A_t e^{-2\tau}$	< 0.198 $(+0.6\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{1420}	814.0 ± 5.0 $(+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246330 ± 0.000074 (-4.9σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{\rm s,0.002}$	0.995 ± 0.026 $(+0.1\sigma)$	f_{2000}^{143}	29.3 ± 3.1 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$Y_{\rm P}$	$0.245001^{+0.000074}_{-0.000082}$ (-4.9σ)	f_{2000}^{217}	106.6 ± 2.1 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	13.788 ± 0.026 (-0.6σ)	$f_{2000}^{143\times217}$	32.0 ± 2.3 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00097 (-1.8σ)	z_*	1089.72 ± 0.30 (-0.8σ)	$\chi^2_{\rm lowTEB}$	10497.4 ± 2.9 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	r_*	144.68 ± 0.32 $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12952.8 ± 6.4
$\boldsymbol{c_{TE}}$	1.0036 ± 0.0045	$100\theta_*$	1.04105 ± 0.00030 $(+0.2\sigma)$	$\chi^2_{\rm prior}$	8.82 ± 3.5 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0007 ± 0.0043	$z_{\rm drag}$	1059.99 ± 0.36 $(+0.6\sigma)$	$\chi^2_{\rm CMB}$	23450.2 ± 6.3 $(+1506.7\sigma)$

$\bar{\chi}^2_{\rm eff} = 23459.03$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.63$; $R - 1 = 0.00583$

18.21 base_nrun_r_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022284	0.02238 ± 0.00027	$\Omega_m h^2$	0.14143	0.1410 ± 0.0020	k_D	0.14028	0.14031 ± 0.00052
$\boldsymbol{\Omega_c h^2}$	0.11850	0.1180 ± 0.0021	$\Omega_m h^3$	0.09596	0.09608 ± 0.00051	$100\theta_D$	0.160943	0.16084 ± 0.00031
$\boldsymbol{100\theta_{MC}}$	1.041034	1.04111 ± 0.00047	σ_8	0.8160	0.8155 ± 0.0096	z_{eq}	3364.4	3354 ± 47
$\boldsymbol{\tau}$	0.0677	0.071 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.4523	0.4494 ± 0.0092	k_{eq}	0.010268	0.01024 ± 0.00014
$\boldsymbol{\ln(10^{10}A_s)}$	3.0661	3.073 ± 0.033	$\sigma_8\Omega_m^{0.25}$	0.6075	0.6053 ± 0.0078	$100\theta_{eq}$	0.8200	0.8223 ± 0.0092
$\boldsymbol{n_s}$	0.9681	0.9690 ± 0.0063	$\sigma_8/h^{0.5}$	0.9906	0.988 ± 0.011	$100\theta_{s,eq}$	0.45293	0.4541 ± 0.0047
$\boldsymbol{dn_s/d\ln k}$	-0.0021	$-0.0076^{+0.0092}_{-0.0080}$	$\langle d^2\rangle^{1/2}$	2.4461	2.434 ± 0.029	$r_{drag}/D_V(0.57)$	0.07183	0.07204 ± 0.00074
$\boldsymbol{r}$	0.0000	< 0.0811	z_{re}	8.99	$9.18^{+1.7}_{-1.6}$	$H(0.57)$	93.084	$93.25^{+0.44}_{-0.50}$
$\boldsymbol{y_{cal}}$	1.00001	1.0002 ± 0.0025	$10^9 A_s$	2.146	$2.161^{+0.067}_{-0.077}$	$D_A(0.57)$	1384.6	1380 ± 13
$\boldsymbol{A_{217}^{CIB}}$	68.0	65.2 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8742	1.874 ± 0.013	$F_{AP}(0.57)$	0.67495	0.6740 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1219.5	1229 ± 24	$f\sigma_8(0.57)$	0.4733	0.4720 ± 0.0054
$\boldsymbol{A_{143}^{tSZ}}$	7.15	4.84 ± 2.0	D_{220}	5713.4	5716 ± 42	$\sigma_8(0.57)$	0.6081	0.6086 ± 0.0088
$\boldsymbol{A_{100}^{PS}}$	255.5	263 ± 28	D_{810}	2532.7	2534 ± 14	$r_{0.002}$	0.0000	< 0.0791
$\boldsymbol{A_{143}^{PS}}$	39.9	45 ± 8	D_{1420}	814.5	814.2 ± 5.2	$r_{0.01}$	0.0000	< 0.0793
$\boldsymbol{A_{143\times217}^{PS}}$	33.0	38^{+10}_{-10}	D_{2000}	229.96	229.7 ± 1.9	$\ln(10^{10}A_t)$	-7.18	$-0.13^{+1.4}_{-0.66}$
$\boldsymbol{A_{217}^{PS}}$	96.8	95 ± 10	$n_{s,0.002}$	0.9749	$0.993^{+0.027}_{-0.031}$	r_{10}	0.0000	< 0.0405
$\boldsymbol{A^{kSZ}}$	0.01	< 5.51	Y_P	0.245355	0.24540 ± 0.00012	$10^9 A_t$	0.000	< 0.175
$\boldsymbol{A_{100}^{dustTT}}$	7.46	7.48 ± 1.9	Y_P^{BBN}	0.246681	0.24672 ± 0.00012	$10^9 A_t e^{-2\tau}$	0.000	< 0.152
$\boldsymbol{A_{143}^{dustTT}}$	9.10	9.10 ± 1.8	10^5D/H	2.608	2.590 ± 0.051	f_{2000}^{143}	30.30	31.2 ± 3.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.83	17.3 ± 4.2	Age/Gyr	13.7964	13.782 ± 0.043	$f_{2000}^{143\times217}$	32.87	33.3 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	z_*	1089.896	1089.73 ± 0.47	f_{2000}^{217}	106.37	106.8 ± 2.1
$\boldsymbol{c_{100}}$	0.99789	0.99788 ± 0.00078	r_*	144.885	144.95 ± 0.46	$\chi^2_{lensing}$	9.40	10.2 ± 1.7
$\boldsymbol{c_{217}}$	0.99609	0.9961 ± 0.0014	$100\theta_*$	1.041228	1.04130 ± 0.00046	χ^2_{lowTEB}	10494.27	10496.0 ± 2.6
H_0	67.85	68.16 ± 0.99	D_A/Gpc	13.9148	13.920 ± 0.043	χ^2_{plik}	766.5	781.4 ± 5.9
Ω_Λ	0.6928	0.696 ± 0.013	z_{drag}	1059.63	1059.82 ± 0.55	χ^2_{prior}	2.14	7.49 ± 3.6
Ω_m	0.3072	0.304 ± 0.013	r_{drag}	147.584	147.62 ± 0.46	χ^2_{CMB}	11270.2	11287.6 ± 6.0

Best-fit $\chi^2_{eff} = 11272.35$; $\bar{\chi}^2_{eff} = 11295.06$; $R - 1 = 0.00636$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.40 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.27 plik_dx11dr2_HM_v18_TT: 766.54

18.22 base_nrun_r_plikHM_TT_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022289	0.02234 ± 0.00023	σ_8	0.8154	0.8148 ± 0.0091	$100\theta_{\rm eq}$	0.8197	0.8203 ± 0.0054
$\boldsymbol{\Omega_c h^2}$	0.11856	0.1184 ± 0.0013	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4521	0.4511 ± 0.0067	$100\theta_{\rm s,eq}$	0.45279	0.4530 ± 0.0028
$\boldsymbol{100\theta_{MC}}$	1.041048	1.04105 ± 0.00041	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6072	0.6062 ± 0.0070	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071815	0.07187 ± 0.00043
$\boldsymbol{\tau}$	0.0666	0.068 ± 0.014	$\sigma_8/h^{0.5}$	0.9900	0.989 ± 0.011	$H(0.57)$	93.086	93.14 ± 0.30
$\boldsymbol{\ln(10^{10}A_s)}$	3.0641	3.067 ± 0.026	$\langle d^2\rangle^{1/2}$	2.4459	2.436 ± 0.028	$D_{\rm A}(0.57)$	1384.7	1383.4 ± 8.0
$\boldsymbol{n_s}$	0.96782	0.9678 ± 0.0046	$z_{\rm re}$	8.89	$8.92^{+1.3}_{-1.2}$	$F_{\rm AP}(0.57)$	0.67501	0.6748 ± 0.0019
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0016	$-0.0069^{+0.0089}_{-0.0078}$	$10^9 A_{\rm s}$	2.141	2.148 ± 0.055	$f\sigma_8(0.57)$	0.4731	0.4724 ± 0.0052
$\boldsymbol{r}$	0.0003	< 0.0768	$10^9 A_{\rm s} e^{-2\tau}$	1.8744	1.876 ± 0.012	$\sigma_8(0.57)$	0.6076	0.6073 ± 0.0074
$\boldsymbol{y_{cal}}$	1.00000	1.0002 ± 0.0025	D_{40}	1221.4	1231 ± 23	$r_{0.002}$	0.0003	< 0.0747
$\boldsymbol{A_{217}^{CIB}}$	67.5	65.3 ± 6.7	D_{220}	5715.8	5714 ± 41	$r_{0.01}$	0.0003	< 0.0750
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{810}	2532.8	2534 ± 14	$\ln(10^{10}A_{\rm t})$	-4.98	$-0.20^{+1.4}_{-0.67}$
$\boldsymbol{A_{143}^{tSZ}}$	7.21	4.81 ± 2.0	D_{1420}	814.6	814.0 ± 5.1	r_{10}	0.0001	< 0.0383
$\boldsymbol{A_{100}^{PS}}$	255.1	263 ± 28	D_{2000}	230.01	229.5 ± 1.9	$10^9 A_{\rm t}$	0.001	< 0.166
$\boldsymbol{A_{143}^{PS}}$	39.9	45 ± 8	$n_{\rm s,0.002}$	0.9730	$0.990^{+0.025}_{-0.029}$	$10^9 A_t e^{-2\tau}$	0.001	< 0.145
$\boldsymbol{A_{143\times217}^{PS}}$	33.1	38^{+10}_{-10}	$Y_{\rm P}$	0.245357	0.24538 ± 0.00010	f_{2000}^{143}	30.31	31.3 ± 3.0
$\boldsymbol{A_{217}^{PS}}$	97.3	95 ± 10	$Y_{\rm P}^{\rm BBN}$	0.246684	0.24670 ± 0.00010	$f_{2000}^{143\times217}$	32.81	33.4 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.01	< 5.63	10^5D/H	2.6065	2.597 ± 0.043	f_{2000}^{217}	106.31	106.9 ± 2.1
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.48 ± 1.9	Age/Gyr	13.7956	13.790 ± 0.032	$\chi^2_{\rm lensing}$	9.31	10.2 ± 1.7
$\boldsymbol{A_{143}^{dustTT}}$	9.10	9.10 ± 1.8	z_*	1089.894	1089.82 ± 0.34	$\chi^2_{\rm lowTEB}$	10494.45	10495.9 ± 2.5
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.86	17.3 ± 4.2	r_*	144.865	144.86 ± 0.32	$\chi^2_{\rm plik}$	766.6	780.8 ± 5.8
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.8 ± 7.4	$100\theta_*$	1.041245	1.04124 ± 0.00041	$\chi^2_{\rm 6DF}$	0.0060	0.043 ± 0.060
$\boldsymbol{c_{100}}$	0.99794	0.99788 ± 0.00077	$D_{\rm A}$/Gpc	13.9127	13.912 ± 0.031	$\chi^2_{\rm MGS}$	1.47	1.62 ± 0.58
$\boldsymbol{c_{217}}$	0.99600	0.9961 ± 0.0014	$z_{\rm drag}$	1059.63	1059.75 ± 0.51	$\chi^2_{\rm DR11CMASS}$	2.403	2.86 ± 0.65
H_0	67.84	67.93 ± 0.59	$r_{\rm drag}$	147.564	147.54 ± 0.35	$\chi^2_{\rm DR11LOWZ}$	0.423	0.50 ± 0.48
Ω_Λ	0.6925	0.6934 ± 0.0076	$k_{\rm D}$	0.140308	0.14037 ± 0.00047	$\chi^2_{\rm prior}$	2.04	7.44 ± 3.6
$\Omega_{\rm m}$	0.3075	0.3066 ± 0.0076	$100\theta_{\rm D}$	0.160937	0.16087 ± 0.00029	$\chi^2_{\rm CMB}$	11270.3	11286.8 ± 5.8
$\Omega_{\rm m}h^2$	0.14150	0.1414 ± 0.0012	$z_{\rm eq}$	3365.9	3364 ± 29	$\chi^2_{\rm BAO}$	4.30	5.03 ± 0.97
$\Omega_{\rm m}h^3$	0.095988	0.09606 ± 0.00050	$k_{\rm eq}$	0.010273	0.010267 ± 0.000088			

Best-fit $\chi^2_{\rm eff} = 11276.66$; $\bar{\chi}^2_{\rm eff} = 11299.30$; $R - 1 = 0.00897$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.40 DR11LOWZ: 0.42 CMB - smica_g30_ftl_full_pp: 9.31 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.45 plik_dx11dr2_HM_v18_TT: 766.56

18.23 base_nrun_r_plikHM_TT_lowTEB_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022329	0.02237 ± 0.00023	$\sigma_8\Omega_m^{0.5}$	0.4515	0.4502 ± 0.0066	$r_{drag}/D_V(0.57)$	0.071912	0.07195 ± 0.00041
$\boldsymbol{\Omega_c h^2}$	0.11828	0.1182 ± 0.0012	$\sigma_8\Omega_m^{0.25}$	0.6072	0.6058 ± 0.0070	$H(0.57)$	93.149	93.20 ± 0.29
$\boldsymbol{100\theta_{MC}}$	1.041065	1.04109 ± 0.00041	$\sigma_8/h^{0.5}$	0.9905	0.988 ± 0.011	$D_A(0.57)$	1382.8	1381.8 ± 7.8
$\boldsymbol{\tau}$	0.0700	0.069 ± 0.013	$\langle d^2\rangle^{1/2}$	2.4459	2.435 ± 0.028	$F_{AP}(0.57)$	0.67455	0.6744 ± 0.0019
$\boldsymbol{\ln(10^{10}A_s)}$	3.0702	3.070 ± 0.025	z_{re}	9.19	$9.07^{+1.3}_{-1.2}$	$f\sigma_8(0.57)$	0.4733	0.4722 ± 0.0053
$\boldsymbol{n_s}$	0.96849	0.9684 ± 0.0045	$10^9 A_s$	2.155	2.154 ± 0.055	$\sigma_8(0.57)$	0.6090	0.6080 ± 0.0073
$\boldsymbol{dn_s/d\ln k}$	−0.0029	$-0.0072^{+0.0090}_{-0.0078}$	$10^9 A_s e^{-2\tau}$	1.8732	1.875 ± 0.012	$r_{0.002}$	0.0000	< 0.0765
$\boldsymbol{r}$	0.0001	< 0.0790	D_{40}	1217.5	1230 ± 23	$r_{0.01}$	0.0001	< 0.0771
$\boldsymbol{y_{cal}}$	0.99993	1.0002 ± 0.0025	D_{220}	5715.5	5716 ± 41	$\ln(10^{10}A_t)$	−6.78	$-0.17^{+1.4}_{-0.66}$
$\boldsymbol{A_{217}^{CIB}}$	67.9	65.3 ± 6.7	D_{810}	2532.2	2534 ± 14	r_{10}	0.0000	< 0.0392
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{1420}	814.4	814.2 ± 5.1	$10^9 A_t$	0.000	< 0.170
$\boldsymbol{A_{143}^{tSZ}}$	7.14	4.82 ± 2.0	D_{2000}	229.97	229.6 ± 1.9	$10^9 A_t e^{-2\tau}$	0.000	< 0.148
$\boldsymbol{A_{100}^{PS}}$	256.0	263 ± 28	$n_{s,0.002}$	0.9778	$0.992^{+0.025}_{-0.029}$	f_{2000}^{143}	30.29	31.2 ± 3.0
$\boldsymbol{A_{143}^{PS}}$	39.9	45 ± 8	Y_P	0.245375	0.24539 ± 0.00010	$f_{2000}^{143\times217}$	32.79	33.4 ± 2.2
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	38^{+10}_{-10}	Y_P^{BBN}	0.246701	0.24672 ± 0.00010	f_{2000}^{217}	106.22	106.8 ± 2.1
$\boldsymbol{A_{217}^{PS}}$	96.5	95 ± 10	10^5D/H	2.5991	2.592 ± 0.043	$\chi^2_{lensing}$	9.47	10.2 ± 1.7
$\boldsymbol{A^{kSZ}}$	0.04	< 5.61	Age/Gyr	13.7900	13.785 ± 0.031	χ^2_{lowTEB}	10494.10	10495.8 ± 2.5
$\boldsymbol{A_{100}^{dustTT}}$	7.46	7.48 ± 1.9	z_*	1089.820	1089.77 ± 0.33	χ^2_{plik}	766.8	780.9 ± 5.8
$\boldsymbol{A_{143}^{dustTT}}$	9.19	9.10 ± 1.8	r_*	144.910	144.90 ± 0.31	χ^2_{H070p6}	0.625	0.62 ± 0.26
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.90	17.3 ± 4.2	$100\theta_*$	1.041254	1.04127 ± 0.00040	χ^2_{JLA}	706.607	706.64 ± 0.15
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	D_A/Gpc	13.9169	13.916 ± 0.031	χ^2_{6DF}	0.00098	0.038 ± 0.054
$\boldsymbol{c_{100}}$	0.99794	0.99789 ± 0.00077	z_{drag}	1059.70	1059.80 ± 0.51	χ^2_{MGS}	1.61	1.73 ± 0.58
$\boldsymbol{c_{217}}$	0.99605	0.9961 ± 0.0014	r_{drag}	147.596	147.57 ± 0.35	$\chi^2_{DR11CMASS}$	2.437	2.88 ± 0.67
H_0	67.98	68.05 ± 0.57	k_D	0.140305	0.14035 ± 0.00047	$\chi^2_{DR11LOWZ}$	0.321	0.41 ± 0.42
Ω_Λ	0.6943	0.6949 ± 0.0073	$100\theta_D$	0.160892	0.16085 ± 0.00029	χ^2_{prior}	2.03	7.45 ± 3.6
Ω_m	0.3057	0.3051 ± 0.0073	z_{eq}	3360.0	3359 ± 28	χ^2_{CMB}	11270.3	11286.8 ± 5.8
$\Omega_m h^2$	0.14125	0.1412 ± 0.0012	k_{eq}	0.010255	0.010252 ± 0.000085	χ^2_{BAO}	4.37	5.06 ± 1.0
$\Omega_m h^3$	0.09602	0.09608 ± 0.00050	$100\theta_{eq}$	0.8209	0.8213 ± 0.0052			
σ_8	0.8167	0.8152 ± 0.0091	$100\theta_{s,eq}$	0.45339	0.4535 ± 0.0027			

Best-fit $\chi^2_{eff} = 11983.97$; $\bar{\chi}^2_{eff} = 12006.58$; $R - 1 = 0.00779$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.47 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.10 plik_dx11dr2_HM_v18_TT: 766.78 Hubble - H070p6: 0.62 SN - JLA December_2013: 706.61

18.24 base_nrun_r_plikHM_TT_lowTEB_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02240 ± 0.00026	$\Omega_m h^2$	0.1408 ± 0.0019	k_D	0.14029 ± 0.00051
$\boldsymbol{\Omega_c h^2}$	0.1178 ± 0.0020	$\Omega_m h^3$	0.09609 ± 0.00051	$100\theta_D$	0.16083 ± 0.00031
$\boldsymbol{100\theta_{MC}}$	1.04114 ± 0.00046	σ_8	$0.8164^{+0.0084}_{-0.010}$	z_{eq}	3350 ± 44
$\boldsymbol{\tau}$	$0.073^{+0.014}_{-0.020}$	$\sigma_8\Omega_m^{0.5}$	0.4490 ± 0.0091	k_{eq}	0.01022 ± 0.00014
$\boldsymbol{\ln(10^{10} A_s)}$	$3.077^{+0.026}_{-0.036}$	$\sigma_8\Omega_m^{0.25}$	0.6054 ± 0.0078	$100\theta_{eq}$	$0.8232^{+0.0083}_{-0.0095}$
$\boldsymbol{n_s}$	0.9695 ± 0.0060	$\sigma_8/h^{0.5}$	0.988 ± 0.011	$100\theta_{s,eq}$	$0.4545^{+0.0043}_{-0.0048}$
$\boldsymbol{dn_s/d\ln k}$	$-0.0078^{+0.0093}_{-0.0080}$	$\langle d^2\rangle^{1/2}$	2.435 ± 0.028	$r_{drag}/D_V(0.57)$	$0.07211^{+0.00066}_{-0.00078}$
$\boldsymbol{r}$	< 0.0818	z_{re}	$9.39^{+1.4}_{-1.6}$	$H(0.57)$	$93.29^{+0.41}_{-0.49}$
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025	$10^9 A_s$	$2.169^{+0.053}_{-0.080}$	$D_A(0.57)$	1379^{+14}_{-12}
$\boldsymbol{A_{217}^{CIB}}$	65.2 ± 6.7	$10^9 A_s e^{-2\tau}$	1.873 ± 0.013	$F_{AP}(0.57)$	0.6737 ± 0.0031
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1229 ± 23	$f\sigma_8(0.57)$	0.4722 ± 0.0054
$\boldsymbol{A_{143}^{tSZ}}$	4.86 ± 2.0	D_{220}	5716 ± 42	$\sigma_8(0.57)$	$0.6096^{+0.0071}_{-0.0095}$
$\boldsymbol{A_{100}^{PS}}$	262 ± 28	D_{810}	2534 ± 14	$r_{0.002}$	< 0.0801
$\boldsymbol{A_{143}^{PS}}$	45 ± 8	D_{1420}	814.2 ± 5.2	$r_{0.01}$	< 0.0800
$\boldsymbol{A_{143\times217}^{PS}}$	38^{+10}_{-10}	D_{2000}	229.7 ± 1.9	$\ln(10^{10} A_t)$	$-0.12^{+1.4}_{-0.66}$
$\boldsymbol{A_{217}^{PS}}$	95 ± 10	$n_{s,0.002}$	$0.995^{+0.026}_{-0.031}$	r_{10}	< 0.0410
$\boldsymbol{A^{kSZ}}$	< 5.54	Y_P	0.24540 ± 0.00012	$10^9 A_t$	< 0.177
$\boldsymbol{A_{100}^{dustTT}}$	7.49 ± 1.9	Y_P^{BBN}	0.24673 ± 0.00012	$10^9 A_t e^{-2\tau}$	< 0.153
$\boldsymbol{A_{143}^{dustTT}}$	9.10 ± 1.8	10^5D/H	2.586 ± 0.049	f_{2000}^{143}	31.1 ± 3.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.3 ± 4.2	Age/Gyr	$13.778^{+0.044}_{-0.040}$	$f_{2000}^{143\times217}$	33.3 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.4	z_*	1089.69 ± 0.45	f_{2000}^{217}	106.7 ± 2.1
$\boldsymbol{c_{100}}$	0.99789 ± 0.00077	r_*	144.99 ± 0.44	$\chi^2_{lensing}$	10.2 ± 1.7
$\boldsymbol{c_{217}}$	0.9961 ± 0.0014	$100\theta_*$	1.04132 ± 0.00045	χ^2_{lowTEB}	10495.9 ± 2.5
H_0	$68.25^{+0.89}_{-1.0}$	D_A/Gpc	13.924 ± 0.041	χ^2_{plik}	781.4 ± 5.9
Ω_Λ	0.697 ± 0.012	z_{drag}	1059.84 ± 0.55	χ^2_{prior}	7.47 ± 3.6
Ω_m	0.303 ± 0.012	r_{drag}	147.66 ± 0.44	χ^2_{CMB}	11287.4 ± 5.9

$\bar{\chi}^2_{eff} = 11294.89$; $R - 1 = 0.00700$

18.25 base_nrun_r_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022279	0.02230 ± 0.00016	$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.154	0.156 ± 0.054	$100\theta_*$	1.041066	1.04105 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.11921	0.1191 ± 0.0014	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.335	0.337 ± 0.081	D_A/Gpc	13.8998	13.902 ± 0.028
$\boldsymbol{100\theta_{MC}}$	1.040868	1.04086 ± 0.00032	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.660	1.66 ± 0.25	z_{drag}	1059.666	1059.70 ± 0.33
$\boldsymbol{\tau}$	0.0643	0.064 ± 0.014	$\boldsymbol{c_{100}}$	0.99817	0.99811 ± 0.00077	r_{drag}	147.403	147.42 ± 0.30
$\boldsymbol{\ln(10^{10}A_s)}$	3.0614	3.062 ± 0.025	$\boldsymbol{c_{217}}$	0.99607	0.9961 ± 0.0014	k_D	0.140469	0.14046 ± 0.00033
$\boldsymbol{n_s}$	0.96594	0.9658 ± 0.0048	H_0	67.54	67.61 ± 0.63	$100\theta_D$	0.160902	0.16088 ± 0.00019
$\boldsymbol{\mathrm{d}n_s/\mathrm{d}\ln k}$	-0.0007	-0.0049 ± 0.0073	Ω_Λ	0.6884	0.6892 ± 0.0085	z_{eq}	3381.1	3378 ± 31
$\boldsymbol{r}$	0.0000	< 0.0711	Ω_m	0.3116	0.3108 ± 0.0085	k_{eq}	0.010319	0.010310 ± 0.000095
$\boldsymbol{y_{cal}}$	1.00005	1.0002 ± 0.0025	$\Omega_m h^2$	0.14213	0.1420 ± 0.0013	$100\theta_{\mathrm{eq}}$	0.8168	0.8174 ± 0.0059
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	67.8	65.3 ± 6.6	$\Omega_m h^3$	0.095996	0.09600 ± 0.00031	$100\theta_{\mathrm{s,eq}}$	0.45128	0.4516 ± 0.0030
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	0.01	—	σ_8	0.8160	0.8147 ± 0.0087	$r_{\mathrm{drag}}/D_V(0.57)$	0.071572	0.07162 ± 0.00047
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	7.28	5.08 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4555	0.4541 ± 0.0069	$H(0.57)$	92.968	$93.00^{+0.27}_{-0.30}$
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	257.2	265 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6096	0.6082 ± 0.0068	$D_A(0.57)$	1388.6	1387.7 ± 8.4
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	38.9	45 ± 8	$\sigma_8/h^{0.5}$	0.9929	0.991 ± 0.010	$F_{\mathrm{AP}}(0.57)$	0.67605	0.6758 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	33.0	39^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4554	2.445 ± 0.026	$f\sigma_8(0.57)$	0.47445	0.4734 ± 0.0050
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	96.7	96 ± 10	z_{re}	8.68	8.63 ± 1.3	$\sigma_8(0.57)$	0.6070	0.6063 ± 0.0072
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 5.00	10^9A_s	2.136	2.137 ± 0.054	$r_{0.002}$	0.0000	< 0.0675
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.47	7.50 ± 1.9	$10^9A_se^{-2\tau}$	1.8780	1.879 ± 0.012	$r_{0.01}$	0.0000	< 0.0688
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	8.97	9.08 ± 1.8	D_{40}	1228.3	1238^{+21}_{-23}	$\ln(10^{10}A_t)$	-7.02	$-0.25^{+1.4}_{-0.61}$
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.55	17.3 ± 4.2	D_{220}	5722.6	5719 ± 39	r_{10}	0.0000	< 0.0347
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	81.8	81.6 ± 7.4	D_{810}	2534.2	2535 ± 14	10^9A_t	0.000	< 0.152
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0815	0.0811 ± 0.0057	D_{1420}	814.83	814.0 ± 5.0	$10^9A_te^{-2\tau}$	0.000	< 0.134
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0492	0.0488 ± 0.0050	D_{2000}	230.10	229.6 ± 1.8	f^{143}_{2000}	29.83	30.9 ± 3.0
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0992	0.0998 ± 0.032	$n_{\mathrm{s},0.002}$	0.9681	0.982 ± 0.023	$f^{143\times217}_{2000}$	32.58	33.3 ± 2.1
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1007	0.1000 ± 0.0069	Y_P	0.245353	0.245359 ± 0.000074	f^{217}_{2000}	106.10	106.7 ± 2.0
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2234	0.223 ± 0.047	Y_P^{BBN}	0.246679	0.246685 ± 0.000075	$\chi^2_{\mathrm{lensing}}$	9.98	10.6 ± 2.0
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.651	0.65 ± 0.13	10^5D/H	2.6086	2.605 ± 0.031	χ^2_{lowTEB}	10495.08	10496.5 ± 2.5
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1432	0.142 ± 0.038	Age/Gyr	13.8048	13.803 ± 0.026	χ^2_{plik}	2434.9	2455.1 ± 7.0
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1321	0.132 ± 0.029	z_*	1089.966	1089.93 ± 0.29	χ^2_{prior}	7.18	19.4 ± 5.5
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.303	0.304 ± 0.085	r_*	144.706	144.73 ± 0.31	χ^2_{CMB}	12940.0	12962.2 ± 6.9

Best-fit $\chi^2_{\mathrm{eff}} = 12947.17$; $\bar{\chi}^2_{\mathrm{eff}} = 12981.61$; $R - 1 = 0.01649$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.98 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.08 plik_dx11dr2_HM_v18_TTTEEE: 2434.94

18.26 base_nrun_r_plikHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022291	0.02231 ± 0.00015	$\boldsymbol{A_{217}^{dustTE}}$	1.669	1.66 ± 0.25	k_D	0.140459	0.14043 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.11909	0.1188 ± 0.0010	$\boldsymbol{c_{100}}$	0.99816	0.99811 ± 0.00077	$100\theta_D$	0.160893	0.16087 ± 0.00019
$\boldsymbol{100\theta_{MC}}$	1.040893	1.04089 ± 0.00030	$\boldsymbol{c_{217}}$	0.99608	0.9961 ± 0.0014	z_{eq}	3378.5	3373 ± 23
$\boldsymbol{\tau}$	0.0650	0.066 ± 0.012	H_0	67.599	67.70 ± 0.47	k_{eq}	0.010312	0.010295 ± 0.000072
$\boldsymbol{\ln(10^{10} A_s)}$	3.0625	3.064 ± 0.023	Ω_Λ	0.6892	0.6906 ± 0.0063	$100\theta_{eq}$	0.81730	0.8183 ± 0.0045
$\boldsymbol{n_s}$	0.96606	0.9664 ± 0.0042	Ω_m	0.3108	0.3094 ± 0.0063	$100\theta_{s,eq}$	0.45153	0.4521 ± 0.0023
$\boldsymbol{dn_s/d\ln k}$	-0.0011	-0.0050 ± 0.0073	$\Omega_m h^2$	0.14203	0.14180 ± 0.00098	$r_{drag}/D_V(0.57)$	0.071614	0.07169 ± 0.00035
$\boldsymbol{r}$	0.0000	< 0.0717	$\Omega_m h^3$	0.096008	0.09600 ± 0.00031	$H(0.57)$	92.994	93.03 ± 0.22
$\boldsymbol{y_{cal}}$	1.00003	1.0002 ± 0.0025	σ_8	0.8159	0.8150 ± 0.0085	$D_A(0.57)$	1387.8	1386.5 ± 6.4
$\boldsymbol{A_{217}^{CIB}}$	67.8	65.2 ± 6.6	$\sigma_8\Omega_m^{0.5}$	0.4549	0.4533 ± 0.0060	$F_{AP}(0.57)$	0.67585	0.6755 ± 0.0016
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$\sigma_8\Omega_m^{0.25}$	0.6092	0.6078 ± 0.0065	$f\sigma_8(0.57)$	0.47423	0.4733 ± 0.0049
$\boldsymbol{A_{143}^{tSZ}}$	7.33	5.11 ± 2.0	$\sigma_8/h^{0.5}$	0.9924	0.990 ± 0.010	$\sigma_8(0.57)$	0.6072	0.6068 ± 0.0068
$\boldsymbol{A_{100}^{PS}}$	257.5	265 ± 28	$\langle d^2\rangle^{1/2}$	2.4542	2.444 ± 0.026	$r_{0.002}$	0.0000	< 0.0683
$\boldsymbol{A_{143}^{PS}}$	38.8	45 ± 8	z_{re}	8.74	8.76 ± 1.2	$r_{0.01}$	0.0000	< 0.0694
$\boldsymbol{A_{143\times217}^{PS}}$	32.7	39^{+10}_{-10}	$10^9 A_s$	2.1380	2.142 ± 0.049	$\ln(10^{10}A_t)$	-6.89	$-0.25^{+1.4}_{-0.61}$
$\boldsymbol{A_{217}^{PS}}$	96.6	96 ± 10	$10^9 A_s e^{-2\tau}$	1.8775	1.878 ± 0.011	r_{10}	0.0000	< 0.0350
$\boldsymbol{A^{kSZ}}$	0.00	< 4.97	D_{40}	1227.1	1237^{+20}_{-23}	$10^9 A_t$	0.000	< 0.154
$\boldsymbol{A_{100}^{dustTT}}$	7.48	7.48 ± 1.9	D_{220}	5723.5	5720 ± 39	$10^9 A_t e^{-2\tau}$	0.000	< 0.135
$\boldsymbol{A_{143}^{dustTT}}$	9.14	9.08 ± 1.8	D_{810}	2534.1	2535 ± 14	f_{2000}^{143}	29.89	30.8 ± 3.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.77	17.3 ± 4.2	D_{1420}	814.71	814.1 ± 5.0	$f_{2000}^{143\times217}$	32.61	33.2 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.6 ± 7.4	D_{2000}	230.05	229.6 ± 1.8	f_{2000}^{217}	106.14	106.6 ± 2.0
$\boldsymbol{A_{100}^{dustEE}}$	0.0816	0.0812 ± 0.0057	$n_{s,0.002}$	0.9697	0.982 ± 0.023	$\chi^2_{lensing}$	9.93	10.5 ± 1.9
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0491	0.0488 ± 0.0050	Y_P	0.245358	0.245365 ± 0.000067	χ^2_{lowTEB}	10494.93	10496.4 ± 2.5
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1001	0.0999 ± 0.033	Y_P^{BBN}	0.246684	0.246692 ± 0.000068	χ^2_{plik}	2435.1	2455.0 ± 6.9
$\boldsymbol{A_{143}^{dustEE}}$	0.1005	0.1000 ± 0.0069	10^5D/H	2.6063	2.603 ± 0.028	χ^2_{6DF}	0.0289	0.045 ± 0.058
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2245	0.223 ± 0.047	Age/Gyr	13.8025	13.800 ± 0.022	χ^2_{MGS}	1.217	1.38 ± 0.46
$\boldsymbol{A_{217}^{dustEE}}$	0.652	0.65 ± 0.13	z_*	1089.940	1089.89 ± 0.24	$\chi^2_{DR11CMASS}$	2.490	2.74 ± 0.47
$\boldsymbol{A_{100}^{dustTE}}$	0.1408	0.142 ± 0.038	r_*	144.727	144.78 ± 0.24	$\chi^2_{DR11LOWZ}$	0.675	0.66 ± 0.48
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1307	0.132 ± 0.029	$100\theta_*$	1.041087	1.04108 ± 0.00029	χ^2_{prior}	7.21	19.5 ± 5.6
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.303	0.303 ± 0.085	D_A/Gpc	13.9016	13.906 ± 0.023	χ^2_{CMB}	12940.0	12961.8 ± 6.9
$\boldsymbol{A_{143}^{dustTE}}$	0.153	0.156 ± 0.054	z_{drag}	1059.704	1059.71 ± 0.32	χ^2_{BAO}	4.411	4.83 ± 0.68
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.338	0.337 ± 0.082	r_{drag}	147.419	147.46 ± 0.25			

Best-fit $\chi^2_{\rm eff} = 12951.58$; $\bar{\chi}^2_{\rm eff} = 12986.14$; $R - 1 = 0.02288$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.03 MGS: 1.22 DR11CMASS: 2.49 DR11LOWZ: 0.68 CMB - smica_g30_ftl_full_pp: 9.93 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.93 plik_dx11dr2_HM_v18_TTT
2435.11

18.27 base_nrun_r_plikHM_TTTEEE_lowTEB_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022312	0.02233 ± 0.00015	$\boldsymbol{c_{100}}$	0.99820	0.99811 ± 0.00077	$z_{\rm eq}$	3372.1	3369 ± 23
$\boldsymbol{\Omega_c h^2}$	0.11880	0.1187 ± 0.0010	$\boldsymbol{c_{217}}$	0.99604	0.9961 ± 0.0014	$k_{\rm eq}$	0.010292	0.010283 ± 0.000070
$\boldsymbol{100\theta_{MC}}$	1.040903	1.04091 ± 0.00030	H_0	67.724	67.79 ± 0.46	$100\theta_{\rm eq}$	0.81854	0.8192 ± 0.0044
$\boldsymbol{\tau}$	0.0664	0.067 ± 0.012	Ω_Λ	0.6909	0.6918 ± 0.0061	$100\theta_{\rm s,eq}$	0.45216	0.4525 ± 0.0022
$\boldsymbol{\ln(10^{10} A_s)}$	3.0651	3.066 ± 0.023	$\Omega_{\rm m}$	0.3091	0.3082 ± 0.0061	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071710	0.07176 ± 0.00034
$\boldsymbol{n_s}$	0.96659	0.9669 ± 0.0041	$\Omega_{\rm m} h^2$	0.14175	0.14163 ± 0.00096	$H(0.57)$	93.043	93.07 ± 0.22
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0017	-0.0051 ± 0.0073	$\Omega_{\rm m} h^3$	0.096002	0.09601 ± 0.00031	$D_{\rm A}(0.57)$	1386.1	1385.2 ± 6.2
$\boldsymbol{r}$	0.0000	< 0.0723	σ_8	0.8160	0.8153 ± 0.0085	$F_{\rm AP}(0.57)$	0.67541	0.6752 ± 0.0016
$\boldsymbol{y_{cal}}$	1.00007	1.0002 ± 0.0025	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4536	0.4526 ± 0.0059	$f\sigma_8(0.57)$	0.47381	0.4732 ± 0.0049
$\boldsymbol{A_{217}^{CIB}}$	67.8	65.2 ± 6.6	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6084	0.6075 ± 0.0065	$\sigma_8(0.57)$	0.6076	0.6073 ± 0.0068
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$\sigma_8/h^{0.5}$	0.9915	0.990 ± 0.010	$r_{0.002}$	0.0000	< 0.0691
$\boldsymbol{A_{143}^{tSZ}}$	7.29	5.12 ± 2.0	$\langle d^2 \rangle^{1/2}$	2.4519	2.444 ± 0.026	$r_{0.01}$	0.0000	< 0.0700
$\boldsymbol{A_{100}^{PS}}$	257.3	265 ± 28	$z_{\rm re}$	8.87	8.87 ± 1.1	$\ln(10^{10} A_{\rm t})$	-7.13	$-0.24^{+1.4}_{-0.61}$
$\boldsymbol{A_{143}^{PS}}$	38.8	45 ± 8	$10^9 A_{\rm s}$	2.144	2.147 ± 0.049	r_{10}	0.0000	< 0.0354
$\boldsymbol{A_{143\times217}^{PS}}$	32.8	39^{+10}_{-10}	$10^9 A_{\rm s} e^{-2\tau}$	1.8770	1.877 ± 0.011	$10^9 A_{\rm t}$	0.000	< 0.155
$\boldsymbol{A_{217}^{PS}}$	96.6	96 ± 10	D_{40}	1225.1	1236^{+20}_{-23}	$10^9 A_t e^{-2\tau}$	0.000	< 0.136
$\boldsymbol{A^{kSZ}}$	0.00	< 4.92	D_{220}	5726.0	5721 ± 39	f_{2000}^{143}	29.81	30.8 ± 3.0
$\boldsymbol{A_{100}^{dust TT}}$	7.55	7.47 ± 1.9	D_{810}	2534.4	2535 ± 14	$f_{2000}^{143\times217}$	32.56	33.1 ± 2.1
$\boldsymbol{A_{143}^{dust TT}}$	9.06	9.09 ± 1.8	D_{1420}	814.82	814.2 ± 5.0	f_{2000}^{217}	106.10	106.6 ± 2.0
$\boldsymbol{A_{143\times217}^{dust TT}}$	17.56	17.3 ± 4.2	D_{2000}	230.07	229.7 ± 1.8	$\chi^2_{\rm lensing}$	9.87	10.4 ± 1.9
$\boldsymbol{A_{217}^{dust TT}}$	81.6	81.6 ± 7.4	$n_{\rm s,0.002}$	0.9722	0.983 ± 0.023	$\chi^2_{\rm lowTEB}$	10494.70	10496.3 ± 2.5
$\boldsymbol{A_{100}^{dust EE}}$	0.0817	0.0812 ± 0.0057	$Y_{\rm P}$	0.245367	0.245373 ± 0.000067	$\chi^2_{\rm plik}$	2435.6	2455.1 ± 6.9
$\boldsymbol{A_{100\times143}^{dust EE}}$	0.0494	0.0489 ± 0.0050	$Y_{\rm P}^{\rm BBN}$	0.246694	0.246700 ± 0.000067	$\chi^2_{\rm H070p6}$	0.749	0.73 ± 0.23
$\boldsymbol{A_{100\times217}^{dust EE}}$	0.0995	0.100 ± 0.033	10^5D/H	2.6023	2.599 ± 0.028	$\chi^2_{\rm JLA}$	706.683	706.69 ± 0.15
$\boldsymbol{A_{143}^{dust EE}}$	0.1008	0.1001 ± 0.0068	Age/Gyr	13.7987	13.796 ± 0.022	$\chi^2_{\rm 6DF}$	0.0155	0.036 ± 0.049
$\boldsymbol{A_{143\times217}^{dust EE}}$	0.2234	0.223 ± 0.047	z_*	1089.887	1089.86 ± 0.24	$\chi^2_{\rm MGS}$	1.343	1.46 ± 0.46
$\boldsymbol{A_{217}^{dust EE}}$	0.650	0.65 ± 0.13	r_*	144.787	144.81 ± 0.24	$\chi^2_{\rm DR11CMASS}$	2.426	2.70 ± 0.41
$\boldsymbol{A_{100}^{dust TE}}$	0.1405	0.142 ± 0.038	$100\theta_*$	1.041098	1.04110 ± 0.00029	$\chi^2_{\rm DR11LOWZ}$	0.545	0.57 ± 0.43
$\boldsymbol{A_{100\times143}^{dust TE}}$	0.1323	0.132 ± 0.029	$D_{\rm A}$/Gpc	13.9072	13.909 ± 0.023	$\chi^2_{\rm prior}$	7.14	19.5 ± 5.6
$\boldsymbol{A_{100\times217}^{dust TE}}$	0.304	0.303 ± 0.085	$z_{\rm drag}$	1059.704	1059.74 ± 0.32	$\chi^2_{\rm CMB}$	12940.1	12961.9 ± 6.9
$\boldsymbol{A_{143}^{dust TE}}$	0.156	0.156 ± 0.054	$r_{\rm drag}$	147.476	147.50 ± 0.25	$\chi^2_{\rm BAO}$	4.330	4.78 ± 0.61
$\boldsymbol{A_{143\times217}^{dust TE}}$	0.336	0.337 ± 0.082	$k_{\rm D}$	0.140417	0.14041 ± 0.00031			
$\boldsymbol{A_{217}^{dust TE}}$	1.655	1.66 ± 0.25	$100\theta_{\rm D}$	0.160876	0.16086 ± 0.00019			

Best-fit $\chi^2_{\rm eff} = 13659.04$; $\bar{\chi}^2_{\rm eff} = 13693.57$; $R - 1 = 0.02159$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.02 MGS: 1.34 DR11CMASS: 2.43 DR11LOWZ: 0.55 CMB - smica_g30_ftl_full_pp: 9.87 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.70 plik_dx11dr2_HM_v18_TTT
2435.56 Hubble - H070p6: 0.75 SN - JLA December_2013: 706.68

18.28 base_nrun_r_plikHM_TTTEEE_lowTEB_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02230 ± 0.00016	$\boldsymbol{A_{143}^{dustTE}}$	0.157 ± 0.054	$100\theta_*$	1.04106 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.1190 ± 0.0013	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.337 ± 0.082	D_A/Gpc	13.904 ± 0.028
$\boldsymbol{100\theta_{MC}}$	1.04087 ± 0.00031	$\boldsymbol{A_{217}^{dustTE}}$	1.66 ± 0.25	z_{drag}	1059.71 ± 0.33
$\boldsymbol{\tau}$	$0.066^{+0.011}_{-0.015}$	$\boldsymbol{c_{100}}$	0.99811 ± 0.00077	r_{drag}	147.44 ± 0.29
$\boldsymbol{\ln(10^{10}A_s)}$	$3.065^{+0.021}_{-0.027}$	$\boldsymbol{c_{217}}$	0.9961 ± 0.0014	k_D	0.14045 ± 0.00033
$\boldsymbol{n_s}$	0.9662 ± 0.0046	H_0	67.65 ± 0.61	$100\theta_D$	0.16088 ± 0.00019
$\boldsymbol{dn_s/d\ln k}$	-0.0050 ± 0.0073	Ω_Λ	0.6898 ± 0.0081	z_{eq}	3376 ± 30
$\boldsymbol{r}$	< 0.0718	Ω_m	0.3102 ± 0.0081	k_{eq}	0.010303 ± 0.000091
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025	$\Omega_m h^2$	0.1419 ± 0.0012	$100\theta_{eq}$	0.8179 ± 0.0057
$\boldsymbol{A_{217}^{CIB}}$	65.3 ± 6.6	$\Omega_m h^3$	0.09600 ± 0.00031	$100\theta_{s,eq}$	0.4518 ± 0.0029
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	σ_8	$0.8155^{+0.0076}_{-0.0089}$	$r_{drag}/D_V(0.57)$	0.07166 ± 0.00045
$\boldsymbol{A_{143}^{tSZ}}$	5.10 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4541 ± 0.0069	$H(0.57)$	$93.02^{+0.26}_{-0.29}$
$\boldsymbol{A_{100}^{PS}}$	265 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6085 ± 0.0066	$D_A(0.57)$	1387.1 ± 8.1
$\boldsymbol{A_{143}^{PS}}$	45 ± 8	$\sigma_8/h^{0.5}$	0.991 ± 0.010	$F_{AP}(0.57)$	0.6757 ± 0.0021
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.446 ± 0.026	$f\sigma_8(0.57)$	0.4737 ± 0.0048
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	z_{re}	$8.78^{+1.1}_{-1.3}$	$\sigma_8(0.57)$	$0.6070^{+0.0061}_{-0.0075}$
$\boldsymbol{A^{kSZ}}$	< 4.94	10^9A_s	$2.143^{+0.043}_{-0.058}$	$r_{0.002}$	< 0.0685
$\boldsymbol{A_{100}^{dustTT}}$	7.48 ± 1.9	$10^9A_se^{-2\tau}$	1.878 ± 0.012	$r_{0.01}$	< 0.0696
$\boldsymbol{A_{143}^{dustTT}}$	9.08 ± 1.8	D_{40}	1237^{+20}_{-23}	$\ln(10^{10}A_t)$	$-0.25^{+1.4}_{-0.61}$
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.3 ± 4.2	D_{220}	5719 ± 39	r_{10}	< 0.0351
$\boldsymbol{A_{217}^{dustTT}}$	81.5 ± 7.4	D_{810}	2535 ± 14	10^9A_t	< 0.154
$\boldsymbol{A_{100}^{dustEE}}$	0.0811 ± 0.0057	D_{1420}	814.0 ± 5.0	$10^9A_te^{-2\tau}$	< 0.135
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0488 ± 0.0051	D_{2000}	229.6 ± 1.8	f_{2000}^{143}	30.9 ± 3.0
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0998 ± 0.033	$n_{s,0.002}$	0.982 ± 0.023	$f_{2000}^{143\times217}$	33.2 ± 2.1
$\boldsymbol{A_{143}^{dustEE}}$	0.1000 ± 0.0069	Y_P	0.245362 ± 0.000073	f_{2000}^{217}	106.6 ± 2.0
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.223 ± 0.047	Y_P^{BBN}	0.246689 ± 0.000073	$\chi^2_{lensing}$	10.6 ± 2.0
$\boldsymbol{A_{217}^{dustEE}}$	0.65 ± 0.13	10^5D/H	2.604 ± 0.031	χ^2_{lowTEB}	10496.4 ± 2.5
$\boldsymbol{A_{100}^{dustTE}}$	0.142 ± 0.038	Age/Gyr	13.801 ± 0.025	χ^2_{plik}	2455.1 ± 7.0
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.132 ± 0.029	z_*	1089.91 ± 0.29	χ^2_{prior}	19.4 ± 5.6
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.303 ± 0.085	r_*	144.75 ± 0.30	χ^2_{CMB}	12962.1 ± 6.9

$\bar{\chi}^2_{eff} = 12981.52$; $R - 1 = 0.01928$

18.29 base_nrun_r_plikHM_TT_WMAPTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022284	0.02235 ± 0.00025	$\Omega_m h^2$	0.14297	0.1429 ± 0.0020	k_D	0.14071	0.14079 ± 0.00055
$\boldsymbol{\Omega_c h^2}$	0.12004	0.1199 ± 0.0021	$\Omega_m h^3$	0.09613	0.09625 ± 0.00051	$100\theta_D$	0.160862	0.16079 ± 0.00030
$\boldsymbol{100\theta_{MC}}$	1.040838	1.04089 ± 0.00048	σ_8	0.8287	0.828 ± 0.011	z_{eq}	3401.2	3398 ± 48
$\boldsymbol{\tau}$	0.0767	$0.078^{+0.012}_{-0.014}$	$\sigma_8\Omega_m^{0.5}$	0.4660	0.465 ± 0.013	k_{eq}	0.010381	0.01037 ± 0.00015
$\boldsymbol{\ln(10^{10}A_s)}$	3.0896	$3.092^{+0.025}_{-0.029}$	$\sigma_8\Omega_m^{0.25}$	0.6214	0.620 ± 0.012	$100\theta_{eq}$	0.8132	0.8140 ± 0.0089
$\boldsymbol{n_s}$	0.9641	0.9646 ± 0.0059	$\sigma_8/h^{0.5}$	1.0106	1.009 ± 0.018	$100\theta_{s,eq}$	0.44938	0.4498 ± 0.0046
$\boldsymbol{dn_s/d\ln k}$	-0.0060	-0.0104 ± 0.0084	$\langle d^2\rangle^{1/2}$	2.4903	2.480 ± 0.041	$r_{drag}/D_V(0.57)$	0.07131	0.07140 ± 0.00071
$\boldsymbol{r}$	0.0000	< 0.0628	z_{re}	9.86	9.91 ± 1.2	$H(0.57)$	92.879	92.97 ± 0.41
$\boldsymbol{y_{cal}}$	1.00032	1.0004 ± 0.0025	$10^9 A_s$	2.197	$2.203^{+0.054}_{-0.065}$	$D_A(0.57)$	1392.3	1390 ± 13
$\boldsymbol{A_{217}^{CIB}}$	68.0	65.3 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8843	1.885 ± 0.014	$F_{AP}(0.57)$	0.67723	0.6769 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1223.9	1231 ± 22	$f\sigma_8(0.57)$	0.4830	0.4822 ± 0.0084
$\boldsymbol{A_{143}^{tSZ}}$	6.96	4.81 ± 2.0	D_{220}	5717.7	5715 ± 41	$\sigma_8(0.57)$	0.6153	$0.6153^{+0.0074}_{-0.0085}$
$\boldsymbol{A_{100}^{PS}}$	257.2	263 ± 28	D_{810}	2536.8	2538 ± 14	$r_{0.002}$	0.0000	< 0.0608
$\boldsymbol{A_{143}^{PS}}$	41.1	46 ± 8	D_{1420}	813.8	813.4 ± 5.2	$r_{0.01}$	0.0000	< 0.0610
$\boldsymbol{A_{143\times217}^{PS}}$	33.5	39^{+9}_{-10}	D_{2000}	229.75	229.5 ± 1.9	$\ln(10^{10}A_t)$	-7.64	$-0.35^{+1.4}_{-0.65}$
$\boldsymbol{A_{217}^{PS}}$	97.2	96 ± 10	$n_{s,0.002}$	0.9833	0.998 ± 0.027	r_{10}	0.0000	< 0.0312
$\boldsymbol{A^{kSZ}}$	0.13	< 5.48	Y_P	0.245355	0.24538 ± 0.00011	$10^9 A_t$	0.000	< 0.138
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.49 ± 1.9	Y_P^{BBN}	0.246681	0.24671 ± 0.00011	$10^9 A_t e^{-2\tau}$	0.000	< 0.118
$\boldsymbol{A_{143}^{dustTT}}$	9.06	9.06 ± 1.8	10^5D/H	2.6075	2.595 ± 0.047	f_{2000}^{143}	30.78	31.5 ± 3.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.79	17.2 ± 4.2	Age/Gyr	13.8089	13.799 ± 0.039	$f_{2000}^{143\times217}$	33.18	33.5 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	z_*	1090.032	1089.93 ± 0.43	f_{2000}^{217}	106.70	107.0 ± 2.1
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00078	r_*	144.486	144.48 ± 0.48	$\chi^2_{WMAPTEB}$	19732.72	19735.0 ± 3.0
$\boldsymbol{c_{217}}$	0.99605	0.9961 ± 0.0015	$100\theta_*$	1.041025	1.04108 ± 0.00047	χ^2_{plik}	764.8	779.8 ± 6.0
H_0	67.24	67.39 ± 0.94	D_A/Gpc	13.8791	13.878 ± 0.045	χ^2_{prior}	1.99	7.45 ± 3.5
Ω_Λ	0.6838	0.685 ± 0.013	z_{drag}	1059.74	1059.88 ± 0.52	χ^2_{CMB}	20497.5	20514.8 ± 6.0
Ω_m	0.3162	0.315 ± 0.013	r_{drag}	147.175	147.15 ± 0.49			

Best-fit $\chi^2_{eff} = 20499.51$; $\bar{\chi}^2_{eff} = 20522.23$; $R - 1 = 0.01420$

χ^2_{eff}: CMB - bflike_WMAP353ggf_LFI312_nw8: 19732.72 plik_dx11dr2_HM_v18_TT: 764.80

18.30 base_nrun_r_plikHM_TT_WMAPTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02238 ± 0.00024	$\Omega_m h^2$	0.1411 ± 0.0016	k_D	0.14034 ± 0.00047
$\boldsymbol{\Omega_c h^2}$	0.1181 ± 0.0017	$\Omega_m h^3$	0.09610 ± 0.00049	$100\theta_D$	0.16084 ± 0.00029
$\boldsymbol{100\theta_{MC}}$	1.04112 ± 0.00045	σ_8	0.8161 ± 0.0076	z_{eq}	3356 ± 37
$\boldsymbol{\tau}$	$0.071^{+0.011}_{-0.013}$	$\sigma_8\Omega_m^{0.5}$	0.4501 ± 0.0087	k_{eq}	0.01024 ± 0.00011
$\boldsymbol{\ln(10^{10} A_s)}$	$3.073^{+0.021}_{-0.023}$	$\sigma_8\Omega_m^{0.25}$	0.6061 ± 0.0077	$100\theta_{eq}$	0.8219 ± 0.0073
$\boldsymbol{n_s}$	0.9688 ± 0.0052	$\sigma_8/h^{0.5}$	0.989 ± 0.011	$100\theta_{s,eq}$	0.4538 ± 0.0037
$\boldsymbol{dn_s/d\ln k}$	-0.0069 ± 0.0082	$\langle d^2\rangle^{1/2}$	2.437 ± 0.028	$r_{drag}/D_V(0.57)$	0.07200 ± 0.00058
$\boldsymbol{r}$	< 0.0663	z_{re}	9.25 ± 1.0	$H(0.57)$	$93.23^{+0.36}_{-0.41}$
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025	$10^9 A_s$	$2.161^{+0.044}_{-0.051}$	$D_A(0.57)$	1381 ± 11
$\boldsymbol{A_{217}^{CIB}}$	65.1 ± 6.7	$10^9 A_s e^{-2\tau}$	1.874 ± 0.012	$F_{AP}(0.57)$	0.6742 ± 0.0026
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1227 ± 22	$f\sigma_8(0.57)$	0.4725 ± 0.0052
$\boldsymbol{A_{143}^{tSZ}}$	4.86 ± 2.0	D_{220}	5716 ± 40	$\sigma_8(0.57)$	0.6089 ± 0.0061
$\boldsymbol{A_{100}^{PS}}$	263 ± 28	D_{810}	2534 ± 14	$r_{0.002}$	< 0.0643
$\boldsymbol{A_{143}^{PS}}$	45^{+9}_{-8}	D_{1420}	814.2 ± 5.3	$r_{0.01}$	< 0.0644
$\boldsymbol{A_{143\times217}^{PS}}$	38^{+9}_{-10}	D_{2000}	$229.7^{+1.9}_{-2.1}$	$\ln(10^{10} A_t)$	$-0.34^{+1.5}_{-0.63}$
$\boldsymbol{A_{217}^{PS}}$	95 ± 10	$n_{s,0.002}$	0.991 ± 0.027	r_{10}	< 0.0330
$\boldsymbol{A^{kSZ}}$	< 5.45	Y_P	0.24540 ± 0.00011	$10^9 A_t$	< 0.143
$\boldsymbol{A_{100}^{dustTT}}$	7.52 ± 1.9	Y_P^{BBN}	0.24672 ± 0.00011	$10^9 A_t e^{-2\tau}$	< 0.124
$\boldsymbol{A_{143}^{dustTT}}$	9.11 ± 1.8	10^5D/H	2.590 ± 0.045	f_{2000}^{143}	31.1 ± 3.1
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.0	Age/Gyr	13.782 ± 0.037	$f_{2000}^{143\times217}$	33.2 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	81.6 ± 7.1	z_*	1089.74 ± 0.40	f_{2000}^{217}	106.7 ± 2.1
$\boldsymbol{c_{100}}$	0.99788 ± 0.00080	r_*	144.93 ± 0.38	$\chi^2_{lensing}$	10.2 ± 1.7
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	$100\theta_*$	1.04130 ± 0.00044	$\chi^2_{WMAPTEB}$	19734.5 ± 2.8
H_0	68.12 ± 0.79	D_A/Gpc	13.918 ± 0.036	χ^2_{plik}	781 ± 14
Ω_Λ	0.696 ± 0.010	z_{drag}	$1059.82^{+0.50}_{-0.56}$	χ^2_{prior}	7.43 ± 3.5
Ω_m	0.304 ± 0.010	r_{drag}	147.59 ± 0.39	χ^2_{CMB}	20530 ± 14

$\bar{\chi}^2_{eff} = 20533.29$; $R - 1 = 0.02821$

18.31 base_nrun_r_plikHM_TT_WMAPTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02240 ± 0.00022	σ_8	0.827 ± 0.011	$100\theta_{\rm eq}$	0.8171 ± 0.0054
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0013	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4604 ± 0.0091	$100\theta_{\rm s,eq}$	0.4513 ± 0.0028
$\boldsymbol{100\theta_{\rm MC}}$	1.04099 ± 0.00042	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6168 ± 0.0097	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07164 ± 0.00042
$\boldsymbol{\tau}$	$0.079^{+0.013}_{-0.014}$	$\sigma_8/h^{0.5}$	1.005 ± 0.015	$H(0.57)$	93.10 ± 0.28
$\boldsymbol{\ln(10^{10}A_s)}$	$3.093^{+0.025}_{-0.029}$	$\langle d^2\rangle^{1/2}$	2.471 ± 0.034	$D_{\rm A}(0.57)$	1386.0 ± 7.7
$\boldsymbol{n_s}$	0.9663 ± 0.0045	$z_{\rm re}$	10.0 ± 1.2	$F_{\rm AP}(0.57)$	0.6757 ± 0.0019
$\boldsymbol{{\rm d}n_s/{\rm d}\ln k}$	-0.0103 ± 0.0085	$10^9 A_{\rm s}$	$2.205^{+0.055}_{-0.066}$	$f\sigma_8(0.57)$	0.4802 ± 0.0071
$\boldsymbol{r}$	< 0.0645	$10^9 A_{\rm s}e^{-2\tau}$	1.882 ± 0.012	$\sigma_8(0.57)$	$0.6152^{+0.0074}_{-0.0087}$
$\boldsymbol{y_{\rm cal}}$	1.0004 ± 0.0025	D_{40}	1228^{+21}_{-23}	$r_{0.002}$	< 0.0629
$\boldsymbol{A_{217}^{\rm CIB}}$	65.2 ± 6.7	D_{220}	5719 ± 41	$r_{0.01}$	< 0.0629
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	D_{810}	2537 ± 14	$\ln(10^{10}A_{\rm t})$	$-0.32^{+1.4}_{-0.64}$
$\boldsymbol{A_{143}^{\rm tSZ}}$	4.84 ± 2.0	D_{1420}	813.8 ± 5.1	r_{10}	< 0.0322
$\boldsymbol{A_{100}^{\rm PS}}$	264 ± 28	D_{2000}	229.6 ± 1.9	$10^9 A_{\rm t}$	< 0.142
$\boldsymbol{A_{143}^{\rm PS}}$	45^{+9}_{-8}	$n_{\rm s,0.002}$	0.999 ± 0.027	$10^9 A_t e^{-2\tau}$	< 0.122
$\boldsymbol{A_{143\times217}^{PS}}$	38^{+9}_{-10}	$Y_{\rm P}$	0.24540 ± 0.00010	f_{2000}^{143}	31.3 ± 3.1
$\boldsymbol{A_{217}^{\rm PS}}$	96 ± 10	$Y_{\rm P}^{\rm BBN}$	0.24673 ± 0.00010	$f_{2000}^{143\times217}$	33.4 ± 2.2
$\boldsymbol{A^{\rm kSZ}}$	< 5.44	$10^5{\rm D/H}$	2.587 ± 0.042	f_{2000}^{217}	106.9 ± 2.1
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.48 ± 1.9	Age/Gyr	13.789 ± 0.030	$\chi^2_{\rm WMAPTEB}$	19734.9 ± 3.0
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.11 ± 1.8	z_*	1089.82 ± 0.32	$\chi^2_{\rm plik}$	780 ± 14
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.3 ± 4.1	r_*	144.64 ± 0.33	$\chi^2_{\rm 6DF}$	0.063 ± 0.081
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.8 ± 7.3	$100\theta_*$	1.04117 ± 0.00042	$\chi^2_{\rm MGS}$	1.33 ± 0.53
$\boldsymbol{c_{100}}$	0.99790 ± 0.00080	$D_{\rm A}/{\rm Gpc}$	13.892 ± 0.033	$\chi^2_{\rm DR11CMASS}$	2.91 ± 0.70
$\boldsymbol{c_{217}}$	0.9961 ± 0.0014	$z_{\rm drag}$	1059.93 ± 0.50	$\chi^2_{\rm DR11LOWZ}$	0.77 ± 0.61
H_0	67.71 ± 0.57	$r_{\rm drag}$	147.29 ± 0.37	$\chi^2_{\rm prior}$	7.41 ± 3.6
Ω_Λ	0.6898 ± 0.0075	$k_{\rm D}$	0.14067 ± 0.00049	$\chi^2_{\rm CMB}$	20510 ± 14
$\Omega_{\rm m}$	0.3102 ± 0.0075	$100\theta_{\rm D}$	0.16077 ± 0.00029	$\chi^2_{\rm BAO}$	5.07 ± 1.0
$\Omega_{\rm m}h^2$	0.1422 ± 0.0012	$z_{\rm eq}$	3382 ± 30		
$\Omega_{\rm m}h^3$	0.09625 ± 0.00051	$k_{\rm eq}$	0.010323 ± 0.000090		

$\bar{\chi}^2_{\rm eff} = 20527.01$; $R - 1 = 0.01835$

19 omegak

19.1 base_omegak_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022505	0.02257 ± 0.00026	Ω_m	0.441	$0.510^{+0.073}_{-0.12}$	D_A/Gpc	13.9124	13.918 ± 0.046
$\boldsymbol{\Omega_c h^2}$	0.11794	0.1175 ± 0.0023	$\Omega_m h^2$	0.14109	0.1407 ± 0.0022	z_{drag}	1060.09	1060.21 ± 0.52
$\boldsymbol{100\theta_{MC}}$	1.04109	1.04122 ± 0.00051	$\Omega_m h^3$	0.0798	0.0749 ± 0.0074	r_{drag}	147.491	147.54 ± 0.49
$\boldsymbol{\tau}$	0.0700	0.058 ± 0.022	σ_8	0.7968	$0.776^{+0.032}_{-0.027}$	k_D	0.14055	0.14053 ± 0.00051
$\boldsymbol{\Omega_K}$	−0.0330	$-0.052^{+0.032}_{-0.018}$	$\sigma_8\Omega_m^{0.5}$	0.5293	0.550 ± 0.035	$100\theta_D$	0.160667	0.16062 ± 0.00028
$\boldsymbol{\ln(10^{10}A_s)}$	3.0697	3.045 ± 0.043	$\sigma_8\Omega_m^{0.25}$	0.6494	$0.652^{+0.017}_{-0.014}$	z_{eq}	3356	3347 ± 52
$\boldsymbol{n_s}$	0.9711	0.9717 ± 0.0066	$\sigma_8/h^{0.5}$	1.0597	$1.065^{+0.027}_{-0.023}$	k_{eq}	0.010243	0.01021 ± 0.00016
$\boldsymbol{y_{cal}}$	1.00004	1.0002 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.648	2.683 ± 0.080	$100\theta_{eq}$	0.8221	0.824 ± 0.010
$\boldsymbol{A_{217}^{CIB}}$	63.2	61.4 ± 6.7	z_{re}	9.03	$7.66^{+2.5}_{-2.1}$	$100\theta_{s,eq}$	0.4539	0.4549 ± 0.0052
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.311	> 0.387	10^9A_s	2.154	$2.104^{+0.087}_{-0.10}$	$r_{drag}/D_V(0.57)$	0.06327	$0.0609^{+0.0036}_{-0.0040}$
$\boldsymbol{A_{143}^{tSZ}}$	7.15	$5.65^{+2.1}_{-1.8}$	$10^9A_se^{-2\tau}$	1.8722	1.872 ± 0.014	$H(0.57)$	84.23	$81.8^{+3.6}_{-4.2}$
$\boldsymbol{A_{100}^{PS}}$	244.2	248 ± 30	D_{40}	1212.8	1208 ± 18	$D_A(0.57)$	1592	1671^{+110}_{-130}
$\boldsymbol{A_{143}^{PS}}$	38.3	38 ± 8	D_{220}	5732.8	5748 ± 42	$F_{AP}(0.57)$	0.7020	$0.713^{+0.014}_{-0.019}$
$\boldsymbol{A_{143\times217}^{PS}}$	38.2	37 ± 10	D_{810}	2529.6	2530 ± 14	$f\sigma_8(0.57)$	0.4913	$0.485^{+0.011}_{-0.0096}$
$\boldsymbol{A_{217}^{PS}}$	99.8	98 ± 10	D_{1420}	814.0	814.0 ± 5.1	$\sigma_8(0.57)$	0.5654	$0.541^{+0.036}_{-0.033}$
$\boldsymbol{A^{kSZ}}$	0.00	< 3.40	D_{2000}	232.22	232.5 ± 2.0	f_{2000}^{143}	26.76	27 ± 3
$\boldsymbol{A_{100}^{dustTT}}$	7.44	7.46 ± 1.9	$n_{s,0.002}$	0.9711	0.9717 ± 0.0066	$f_{2000}^{143\times217}$	29.99	29.5 ± 2.3
$\boldsymbol{A_{143}^{dustTT}}$	9.04	8.92 ± 1.9	Y_P	0.245452	0.24548 ± 0.00012	f_{2000}^{217}	103.70	103.4 ± 2.2
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.61	16.6 ± 4.2	Y_P^{BBN}	0.246779	0.24681 ± 0.00012	χ^2_{lowTEB}	10493.74	10494.8 ± 1.4
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.4 ± 7.3	10^5D/H	2.5661	2.555 ± 0.048	χ^2_{plik}	759.9	774.7 ± 5.5
$\boldsymbol{c_{100}}$	0.99795	0.99794 ± 0.00078	Age/Gyr	15.03	$15.49^{+0.64}_{-0.73}$	χ^2_{prior}	1.83	7.10 ± 3.5
$\boldsymbol{c_{217}}$	0.99561	0.9956 ± 0.0015	z_*	1089.571	1089.46 ± 0.48	χ^2_{CMB}	11253.6	11269.5 ± 5.6
H_0	56.5	53.2 ± 5.1	r_*	144.86	144.94 ± 0.50			
Ω_Λ	0.592	$0.542^{+0.086}_{-0.055}$	$100\theta_*$	1.041261	1.04138 ± 0.00049			

Best-fit $\chi^2_{eff} = 11255.46$; $\bar{\chi}^2_{eff} = 11276.56$; $R - 1 = 0.02296$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.74 plik_dx11dr2_HM_v18_TT: 759.89

19.2 base_omegak_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022425	0.02242 ± 0.00017	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303	0.302 ± 0.085	Age/Gyr	15.04	15.19 ± 0.56
$\boldsymbol{\Omega_c h^2}$	0.11849	0.1185 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.154 ± 0.054	z_*	1089.719	1089.72 ± 0.32
$\boldsymbol{100\theta_{MC}}$	1.040926	1.04096 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335	0.335 ± 0.080	r_*	144.781	144.80 ± 0.32
$\boldsymbol{\tau}$	0.0583	0.054 ± 0.021	$\boldsymbol{A^{dustTE}_{217}}$	1.653	1.65 ± 0.25	$100\theta_*$	1.041100	1.04114 ± 0.00032
$\boldsymbol{\Omega_K}$	−0.0329	$-0.040^{+0.024}_{-0.016}$	$\boldsymbol{c_{100}}$	0.99827	0.99821 ± 0.00077	D_A/Gpc	13.9066	$13.908^{+0.032}_{-0.029}$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0487	3.039 ± 0.041	$\boldsymbol{c_{217}}$	0.99564	0.9957 ± 0.0014	z_{drag}	1059.971	1059.94 ± 0.33
$\boldsymbol{n_s}$	0.96816	0.9680 ± 0.0048	H_0	56.38	$55.3^{+4.3}_{-5.0}$	r_{drag}	147.430	147.45 ± 0.31
$\boldsymbol{y_{cal}}$	0.99981	0.99996 ± 0.0025	Ω_Λ	0.588	$0.568^{+0.066}_{-0.049}$	k_D	0.140550	0.14052 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	62.1	62.1 ± 6.6	Ω_m	0.445	$0.472^{+0.064}_{-0.090}$	$100\theta_D$	0.160731	0.16075 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.539	> 0.405	$\Omega_m h^2$	0.14156	0.1415 ± 0.0014	z_{eq}	3367.4	3366 ± 34
$\boldsymbol{A^{tSZ}_{143}}$	6.87	$5.66^{+2.0}_{-1.8}$	$\Omega_m h^3$	0.0798	$0.0783^{+0.0063}_{-0.0073}$	k_{eq}	0.010278	0.01027 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	247.2	252 ± 27	σ_8	0.7896	0.782 ± 0.025	$100\theta_{eq}$	0.8197	0.8200 ± 0.0065
$\boldsymbol{A^{PS}_{143}}$	43.3	40 ± 8	$\sigma_8\Omega_m^{0.5}$	0.5269	0.534 ± 0.029	$100\theta_{s,eq}$	0.45269	0.4528 ± 0.0033
$\boldsymbol{A^{PS}_{143\times217}}$	46.1	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6450	$0.646^{+0.014}_{-0.012}$	$r_{drag}/D_V(0.57)$	0.06317	$0.0624^{+0.0031}_{-0.0037}$
$\boldsymbol{A^{PS}_{217}}$	103.2	98.5 ± 11	$\sigma_8/h^{0.5}$	1.0516	$1.053^{+0.022}_{-0.019}$	$H(0.57)$	84.20	$83.4^{+3.1}_{-3.8}$
$\boldsymbol{A^{kSZ}}$	0.00	< 3.31	$\langle d^2\rangle^{1/2}$	2.631	2.642 ± 0.065	$D_A(0.57)$	1594	1622 ± 96
$\boldsymbol{A^{dustTT}_{100}}$	7.35	7.48 ± 1.8	z_{re}	7.94	$7.31^{+2.5}_{-2.0}$	$F_{AP}(0.57)$	0.7029	$0.707^{+0.013}_{-0.015}$
$\boldsymbol{A^{dustTT}_{143}}$	8.90	8.84 ± 1.8	$10^9 A_s$	2.109	$2.090^{+0.083}_{-0.098}$	$f\sigma_8(0.57)$	0.4872	0.4843 ± 0.0086
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.66	16.6 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8767	1.876 ± 0.012	$\sigma_8(0.57)$	0.5595	0.551 ± 0.029
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.2 ± 7.4	D_{40}	1217.0	1216 ± 15	f^{143}_{2000}	26.99	27.4 ± 2.8
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0817 ± 0.0056	D_{220}	5741.8	5743 ± 39	$f^{143\times217}_{2000}$	30.41	30.4 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04923	0.0493 ± 0.0050	D_{810}	2532.5	2531 ± 14	f^{217}_{2000}	103.89	104.2 ± 2.0
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0987	0.099 ± 0.032	D_{1420}	813.82	813.3 ± 4.7	χ^2_{lowTEB}	10493.88	10495.0 ± 1.3
$\boldsymbol{A^{dustEE}_{143}}$	0.1008	0.1007 ± 0.0069	D_{2000}	231.70	231.5 ± 1.6	χ^2_{plik}	2428.5	2448.1 ± 6.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2235	0.224 ± 0.047	$n_{s,0.002}$	0.96816	0.9680 ± 0.0048	χ^2_{prior}	6.51	19.2 ± 5.4
$\boldsymbol{A^{dustEE}_{217}}$	0.650	0.65 ± 0.13	Y_P	0.245417	0.245414 ± 0.000076	χ^2_{CMB}	12922.4	12943.1 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1407	0.141 ± 0.038	Y_P^{BBN}	0.246744	0.246740 ± 0.000076			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1312	0.132 ± 0.029	10^5D/H	2.5810	2.582 ± 0.032			

Best-fit $\chi^2_{eff} = 12928.92$; $\bar{\chi}^2_{eff} = 12962.34$; $R - 1 = 0.01122$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.88 plik_dx11dr2_HM_v18_TTTEEE: 2428.53

19.3 base_omegak_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022533	0.02258 ± 0.00026 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.24	-0.1 ± 1.0	r_*	145.008	144.97 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11731	0.1174 ± 0.0022 (-0.1σ)	H_0	56.87	53.2 ± 4.9 (-0.0σ)	$100\theta_*$	1.041388	1.04144 ± 0.00047 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.041212	1.04127 ± 0.00049 $(+0.1\sigma)$	Ω_Λ	0.598	$0.542^{+0.081}_{-0.055}$ $(+0.0\sigma)$	z_{drag}	1060.12	1060.20 ± 0.52 (-0.0σ)
$\boldsymbol{\tau}$	0.0722	0.058 ± 0.021 $(+0.0\sigma)$	Ω_m	0.434	$0.510^{+0.073}_{-0.11}$ $(+0.0\sigma)$	r_{drag}	147.626	147.57 ± 0.47 $(+0.1\sigma)$
$\boldsymbol{\Omega_K}$	-0.0324	$-0.052^{+0.031}_{-0.018}$ (-0.0σ)	$\Omega_m h^2$	0.14049	0.1406 ± 0.0021 (-0.1σ)	k_D	0.140440	0.14053 ± 0.00049 (-0.0σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0718	3.043 ± 0.042 (-0.1σ)	$\Omega_m h^3$	0.0799	0.0748 ± 0.0072 (-0.0σ)	$100\theta_D$	0.160650	0.16061 ± 0.00029 (-0.1σ)
$\boldsymbol{n_s}$	0.9738	0.9740 ± 0.0066 $(+0.4\sigma)$	σ_8	0.7968	$0.775^{+0.032}_{-0.026}$ (-0.0σ)	z_{eq}	3341.8	3344 ± 50 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00047	$0.9999^{+0.0026}_{-0.0024}$ (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.5252	0.549 ± 0.035 (-0.0σ)	$100\theta_{eq}$	0.8249	0.8248 ± 0.0098 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	236.9	235 ± 23 (-0.5σ)	$\sigma_8 \Omega_m^{0.25}$	0.6469	$0.652^{+0.016}_{-0.015}$ (-0.0σ)	$r_{drag}/D_V(0.57)$	0.06351	0.0608 ± 0.0036 (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	32.4	33 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0566	$1.064^{+0.026}_{-0.023}$ (-0.0σ)	$H(0.57)$	84.35	$81.7^{+3.5}_{-4.0}$ (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	100.5	101 ± 10 $(+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.636	2.675 ± 0.079 (-0.1σ)	$D_A(0.57)$	1586	1672^{+100}_{-120} $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	45.4	43 ± 7 (-2.8σ)	z_{re}	9.21	$7.69^{+2.5}_{-2.0}$ $(+0.0\sigma)$	$F_{AP}(0.57)$	0.7006	$0.713^{+0.014}_{-0.018}$ $(+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	4.67	$3.77^{+1.9}_{-2.3}$ (-1.0σ)	$10^9 A_s$	2.158	$2.099^{+0.087}_{-0.10}$ (-0.1σ)	$f\sigma_8(0.57)$	0.4904	$0.484^{+0.011}_{-0.0098}$ (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.473	0.53 ± 0.12	$10^9 A_s e^{-2\tau}$	1.8680	1.867 ± 0.014 (-0.4σ)	$\sigma_8(0.57)$	0.5666	$0.540^{+0.036}_{-0.031}$ (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.08	—	D_{40}	1206.1	1199 ± 18 (-0.5σ)	Y_P^{BBN}	0.246374	0.24639 ± 0.00011 (-3.6σ)
$\boldsymbol{A^{kSZ}}$	2.27	< 5.73 $(+0.7\sigma)$	D_{220}	5723.0	5723 ± 41 (-0.6σ)	f_{2000}^{143}	25.94	25 ± 3 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	1.004	0.997 ± 0.19	D_{810}	2528.3	2525 ± 14 (-0.3σ)	f_{2000}^{217}	104.22	103.7 ± 2.2 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.034	1.02 ± 0.18	D_{1420}	814.7	813.7 ± 5.1 (-0.1σ)	$f_{2000}^{143\times217}$	29.13	28.6 ± 2.5 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.220	1.23 ± 0.12	$n_{s,0.002}$	0.9738	0.9740 ± 0.0066 $(+0.4\sigma)$	χ^2_{lowTEB}	10493.41	10494.4 ± 1.2 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.977	0.96 ± 0.18	Y_P	0.245045	0.24506 ± 0.00011 (-3.6σ)	$\chi^2_{CamSpec}$	8042.1	8057.0 ± 5.5
$\boldsymbol{c_{100}}$	0.99688	0.99688 ± 0.00097 (-1.4σ)	Age/Gyr	15.02	$15.50^{+0.62}_{-0.70}$ $(+0.0\sigma)$	χ^2_{prior}	3.08	8.26 ± 3.4 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99679	0.9967 ± 0.0018 $(+0.8\sigma)$	z_*	1089.464	1089.42 ± 0.47 (-0.1σ)	χ^2_{CMB}	18535.5	18551.4 ± 5.7 $(+1292.6\sigma)$

Best-fit $\chi^2_{eff} = 18538.57$; $\Delta\chi^2_{eff} = 7283.10$; $\bar{\chi}^2_{eff} = 18559.65$; $\Delta\bar{\chi}^2_{eff} = 7283.09$; $R - 1 = 0.01475$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.41 (Δ -0.33) CamSpec like_v9.10CMH_unified: 8042.07

19.4 base_omegak_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02259 ± 0.00026	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	145.00 ± 0.48
$\boldsymbol{\Omega_c h^2}$	0.1172 ± 0.0022	H_0	$54.5^{+4.0}_{-5.0}$	$100\theta_*$	1.04146 ± 0.00047
$\boldsymbol{100\theta_{MC}}$	1.04129 ± 0.00049	Ω_Λ	$0.564^{+0.064}_{-0.051}$	$z_{\rm drag}$	1060.21 ± 0.52
$\boldsymbol{\tau}$	$0.0683^{+0.0095}_{-0.021}$	$\Omega_{\rm m}$	$0.481^{+0.068}_{-0.088}$	$r_{\rm drag}$	147.61 ± 0.47
$\boldsymbol{\Omega_K}$	$-0.045^{+0.024}_{-0.018}$	$\Omega_{\rm m}h^2$	0.1404 ± 0.0021	$k_{\rm D}$	0.14050 ± 0.00050
$\boldsymbol{\ln(10^{10}A_s)}$	$3.063^{+0.021}_{-0.040}$	$\Omega_{\rm m}h^3$	$0.0766^{+0.0061}_{-0.0073}$	$100\theta_{\rm D}$	0.16060 ± 0.00029
$\boldsymbol{n_s}$	0.9746 ± 0.0065	σ_8	0.786 ± 0.022	$z_{\rm eq}$	3340 ± 49
$\boldsymbol{y_{cal}}$	$0.99995^{+0.0026}_{-0.0023}$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.543 ± 0.033	$100\theta_{\rm eq}$	0.8256 ± 0.0097
$\boldsymbol{A_{100}^{PS}}$	235 ± 24	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.652^{+0.017}_{-0.014}$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0618^{+0.0029}_{-0.0038}$
$\boldsymbol{A_{143}^{PS}}$	33 ± 8	$\sigma_8/h^{0.5}$	$1.066^{+0.027}_{-0.023}$	$H(0.57)$	$82.7^{+3.0}_{-3.9}$
$\boldsymbol{A_{217}^{PS}}$	101 ± 10	$\langle d^2\rangle^{1/2}$	2.671 ± 0.078	$D_{\rm A}(0.57)$	1641 ± 98
$\boldsymbol{A_{217}^{CIB}}$	43 ± 7	$z_{\rm re}$	< 9.39	$F_{\rm AP}(0.57)$	0.708 ± 0.014
$\boldsymbol{A_{143}^{tSZ}}$	$3.76^{+1.9}_{-2.3}$	$10^9A_{\rm s}$	$2.140^{+0.044}_{-0.086}$	$f\sigma_8(0.57)$	$0.4884^{+0.0073}_{-0.0086}$
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9A_{\rm s}e^{-2\tau}$	1.866 ± 0.014	$\sigma_8(0.57)$	0.552 ± 0.027
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1201 ± 17	$Y_{\rm P}^{\rm BBN}$	0.24639 ± 0.00011
$\boldsymbol{A^{kSZ}}$	< 5.78	D_{220}	5722 ± 41	f_{2000}^{143}	25 ± 3
$\boldsymbol{A_{100}^{dust}}$	1.00 ± 0.19	D_{810}	2525 ± 14	f_{2000}^{217}	103.7 ± 2.2
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	813.9 ± 5.1	$f_{2000}^{143\times217}$	28.5 ± 2.5
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.12	$n_{\rm s,0.002}$	0.9746 ± 0.0065	$\chi^2_{\rm lowTEB}$	10494.1 ± 1.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.96 ± 0.18	$Y_{\rm P}$	0.24507 ± 0.00011	$\chi^2_{\rm CamSpec}$	8056.9 ± 5.4
$\boldsymbol{c_{100}}$	0.99688 ± 0.00095	Age/Gyr	15.33 ± 0.58	$\chi^2_{\rm prior}$	8.26 ± 3.4
$\boldsymbol{c_{217}}$	0.9967 ± 0.0018	z_*	1089.39 ± 0.47	$\chi^2_{\rm CMB}$	18551.0 ± 5.6

$\bar{\chi}^2_{\rm eff} = 18559.27$; $R - 1 = 0.02309$

19.5 base_omegak_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022515	0.02252 ± 0.00018 $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.00029	0.9998 ± 0.0043	r_*	144.872	144.85 ± 0.32 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11788	0.1179 ± 0.0015 (-0.3σ)	$\boldsymbol{\beta_1^1}$	-0.32	-0.1 ± 1.0	$100\theta_*$	1.041154	1.04116 ± 0.00030 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040978	1.04098 ± 0.00031 $(+0.1\sigma)$	H_0	56.76	56.5 ± 4.5 $(+0.3\sigma)$	z_{drag}	1060.123	1060.13 ± 0.35 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.0548	0.054 ± 0.020 $(+0.0\sigma)$	Ω_Λ	0.594	$0.585^{+0.064}_{-0.043}$ $(+0.3\sigma)$	r_{drag}	147.492	147.47 ± 0.32 $(+0.1\sigma)$
$\boldsymbol{\Omega_K}$	-0.0322	$-0.036^{+0.023}_{-0.014}$ $(+0.2\sigma)$	Ω_m	0.438	$0.450^{+0.057}_{-0.086}$ (-0.3σ)	k_D	0.140567	0.14060 ± 0.00034 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0397	3.037 ± 0.040 (-0.1σ)	$\Omega_m h^2$	0.14104	0.1411 ± 0.0014 (-0.3σ)	$100\theta_D$	0.160619	0.16061 ± 0.00020 (-0.7σ)
$\boldsymbol{n_s}$	0.97133	0.9712 ± 0.0049 $(+0.7\sigma)$	$\Omega_m h^3$	0.0801	0.0798 ± 0.0065 $(+0.2\sigma)$	z_{eq}	3355.1	3357 ± 33 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.00090	0.9999 ± 0.0024 (-0.0σ)	σ_8	0.7852	$0.783^{+0.028}_{-0.023}$ $(+0.0\sigma)$	$100\theta_{eq}$	0.8223	0.8220 ± 0.0065 $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	238.4	237 ± 23 (-0.6σ)	$\sigma_8 \Omega_m^{0.5}$	0.5195	0.522 ± 0.028 (-0.4σ)	$r_{drag}/D_V(0.57)$	0.06343	0.0633 ± 0.0033 $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	39.2	35 ± 8 (-0.7σ)	$\sigma_8 \Omega_m^{0.25}$	0.6387	0.639 ± 0.013 (-0.6σ)	$H(0.57)$	84.38	84.3 ± 3.4 $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	103.2	101 ± 10 $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	1.0422	1.042 ± 0.021 (-0.5σ)	$D_A(0.57)$	1587	1597^{+88}_{-110} (-0.3σ)
$\boldsymbol{A_{217}^{CIB}}$	42.8	43 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.603	2.607 ± 0.064 (-0.5σ)	$F_{AP}(0.57)$	0.7014	$0.703^{+0.012}_{-0.015}$ (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.69	$3.78^{+1.9}_{-2.4}$ (-1.0σ)	z_{re}	7.55	$7.38^{+2.5}_{-1.9}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.4836	0.4818 ± 0.0081 (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.583	0.53 ± 0.12	$10^9 A_s$	2.090	2.085 ± 0.084 (-0.1σ)	$\sigma_8(0.57)$	0.5578	$0.555^{+0.032}_{-0.027}$ $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.65	—	$10^9 A_s e^{-2\tau}$	1.8731	1.869 ± 0.012 (-0.6σ)	Y_P^{BBN}	0.246367	0.246368 ± 0.000074 (-4.9σ)
$\boldsymbol{A^{kSZ}}$	3.96	< 5.87 $(+0.8\sigma)$	D_{40}	1208.1	1206 ± 15 (-0.7σ)	f_{2000}^{143}	26.39	26.3 ± 2.8 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.978	0.99 ± 0.20	D_{220}	5736.2	5725 ± 38 (-0.5σ)	f_{2000}^{217}	104.47	104.4 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.005	1.02 ± 0.18	D_{810}	2533.0	2526 ± 13 (-0.3σ)	$f_{2000}^{143\times217}$	29.55	29.4 ± 2.1 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.218	1.23 ± 0.11	D_{1420}	815.73	813.8 ± 4.7 $(+0.1\sigma)$	χ^2_{lowTEB}	10493.35	10494.4 ± 1.2 (-0.4σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.968	0.97 ± 0.18	$n_{s,0.002}$	0.97133	0.9712 ± 0.0049 $(+0.7\sigma)$	$\chi^2_{CamSpec}$	12934.4	12950.7 ± 5.9
$\boldsymbol{c_{100}}$	0.99696	0.99687 ± 0.00097 (-1.7σ)	Y_P	0.245037	0.245041 ± 0.000077 (-4.9σ)	χ^2_{prior}	3.04	8.71 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99654	0.9967 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	15.01	$15.06^{+0.53}_{-0.61}$ (-0.2σ)	χ^2_{CMB}	23427.7	23445.2 ± 6.0 $(+1553.1\sigma)$
$\boldsymbol{c_{TE}}$	1.00202	1.0019 ± 0.0046	z_*	1089.536	1089.53 ± 0.31 (-0.6σ)			

Best-fit $\chi^2_{eff} = 23430.74$; $\Delta\chi^2_{eff} = 10501.82$; $\bar{\chi}^2_{eff} = 23453.88$; $\Delta\bar{\chi}^2_{eff} = 10491.54$; $R - 1 = 0.01948$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.35 (Δ -0.53) CamSpec like_v9.10CMH_unified: 12934.35

19.6 base_omegak_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02253 ± 0.00017	$\boldsymbol{c_{EE}}$	0.9998 ± 0.0043	r_*	144.87 ± 0.32
$\boldsymbol{\Omega_c h^2}$	0.1178 ± 0.0015	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04116 ± 0.00031
$\boldsymbol{100\theta_{MC}}$	1.04099 ± 0.00031	H_0	58.1 ± 4.0	$z_{\rm drag}$	1060.14 ± 0.35
$\boldsymbol{\tau}$	$0.0657^{+0.0088}_{-0.019}$	Ω_Λ	$0.606^{+0.049}_{-0.037}$	$r_{\rm drag}$	147.49 ± 0.32
$\boldsymbol{\Omega_K}$	$-0.029^{+0.018}_{-0.012}$	$\Omega_{\rm m}$	$0.423^{+0.049}_{-0.067}$	$k_{\rm D}$	0.14059 ± 0.00034
$\boldsymbol{\ln(10^{10} A_s)}$	$3.059^{+0.020}_{-0.037}$	$\Omega_{\rm m} h^2$	0.1410 ± 0.0014	$100\theta_{\rm D}$	0.16060 ± 0.00020
$\boldsymbol{n_s}$	0.9718 ± 0.0048	$\Omega_{\rm m} h^3$	0.0820 ± 0.0059	$z_{\rm eq}$	3354 ± 33
$\boldsymbol{y_{cal}}$	0.9999 ± 0.0024	σ_8	$0.795^{+0.017}_{-0.020}$	$100\theta_{\rm eq}$	0.8225 ± 0.0064
$\boldsymbol{A_{100}^{PS}}$	236^{+24}_{-22}	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.515 ± 0.027	$r_{\rm drag}/D_{\rm V}(0.57)$	0.0644 ± 0.0030
$\boldsymbol{A_{143}^{PS}}$	35 ± 8	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.640 ± 0.013	$H(0.57)$	85.4 ± 3.1
$\boldsymbol{A_{217}^{PS}}$	101 ± 10	$\sigma_8/h^{0.5}$	1.044 ± 0.021	$D_{\rm A}(0.57)$	1563^{+77}_{-89}
$\boldsymbol{A_{217}^{CIB}}$	43 ± 7	$\langle d^2 \rangle^{1/2}$	2.603 ± 0.064	$F_{\rm AP}(0.57)$	$0.698^{+0.010}_{-0.012}$
$\boldsymbol{A_{143}^{tSZ}}$	$3.81^{+1.8}_{-2.4}$	$z_{\rm re}$	< 9.17	$f\sigma_8(0.57)$	0.4857 ± 0.0065
$\boldsymbol{r_{143\times217}^{PS}}$	0.53 ± 0.12	$10^9 A_{\rm s}$	$2.132^{+0.042}_{-0.079}$	$\sigma_8(0.57)$	0.568 ± 0.022
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	1.868 ± 0.012	$Y_{\rm P}^{\rm BBN}$	0.246372 ± 0.000073
$\boldsymbol{A^{kSZ}}$	< 5.78	D_{40}	1209 ± 15	f_{2000}^{143}	26.1 ± 2.8
$\boldsymbol{A_{100}^{dust}}$	$0.99^{+0.21}_{-0.19}$	D_{220}	5723 ± 38	f_{2000}^{217}	104.3 ± 2.0
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2526 ± 13	$f_{2000}^{143\times217}$	29.3 ± 2.1
$\boldsymbol{A_{217}^{dust}}$	1.23 ± 0.11	D_{1420}	$813.9^{+5.0}_{-4.5}$	$\chi^2_{\rm lowTEB}$	10494.1 ± 1.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$n_{\rm s,0.002}$	0.9718 ± 0.0048	$\chi^2_{\rm CamSpec}$	12950.8 ± 5.9
$\boldsymbol{c_{100}}$	0.99686 ± 0.00097	$Y_{\rm P}$	0.245045 ± 0.000076	$\chi^2_{\rm prior}$	8.70 ± 3.5
$\boldsymbol{c_{217}}$	0.9967 ± 0.0018	Age/Gyr	$14.87^{+0.46}_{-0.53}$	$\chi^2_{\rm CMB}$	23444.9 ± 6.0
$\boldsymbol{c_{TE}}$	1.0017 ± 0.0046	z_*	1089.51 ± 0.31		

$\bar{\chi}^2_{\rm eff} = 23453.57$; $R - 1 = 0.02472$

19.7 base_omegak_plikHM_TT_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022279	0.02230 ± 0.00025	$\Omega_m h^2$	0.14172	0.1418 ± 0.0021	r_{drag}	147.513	147.47 ± 0.49
$\boldsymbol{\Omega_c h^2}$	0.11880	0.1189 ± 0.0023	$\Omega_m h^3$	0.09584	0.0959 ± 0.0018	k_D	0.14036	0.14041 ± 0.00051
$\boldsymbol{100\theta_{MC}}$	1.040978	1.04098 ± 0.00050	σ_8	0.8277	0.829 ± 0.015	$100\theta_D$	0.160929	0.16090 ± 0.00028
$\boldsymbol{\tau}$	0.0801	0.081 ± 0.020	$\sigma_8\Omega_m^{0.5}$	0.4608	0.461 ± 0.010	z_{eq}	3371.3	3374 ± 51
$\boldsymbol{\Omega_K}$	−0.00019	-0.0002 ± 0.0027	$\sigma_8\Omega_m^{0.25}$	0.6176	0.618 ± 0.012	k_{eq}	0.010289	0.01030 ± 0.00016
$\boldsymbol{\ln(10^{10}A_s)}$	3.0920	3.094 ± 0.037	$\sigma_8/h^{0.5}$	1.0065	1.008 ± 0.019	$100\theta_{eq}$	0.8187	0.8184 ± 0.0098
$\boldsymbol{n_s}$	0.9676	0.9677 ± 0.0065	$\langle d^2\rangle^{1/2}$	2.4890	2.491 ± 0.044	$100\theta_{s,eq}$	0.45225	0.4521 ± 0.0050
$\boldsymbol{y_{cal}}$	1.00038	1.0004 ± 0.0025	z_{re}	10.15	$10.1^{+1.9}_{-1.6}$	$r_{drag}/D_V(0.57)$	0.07165	0.07164 ± 0.00055
$\boldsymbol{A_{217}^{CIB}}$	67.3	63.7 ± 6.6	$10^9 A_s$	2.202	2.207 ± 0.083	$H(0.57)$	92.96	92.98 ± 0.73
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$10^9 A_s e^{-2\tau}$	1.8760	1.877 ± 0.014	$D_A(0.57)$	1387.7	1388 ± 12
$\boldsymbol{A_{143}^{tSZ}}$	7.11	5.20 ± 1.9	D_{40}	1231.8	1233 ± 16	$F_{AP}(0.57)$	0.67559	0.6757 ± 0.0020
$\boldsymbol{A_{100}^{PS}}$	254.4	257 ± 28	D_{220}	5719.4	5723 ± 42	$f\sigma_8(0.57)$	0.4809	0.4815 ± 0.0091
$\boldsymbol{A_{143}^{PS}}$	38.9	43 ± 8	D_{810}	2533.4	2534 ± 14	$\sigma_8(0.57)$	0.6162	0.617 ± 0.012
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	39^{+10}_{-10}	D_{1420}	814.7	815.0 ± 5.0	f_{2000}^{143}	29.68	29.6 ± 3.0
$\boldsymbol{A_{217}^{PS}}$	96.9	97 ± 10	D_{2000}	230.53	230.6 ± 1.9	$f_{2000}^{143\times217}$	32.26	32.1 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.00	< 4.44	$n_{s,0.002}$	0.9676	0.9677 ± 0.0065	f_{2000}^{217}	105.90	105.7 ± 2.1
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.44 ± 1.9	Y_P	0.245353	0.24536 ± 0.00011	χ^2_{lowTEB}	10496.20	10497.3 ± 2.5
$\boldsymbol{A_{143}^{dustTT}}$	9.05	9.00 ± 1.8	Y_P^{BBN}	0.246679	0.24669 ± 0.00011	χ^2_{plik}	763.7	777.6 ± 5.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.68	17.1 ± 4.2	10^5D/H	2.6085	2.605 ± 0.047	χ^2_{6DF}	0.0221	0.075 ± 0.099
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.4	Age/Gyr	13.809	13.81 ± 0.10	χ^2_{MGS}	1.28	1.34 ± 0.61
$\boldsymbol{c_{100}}$	0.99793	0.99788 ± 0.00078	z_*	1089.931	1089.91 ± 0.46	$\chi^2_{DR11CMASS}$	2.47	3.19 ± 1.2
$\boldsymbol{c_{217}}$	0.99599	0.9959 ± 0.0014	r_*	144.812	144.78 ± 0.50	$\chi^2_{DR11LOWZ}$	0.62	0.83 ± 0.75
H_0	67.63	67.63 ± 0.72	$100\theta_*$	1.041165	1.04117 ± 0.00049	χ^2_{prior}	2.01	7.32 ± 3.5
Ω_Λ	0.6903	0.6900 ± 0.0082	D_A/Gpc	13.9087	13.905 ± 0.046	χ^2_{CMB}	11259.9	11274.8 ± 5.7
Ω_m	0.3099	0.3102 ± 0.0078	z_{drag}	1059.628	1059.69 ± 0.49	χ^2_{BAO}	4.38	5.44 ± 1.6

Best-fit $\chi^2_{eff} = 11266.31$; $\bar{\chi}^2_{eff} = 11287.59$; $R - 1 = 0.00885$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.47 DR11LOWZ: 0.61 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.20 plik_dx11dr2_HM_v18_TT: 763.72

19.8 base_omegak_plikHM_TT_lowTEB_BAO_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022269	0.02227 ± 0.00024	$\Omega_m h^3$	0.09563	0.0958 ± 0.0018	$100\theta_D$	0.160972	0.16096 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.11830	0.1185 ± 0.0022	σ_8	0.8149	0.8144 ± 0.0098	z_{eq}	3359.1	3364 ± 49
$\boldsymbol{100\theta_{MC}}$	1.041055	1.04102 ± 0.00048	$\sigma_8\Omega_m^{0.5}$	0.4522	0.4521 ± 0.0067	k_{eq}	0.010252	0.01027 ± 0.00015
$\boldsymbol{\tau}$	0.0673	0.066 ± 0.015	$\sigma_8\Omega_m^{0.25}$	0.6070	$0.6068^{+0.0070}_{-0.0078}$	$100\theta_{eq}$	0.8209	0.8201 ± 0.0094
$\boldsymbol{\Omega_K}$	−0.00039	-0.0002 ± 0.0026	$\sigma_8/h^{0.5}$	0.9903	0.989 ± 0.011	$100\theta_{s,eq}$	0.45343	0.4530 ± 0.0048
$\boldsymbol{\ln(10^{10}A_s)}$	3.0643	3.062 ± 0.026	$\langle d^2\rangle^{1/2}$	2.4492	2.447 ± 0.026	$r_{drag}/D_V(0.57)$	0.07175	0.07175 ± 0.00055
$\boldsymbol{n_s}$	0.9686	0.9678 ± 0.0063	z_{re}	8.95	$8.72^{+1.5}_{-1.2}$	$H(0.57)$	92.94	93.00 ± 0.74
$\boldsymbol{y_{cal}}$	1.00011	1.0002 ± 0.0025	$10^9 A_s$	2.142	2.137 ± 0.056	$D_A(0.57)$	1386.9	1386 ± 12
$\boldsymbol{A_{217}^{CIB}}$	67.6	64.5 ± 6.5	$10^9 A_s e^{-2\tau}$	1.8721	1.874 ± 0.014	$F_{AP}(0.57)$	0.67505	0.6752 ± 0.0019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1223.0	1225 ± 14	$f\sigma_8(0.57)$	0.4730	0.4727 ± 0.0054
$\boldsymbol{A_{143}^{tSZ}}$	7.18	5.07 ± 2.0	D_{220}	5713.5	5719 ± 42	$\sigma_8(0.57)$	0.6071	0.6066 ± 0.0081
$\boldsymbol{A_{100}^{PS}}$	254.8	260 ± 28	D_{810}	2531.7	2532 ± 14	f_{2000}^{143}	30.07	30.5 ± 2.9
$\boldsymbol{A_{143}^{PS}}$	39.4	44 ± 8	D_{1420}	814.5	814.6 ± 5.1	$f_{2000}^{143\times217}$	32.63	32.7 ± 2.1
$\boldsymbol{A_{143\times217}^{PS}}$	32.7	38^{+10}_{-10}	D_{2000}	230.17	230.1 ± 1.9	f_{2000}^{217}	106.14	106.3 ± 2.0
$\boldsymbol{A_{217}^{PS}}$	96.9	96 ± 10	$n_{s,0.002}$	0.9686	0.9678 ± 0.0063	$\chi^2_{lensing}$	9.24	9.87 ± 1.5
$\boldsymbol{A^{kSZ}}$	0.00	< 4.97	Y_P	0.245348	$0.24535^{+0.00012}_{-0.00011}$	χ^2_{lowTEB}	10494.74	10495.5 ± 1.4
$\boldsymbol{A_{100}^{dustTT}}$	7.37	7.51 ± 1.8	Y_P^{BBN}	0.246675	$0.24667^{+0.00012}_{-0.00011}$	χ^2_{plik}	766.2	779.7 ± 5.5
$\boldsymbol{A_{143}^{dustTT}}$	9.10	9.05 ± 1.8	10^5D/H	2.6105	$2.611^{+0.044}_{-0.050}$	χ^2_{6DF}	0.0102	0.060 ± 0.084
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.72	17.2 ± 4.2	Age/Gyr	13.815	13.81 ± 0.10	χ^2_{MGS}	1.41	1.49 ± 0.63
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.4	z_*	1089.901	1089.92 ± 0.44	$\chi^2_{DR11CMASS}$	2.43	3.13 ± 1.1
$\boldsymbol{c_{100}}$	0.99791	0.99788 ± 0.00078	r_*	144.951	$144.90^{+0.46}_{-0.51}$	$\chi^2_{DR11LOWZ}$	0.489	0.68 ± 0.67
$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0014	$100\theta_*$	1.041246	1.04122 ± 0.00047	χ^2_{prior}	2.07	7.41 ± 3.6
H_0	67.72	67.74 ± 0.73	D_A/Gpc	13.9209	$13.916^{+0.042}_{-0.047}$	χ^2_{CMB}	11270.1	11285.1 ± 5.5
Ω_Λ	0.6925	0.6919 ± 0.0078	z_{drag}	1059.589	1059.60 ± 0.48	χ^2_{BAO}	4.34	5.36 ± 1.5
Ω_m	0.3079	0.3083 ± 0.0075	r_{drag}	147.656	$147.60^{+0.45}_{-0.51}$			
$\Omega_m h^2$	0.14121	0.1414 ± 0.0020	k_D	0.14020	0.14025 ± 0.00050			

Best-fit $\chi^2_{eff} = 11276.56$; $\bar{\chi}^2_{eff} = 11297.85$; $R - 1 = 0.02254$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.43 DR11LOWZ: 0.49 CMB - smica_g30_ftl_full_pp: 9.24 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.74 plik_dx11dr2_HM_v18_TT: 766.17

19.9 base_omegak_plikHM_TTTEEE_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022314	0.02229 ± 0.00016	$\boldsymbol{A_{143}^{dustTE}}$	0.154	0.155 ± 0.054	r_*	144.703	144.66 ± 0.33
$\boldsymbol{\Omega_c h^2}$	0.11912	0.1194 ± 0.0015	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.336	0.338 ± 0.080	$100\theta_*$	1.041020	1.04102 ± 0.00032
$\boldsymbol{100\theta_{MC}}$	1.040826	1.04082 ± 0.00033	$\boldsymbol{A_{217}^{dustTE}}$	1.662	1.66 ± 0.26	D_A/Gpc	13.9001	13.896 ± 0.030
$\boldsymbol{\tau}$	0.0855	0.081 ± 0.017	$\boldsymbol{c_{100}}$	0.99821	0.99817 ± 0.00077	z_{drag}	1059.742	$1059.70^{+0.32}_{-0.29}$
$\boldsymbol{\Omega_K}$	−0.00005	0.0002 ± 0.0021	$\boldsymbol{c_{217}}$	0.99589	0.9959 ± 0.0015	r_{drag}	147.388	147.35 ± 0.32
$\boldsymbol{\ln(10^{10}A_s)}$	3.1039	3.097 ± 0.032	H_0	67.57	67.58 ± 0.70	k_D	0.140512	0.14053 ± 0.00033
$\boldsymbol{n_s}$	0.96692	0.9657 ± 0.0049	Ω_Λ	0.6888	0.6881 ± 0.0065	$100\theta_D$	0.160850	0.16088 ± 0.00018
$\boldsymbol{y_{cal}}$	1.00018	1.0004 ± 0.0025	Ω_m	0.3112	0.3117 ± 0.0070	z_{eq}	3379.7	3385 ± 34
$\boldsymbol{A_{217}^{CIB}}$	65.1	63.7 ± 6.6	$\Omega_m h^2$	0.14207	0.1423 ± 0.0014	k_{eq}	0.010315	0.01033 ± 0.00010
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.26	—	$\Omega_m h^3$	0.09599	0.0962 ± 0.0014	$100\theta_{eq}$	0.8171	0.8161 ± 0.0064
$\boldsymbol{A_{143}^{tSZ}}$	7.09	5.35 ± 1.9	σ_8	0.8334	0.831 ± 0.013	$100\theta_{s,eq}$	0.45141	0.4509 ± 0.0033
$\boldsymbol{A_{100}^{PS}}$	252.9	260 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4649	0.4640 ± 0.0085	$r_{drag}/D_V(0.57)$	0.07158	0.07159 ± 0.00053
$\boldsymbol{A_{143}^{PS}}$	41.5	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6224	0.621 ± 0.010	$H(0.57)$	92.98	93.03 ± 0.64
$\boldsymbol{A_{143\times217}^{PS}}$	39.7	40 ± 10	$\sigma_8/h^{0.5}$	1.0138	1.011 ± 0.016	$D_A(0.57)$	1388.3	1388 ± 12
$\boldsymbol{A_{217}^{PS}}$	100.1	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5072	2.501 ± 0.038	$F_{AP}(0.57)$	0.67595	0.6761 ± 0.0017
$\boldsymbol{A^{kSZ}}$	0.00	< 4.07	z_{re}	10.62	$10.2^{+1.6}_{-1.4}$	$f\sigma_8(0.57)$	0.4845	0.4832 ± 0.0077
$\boldsymbol{A_{100}^{dustTT}}$	7.38	7.41 ± 1.9	10^9A_s	2.229	2.213 ± 0.072	$\sigma_8(0.57)$	0.6200	0.618 ± 0.010
$\boldsymbol{A_{143}^{dustTT}}$	8.94	8.92 ± 1.8	$10^9A_se^{-2\tau}$	1.8782	1.880 ± 0.012	f_{2000}^{143}	28.64	29.4 ± 2.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.0 ± 4.1	D_{40}	1237.1	1239 ± 14	$f_{2000}^{143\times217}$	31.72	32.1 ± 1.9
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.7 ± 7.4	D_{220}	5726.6	5731 ± 40	f_{2000}^{217}	105.26	105.7 ± 1.9
$\boldsymbol{A_{100}^{dustEE}}$	0.0815	0.0813 ± 0.0057	D_{810}	2534.6	2535 ± 14	χ^2_{lowTEB}	10497.29	10497.7 ± 2.2
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0491	0.0490 ± 0.0050	D_{1420}	814.92	814.9 ± 4.8	χ^2_{plik}	2431.1	2450.5 ± 6.8
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0996	0.099 ± 0.033	D_{2000}	230.82	230.5 ± 1.7	χ^2_{6DF}	0.0342	0.08 ± 0.10
$\boldsymbol{A_{143}^{dustEE}}$	0.1005	0.1003 ± 0.0069	$n_{s,0.002}$	0.96692	0.9657 ± 0.0049	χ^2_{MGS}	1.22	1.26 ± 0.58
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2239	0.223 ± 0.046	Y_P	0.245368	$0.245355^{+0.000078}_{-0.000070}$	$\chi^2_{DR11CMASS}$	2.53	3.18 ± 1.2
$\boldsymbol{A_{217}^{dustEE}}$	0.652	0.65 ± 0.13	Y_P^{BBN}	0.246695	$0.246681^{+0.000078}_{-0.000071}$	$\chi^2_{DR11LOWZ}$	0.72	0.90 ± 0.77
$\boldsymbol{A_{100}^{dustTE}}$	0.1409	0.141 ± 0.038	10^5D/H	2.6019	2.607 ± 0.030	χ^2_{prior}	6.82	19.2 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1311	0.132 ± 0.029	Age/Gyr	13.804	13.797 ± 0.084	χ^2_{CMB}	12928.4	12948.2 ± 6.7
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.302	0.302 ± 0.084	z_*	1089.914	1089.97 ± 0.30	χ^2_{BAO}	4.51	5.43 ± 1.6

Best-fit $\chi^2_{eff} = 12939.67$; $\bar{\chi}^2_{eff} = 12972.91$; $R - 1 = 0.00709$

χ^2_{eff}: BAO - 6DF: 0.03 MGS: 1.22 DR11CMASS: 2.53 DR11LOWZ: 0.72 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.29 plik_dx11dr2_HM_v18_TTTEEE: 2431.05

19.10 base_omegak_plikHM_TTTEEE_lowTEB_BAO_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022273	0.02227 ± 0.00015	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.338 ± 0.081	D_A/Gpc	13.9006	13.900 ± 0.030
$\boldsymbol{\Omega_c h^2}$	0.11920	0.1193 ± 0.0015	$\boldsymbol{A^{dustTE}_{217}}$	1.671	1.66 ± 0.25	z_{drag}	1059.666	1059.64 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040857	1.04085 ± 0.00032	$\boldsymbol{c_{100}}$	0.99813	0.99813 ± 0.00076	r_{drag}	147.411	147.41 ± 0.32
$\boldsymbol{\tau}$	0.0645	0.064 ± 0.012	$\boldsymbol{c_{217}}$	0.99610	0.9961 ± 0.0014	k_D	0.140454	0.14045 ± 0.00033
$\boldsymbol{\Omega_K}$	0.00043	0.0004 ± 0.0020	H_0	67.75	67.72 ± 0.68	$100\theta_D$	0.160910	0.16092 ± 0.00017
$\boldsymbol{\ln(10^{10}A_s)}$	3.0610	3.060 ± 0.023	Ω_Λ	0.6899	$0.6895^{+0.0067}_{-0.0060}$	z_{eq}	3380.7	3382 ± 34
$\boldsymbol{n_s}$	0.96604	0.9654 ± 0.0048	Ω_m	0.3097	0.3101 ± 0.0067	k_{eq}	0.010318	0.01032 ± 0.00010
$\boldsymbol{y_{cal}}$	0.99987	$1.0001^{+0.0027}_{-0.0023}$	$\Omega_m h^2$	0.14212	0.1422 ± 0.0014	$100\theta_{eq}$	0.8168	0.8166 ± 0.0064
$\boldsymbol{A^{CIB}_{217}}$	67.8	64.5 ± 6.6	$\Omega_m h^3$	0.09628	0.0963 ± 0.0014	$100\theta_{s,eq}$	0.45130	0.4512 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	σ_8	0.8162	0.8159 ± 0.0092	$r_{drag}/D_V(0.57)$	0.07173	0.07171 ± 0.00052
$\boldsymbol{A^{tSZ}_{143}}$	7.18	5.28 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4542	0.4543 ± 0.0058	$H(0.57)$	93.13	93.12 ± 0.63
$\boldsymbol{A^{PS}_{100}}$	257.2	262 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6088	0.6088 ± 0.0066	$D_A(0.57)$	1385.3	1386 ± 11
$\boldsymbol{A^{PS}_{143}}$	39.1	44 ± 8	$\sigma_8/h^{0.5}$	0.9916	0.991 ± 0.010	$F_{AP}(0.57)$	0.67562	0.6757 ± 0.0016
$\boldsymbol{A^{PS}_{143\times217}}$	33.1	39^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4533	2.454 ± 0.024	$f\sigma_8(0.57)$	0.47397	0.4739 ± 0.0050
$\boldsymbol{A^{PS}_{217}}$	96.5	97 ± 10	z_{re}	8.70	$8.58^{+1.3}_{-1.1}$	$\sigma_8(0.57)$	0.6076	0.6073 ± 0.0076
$\boldsymbol{A^{kSZ}}$	0.00	< 4.61	$10^9 A_s$	2.1349	2.133 ± 0.048	f^{143}_{2000}	29.71	30.2 ± 2.6
$\boldsymbol{A^{dustTT}_{100}}$	7.37	7.45 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8765	1.878 ± 0.012	$f^{143\times217}_{2000}$	32.45	32.7 ± 1.8
$\boldsymbol{A^{dustTT}_{143}}$	9.07	8.99 ± 1.8	D_{40}	1228.8	1231 ± 13	f^{217}_{2000}	105.97	106.3 ± 1.9
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.67	17.3 ± 4.2	D_{220}	5718.7	5726 ± 38	$\chi^2_{lensing}$	9.73	10.3 ± 1.8
$\boldsymbol{A^{dustTT}_{217}}$	81.9	82.0 ± 7.6	D_{810}	2533.2	2534 ± 13	χ^2_{lowTEB}	10495.32	10495.9 ± 1.2
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0812 ± 0.0058	D_{1420}	814.48	814.6 ± 4.7	χ^2_{plik}	2434.9	2453.2 ± 6.6
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0489	0.0490 ± 0.0050	D_{2000}	230.10	230.0 ± 1.6	χ^2_{6DF}	0.0157	0.062 ± 0.086
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0989	0.098 ± 0.033	$n_{s,0.002}$	0.96604	0.9654 ± 0.0048	χ^2_{MGS}	1.34	1.40 ± 0.58
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1004 ± 0.0069	Y_P	0.245350	0.245345 ± 0.000070	$\chi^2_{DR11CMASS}$	2.39	3.03 ± 0.98
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2231	0.224 ± 0.047	Y_P^{BBN}	0.246676	0.246671 ± 0.000070	$\chi^2_{DR11LOWZ}$	0.535	0.73 ± 0.66
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	10^5D/H	2.6097	2.611 ± 0.029	χ^2_{prior}	7.08	19.5 ± 5.7
$\boldsymbol{A^{dustTE}_{100}}$	0.1394	0.142 ± 0.038	Age/Gyr	13.785	13.786 ± 0.084	χ^2_{CMB}	12940.0	12959.4 ± 6.6
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1314	0.132 ± 0.029	z_*	1089.971	1089.99 ± 0.29	χ^2_{BAO}	4.28	5.22 ± 1.4
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.298 ± 0.084	r_*	144.713	144.70 ± 0.33			
$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.156 ± 0.054	$100\theta_*$	1.041057	1.04104 ± 0.00031			

Best-fit $\chi^2_{eff} = 12951.33$; $\bar{\chi}^2_{eff} = 12984.11$; $R - 1 = 0.03333$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.34 DR11CMASS: 2.39 DR11LOWZ: 0.54 CMB - smica_g30_ftl_full_pp: 9.73 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.33 plik_dx11dr2_HM_v18_TTT

19.11 base_omegak_plikHM_TT_lowTEB_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022336	0.02230 ± 0.00024	$\Omega_m h^2$	0.14157	0.1417 ± 0.0021	$100\theta_D$	0.160875	0.16091 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.11859	0.1188 ± 0.0023	$\Omega_m h^3$	0.09607	0.0961 ± 0.0019	z_{eq}	3368	3372 ± 51
$\boldsymbol{100\theta_{MC}}$	1.041075	1.04099 ± 0.00049	σ_8	0.8289	0.829 ± 0.015	k_{eq}	0.010278	0.01029 ± 0.00016
$\boldsymbol{\tau}$	0.0822	0.081 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.4596	0.460 ± 0.010	$100\theta_{eq}$	0.8196	0.8188 ± 0.0099
$\boldsymbol{\Omega_K}$	−0.00003	0.0001 ± 0.0027	$\sigma_8\Omega_m^{0.25}$	0.6172	0.618 ± 0.012	$100\theta_{s,eq}$	0.4527	0.4523 ± 0.0051
$\boldsymbol{\ln(10^{10}A_s)}$	3.0961	3.095 ± 0.037	$\sigma_8/h^{0.5}$	1.0062	1.007 ± 0.018	$r_{drag}/D_V(0.57)$	0.07181	0.07177 ± 0.00052
$\boldsymbol{n_s}$	0.9683	0.9679 ± 0.0065	$\langle d^2\rangle^{1/2}$	2.4879	2.489 ± 0.043	$H(0.57)$	93.11	93.10 ± 0.73
$\boldsymbol{y_{cal}}$	1.00055	1.0004 ± 0.0025	z_{re}	10.31	$10.2^{+1.8}_{-1.6}$	$D_A(0.57)$	1384.2	1385 ± 12
$\boldsymbol{\alpha_{JLA}}$	0.1411	0.1412 ± 0.0066	$10^9 A_s$	2.211	2.210 ± 0.082	$F_{AP}(0.57)$	0.67498	0.6752 ± 0.0019
$\boldsymbol{\beta_{JLA}}$	3.099	3.103 ± 0.081	$10^9 A_s e^{-2\tau}$	1.8760	1.876 ± 0.014	$f\sigma_8(0.57)$	0.4809	0.4812 ± 0.0089
$\boldsymbol{A_{217}^{CIB}}$	67.0	63.7 ± 6.7	D_{40}	1231.6	1233 ± 16	$\sigma_8(0.57)$	0.6176	0.618 ± 0.011
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	D_{220}	5725.7	5723 ± 41	f_{2000}^{143}	29.28	29.6 ± 3.0
$\boldsymbol{A_{143}^{tSZ}}$	7.18	5.22 ± 1.9	D_{810}	2534.5	2533 ± 14	$f_{2000}^{143\times217}$	31.98	32.1 ± 2.2
$\boldsymbol{A_{100}^{PS}}$	252.7	257 ± 28	D_{1420}	815.5	815.1 ± 5.1	f_{2000}^{217}	105.67	105.7 ± 2.1
$\boldsymbol{A_{143}^{PS}}$	38.0	43 ± 8	D_{2000}	230.93	230.6 ± 1.9	χ^2_{lowTEB}	10496.39	10497.3 ± 2.5
$\boldsymbol{A_{143\times217}^{PS}}$	32.1	39 ± 10	$n_{s,0.002}$	0.9683	0.9679 ± 0.0065	χ^2_{plik}	763.4	777.6 ± 5.8
$\boldsymbol{A_{217}^{PS}}$	97.0	97 ± 10	Y_P	0.245378	0.24536 ± 0.00011	χ^2_{H070p6}	0.679	0.75 ± 0.35
$\boldsymbol{A^{kSZ}}$	0.00	< 4.43	Y_P^{BBN}	0.246704	0.24669 ± 0.00011	χ^2_{JLA}	695.21	697.3 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.35	7.43 ± 1.9	10^5D/H	2.5978	2.604 ± 0.046	χ^2_{6DF}	0.0061	0.055 ± 0.077
$\boldsymbol{A_{143}^{dustTT}}$	9.02	8.99 ± 1.8	Age/Gyr	13.791	13.79 ± 0.10	χ^2_{MGS}	1.47	1.49 ± 0.60
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.45	17.1 ± 4.1	z_*	1089.838	1089.90 ± 0.46	$\chi^2_{DR11CMASS}$	2.41	3.05 ± 0.93
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.8 ± 7.3	r_*	144.82	144.80 ± 0.51	$\chi^2_{DR11LOWZ}$	0.426	0.65 ± 0.62
$\boldsymbol{c_{100}}$	0.99791	0.99791 ± 0.00078	$100\theta_*$	1.041266	1.04119 ± 0.00048	χ^2_{prior}	2.10	7.30 ± 3.5
$\boldsymbol{c_{217}}$	0.99592	0.9959 ± 0.0015	D_A/Gpc	13.9084	13.907 ± 0.046	χ^2_{CMB}	11259.8	11274.9 ± 5.6
H_0	67.86	67.80 ± 0.70	z_{drag}	1059.742	1059.69 ± 0.49	χ^2_{BAO}	4.31	5.24 ± 1.3
Ω_Λ	0.6926	0.6915 ± 0.0078	r_{drag}	147.506	147.49 ± 0.50			
Ω_m	0.3074	0.3084 ± 0.0073	k_D	0.14040	0.14039 ± 0.00052			

Best-fit $\chi^2_{eff} = 11962.09$; $\bar{\chi}^2_{eff} = 11985.52$; $R - 1 = 0.00926$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.41 DR11LOWZ: 0.43 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.39 plik_dx11dr2_HM_v18_TT: 763.40 Hubble - H070p6: 0.68 SN - JLA December_2013: 695.21

19.12 base_omegak_plikHM_TT_lowTEB_BAO_H070p6_JLA_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022318	0.02228 ± 0.00024	$\Omega_m h^2$	0.14107	0.1413 ± 0.0021	$100\theta_D$	0.160911	0.16096 ± 0.00026
$\boldsymbol{\Omega_c h^2}$	0.11811	0.1184 ± 0.0022	$\Omega_m h^3$	0.09593	0.0959 ± 0.0018	z_{eq}	3355.7	3361 ± 50
$\boldsymbol{100\theta_{MC}}$	1.041050	1.04105 ± 0.00050	σ_8	0.8160	0.8152 ± 0.0099	k_{eq}	0.010242	0.01026 ± 0.00015
$\boldsymbol{\tau}$	0.0696	0.067 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.4507	0.4514 ± 0.0067	$100\theta_{eq}$	0.8217	0.8208 ± 0.0096
$\boldsymbol{\Omega_K}$	−0.00004	-0.0001 ± 0.0026	$\sigma_8\Omega_m^{0.25}$	0.6065	0.6066 ± 0.0074	$100\theta_{s,eq}$	0.45378	0.4534 ± 0.0049
$\boldsymbol{\ln(10^{10}A_s)}$	3.0678	3.064 ± 0.026	$\sigma_8/h^{0.5}$	0.9896	0.989 ± 0.011	$r_{drag}/D_V(0.57)$	0.07194	0.07186 ± 0.00052
$\boldsymbol{n_s}$	0.9696	0.9683 ± 0.0064	$\langle d^2\rangle^{1/2}$	2.4462	2.447 ± 0.026	$H(0.57)$	93.14	93.09 ± 0.73
$\boldsymbol{y_{cal}}$	0.99971	1.0001 ± 0.0025	z_{re}	9.15	$8.88^{+1.5}_{-1.2}$	$D_A(0.57)$	1382.6	1384 ± 12
$\boldsymbol{\alpha_{JLA}}$	0.1411	0.1414 ± 0.0066	$10^9 A_s$	2.150	2.143 ± 0.056	$F_{AP}(0.57)$	0.67438	0.6748 ± 0.0019
$\boldsymbol{\beta_{JLA}}$	3.100	3.104 ± 0.081	$10^9 A_s e^{-2\tau}$	1.8702	1.873 ± 0.014	$f\sigma_8(0.57)$	0.4728	0.4727 ± 0.0055
$\boldsymbol{A_{217}^{CIB}}$	66.8	64.5 ± 6.6	D_{40}	1221.5	1224 ± 15	$\sigma_8(0.57)$	0.6086	0.6076 ± 0.0080
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	D_{220}	5709.6	5718 ± 41	f_{2000}^{143}	29.38	30.3 ± 2.9
$\boldsymbol{A_{143}^{tSZ}}$	7.15	5.06 ± 2.0	D_{810}	2530.7	2532 ± 14	$f_{2000}^{143\times217}$	32.08	32.7 ± 2.1
$\boldsymbol{A_{100}^{PS}}$	250.8	259 ± 28	D_{1420}	814.8	814.7 ± 5.1	f_{2000}^{217}	105.72	106.2 ± 2.0
$\boldsymbol{A_{143}^{PS}}$	38.3	44^{+9}_{-8}	D_{2000}	230.39	230.1 ± 1.9	$\chi^2_{lensing}$	9.20	9.84 ± 1.5
$\boldsymbol{A_{143\times217}^{PS}}$	32.3	38^{+10}_{-10}	$n_{s,0.002}$	0.9696	0.9683 ± 0.0064	χ^2_{lowTEB}	10494.75	10495.4 ± 1.4
$\boldsymbol{A_{217}^{PS}}$	97.2	96 ± 10	Y_P	0.245370	0.24535 ± 0.00011	χ^2_{plik}	765.9	779.8 ± 5.6
$\boldsymbol{A^{kSZ}}$	0.03	< 4.98	Y_P^{BBN}	0.246696	0.24668 ± 0.00011	χ^2_{H070p6}	0.614	0.71 ± 0.34
$\boldsymbol{A_{100}^{dustTT}}$	7.52	7.51 ± 1.9	10^5D/H	2.6011	2.609 ± 0.045	χ^2_{JLA}	695.16	697.3 ± 2.0
$\boldsymbol{A_{143}^{dustTT}}$	9.05	9.11 ± 1.8	Age/Gyr	13.793	13.80 ± 0.10	χ^2_{6DF}	0.0002	0.047 ± 0.066
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.67	17.3 ± 4.2	z_*	1089.818	1089.89 ± 0.44	χ^2_{MGS}	1.68	1.62 ± 0.61
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.9 ± 7.4	r_*	144.962	144.93 ± 0.49	$\chi^2_{DR11CMASS}$	2.46	3.04 ± 0.90
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00079	$100\theta_*$	1.041244	1.04125 ± 0.00048	$\chi^2_{DR11LOWZ}$	0.290	0.54 ± 0.55
$\boldsymbol{c_{217}}$	0.99600	0.9960 ± 0.0015	D_A/Gpc	13.9220	13.919 ± 0.045	χ^2_{prior}	2.10	7.43 ± 3.5
H_0	68.00	67.89 ± 0.69	z_{drag}	1059.666	1059.61 ± 0.47	χ^2_{CMB}	11269.9	11285.1 ± 5.6
Ω_Λ	0.6950	0.6934 ± 0.0076	r_{drag}	147.653	147.63 ± 0.48	χ^2_{BAO}	4.43	5.24 ± 1.3
Ω_m	0.3051	0.3066 ± 0.0071	k_D	0.14024	0.14023 ± 0.00050			

Best-fit $\chi^2_{eff} = 11972.16$; $\bar{\chi}^2_{eff} = 11995.77$; $R - 1 = 0.02258$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.68 DR11CMASS: 2.46 DR11LOWZ: 0.29 CMB - smica_g30_ftl_full_pp: 9.20 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.75 plik_dx11dr2_HM_v18_TT: 765.90 Hubble - H070p6: 0.61 SN - JLA December_2013: 695.16

19.13 base_omegak_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022305	0.02229 ± 0.00016	$\boldsymbol{A_{143}^{\mathrm{dust}TE}}$	0.155	0.155 ± 0.054	D_A/Gpc	13.9016	13.896 ± 0.030
$\boldsymbol{\Omega_c h^2}$	0.11909	0.1193 ± 0.0015	$\boldsymbol{A_{143\times217}^{\mathrm{dust}TE}}$	0.337	0.338 ± 0.080	z_{drag}	1059.704	1059.71 ± 0.32
$\boldsymbol{100\theta_{MC}}$	1.040820	1.04083 ± 0.00032	$\boldsymbol{A_{217}^{\mathrm{dust}TE}}$	1.664	1.67 ± 0.25	r_{drag}	147.407	147.35 ± 0.32
$\boldsymbol{\tau}$	0.0841	0.082 ± 0.017	$\boldsymbol{c_{100}}$	0.99819	0.99818 ± 0.00077	k_D	0.140486	0.14053 ± 0.00033
$\boldsymbol{\Omega_K}$	0.00033	0.0006 ± 0.0020	$\boldsymbol{c_{217}}$	0.99594	0.9959 ± 0.0014	$100\theta_D$	0.160862	0.16087 ± 0.00018
$\boldsymbol{\ln(10^{10}A_s)}$	3.1013	3.097 ± 0.033	H_0	67.75	67.78 ± 0.66	z_{eq}	3378.8	3385 ± 33
$\boldsymbol{n_s}$	0.96686	0.9657 ± 0.0048	Ω_Λ	0.6902	0.6896 ± 0.0061	k_{eq}	0.010312	0.01033 ± 0.00010
$\boldsymbol{y_{cal}}$	1.00033	1.0004 ± 0.0025	Ω_m	0.3094	0.3098 ± 0.0065	$100\theta_{\mathrm{eq}}$	0.8172	0.8162 ± 0.0063
$\boldsymbol{\alpha_{JLA}}$	0.1412	0.1413 ± 0.0066	$\Omega_m h^2$	0.14204	0.1423 ± 0.0014	$100\theta_{s,\mathrm{eq}}$	0.45149	0.4510 ± 0.0032
$\boldsymbol{\beta_{JLA}}$	3.099	3.103 ± 0.081	$\Omega_m h^3$	0.09623	0.0964 ± 0.0014	$r_{\mathrm{drag}}/D_V(0.57)$	0.07172	0.07174 ± 0.00050
$\boldsymbol{A_{217}^{\mathrm{CIB}}}$	65.1	63.7 ± 6.6	σ_8	0.8324	0.831 ± 0.013	$H(0.57)$	93.12	93.18 ± 0.61
$\boldsymbol{\xi^{\mathrm{tSZ\times CIB}}}$	0.26	—	$\sigma_8\Omega_m^{0.5}$	0.4630	0.4627 ± 0.0087	$D_A(0.57)$	1385.3	1385 ± 11
$\boldsymbol{A_{143}^{\mathrm{tSZ}}}$	7.04	5.38 ± 1.9	$\sigma_8\Omega_m^{0.25}$	0.6208	0.620 ± 0.010	$F_{\mathrm{AP}}(0.57)$	0.67555	0.6757 ± 0.0016
$\boldsymbol{A_{100}^{\mathrm{PS}}}$	253.1	260 ± 27	$\sigma_8/h^{0.5}$	1.0113	1.010 ± 0.016	$f\sigma_8(0.57)$	0.4834	0.4828 ± 0.0079
$\boldsymbol{A_{143}^{\mathrm{PS}}}$	41.9	43 ± 8	$\langle d^2\rangle^{1/2}$	2.5011	2.498 ± 0.039	$\sigma_8(0.57)$	0.6198	0.619 ± 0.010
$\boldsymbol{A_{143\times217}^{PS}}$	39.9	40 ± 10	z_{re}	10.50	$10.2^{+1.6}_{-1.4}$	f_{2000}^{143}	28.79	29.3 ± 2.7
$\boldsymbol{A_{217}^{\mathrm{PS}}}$	100.5	98 ± 10	$10^9 A_s$	2.223	2.214 ± 0.072	$f_{2000}^{143\times217}$	31.86	32.1 ± 2.0
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.08	$10^9 A_s e^{-2\tau}$	1.8787	1.880 ± 0.012	f_{2000}^{217}	105.44	105.7 ± 1.9
$\boldsymbol{A_{100}^{\mathrm{dust}TT}}$	7.39	7.44 ± 1.9	D_{40}	1236.7	1239 ± 14	χ^2_{lowTEB}	10497.10	10497.8 ± 2.3
$\boldsymbol{A_{143}^{\mathrm{dust}TT}}$	8.93	8.90 ± 1.8	D_{220}	5727.0	5732 ± 38	χ^2_{plik}	2431.9	2450.9 ± 6.9
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TT}}$	17.80	16.9 ± 4.1	D_{810}	2535.3	2535 ± 13	χ^2_{H070p6}	0.734	0.76 ± 0.34
$\boldsymbol{A_{217}^{\mathrm{dust}TT}}$	82.3	81.6 ± 7.4	D_{1420}	815.19	814.9 ± 4.7	χ^2_{JLA}	695.26	697.3 ± 2.1
$\boldsymbol{A_{100}^{\mathrm{dust}EE}}$	0.0817	0.0812 ± 0.0057	D_{2000}	230.80	230.5 ± 1.6	χ^2_{6DF}	0.0155	0.056 ± 0.076
$\boldsymbol{A_{100\times143}^{\mathrm{dust}EE}}$	0.04921	0.0489 ± 0.0050	$n_{s,0.002}$	0.96686	0.9657 ± 0.0048	χ^2_{MGS}	1.34	1.42 ± 0.57
$\boldsymbol{A_{100\times217}^{\mathrm{dust}EE}}$	0.1003	0.0996 ± 0.033	Y_P	0.245364	0.245358 ± 0.000072	$\chi^2_{\mathrm{DR11CMASS}}$	2.40	2.97 ± 0.86
$\boldsymbol{A_{143}^{\mathrm{dust}EE}}$	0.1006	0.1003 ± 0.0069	Y_P^{BBN}	0.246691	0.246685 ± 0.000072	$\chi^2_{\mathrm{DR11LOWZ}}$	0.538	0.69 ± 0.62
$\boldsymbol{A_{143\times217}^{\mathrm{dust}EE}}$	0.2245	0.224 ± 0.047	$10^5\mathrm{D/H}$	2.6035	2.606 ± 0.030	χ^2_{prior}	6.84	19.2 ± 5.4
$\boldsymbol{A_{217}^{\mathrm{dust}EE}}$	0.656	0.65 ± 0.13	Age/Gyr	13.787	13.778 ± 0.081	χ^2_{CMB}	12929.0	12948.6 ± 6.7
$\boldsymbol{A_{100}^{\mathrm{dust}TE}}$	0.1412	0.141 ± 0.038	z_*	1089.920	1089.96 ± 0.30	χ^2_{BAO}	4.30	5.13 ± 1.2
$\boldsymbol{A_{100\times143}^{\mathrm{dust}TE}}$	0.1324	0.132 ± 0.029	r_*	144.717	144.66 ± 0.32			
$\boldsymbol{A_{100\times217}^{\mathrm{dust}TE}}$	0.301	0.304 ± 0.084	$100\theta_*$	1.041012	1.04102 ± 0.00032			

Best-fit $\chi^2_{\mathrm{eff}} = 13636.15$; $\bar{\chi}^2_{\mathrm{eff}} = 13671.07$; $R - 1 = 0.01192$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.02 MGS: 1.34 DR11CMASS: 2.40 DR11LOWZ: 0.54 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.10 plik_dx11dr2_HM_v18_TTTEEE: 2431.92 Hubble - H070p6: 0.73 SN - JLA December_2013: 695.26

19.14 base_omegak_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022282	0.02228 ± 0.00016	$\boldsymbol{A_{143}^{dust\,TE}}$	0.156	0.155 ± 0.053	D_A/Gpc	13.9014	13.901 ± 0.030
$\boldsymbol{\Omega_c h^2}$	0.11913	0.1192 ± 0.0015	$\boldsymbol{A_{143\times217}^{dust\,TE}}$	0.338	0.336 ± 0.079	z_{drag}	1059.666	1059.66 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040861	1.04086 ± 0.00032	$\boldsymbol{A_{217}^{dust\,TE}}$	1.662	1.66 ± 0.26	r_{drag}	147.419	147.42 ± 0.32
$\boldsymbol{\tau}$	0.0658	0.064 ± 0.012	$\boldsymbol{c_{100}}$	0.99816	0.99817 ± 0.00077	k_D	0.140456	$0.14045^{+0.00035}_{-0.00032}$
$\boldsymbol{\Omega_K}$	0.00081	0.0008 ± 0.0020	$\boldsymbol{c_{217}}$	0.99610	0.9960 ± 0.0015	$100\theta_D$	0.160898	0.16090 ± 0.00018
$\boldsymbol{\ln(10^{10} A_s)}$	3.0638	3.061 ± 0.023	H_0	67.97	67.94 ± 0.63	z_{eq}	3379.4	3380 ± 34
$\boldsymbol{n_s}$	0.96590	0.9654 ± 0.0048	Ω_Λ	0.6917	0.6913 ± 0.0060	k_{eq}	0.010314	0.01032 ± 0.00010
$\boldsymbol{y_{cal}}$	1.00009	1.0001 ± 0.0024	Ω_m	0.3075	0.3079 ± 0.0062	$100\theta_{eq}$	0.8171	0.8171 ± 0.0064
$\boldsymbol{\alpha_{JLA}}$	0.1412	0.1412 ± 0.0066	$\Omega_m h^2$	0.14206	0.1421 ± 0.0014	$100\theta_{s,eq}$	0.45143	0.4514 ± 0.0033
$\boldsymbol{\beta_{JLA}}$	3.102	3.104 ± 0.081	$\Omega_m h^3$	0.09655	0.0965 ± 0.0014	$r_{drag}/D_V(0.57)$	0.071896	0.07187 ± 0.00048
$\boldsymbol{A_{217}^{CIB}}$	68.1	64.8 ± 6.7	σ_8	0.8172	0.8162 ± 0.0092	$H(0.57)$	93.30	93.28 ± 0.60
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\sigma_8 \Omega_m^{0.5}$	0.4532	0.4529 ± 0.0060	$D_A(0.57)$	1381.8	1382 ± 11
$\boldsymbol{A_{143}^{tSZ}}$	7.29	5.25 ± 1.9	$\sigma_8 \Omega_m^{0.25}$	0.6086	0.6080 ± 0.0069	$F_{AP}(0.57)$	0.67514	0.6752 ± 0.0015
$\boldsymbol{A_{100}^{PS}}$	258.2	263 ± 27	$\sigma_8/h^{0.5}$	0.9913	0.990 ± 0.011	$f\sigma_8(0.57)$	0.4740	0.4735 ± 0.0051
$\boldsymbol{A_{143}^{PS}}$	38.7	44 ± 8	$\langle d^2 \rangle^{1/2}$	2.4533	2.451 ± 0.025	$\sigma_8(0.57)$	0.6089	0.6081 ± 0.0074
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	39^{+10}_{-10}	z_{re}	8.82	8.65 ± 1.2	f_{2000}^{143}	29.87	30.2 ± 2.7
$\boldsymbol{A_{217}^{PS}}$	96.2	96 ± 10	$10^9 A_s$	2.1408	$2.136^{+0.047}_{-0.052}$	$f_{2000}^{143\times217}$	32.59	32.7 ± 1.9
$\boldsymbol{A^{kSZ}}$	0.00	< 4.72	$10^9 A_s e^{-2\tau}$	1.8770	1.878 ± 0.012	f_{2000}^{217}	106.12	106.1 ± 1.8
$\boldsymbol{A_{100}^{dust\,TT}}$	7.46	7.47 ± 1.9	D_{40}	1230.4	1232 ± 12	$\chi^2_{lensing}$	9.67	10.2 ± 1.7
$\boldsymbol{A_{143}^{dust\,TT}}$	9.07	9.02 ± 1.8	D_{220}	5723.2	5728 ± 39	χ^2_{lowTEB}	10495.46	10495.9 ± 1.2
$\boldsymbol{A_{143\times217}^{dust\,TT}}$	17.60	17.1 ± 4.1	D_{810}	2533.9	2534 ± 13	χ^2_{plik}	2434.8	2453.8 ± 6.8
$\boldsymbol{A_{217}^{dust\,TT}}$	81.7	81.5 ± 7.4	D_{1420}	814.65	814.6 ± 4.7	χ^2_{H070p6}	0.628	0.68 ± 0.31
$\boldsymbol{A_{100}^{dust\,EE}}$	0.0813	0.0813 ± 0.0057	D_{2000}	230.15	230.0 ± 1.6	χ^2_{JLA}	695.21	697.3 ± 2.0
$\boldsymbol{A_{100\times143}^{dust\,EE}}$	0.0489	0.0490 ± 0.0050	$n_{s,0.002}$	0.96590	0.9654 ± 0.0048	χ^2_{6DF}	0.0032	0.043 ± 0.057
$\boldsymbol{A_{100\times217}^{dust\,EE}}$	0.0988	0.0999 ± 0.032	Y_P	0.245354	0.245351 ± 0.000073	χ^2_{MGS}	1.54	1.58 ± 0.57
$\boldsymbol{A_{143}^{dust\,EE}}$	0.1003	0.1002 ± 0.0070	Y_P^{BBN}	0.246681	0.246678 ± 0.000073	$\chi^2_{DR11CMASS}$	2.372	2.91 ± 0.74
$\boldsymbol{A_{143\times217}^{dust\,EE}}$	0.2244	0.224 ± 0.046	10^5D/H	2.6079	2.609 ± 0.030	$\chi^2_{DR11LOWZ}$	0.358	0.53 ± 0.51
$\boldsymbol{A_{217}^{dust\,EE}}$	0.650	0.65 ± 0.13	Age/Gyr	13.765	13.768 ± 0.079	χ^2_{prior}	7.10	19.2 ± 5.4
$\boldsymbol{A_{100}^{dust\,TE}}$	0.1401	0.141 ± 0.038	z_*	1089.956	1089.96 ± 0.30	χ^2_{CMB}	12940.0	12959.9 ± 6.7
$\boldsymbol{A_{100\times143}^{dust\,TE}}$	0.1305	0.132 ± 0.028	r_*	144.722	144.72 ± 0.33	χ^2_{BAO}	4.27	5.06 ± 1.0
$\boldsymbol{A_{100\times217}^{dust\,TE}}$	0.303	0.303 ± 0.085	$100\theta_*$	1.041059	1.04105 ± 0.00031			

Best-fit $\chi^2_{eff} = 13647.18$; $\bar{\chi}^2_{eff} = 13682.17$; $R - 1 = 0.04475$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.37 DR11LOWZ: 0.36 CMB - smica_g30_ftl_full_pp: 9.67 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.46 plik_dx11dr2_HM_v18_TTT
2434.84 Hubble - H070p6: 0.63 SN - JLA December_2013: 695.21

19.15 base_omegak_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022303	0.02231 ± 0.00023	$\Omega_{\rm m}$	0.3138	$0.327^{+0.029}_{-0.035}$	$D_{\rm A}$/Gpc	13.9227	13.926 ± 0.045
$\boldsymbol{\Omega_{\rm c}h^2}$	0.11813	0.1180 ± 0.0022	$\Omega_{\rm m}h^2$	0.14107	0.1409 ± 0.0021	$z_{\rm drag}$	1059.628	1059.64 ± 0.46
$\boldsymbol{100\theta_{\rm MC}}$	1.041043	1.04111 ± 0.00048	$\Omega_{\rm m}h^3$	0.0946	$0.0929^{+0.0047}_{-0.0054}$	$r_{\rm drag}$	147.666	147.71 ± 0.48
$\boldsymbol{\tau}$	0.0635	0.058 ± 0.020	σ_8	0.8104	0.804 ± 0.020	$k_{\rm D}$	0.140212	0.14017 ± 0.00050
$\boldsymbol{\Omega_K}$	−0.0020	$-0.0053^{+0.0089}_{-0.0075}$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4540	0.458 ± 0.013	$100\theta_{\rm D}$	0.160931	0.16095 ± 0.00026
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0567	3.046 ± 0.039	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6066	0.6068 ± 0.0076	$z_{\rm eq}$	3355.8	3352 ± 49
$\boldsymbol{n_{\rm s}}$	0.9690	0.9690 ± 0.0062	$\sigma_8/h^{0.5}$	0.9897	0.990 ± 0.011	$k_{\rm eq}$	0.010242	0.01023 ± 0.00015
$\boldsymbol{y_{\rm cal}}$	1.00026	1.0000 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4494	2.454 ± 0.029	$100\theta_{\rm eq}$	0.8216	0.8225 ± 0.0096
$\boldsymbol{A_{217}^{\rm CIB}}$	67.5	64.4 ± 6.6	$z_{\rm re}$	8.57	$7.93^{+2.3}_{-1.8}$	$100\theta_{\rm s,eq}$	0.45376	0.4542 ± 0.0049
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	$10^9A_{\rm s}$	2.126	2.104 ± 0.081	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07122	0.0704 ± 0.0024
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.20	5.09 ± 2.0	$10^9A_{\rm s}e^{-2\tau}$	1.8722	1.871 ± 0.014	$H(0.57)$	92.37	$91.5^{+2.5}_{-2.9}$
$\boldsymbol{A_{100}^{\rm PS}}$	253.7	259 ± 28	D_{40}	1220.8	1219 ± 17	$D_{\rm A}(0.57)$	1398	1419 ± 55
$\boldsymbol{A_{143}^{\rm PS}}$	38.9	44 ± 8	D_{220}	5718.6	5721 ± 41	$F_{\rm AP}(0.57)$	0.6763	$0.6790^{+0.0065}_{-0.0073}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	38 ± 10	D_{810}	2532.9	2531 ± 14	$f\sigma_8(0.57)$	0.4721	0.4710 ± 0.0058
$\boldsymbol{A_{217}^{\rm PS}}$	96.7	96 ± 10	D_{1420}	815.1	814.4 ± 5.1	$\sigma_8(0.57)$	0.6022	0.595 ± 0.021
$\boldsymbol{A^{\rm kSZ}}$	0.01	< 4.92	D_{2000}	230.42	230.2 ± 1.8	f_{2000}^{143}	29.84	30.2 ± 2.8
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.46	7.49 ± 1.9	$n_{\rm s,0.002}$	0.9690	0.9690 ± 0.0062	$f_{2000}^{143\times217}$	32.45	32.6 ± 2.0
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.10	9.05 ± 1.8	$Y_{\rm P}$	0.245363	0.24536 ± 0.00011	f_{2000}^{217}	106.01	106.1 ± 2.0
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.78	17.2 ± 4.2	$Y_{\rm P}^{\rm BBN}$	0.246690	0.24669 ± 0.00011	$\chi^2_{\rm lensing}$	9.34	10.5 ± 2.2
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	82.1	81.6 ± 7.4	10^5D/H	2.6040	2.604 ± 0.044	$\chi^2_{\rm lowTEB}$	10494.34	10495.3 ± 1.9
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00079	Age/Gyr	13.887	14.02 ± 0.35	$\chi^2_{\rm plik}$	766.2	779.9 ± 5.6
$\boldsymbol{c_{217}}$	0.99599	0.9960 ± 0.0014	z_*	1089.840	1089.83 ± 0.44	$\chi^2_{\rm prior}$	2.11	7.39 ± 3.6
H_0	67.05	65.9 ± 3.2	r_*	144.969	145.01 ± 0.49	$\chi^2_{\rm CMB}$	11269.9	11285.7 ± 5.6
Ω_Λ	0.6882	$0.679^{+0.027}_{-0.022}$	$100\theta_*$	1.041242	1.04130 ± 0.00047			

Best-fit $\chi^2_{\rm eff} = 11272.04$; $\bar{\chi}^2_{\rm eff} = 11293.13$; $R-1 = 0.00816$
$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.34 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.34 plik_dx11dr2_HM_v18_TT: 766.24

19.16 base_omegak_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022252	0.02228 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.303 ± 0.085	Age/Gyr	13.903	13.96 ± 0.33
$\boldsymbol{\Omega_c h^2}$	0.11918	0.1190 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.155 ± 0.054	z_*	1089.996	1089.95 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040846	1.04089 ± 0.00033	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.337 ± 0.080	r_*	144.733	144.75 ± 0.33
$\boldsymbol{\tau}$	0.0584	0.056 ± 0.019	$\boldsymbol{A^{dustTE}_{217}}$	1.668	1.66 ± 0.25	$100\theta_*$	1.041038	1.04108 ± 0.00032
$\boldsymbol{\Omega_K}$	-0.0020	$-0.0037^{+0.0083}_{-0.0069}$	$\boldsymbol{c_{100}}$	0.99817	0.99813 ± 0.00078	D_A/Gpc	13.9027	13.904 ± 0.030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0486	3.045 ± 0.037	$\boldsymbol{c_{217}}$	0.99604	0.9960 ± 0.0015	z_{drag}	1059.589	1059.66 ± 0.31
$\boldsymbol{n_s}$	0.96594	0.9659 ± 0.0048	H_0	66.56	66.2 ± 3.1	r_{drag}	147.440	147.45 ± 0.32
$\boldsymbol{y_{cal}}$	0.99983	1.0001 ± 0.0025	Ω_Λ	0.6813	$0.677^{+0.026}_{-0.022}$	k_D	0.140409	0.14042 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	67.9	64.7 ± 6.6	Ω_m	0.3207	$0.326^{+0.028}_{-0.034}$	$100\theta_D$	0.160936	0.16091 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14208	0.1420 ± 0.0014	z_{eq}	3379.9	3377 ± 34
$\boldsymbol{A^{tSZ}_{143}}$	7.35	5.31 ± 1.9	$\Omega_m h^3$	0.09457	$0.0939^{+0.0045}_{-0.0051}$	k_{eq}	0.010316	0.01031 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	257.5	262 ± 28	σ_8	0.8097	0.807 ± 0.019	$100\theta_{eq}$	0.8169	0.8176 ± 0.0065
$\boldsymbol{A^{PS}_{143}}$	38.5	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4586	0.460 ± 0.013	$100\theta_{s,eq}$	0.45136	0.4517 ± 0.0033
$\boldsymbol{A^{PS}_{143\times217}}$	32.5	39^{+10}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6093	0.6091 ± 0.0067	$r_{drag}/D_V(0.57)$	0.07084	0.0705 ± 0.0024
$\boldsymbol{A^{PS}_{217}}$	96.4	96 ± 10	$\sigma_8/h^{0.5}$	0.9925	0.992 ± 0.010	$H(0.57)$	92.18	$91.9^{+2.4}_{-2.8}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.62	$\langle d^2\rangle^{1/2}$	2.4571	2.459 ± 0.027	$D_A(0.57)$	1405	1413 ± 53
$\boldsymbol{A^{dustTT}_{100}}$	7.50	7.50 ± 1.9	z_{re}	8.10	$7.77^{+2.2}_{-1.7}$	$F_{AP}(0.57)$	0.6781	$0.6791^{+0.0064}_{-0.0071}$
$\boldsymbol{A^{dustTT}_{143}}$	9.08	9.05 ± 1.8	$10^9 A_s$	2.109	2.102 ± 0.079	$f\sigma_8(0.57)$	0.4734	0.4725 ± 0.0053
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.67	17.3 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8760	1.877 ± 0.012	$\sigma_8(0.57)$	0.6001	0.597 ± 0.021
$\boldsymbol{A^{dustTT}_{217}}$	81.8	81.7 ± 7.4	D_{40}	1225.8	1227 ± 15	f^{143}_{2000}	29.83	30.1 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0815 ± 0.0056	D_{220}	5716.6	5727 ± 38	$f^{143\times217}_{2000}$	32.54	32.6 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04912	0.0491 ± 0.0050	D_{810}	2532.6	2533 ± 14	f^{217}_{2000}	106.04	106.1 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0995	0.099 ± 0.032	D_{1420}	814.08	814.5 ± 4.8	$\chi^2_{lensing}$	10.06	11.0 ± 2.5
$\boldsymbol{A^{dustEE}_{143}}$	0.1003	0.1005 ± 0.0069	D_{2000}	229.97	230.1 ± 1.6	χ^2_{lowTEB}	10494.87	10495.9 ± 1.8
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2239	0.224 ± 0.047	$n_{s,0.002}$	0.96594	0.9659 ± 0.0048	χ^2_{plik}	2434.8	2453.5 ± 6.8
$\boldsymbol{A^{dustEE}_{217}}$	0.653	0.65 ± 0.13	Y_P	0.245341	$0.245352^{+0.000077}_{-0.000070}$	χ^2_{prior}	7.12	19.5 ± 5.6
$\boldsymbol{A^{dustTE}_{100}}$	0.1411	0.141 ± 0.038	Y_P^{BBN}	0.246667	$0.246679^{+0.000078}_{-0.000070}$	χ^2_{CMB}	12939.7	12960.4 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1321	0.132 ± 0.029	10^5D/H	2.6135	2.608 ± 0.030			

Best-fit $\chi^2_{\rm eff} = 12946.82$; $\bar{\chi}^2_{\rm eff} = 12979.96$; $R - 1 = 0.01082$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 10.06 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.87 plik_dx11dr2_HM_v18_TTTEEE: 2434.77

19.17 base_omegak_CamSpecHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022332	0.02233 ± 0.00024 $(+0.1\sigma)$	H_0	67.31	65.6 ± 3.3 (-0.1σ)	$z_{\rm drag}$	1059.666	1059.65 ± 0.48 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11759	0.1177 ± 0.0023 (-0.1σ)	Ω_Λ	0.6917	$0.677^{+0.028}_{-0.023}$ (-0.1σ)	$r_{\rm drag}$	147.777	147.76 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.041204	1.04117 ± 0.00048 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.3102	$0.329^{+0.029}_{-0.037}$ $(+0.1\sigma)$	$k_{\rm D}$	0.140131	0.14014 ± 0.00050 (-0.0σ)
$\boldsymbol{\tau}$	0.0716	0.061 ± 0.021 $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.14056	0.1407 ± 0.0021 (-0.1σ)	$100\theta_{\rm D}$	0.160916	0.16092 ± 0.00027 (-0.1σ)
$\boldsymbol{\Omega_K}$	-0.0020	$-0.0064^{+0.0096}_{-0.0073}$ (-0.1σ)	$\Omega_{\rm m} h^3$	0.0946	0.0923 ± 0.0051 (-0.1σ)	$z_{\rm eq}$	3344	3346 ± 50 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0698	3.047 ± 0.040 $(+0.0\sigma)$	σ_8	0.8146	0.803 ± 0.020 (-0.0σ)	$100\theta_{\rm eq}$	0.8240	0.8237 ± 0.0099 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9714	0.9715 ± 0.0066 $(+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4537	0.460 ± 0.013 $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07143	0.0701 ± 0.0025 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00055	0.9999 ± 0.0025 (-0.1σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6080	0.6078 ± 0.0075 $(+0.1\sigma)$	$H(0.57)$	92.49	91.2 ± 2.7 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	249.5	246 ± 23 (-0.5σ)	$\sigma_8/h^{0.5}$	0.9929	0.993 ± 0.011 $(+0.2\sigma)$	$D_{\rm A}(0.57)$	1395	1425^{+54}_{-61} $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	34.4	38 ± 8 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.4547	2.455 ± 0.028 $(+0.0\sigma)$	$F_{\rm AP}(0.57)$	0.6754	$0.6795^{+0.0066}_{-0.0076}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	94.3	97 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	9.32	$8.12^{+2.4}_{-1.8}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4737	0.4716 ± 0.0059 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47.3	46 ± 7 (-2.7σ)	$10^9 A_{\rm s}$	2.154	2.107 ± 0.084 $(+0.0\sigma)$	$\sigma_8(0.57)$	0.6062	0.594 ± 0.022 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	2.87	$3.22^{+1.3}_{-2.6}$ (-1.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8666	1.865 ± 0.014 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	0.246286	0.24628 ± 0.00011 (-3.8σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.390	$0.51^{+0.10}_{-0.12}$	D_{40}	1216.0	1210 ± 17 (-0.5σ)	f_{2000}^{143}	29.33	28.8 ± 3.0 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.581 (-0.2σ)	D_{220}	5704.7	5699 ± 41 (-0.5σ)	f_{2000}^{217}	106.63	106.3 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	5.97	$5.50^{+4.2}_{-1.6}$ $(+0.7\sigma)$	D_{810}	2528.7	2526 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	31.65	31.7 ± 2.2 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.984	0.99 ± 0.19	D_{1420}	814.6	814.1 ± 5.3 (-0.1σ)	$\chi^2_{\rm lensing}$	9.29	10.4 ± 2.1 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.042	1.03 ± 0.18	$n_{\rm s,0.002}$	0.9714	0.9715 ± 0.0066 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10494.15	10494.8 ± 1.8 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.216	1.21 ± 0.11	$Y_{\rm P}$	0.244955	$0.244955^{+0.000099}_{-0.00011}$ (-3.9σ)	$\chi^2_{\rm CamSpec}$	8046.7	8061.8 ± 5.8
$\boldsymbol{A_{143\times217}^{dust}}$	0.944	0.98 ± 0.18	Age/Gyr	13.877	14.06 ± 0.36 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	3.84	8.45 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99655	0.99677 ± 0.00098 (-1.4σ)	z_*	1089.739	1089.76 ± 0.46 (-0.1σ)	$\chi^2_{\rm CMB}$	18550.2	18567.0 ± 5.9 $(+1295.5\sigma)$
$\boldsymbol{c_{217}}$	0.99733	0.9973 ± 0.0018 $(+0.9\sigma)$	r_*	145.090	145.07 ± 0.49 $(+0.1\sigma)$			
$\boldsymbol{\beta_1^1}$	-0.17	-0.1 ± 1.0	$100\theta_*$	1.041407	1.04137 ± 0.00047 $(+0.1\sigma)$			

Best-fit $\chi^2_{\rm eff} = 18554.01$; $\Delta\chi^2_{\rm eff} = 7281.97$; $\bar{\chi}^2_{\rm eff} = 18575.47$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.35$; $R - 1 = 0.01768$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.29 (Δ -0.05) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.15 (Δ -0.19) CamSpec like_v9.10CMH_unified: 8046.73

19.18 base_omegak_CamSpecHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022371	0.02239 ± 0.00016 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.00118	1.0013 ± 0.0042	r_*	144.833	144.84 ± 0.31 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11845	0.1184 ± 0.0014 (-0.4σ)	$\boldsymbol{\beta_1^1}$	−0.12	-0.1 ± 1.0	$100\theta_*$	1.041129	1.04112 ± 0.00030 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040937	1.04092 ± 0.00030 $(+0.1\sigma)$	H_0	67.71	65.4 ± 3.2 (-0.2σ)	$z_{\rm drag}$	1059.818	1059.85 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.0693	0.055 ± 0.019 (-0.1σ)	Ω_Λ	0.6918	$0.673^{+0.027}_{-0.023}$ (-0.2σ)	$r_{\rm drag}$	147.501	147.50 ± 0.31 $(+0.2\sigma)$
$\boldsymbol{\Omega_K}$	−0.0004	$-0.0061^{+0.0085}_{-0.0073}$ (-0.3σ)	$\Omega_{\rm m}$	0.3086	$0.333^{+0.030}_{-0.035}$ $(+0.2\sigma)$	$k_{\rm D}$	0.140452	0.14047 ± 0.00033 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0664	3.037 ± 0.038 (-0.2σ)	$\Omega_{\rm m} h^2$	0.14147	0.1414 ± 0.0013 (-0.4σ)	$100\theta_{\rm D}$	0.160790	0.16077 ± 0.00019 (-0.8σ)
$\boldsymbol{n_s}$	0.96871	0.9693 ± 0.0047 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.09579	$0.0925^{+0.0044}_{-0.0051}$ (-0.3σ)	$z_{\rm eq}$	3365.3	3364 ± 32 (-0.4σ)
$\boldsymbol{y_{cal}}$	0.99997	0.9999 ± 0.0025 (-0.1σ)	σ_8	0.8159	0.801 ± 0.019 (-0.3σ)	$100\theta_{\rm eq}$	0.8200	0.8202 ± 0.0061 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	249.0	245 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4532	0.461 ± 0.013 $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07168	$0.0699^{+0.0023}_{-0.0026}$ (-0.3σ)
$\boldsymbol{A_{143}^{PS}}$	34.7	38 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6081	0.6075 ± 0.0067 (-0.2σ)	$H(0.57)$	92.97	$91.2^{+2.4}_{-2.8}$ (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	95.0	97 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9915	0.991 ± 0.010 (-0.2σ)	$D_{\rm A}(0.57)$	1387	1427 ± 54 $(+0.3\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47.1	46 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.4526	2.453 ± 0.027 (-0.2σ)	$F_{\rm AP}(0.57)$	0.6752	0.6803 ± 0.0068 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	3.06	$3.30^{+1.5}_{-2.5}$ (-1.0σ)	$z_{\rm re}$	9.12	$7.55^{+2.3}_{-1.8}$ (-0.1σ)	$f\sigma_8(0.57)$	0.4737	0.4709 ± 0.0054 (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.398	$0.51^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	2.147	2.087 ± 0.079 (-0.2σ)	$\sigma_8(0.57)$	0.6076	0.591 ± 0.021 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.001	< 0.596 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8686	1.869 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246303	0.246310 ± 0.000070 (-5.1σ)
$\boldsymbol{A^{kSZ}}$	5.60	$5.43^{+4.1}_{-1.9}$ $(+0.7\sigma)$	D_{40}	1221.3	1214^{+14}_{-16} (-0.8σ)	f_{2000}^{143}	29.23	28.7 ± 2.7 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.990	0.99 ± 0.19	D_{220}	5706.7	5710 ± 39 (-0.4σ)	f_{2000}^{217}	106.50	106.1 ± 1.9 (-0.0σ)
$\boldsymbol{A_{143}^{dust}}$	1.031	1.03 ± 0.18	D_{810}	2526.9	2528 ± 14 (-0.4σ)	$f_{2000}^{143\times217}$	31.59	31.4 ± 2.0 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.223	1.21 ± 0.12	D_{1420}	813.72	814.3 ± 4.8 (-0.0σ)	$\chi^2_{\rm lensing}$	9.43	10.6 ± 2.2 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.965	0.99 ± 0.18	$n_{\rm s,0.002}$	0.96871	0.9693 ± 0.0047 $(+0.7\sigma)$	$\chi^2_{\rm lowTEB}$	10494.71	10495.0 ± 1.6 (-0.5σ)
$\boldsymbol{c_{100}}$	0.99661	0.99676 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.244972	0.244981 ± 0.000071 (-5.1σ)	$\chi^2_{\rm CamSpec}$	12937.0	12953.7 ± 6.1
$\boldsymbol{c_{217}}$	0.99735	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.809	14.05 ± 0.33 $(+0.3\sigma)$	$\chi^2_{\rm prior}$	3.91	9.08 ± 3.6 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.00452	1.0051 ± 0.0044	z_*	1089.767	1089.74 ± 0.29 (-0.7σ)	$\chi^2_{\rm CMB}$	23441.2	23459.3 ± 6.2 $(+1549.4\sigma)$

Best-fit $\chi^2_{\rm eff} = 23445.09$; $\Delta\chi^2_{\rm eff} = 10498.27$; $\bar{\chi}^2_{\rm eff} = 23468.39$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.43$; $R - 1 = 0.01340$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 9.43 (Δ -0.63) lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.71 (Δ -0.16) CamSpec like_v9.10CMH_unified: 12937.04

20 r

20.1 base_r_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022242	0.02224 ± 0.00023	$\Omega_m h^3$	0.096009	0.09597 ± 0.00046	$100\theta_D$	0.160944	0.16096 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.11961	0.1195 ± 0.0022	σ_8	0.8307	0.828 ± 0.014	z_{eq}	3390	3387 ± 50
$\boldsymbol{100\theta_{MC}}$	1.040895	1.04089 ± 0.00048	$\sigma_8\Omega_m^{0.5}$	0.4654	0.463 ± 0.013	k_{eq}	0.010346	0.01034 ± 0.00015
$\boldsymbol{\tau}$	0.0795	0.077 ± 0.019	$\sigma_8\Omega_m^{0.25}$	0.6218	0.619 ± 0.013	$100\theta_{eq}$	0.8151	0.8158 ± 0.0095
$\boldsymbol{\ln(10^{10}A_s)}$	3.0927	3.087 ± 0.036	$\sigma_8/h^{0.5}$	1.0120	1.008 ± 0.019	$100\theta_{s,eq}$	0.45044	0.4508 ± 0.0049
$\boldsymbol{n_s}$	0.9663	0.9666 ± 0.0062	$\langle d^2\rangle^{1/2}$	2.4993	2.490 ± 0.046	$r_{drag}/D_V(0.57)$	0.07145	0.07150 ± 0.00075
$\boldsymbol{r}$	0.0000	< 0.0472	z_{re}	10.12	$9.78^{+1.9}_{-1.6}$	$H(0.57)$	92.904	92.92 ± 0.43
$\boldsymbol{y_{cal}}$	1.00034	1.0004 ± 0.0025	$10^9 A_s$	2.204	2.192 ± 0.080	$D_A(0.57)$	1390.7	1390 ± 13
$\boldsymbol{A_{217}^{CIB}}$	66.6	63.8 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8797	1.879 ± 0.014	$F_{AP}(0.57)$	0.67664	0.6765 ± 0.0035
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.07	—	D_{40}	1235.3	1248^{+16}_{-19}	$f\sigma_8(0.57)$	0.4836	0.4816 ± 0.0093
$\boldsymbol{A_{143}^{tSZ}}$	7.06	5.19 ± 1.9	D_{220}	5715.5	5715 ± 41	$\sigma_8(0.57)$	0.6174	0.615 ± 0.011
$\boldsymbol{A_{100}^{PS}}$	252.5	257 ± 28	D_{810}	2534.4	2534 ± 14	$r_{0.002}$	0.0000	< 0.0432
$\boldsymbol{A_{143}^{PS}}$	39.7	44 ± 8	D_{1420}	814.94	814.8 ± 5.0	$r_{0.01}$	0.0000	< 0.0452
$\boldsymbol{A_{143\times217}^{PS}}$	34.3	39 ± 10	D_{2000}	230.53	230.4 ± 1.9	$\ln(10^{10}A_t)$	−8.41	$-0.65^{+1.5}_{-0.68}$
$\boldsymbol{A_{217}^{PS}}$	98.2	97 ± 10	$n_{s,0.002}$	0.9663	0.9666 ± 0.0062	r_{10}	0.0000	< 0.0218
$\boldsymbol{A^{kSZ}}$	0.01	< 4.44	Y_P	0.245336	0.24533 ± 0.00011	$10^9 A_t$	0.000	< 0.104
$\boldsymbol{A_{100}^{dustTT}}$	7.39	7.39 ± 1.9	Y_P^{BBN}	0.246663	0.24666 ± 0.00011	$10^9 A_t e^{-2\tau}$	0.0000	< 0.0888
$\boldsymbol{A_{143}^{dustTT}}$	9.02	8.99 ± 1.8	10^5D/H	2.6156	2.617 ± 0.045	f_{2000}^{143}	29.45	29.8 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.56	17.1 ± 4.2	Age/Gyr	13.8096	13.810 ± 0.039	$f_{2000}^{143\times217}$	32.19	32.3 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.9 ± 7.4	z_*	1090.049	1090.05 ± 0.44	f_{2000}^{217}	105.86	105.9 ± 2.0
$\boldsymbol{c_{100}}$	0.99789	0.99787 ± 0.00078	r_*	144.630	144.67 ± 0.50	χ^2_{lowTEB}	10496.51	10498.7 ± 2.7
$\boldsymbol{c_{217}}$	0.99595	0.9959 ± 0.0014	$100\theta_*$	1.041092	1.04109 ± 0.00047	χ^2_{plik}	763.4	777.5 ± 5.7
H_0	67.38	67.42 ± 0.99	D_A/Gpc	13.8921	13.896 ± 0.046	χ^2_{prior}	2.04	7.33 ± 3.6
Ω_Λ	0.6861	0.687 ± 0.014	z_{drag}	1059.628	1059.58 ± 0.48	χ^2_{CMB}	11259.9	11276.2 ± 5.8
Ω_m	0.3139	0.313 ± 0.014	r_{drag}	147.336	147.38 ± 0.49			
$\Omega_m h^2$	0.14250	0.1424 ± 0.0021	k_D	0.14051	0.14045 ± 0.00052			

Best-fit $\chi^2_{eff} = 11261.94$; $\bar{\chi}^2_{eff} = 11283.56$; $R - 1 = 0.00544$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.51 plik_dx11dr2_HM_v18_TT: 763.39

20.2 base_r_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022277	0.02227 ± 0.00020	σ_8	0.8295	0.827 ± 0.015	$k_{\rm eq}$	0.010302	0.010295 ± 0.000091
$\boldsymbol{\Omega_c h^2}$	0.11897	0.1189 ± 0.0013	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4619	0.460 ± 0.010	$100\theta_{\rm eq}$	0.8179	0.8183 ± 0.0055
$\boldsymbol{100\theta_{\rm MC}}$	1.040952	1.04096 ± 0.00042	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6190	0.617 ± 0.012	$100\theta_{\rm s,eq}$	0.45184	0.4521 ± 0.0029
$\boldsymbol{\tau}$	0.0813	0.079 ± 0.018	$\sigma_8/h^{0.5}$	1.0085	1.006 ± 0.018	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071663	0.07170 ± 0.00043
$\boldsymbol{\ln(10^{10}A_s)}$	3.0945	3.090 ± 0.035	$\langle d^2\rangle^{1/2}$	2.4925	2.485 ± 0.043	$H(0.57)$	93.010	93.02 ± 0.27
$\boldsymbol{n_s}$	0.96739	0.9680 ± 0.0045	$z_{\rm re}$	10.25	$9.97^{+1.7}_{-1.5}$	$D_{\rm A}(0.57)$	1387.2	1386.8 ± 7.8
$\boldsymbol{r}$	0.0001	< 0.0491	$10^9 A_{\rm s}$	2.208	2.198 ± 0.077	$F_{\rm AP}(0.57)$	0.67567	0.6755 ± 0.0020
$\boldsymbol{y_{\rm cal}}$	1.00022	1.0004 ± 0.0025	$10^9 A_{\rm s} e^{-2\tau}$	1.8765	1.876 ± 0.012	$f\sigma_8(0.57)$	0.4819	0.4806 ± 0.0087
$\boldsymbol{A_{217}^{\rm CIB}}$	67.2	63.5 ± 6.6	D_{40}	1233.3	1246^{+15}_{-19}	$\sigma_8(0.57)$	0.6174	0.616 ± 0.011
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.00	—	D_{220}	5718.3	5717 ± 41	$r_{0.002}$	0.0000	< 0.0451
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.19	5.24 ± 1.9	D_{810}	2532.8	2534 ± 14	$r_{0.01}$	0.0000	< 0.0470
$\boldsymbol{A_{100}^{\rm PS}}$	252.0	256 ± 28	D_{1420}	814.70	815.1 ± 5.0	$\ln(10^{10}A_{\rm t})$	−6.78	$-0.60^{+1.4}_{-0.67}$
$\boldsymbol{A_{143}^{\rm PS}}$	38.1	43 ± 8	D_{2000}	230.48	230.6 ± 1.8	r_{10}	0.0000	< 0.0227
$\boldsymbol{A_{143\times217}^{PS}}$	32.0	39^{+10}_{-10}	$n_{\rm s,0.002}$	0.96739	0.9680 ± 0.0045	$10^9 A_{\rm t}$	0.000	< 0.108
$\boldsymbol{A_{217}^{\rm PS}}$	96.8	98 ± 10	$Y_{\rm P}$	0.245352	0.245347 ± 0.000092	$10^9 A_t e^{-2\tau}$	0.0001	< 0.0921
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.39	$Y_{\rm P}^{\rm BBN}$	0.246678	0.246673 ± 0.000093	f_{2000}^{143}	29.45	29.6 ± 2.8
$\boldsymbol{A_{100}^{\rm dust}TT}$	7.42	7.41 ± 1.9	10^5D/H	2.6089	2.610 ± 0.039	$f_{2000}^{143\times217}$	32.14	32.2 ± 2.0
$\boldsymbol{A_{143}^{\rm dust}TT}$	9.01	9.00 ± 1.8	Age/Gyr	13.8016	13.801 ± 0.029	f_{2000}^{217}	105.79	105.8 ± 2.0
$\boldsymbol{A_{143\times217}^{\rm dust}TT}$	17.53	17.2 ± 4.1	z_*	1089.947	1089.95 ± 0.31	$\chi^2_{\rm lowTEB}$	10496.46	10498.5 ± 2.7
$\boldsymbol{A_{217}^{\rm dust}TT}$	82.0	82.0 ± 7.4	r_*	144.768	144.80 ± 0.33	$\chi^2_{\rm plik}$	763.5	777.1 ± 5.6
$\boldsymbol{c_{100}}$	0.99790	0.99788 ± 0.00078	$100\theta_*$	1.041149	1.04116 ± 0.00041	$\chi^2_{\rm 6DF}$	0.0219	0.059 ± 0.078
$\boldsymbol{c_{217}}$	0.99598	0.9959 ± 0.0014	$D_{\rm A}$/Gpc	13.9047	13.907 ± 0.032	$\chi^2_{\rm MGS}$	1.28	1.39 ± 0.55
H_0	67.65	67.68 ± 0.57	$z_{\rm drag}$	1059.628	1059.63 ± 0.45	$\chi^2_{\rm DR11CMASS}$	2.448	2.89 ± 0.68
Ω_Λ	0.6899	0.6904 ± 0.0077	$r_{\rm drag}$	147.469	147.50 ± 0.35	$\chi^2_{\rm DR11LOWZ}$	0.609	0.71 ± 0.60
$\Omega_{\rm m}$	0.3101	0.3096 ± 0.0077	$k_{\rm D}$	0.140400	0.14036 ± 0.00045	$\chi^2_{\rm prior}$	2.12	7.34 ± 3.5
$\Omega_{\rm m}h^2$	0.14190	0.1418 ± 0.0012	$100\theta_{\rm D}$	0.160925	0.16094 ± 0.00026	$\chi^2_{\rm CMB}$	11259.9	11275.6 ± 5.6
$\Omega_{\rm m}h^3$	0.095991	0.09597 ± 0.00046	$z_{\rm eq}$	3375.5	3373 ± 30	$\chi^2_{\rm BAO}$	4.36	5.05 ± 1.0

Best-fit $\chi^2_{\rm eff} = 11266.41$; $\bar{\chi}^2_{\rm eff} = 11288.02$; $R - 1 = 0.00859$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.45 DR11LOWZ: 0.61 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.46 plik_dx11dr2_HM_v18_TT: 763.48

20.3 base_r_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022264	0.02226 ± 0.00023	$\Omega_m h^3$	0.096004	0.09597 ± 0.00046	$100\theta_D$	0.160919	0.16094 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.11935	0.1191 ± 0.0021	σ_8	0.8279	0.827 ± 0.015	z_{eq}	3384.2	3377 ± 47
$\boldsymbol{100\theta_{MC}}$	1.040885	1.04094 ± 0.00046	$\sigma_8\Omega_m^{0.5}$	0.4627	0.461 ± 0.013	k_{eq}	0.010329	0.01031 ± 0.00014
$\boldsymbol{\tau}$	0.0774	0.078 ± 0.019	$\sigma_8\Omega_m^{0.25}$	0.6189	0.618 ± 0.013	$100\theta_{eq}$	0.8162	0.8177 ± 0.0089
$\boldsymbol{\ln(10^{10}A_s)}$	3.0880	3.089 ± 0.036	$\sigma_8/h^{0.5}$	1.0078	1.006 ± 0.019	$100\theta_{s,eq}$	0.45098	0.4517 ± 0.0045
$\boldsymbol{n_s}$	0.9667	0.9676 ± 0.0059	$\langle d^2\rangle^{1/2}$	2.4900	2.486 ± 0.045	$r_{drag}/D_V(0.57)$	0.07153	0.07164 ± 0.00070
$\boldsymbol{r}$	0.0000	< 0.0481	z_{re}	9.91	$9.92^{+1.8}_{-1.6}$	$H(0.57)$	92.946	93.00 ± 0.40
$\boldsymbol{y_{cal}}$	1.00038	1.0004 ± 0.0025	$10^9 A_s$	2.193	2.197 ± 0.080	$D_A(0.57)$	1389.3	1388 ± 12
$\boldsymbol{A_{217}^{CIB}}$	66.5	63.6 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8789	1.877 ± 0.013	$F_{AP}(0.57)$	0.67626	0.6758 ± 0.0032
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.05	—	D_{40}	1233.8	1247^{+16}_{-19}	$f\sigma_8(0.57)$	0.4816	0.4808 ± 0.0092
$\boldsymbol{A_{143}^{tSZ}}$	7.08	5.23 ± 1.9	D_{220}	5719.3	5717 ± 41	$\sigma_8(0.57)$	0.6156	0.616 ± 0.011
$\boldsymbol{A_{100}^{PS}}$	252.9	257 ± 28	D_{810}	2534.6	2534 ± 14	$r_{0.002}$	0.0000	< 0.0441
$\boldsymbol{A_{143}^{PS}}$	39.5	43 ± 8	D_{1420}	815.16	815.1 ± 5.0	$r_{0.01}$	0.0000	< 0.0461
$\boldsymbol{A_{143\times217}^{PS}}$	33.9	39^{+10}_{-10}	D_{2000}	230.56	230.5 ± 1.8	$\ln(10^{10}A_t)$	-10.73	$-0.63^{+1.4}_{-0.67}$
$\boldsymbol{A_{217}^{PS}}$	98.3	98 ± 10	$n_{s,0.002}$	0.9667	0.9676 ± 0.0059	r_{10}	0.0000	< 0.0222
$\boldsymbol{A^{kSZ}}$	0.00	< 4.40	Y_P	0.245346	0.24534 ± 0.00010	$10^9 A_t$	0.000	< 0.106
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.40 ± 1.9	Y_P^{BBN}	0.246673	0.24667 ± 0.00010	$10^9 A_t e^{-2\tau}$	0.0000	< 0.0902
$\boldsymbol{A_{143}^{dustTT}}$	9.01	9.00 ± 1.9	10^5D/H	2.6113	2.612 ± 0.043	f_{2000}^{143}	29.48	29.6 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.61	17.2 ± 4.2	Age/Gyr	13.8064	13.803 ± 0.037	$f_{2000}^{143\times217}$	32.15	32.2 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.9 ± 7.4	z_*	1089.998	1089.97 ± 0.41	f_{2000}^{217}	105.87	105.8 ± 2.0
$\boldsymbol{c_{100}}$	0.99790	0.99788 ± 0.00078	r_*	144.679	144.76 ± 0.47	χ^2_{lowTEB}	10496.17	10498.6 ± 2.7
$\boldsymbol{c_{217}}$	0.99591	0.9959 ± 0.0014	$100\theta_*$	1.041084	1.04113 ± 0.00046	χ^2_{plik}	763.8	777.5 ± 5.7
H_0	67.48	67.62 ± 0.92	D_A/Gpc	13.8970	13.904 ± 0.043	χ^2_{JLA}	706.775	706.86 ± 0.41
Ω_Λ	0.6876	0.689 ± 0.013	z_{drag}	1059.628	1059.62 ± 0.47	χ^2_{prior}	2.02	7.35 ± 3.6
Ω_m	0.3124	0.311 ± 0.013	r_{drag}	147.382	147.46 ± 0.47	χ^2_{CMB}	11260.0	11276.1 ± 5.7
$\Omega_m h^2$	0.14226	0.1420 ± 0.0019	k_D	0.14048	0.14039 ± 0.00051			

Best-fit $\chi^2_{eff} = 11968.76$; $\bar{\chi}^2_{eff} = 11990.32$; $R - 1 = 0.00627$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.17 plik_dx11dr2_HM_v18_TT: 763.79 SN - JLA December_2013: 706.77

20.4 base_r_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022286	0.02228 ± 0.00023	$\Omega_m h^3$	0.096046	0.09598 ± 0.00046	$100\theta_D$	0.160903	0.16093 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.11921	0.1189 ± 0.0021	σ_8	0.8305	0.827 ± 0.014	z_{eq}	3381.3	3374 ± 48
$\boldsymbol{100\theta_{MC}}$	1.040947	1.04096 ± 0.00047	$\sigma_8\Omega_m^{0.5}$	0.4634	0.461 ± 0.013	k_{eq}	0.010320	0.01030 ± 0.00015
$\boldsymbol{\tau}$	0.0813	0.079 ± 0.019	$\sigma_8\Omega_m^{0.25}$	0.6204	0.617 ± 0.013	$100\theta_{eq}$	0.8168	0.8182 ± 0.0091
$\boldsymbol{\ln(10^{10}A_s)}$	3.0953	3.090 ± 0.036	$\sigma_8/h^{0.5}$	1.0104	1.006 ± 0.019	$100\theta_{s,eq}$	0.45129	0.4520 ± 0.0047
$\boldsymbol{n_s}$	0.9674	0.9679 ± 0.0061	$\langle d^2\rangle^{1/2}$	2.4959	2.485 ± 0.045	$r_{drag}/D_V(0.57)$	0.07159	0.07169 ± 0.00072
$\boldsymbol{r}$	0.0001	< 0.0486	z_{re}	10.26	$9.96^{+1.8}_{-1.6}$	$H(0.57)$	92.991	93.03 ± 0.41
$\boldsymbol{y_{cal}}$	1.00028	1.0004 ± 0.0025	$10^9 A_s$	2.209	2.199 ± 0.080	$D_A(0.57)$	1388.1	1387 ± 13
$\boldsymbol{A_{217}^{CIB}}$	66.8	63.5 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8777	1.877 ± 0.014	$F_{AP}(0.57)$	0.67598	0.6756 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.04	—	D_{40}	1233.7	1246^{+17}_{-19}	$f\sigma_8(0.57)$	0.4828	0.4806 ± 0.0093
$\boldsymbol{A_{143}^{tSZ}}$	7.15	5.24 ± 1.9	D_{220}	5717.5	5718 ± 41	$\sigma_8(0.57)$	0.6179	0.616 ± 0.011
$\boldsymbol{A_{100}^{PS}}$	251.6	256 ± 28	D_{810}	2533.8	2534 ± 14	$r_{0.002}$	0.0001	< 0.0447
$\boldsymbol{A_{143}^{PS}}$	38.4	43 ± 8	D_{1420}	815.16	815.2 ± 5.0	$r_{0.01}$	0.0001	< 0.0466
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	39^{+10}_{-10}	D_{2000}	230.68	230.6 ± 1.8	$\ln(10^{10}A_t)$	−6.13	$-0.62^{+1.4}_{-0.68}$
$\boldsymbol{A_{217}^{PS}}$	97.3	98 ± 10	$n_{s,0.002}$	0.9674	0.9679 ± 0.0061	r_{10}	0.0000	< 0.0225
$\boldsymbol{A^{kSZ}}$	0.00	< 4.38	Y_P	0.245356	0.24535 ± 0.00010	$10^9 A_t$	0.000	< 0.107
$\boldsymbol{A_{100}^{dustTT}}$	7.48	7.40 ± 1.9	Y_P^{BBN}	0.246682	0.24668 ± 0.00010	$10^9 A_t e^{-2\tau}$	0.0002	< 0.0913
$\boldsymbol{A_{143}^{dustTT}}$	9.04	9.00 ± 1.8	10^5D/H	2.6071	2.609 ± 0.044	f_{2000}^{143}	29.21	29.6 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.54	17.2 ± 4.2	Age/Gyr	13.8018	13.801 ± 0.038	$f_{2000}^{143\times217}$	31.93	32.1 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.9	82.0 ± 7.4	z_*	1089.956	1089.95 ± 0.42	f_{2000}^{217}	105.62	105.8 ± 2.0
$\boldsymbol{c_{100}}$	0.99793	0.99788 ± 0.00078	r_*	144.700	144.78 ± 0.48	χ^2_{lowTEB}	10496.48	10498.6 ± 2.7
$\boldsymbol{c_{217}}$	0.99592	0.9959 ± 0.0014	$100\theta_*$	1.041139	1.04116 ± 0.00046	χ^2_{plik}	763.5	777.6 ± 5.8
H_0	67.57	67.68 ± 0.95	D_A/Gpc	13.8982	13.906 ± 0.045	χ^2_{H070p6}	0.829	0.85 ± 0.50
Ω_Λ	0.6887	$0.690^{+0.014}_{-0.013}$	z_{drag}	1059.704	1059.64 ± 0.47	χ^2_{prior}	2.00	7.34 ± 3.6
Ω_m	0.3113	$0.310^{+0.013}_{-0.014}$	r_{drag}	147.392	147.48 ± 0.48	χ^2_{CMB}	11260.0	11276.2 ± 5.8
$\Omega_m h^2$	0.14214	0.1419 ± 0.0020	k_D	0.14048	0.14038 ± 0.00052			

Best-fit $\chi^2_{eff} = 11262.83$; $\bar{\chi}^2_{eff} = 11284.42$; $R - 1 = 0.00723$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.48 plik_dx11dr2_HM_v18_TT: 763.51 Hubble - H070p6: 0.83

20.5 base_r_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02224 ± 0.00023	$\Omega_m h^3$	0.09597 ± 0.00046	$100\theta_D$	0.16096 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.1194 ± 0.0022	σ_8	$0.829^{+0.013}_{-0.015}$	z_{eq}	3385 ± 49
$\boldsymbol{100\theta_{MC}}$	1.04090 ± 0.00047	$\sigma_8\Omega_m^{0.5}$	0.464 ± 0.013	k_{eq}	0.01033 ± 0.00015
$\boldsymbol{\tau}$	$0.078^{+0.017}_{-0.020}$	$\sigma_8\Omega_m^{0.25}$	0.620 ± 0.013	$100\theta_{eq}$	0.8161 ± 0.0094
$\boldsymbol{\ln(10^{10}A_s)}$	$3.089^{+0.032}_{-0.038}$	$\sigma_8/h^{0.5}$	1.009 ± 0.019	$100\theta_{s,eq}$	0.4510 ± 0.0048
$\boldsymbol{n_s}$	0.9668 ± 0.0061	$\langle d^2\rangle^{1/2}$	2.492 ± 0.044	$r_{drag}/D_V(0.57)$	0.07152 ± 0.00074
$\boldsymbol{r}$	< 0.0478	z_{re}	9.92 ± 1.5	$H(0.57)$	92.94 ± 0.42
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$10^9 A_s$	$2.197^{+0.068}_{-0.085}$	$D_A(0.57)$	1390 ± 13
$\boldsymbol{A_{217}^{CIB}}$	63.6 ± 6.6	$10^9 A_s e^{-2\tau}$	1.879 ± 0.014	$F_{AP}(0.57)$	0.6764 ± 0.0034
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1248^{+17}_{-19}	$f\sigma_8(0.57)$	0.4821 ± 0.0090
$\boldsymbol{A_{143}^{tSZ}}$	5.22 ± 1.9	D_{220}	5715 ± 41	$\sigma_8(0.57)$	$0.6161^{+0.0097}_{-0.012}$
$\boldsymbol{A_{100}^{PS}}$	257 ± 28	D_{810}	2534 ± 14	$r_{0.002}$	< 0.0437
$\boldsymbol{A_{143}^{PS}}$	43 ± 8	D_{1420}	814.9 ± 5.0	$r_{0.01}$	< 0.0457
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{2000}	230.5 ± 1.8	$\ln(10^{10}A_t)$	$-0.64^{+1.4}_{-0.68}$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10	$n_{s,0.002}$	0.9668 ± 0.0061	r_{10}	< 0.0220
$\boldsymbol{A^{kSZ}}$	< 4.40	Y_P	0.24533 ± 0.00011	$10^9 A_t$	< 0.105
$\boldsymbol{A_{100}^{dustTT}}$	7.40 ± 1.9	Y_P^{BBN}	0.24666 ± 0.00011	$10^9 A_t e^{-2\tau}$	< 0.0897
$\boldsymbol{A_{143}^{dustTT}}$	9.00 ± 1.8	10^5D/H	2.616 ± 0.044	f_{2000}^{143}	29.7 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.1	Age/Gyr	13.808 ± 0.038	$f_{2000}^{143\times217}$	32.2 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0 ± 7.4	z_*	1090.03 ± 0.43	f_{2000}^{217}	105.9 ± 2.0
$\boldsymbol{c_{100}}$	0.99787 ± 0.00078	r_*	144.68 ± 0.49	χ^2_{lowTEB}	10498.7 ± 2.7
$\boldsymbol{c_{217}}$	0.9959 ± 0.0014	$100\theta_*$	1.04109 ± 0.00046	χ^2_{plik}	777.4 ± 5.7
H_0	67.46 ± 0.97	D_A/Gpc	13.897 ± 0.045	χ^2_{prior}	7.32 ± 3.5
Ω_Λ	0.687 ± 0.013	z_{drag}	1059.60 ± 0.47	χ^2_{CMB}	11276.1 ± 5.7
Ω_m	0.313 ± 0.013	r_{drag}	147.39 ± 0.49		
$\Omega_m h^2$	0.1423 ± 0.0021	k_D	0.14045 ± 0.00052		

$\bar{\chi}^2_{eff} = 11283.39$; $R - 1 = 0.00636$

20.6 base_r_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022283	0.02225 ± 0.00016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.339 ± 0.080	D_A/Gpc	13.8867	13.891 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11977	0.1197 ± 0.0014	$\boldsymbol{A^{dustTE}_{217}}$	1.675	1.67 ± 0.26	z_{drag}	1059.704	1059.64 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040780	1.04077 ± 0.00032	$\boldsymbol{c_{100}}$	0.99826	0.99816 ± 0.00077	r_{drag}	147.250	147.30 ± 0.31
$\boldsymbol{\tau}$	0.0829	0.078 ± 0.017	$\boldsymbol{c_{217}}$	0.99577	0.9960 ± 0.0015	k_D	0.140635	0.14055 ± 0.00033
$\boldsymbol{\ln(10^{10}A_s)}$	3.1010	3.092 ± 0.033	H_0	67.32	67.31 ± 0.64	$100\theta_D$	0.160864	0.16091 ± 0.00018
$\boldsymbol{n_s}$	0.96590	0.9652 ± 0.0047	Ω_Λ	0.6851	0.6851 ± 0.0089	z_{eq}	3394.6	3392 ± 32
$\boldsymbol{r}$	0.0001	< 0.0463	Ω_m	0.3149	0.3149 ± 0.0089	k_{eq}	0.010361	0.010354 ± 0.000099
$\boldsymbol{y_{cal}}$	1.00023	1.0004 ± 0.0025	$\Omega_m h^2$	0.14270	0.1426 ± 0.0014	$100\theta_{eq}$	0.8143	0.8147 ± 0.0061
$\boldsymbol{A^{CIB}_{217}}$	63.2	63.6 ± 6.6	$\Omega_m h^3$	0.096060	0.09598 ± 0.00030	$100\theta_{s,eq}$	0.44997	0.4502 ± 0.0031
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.48	—	σ_8	0.8342	0.830 ± 0.013	$r_{drag}/D_V(0.57)$	0.071381	0.07140 ± 0.00048
$\boldsymbol{A^{tSZ}_{143}}$	6.88	5.37 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4681	0.4657 ± 0.0097	$H(0.57)$	92.893	92.88 ± 0.28
$\boldsymbol{A^{PS}_{100}}$	251.0	260 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6249	0.622 ± 0.011	$D_A(0.57)$	1391.4	1391.7 ± 8.6
$\boldsymbol{A^{PS}_{143}}$	45.3	43 ± 8	$\sigma_8/h^{0.5}$	1.0168	1.012 ± 0.016	$F_{AP}(0.57)$	0.67689	0.6769 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	46.7	40 ± 10	$\langle d^2\rangle^{1/2}$	2.5121	2.502 ± 0.039	$f\sigma_8(0.57)$	0.4859	0.4834 ± 0.0079
$\boldsymbol{A^{PS}_{217}}$	103.9	98 ± 10	z_{re}	10.41	$9.96^{+1.6}_{-1.5}$	$\sigma_8(0.57)$	0.6198	0.617 ± 0.010
$\boldsymbol{A^{kSZ}}$	0.01	< 4.12	$10^9 A_s$	2.222	2.202 ± 0.072	$r_{0.002}$	0.0001	< 0.0422
$\boldsymbol{A^{dustTT}_{100}}$	7.42	7.38 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8826	1.881 ± 0.012	$r_{0.01}$	0.0001	< 0.0442
$\boldsymbol{A^{dustTT}_{143}}$	8.93	8.93 ± 1.8	D_{40}	1239.5	1253^{+14}_{-18}	$\ln(10^{10}A_t)$	-6.35	$-0.66^{+1.4}_{-0.68}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.83	17.0 ± 4.1	D_{220}	5725.9	5726 ± 38	r_{10}	0.0000	< 0.0212
$\boldsymbol{A^{dustTT}_{217}}$	82.2	81.8 ± 7.4	D_{810}	2537.0	2535 ± 14	$10^9 A_t$	0.000	< 0.102
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0808 ± 0.0057	D_{1420}	815.78	814.9 ± 4.8	$10^9 A_t e^{-2\tau}$	0.0001	< 0.0871
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04893	0.0483 ± 0.0050	D_{2000}	230.93	230.5 ± 1.6	f^{143}_{2000}	28.39	29.4 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0992	0.0999 ± 0.032	$n_{s,0.002}$	0.96590	0.9652 ± 0.0047	$f^{143\times217}_{2000}$	31.66	32.1 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.0996 ± 0.0069	Y_P	0.245355	0.245338 ± 0.000071	f^{217}_{2000}	105.12	105.8 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2223	0.223 ± 0.047	Y_P^{BBN}	0.246681	0.246664 ± 0.000072	χ^2_{lowTEB}	10497.21	10499.2 ± 2.6
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	10^5D/H	2.6077	2.614 ± 0.030	χ^2_{plik}	2431.8	2450.7 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.1400	0.142 ± 0.038	Age/Gyr	13.8094	13.813 ± 0.025	χ^2_{prior}	6.61	19.1 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1315	0.132 ± 0.029	z_*	1090.010	1090.05 ± 0.29	χ^2_{CMB}	12929.0	12949.9 ± 6.9
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.303 ± 0.084	r_*	144.557	144.60 ± 0.32			
$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.156 ± 0.053	$100\theta_*$	1.040976	1.04097 ± 0.00031			

Best-fit $\chi^2_{eff} = 12935.59$; $\bar{\chi}^2_{eff} = 12968.99$; $R - 1 = 0.00631$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.21 plik_dx11dr2_HM_v18_TTTEEE: 2431.77

20.7 base_r_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022317	0.02229 ± 0.00014	$\boldsymbol{A_{217}^{\mathrm{dust}TE}}$	1.671	1.67 ± 0.25	r_{drag}	147.359	147.40 ± 0.26
$\boldsymbol{\Omega_c h^2}$	0.11922	0.1192 ± 0.0011	$\boldsymbol{c_{100}}$	0.99819	0.99816 ± 0.00077	k_{D}	0.140545	0.14048 ± 0.00030
$\boldsymbol{100\theta_{\mathrm{MC}}}$	1.040813	1.04084 ± 0.00030	$\boldsymbol{c_{217}}$	0.99586	0.9960 ± 0.0014	$100\theta_{\mathrm{D}}$	0.160841	0.16089 ± 0.00018
$\boldsymbol{\tau}$	0.0836	0.081 ± 0.016	H_0	67.551	67.55 ± 0.47	z_{eq}	3382.2	3381 ± 24
$\boldsymbol{\ln(10^{10} A_s)}$	3.1005	3.095 ± 0.032	Ω_Λ	0.6884	0.6885 ± 0.0064	k_{eq}	0.010323	0.010318 ± 0.000073
$\boldsymbol{n_s}$	0.96708	0.9665 ± 0.0040	Ω_{m}	0.3116	0.3115 ± 0.0064	$100\theta_{\mathrm{eq}}$	0.81666	0.8169 ± 0.0045
$\boldsymbol{r}$	0.0001	< 0.0468	$\Omega_{\mathrm{m}} h^2$	0.14218	0.1421 ± 0.0010	$100\theta_{\mathrm{s,eq}}$	0.45117	0.4513 ± 0.0023
$\boldsymbol{y_{\mathrm{cal}}}$	1.00009	1.0004 ± 0.0025	$\Omega_{\mathrm{m}} h^3$	0.096043	0.09599 ± 0.00030	$r_{\mathrm{drag}}/D_{\mathrm{V}}(0.57)$	0.071562	0.07157 ± 0.00035
$\boldsymbol{A_{217}^{\mathrm{CIB}}}$	64.0	63.5 ± 6.6	σ_8	0.8324	0.830 ± 0.013	$H(0.57)$	92.982	92.97 ± 0.21
$\boldsymbol{\xi^{\mathrm{tSZ\times CIB}}}$	0.37	—	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4646	0.4633 ± 0.0086	$D_{\mathrm{A}}(0.57)$	1388.4	1388.5 ± 6.4
$\boldsymbol{A_{143}^{\mathrm{tSZ}}}$	7.02	5.40 ± 1.9	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6219	0.620 ± 0.010	$F_{\mathrm{AP}}(0.57)$	0.67605	0.6760 ± 0.0016
$\boldsymbol{A_{100}^{\mathrm{PS}}}$	251.8	259 ± 27	$\sigma_8/h^{0.5}$	1.0128	1.010 ± 0.016	$f\sigma_8(0.57)$	0.4840	0.4826 ± 0.0078
$\boldsymbol{A_{143}^{\mathrm{PS}}}$	43.4	43 ± 8	$\langle d^2 \rangle^{1/2}$	2.5032	2.498 ± 0.039	$\sigma_8(0.57)$	0.6192	0.6175 ± 0.0099
$\boldsymbol{A_{143\times217}^{PS}}$	43.4	40 ± 10	z_{re}	10.46	$10.2^{+1.6}_{-1.4}$	$r_{0.002}$	0.0001	< 0.0430
$\boldsymbol{A_{217}^{\mathrm{PS}}}$	102.1	98 ± 10	$10^9 A_{\mathrm{s}}$	2.221	2.210 ± 0.071	$r_{0.01}$	0.0001	< 0.0449
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 4.03	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8790	1.879 ± 0.011	$\ln(10^{10} A_{\mathrm{t}})$	-6.08	$-0.63^{+1.4}_{-0.68}$
$\boldsymbol{A_{100}^{\mathrm{dust}TT}}$	7.31	7.40 ± 1.9	D_{40}	1236.3	1251^{+14}_{-18}	r_{10}	0.0000	< 0.0215
$\boldsymbol{A_{143}^{\mathrm{dust}TT}}$	8.97	8.90 ± 1.8	D_{220}	5725.1	5727 ± 38	$10^9 A_{\mathrm{t}}$	0.000	< 0.104
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TT}}$	17.90	17.0 ± 4.2	D_{810}	2534.9	2535 ± 13	$10^9 A_t e^{-2\tau}$	0.0002	< 0.0880
$\boldsymbol{A_{217}^{\mathrm{dust}TT}}$	82.4	81.7 ± 7.4	D_{1420}	815.49	815.2 ± 4.8	f_{2000}^{143}	28.50	29.2 ± 2.7
$\boldsymbol{A_{100}^{\mathrm{dust}EE}}$	0.0814	0.0809 ± 0.0057	D_{2000}	230.87	230.6 ± 1.6	$f_{2000}^{143\times217}$	31.66	32.0 ± 1.9
$\boldsymbol{A_{100\times143}^{\mathrm{dust}EE}}$	0.04893	0.0485 ± 0.0049	$n_{\mathrm{s},0.002}$	0.96708	0.9665 ± 0.0040	f_{2000}^{217}	105.15	105.6 ± 1.8
$\boldsymbol{A_{100\times217}^{\mathrm{dust}EE}}$	0.0999	0.100 ± 0.032	Y_{P}	0.245369	0.245355 ± 0.000064	χ^2_{lowTEB}	10496.98	10499.1 ± 2.7
$\boldsymbol{A_{143}^{\mathrm{dust}EE}}$	0.1004	0.0998 ± 0.0068	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246696	0.246681 ± 0.000064	χ^2_{plik}	2432.0	2450.4 ± 6.7
$\boldsymbol{A_{143\times217}^{\mathrm{dust}EE}}$	0.2228	0.224 ± 0.047	10^5D/H	2.6013	2.607 ± 0.027	χ^2_{6DF}	0.0373	0.063 ± 0.074
$\boldsymbol{A_{217}^{\mathrm{dust}EE}}$	0.654	0.65 ± 0.13	Age/Gyr	13.8026	13.805 ± 0.021	χ^2_{MGS}	1.156	1.23 ± 0.44
$\boldsymbol{A_{100}^{\mathrm{dust}TE}}$	0.1393	0.141 ± 0.038	z_*	1089.918	1089.95 ± 0.23	$\chi^2_{\mathrm{DR11CMASS}}$	2.546	2.85 ± 0.59
$\boldsymbol{A_{100\times143}^{\mathrm{dust}TE}}$	0.1302	0.132 ± 0.029	r_*	144.674	144.71 ± 0.25	$\chi^2_{\mathrm{DR11LOWZ}}$	0.75	0.83 ± 0.54
$\boldsymbol{A_{100\times217}^{\mathrm{dust}TE}}$	0.306	0.304 ± 0.084	$100\theta_*$	1.041009	1.04103 ± 0.00029	χ^2_{prior}	6.73	19.2 ± 5.5
$\boldsymbol{A_{143}^{\mathrm{dust}TE}}$	0.154	0.155 ± 0.054	$D_{\mathrm{A}}/\mathrm{Gpc}$	13.8975	13.900 ± 0.024	χ^2_{CMB}	12929.0	12949.5 ± 6.8
$\boldsymbol{A_{143\times217}^{\mathrm{dust}TE}}$	0.338	0.339 ± 0.080	z_{drag}	1059.742	1059.68 ± 0.30	χ^2_{BAO}	4.49	4.97 ± 0.86

Best-fit $\chi^2_{\mathrm{eff}} = 12940.19$; $\bar{\chi}^2_{\mathrm{eff}} = 12973.68$; $R - 1 = 0.00847$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.04 MGS: 1.16 DR11CMASS: 2.55 DR11LOWZ: 0.75 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.98 plik_dx11dr2_HM_v18_TTTEEE: 2431.99

20.8 base_r_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022279	0.02226 ± 0.00015	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.340	0.339 ± 0.080	D_A/Gpc	13.8891	13.894 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11967	0.1195 ± 0.0014	$\boldsymbol{A^{dustTE}_{217}}$	1.673	1.67 ± 0.25	z_{drag}	1059.704	1059.66 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040822	1.04079 ± 0.00032	$\boldsymbol{c_{100}}$	0.99820	0.99816 ± 0.00077	r_{drag}	147.281	147.34 ± 0.31
$\boldsymbol{\tau}$	0.0813	0.079 ± 0.017	$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0015	k_D	0.140598	0.14052 ± 0.00033
$\boldsymbol{\ln(10^{10}A_s)}$	3.0970	3.093 ± 0.033	H_0	67.36	67.40 ± 0.62	$100\theta_D$	0.160879	0.16090 ± 0.00018
$\boldsymbol{n_s}$	0.96525	0.9657 ± 0.0047	Ω_Λ	0.6857	0.6864 ± 0.0086	z_{eq}	3392.1	3388 ± 31
$\boldsymbol{r}$	0.0000	< 0.0465	Ω_m	0.3143	0.3136 ± 0.0086	k_{eq}	0.010353	0.010340 ± 0.000096
$\boldsymbol{y_{cal}}$	1.00013	1.0004 ± 0.0025	$\Omega_m h^2$	0.14259	0.1424 ± 0.0013	$100\theta_{eq}$	0.8148	0.8155 ± 0.0060
$\boldsymbol{A^{CIB}_{217}}$	66.1	63.6 ± 6.6	$\Omega_m h^3$	0.096051	0.09598 ± 0.00030	$100\theta_{s,eq}$	0.45022	0.4506 ± 0.0030
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	σ_8	0.8321	0.830 ± 0.013	$r_{drag}/D_V(0.57)$	0.071419	0.07146 ± 0.00047
$\boldsymbol{A^{tSZ}_{143}}$	7.22	5.39 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4664	0.4648 ± 0.0096	$H(0.57)$	92.908	92.91 ± 0.27
$\boldsymbol{A^{PS}_{100}}$	253.3	259 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6230	0.621 ± 0.011	$D_A(0.57)$	1390.9	1390.5 ± 8.3
$\boldsymbol{A^{PS}_{143}}$	39.7	43 ± 8	$\sigma_8/h^{0.5}$	1.0138	1.011 ± 0.016	$F_{AP}(0.57)$	0.67673	0.6766 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	36.2	40 ± 10	$\langle d^2\rangle^{1/2}$	2.5073	2.500 ± 0.039	$f\sigma_8(0.57)$	0.4845	0.4831 ± 0.0079
$\boldsymbol{A^{PS}_{217}}$	99.0	98 ± 10	z_{re}	10.27	$10.0^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.6183	0.617 ± 0.010
$\boldsymbol{A^{kSZ}}$	0.00	< 4.06	$10^9 A_s$	2.213	2.205 ± 0.072	$r_{0.002}$	0.0000	< 0.0424
$\boldsymbol{A^{dustTT}_{100}}$	7.42	7.40 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8809	1.881 ± 0.012	$r_{0.01}$	0.0000	< 0.0444
$\boldsymbol{A^{dustTT}_{143}}$	8.87	8.91 ± 1.8	D_{40}	1239.7	1252^{+14}_{-18}	$\ln(10^{10}A_t)$	−8.08	$-0.65^{+1.4}_{-0.68}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.46	17.0 ± 4.2	D_{220}	5726.7	5726 ± 38	r_{10}	0.0000	< 0.0213
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.8 ± 7.4	D_{810}	2534.8	2535 ± 14	$10^9 A_t$	0.000	< 0.102
$\boldsymbol{A^{dustEE}_{100}}$	0.0811	0.0808 ± 0.0057	D_{1420}	814.77	815.0 ± 4.8	$10^9 A_t e^{-2\tau}$	0.0000	< 0.0872
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04897	0.0484 ± 0.0049	D_{2000}	230.53	230.5 ± 1.6	f^{143}_{2000}	29.04	29.3 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0989	0.100 ± 0.032	$n_{s,0.002}$	0.96525	0.9657 ± 0.0047	$f^{143\times217}_{2000}$	32.03	32.1 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1003	0.0997 ± 0.0068	Y_P	0.245353	0.245345 ± 0.000070	f^{217}_{2000}	105.66	105.7 ± 1.8
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2239	0.224 ± 0.047	Y_P^{BBN}	0.246679	0.246671 ± 0.000071	χ^2_{lowTEB}	10497.13	10499.1 ± 2.7
$\boldsymbol{A^{dustEE}_{217}}$	0.649	0.65 ± 0.13	10^5D/H	2.6085	2.611 ± 0.029	χ^2_{plik}	2431.5	2450.7 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.1405	0.142 ± 0.038	Age/Gyr	13.8084	13.810 ± 0.025	χ^2_{JLA}	706.835	706.87 ± 0.29
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1310	0.132 ± 0.029	z_*	1090.007	1090.01 ± 0.28	χ^2_{prior}	6.98	19.1 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.304 ± 0.084	r_*	144.587	144.64 ± 0.31	χ^2_{CMB}	12928.6	12949.8 ± 6.9
$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.156 ± 0.054	$100\theta_*$	1.041011	1.04099 ± 0.00031			

Best-fit $\chi^2_{eff} = 13642.42$; $\bar{\chi}^2_{eff} = 13675.83$; $R - 1 = 0.00659$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.13 plik_dx11dr2_HM_v18_TTTEEE: 2431.47 SN - JLA December_2013: 706.84

20.9 base_r_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022279	0.02227 ± 0.00016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.339 ± 0.080	D_A/Gpc	13.8919	13.895 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11956	0.1195 ± 0.0014	$\boldsymbol{A^{dustTE}_{217}}$	1.669	1.67 ± 0.25	z_{drag}	1059.704	1059.67 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040794	1.04080 ± 0.00032	$\boldsymbol{c_{100}}$	0.99821	0.99816 ± 0.00077	r_{drag}	147.308	147.35 ± 0.31
$\boldsymbol{\tau}$	0.0822	0.080 ± 0.017	$\boldsymbol{c_{217}}$	0.99591	0.9960 ± 0.0014	k_D	0.140569	0.14052 ± 0.00033
$\boldsymbol{\ln(10^{10}A_s)}$	3.0987	3.093 ± 0.033	H_0	67.39	67.43 ± 0.63	$100\theta_D$	0.160878	0.16090 ± 0.00018
$\boldsymbol{n_s}$	0.96595	0.9658 ± 0.0047	Ω_Λ	0.6862	0.6867 ± 0.0087	z_{eq}	3389.6	3387 ± 32
$\boldsymbol{r}$	0.0000	< 0.0465	Ω_m	0.3138	0.3133 ± 0.0087	k_{eq}	0.010345	0.010337 ± 0.000097
$\boldsymbol{y_{cal}}$	1.00024	1.0004 ± 0.0025	$\Omega_m h^2$	0.14249	0.1424 ± 0.0013	$100\theta_{eq}$	0.8152	0.8157 ± 0.0061
$\boldsymbol{A^{CIB}_{217}}$	64.8	63.5 ± 6.6	$\Omega_m h^3$	0.096023	0.09599 ± 0.00030	$100\theta_{s,eq}$	0.45044	0.4507 ± 0.0031
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.31	—	σ_8	0.8326	0.830 ± 0.013	$r_{drag}/D_V(0.57)$	0.071444	0.07148 ± 0.00048
$\boldsymbol{A^{tSZ}_{143}}$	7.02	5.39 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4664	0.4646 ± 0.0096	$H(0.57)$	92.913	92.92 ± 0.27
$\boldsymbol{A^{PS}_{100}}$	252.5	259 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6232	0.621 ± 0.011	$D_A(0.57)$	1390.5	1390.1 ± 8.5
$\boldsymbol{A^{PS}_{143}}$	43.0	43 ± 8	$\sigma_8/h^{0.5}$	1.0143	1.011 ± 0.016	$F_{AP}(0.57)$	0.67660	0.6765 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	41.8	40 ± 10	$\langle d^2\rangle^{1/2}$	2.5071	2.500 ± 0.040	$f\sigma_8(0.57)$	0.4847	0.4831 ± 0.0079
$\boldsymbol{A^{PS}_{217}}$	101.3	98 ± 10	z_{re}	10.35	$10.1^{+1.6}_{-1.4}$	$\sigma_8(0.57)$	0.6189	0.617 ± 0.010
$\boldsymbol{A^{kSZ}}$	0.00	< 4.05	$10^9 A_s$	2.217	2.206 ± 0.072	$r_{0.002}$	0.0000	< 0.0425
$\boldsymbol{A^{dustTT}_{100}}$	7.37	7.40 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8810	1.880 ± 0.012	$r_{0.01}$	0.0000	< 0.0445
$\boldsymbol{A^{dustTT}_{143}}$	8.86	8.91 ± 1.8	D_{40}	1238.6	1252^{+14}_{-18}	$\ln(10^{10}A_t)$	−8.01	$-0.65^{+1.4}_{-0.68}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.77	17.0 ± 4.2	D_{220}	5725.7	5727 ± 38	r_{10}	0.0000	< 0.0213
$\boldsymbol{A^{dustTT}_{217}}$	82.1	81.8 ± 7.4	D_{810}	2535.7	2535 ± 13	$10^9 A_t$	0.000	< 0.102
$\boldsymbol{A^{dustEE}_{100}}$	0.0811	0.0808 ± 0.0057	D_{1420}	815.28	815.0 ± 4.8	$10^9 A_t e^{-2\tau}$	0.0000	< 0.0872
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04896	0.0484 ± 0.0050	D_{2000}	230.72	230.6 ± 1.6	f^{143}_{2000}	28.79	29.3 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0996	0.100 ± 0.032	$n_{s,0.002}$	0.96595	0.9658 ± 0.0047	$f^{143\times217}_{2000}$	31.89	32.0 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.0997 ± 0.0068	Y_P	0.245353	0.245347 ± 0.000071	f^{217}_{2000}	105.43	105.7 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2241	0.224 ± 0.047	Y_P^{BBN}	0.246679	0.246674 ± 0.000071	χ^2_{lowTEB}	10497.06	10499.1 ± 2.7
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.65 ± 0.13	10^5D/H	2.6085	2.610 ± 0.029	χ^2_{plik}	2431.8	2450.7 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1415	0.142 ± 0.038	Age/Gyr	13.8086	13.809 ± 0.025	χ^2_{H070p6}	0.928	0.94 ± 0.36
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1317	0.132 ± 0.029	z_*	1089.998	1090.00 ± 0.29	χ^2_{prior}	6.71	19.1 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.300	0.304 ± 0.084	r_*	144.613	144.65 ± 0.31	χ^2_{CMB}	12928.8	12949.9 ± 6.9
$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.155 ± 0.054	$100\theta_*$	1.040989	1.04100 ± 0.00031			

Best-fit $\chi^2_{eff} = 12936.47$; $\bar{\chi}^2_{eff} = 12969.93$; $R - 1 = 0.00665$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.06 plik_dx11dr2_HM_v18_TTTEEE: 2431.78 Hubble - H070p6: 0.93

20.10 base_r_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.02225 ± 0.00016	$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.340 ± 0.080	$D_{\rm A}$/Gpc	13.891 ± 0.029
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1197 ± 0.0014	$\boldsymbol{A^{\rm dust}_{217}}$	1.67 ± 0.25	$z_{\rm drag}$	1059.64 ± 0.31
$\boldsymbol{100\theta_{\rm MC}}$	1.04078 ± 0.00032	$\boldsymbol{c_{100}}$	0.99816 ± 0.00076	$r_{\rm drag}$	147.31 ± 0.31
$\boldsymbol{\tau}$	0.079 ± 0.016	$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	$k_{\rm D}$	0.14055 ± 0.00033
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.093 ± 0.031	H_0	67.32 ± 0.64	$100\theta_{\rm D}$	0.16091 ± 0.00018
$\boldsymbol{n_{\rm s}}$	0.9653 ± 0.0047	Ω_Λ	0.6852 ± 0.0088	$z_{\rm eq}$	3392 ± 32
$\boldsymbol{r}$	< 0.0459	$\Omega_{\rm m}$	0.3148 ± 0.0088	$k_{\rm eq}$	0.010353 ± 0.000098
$\boldsymbol{y_{\rm cal}}$	1.0004 ± 0.0025	$\Omega_{\rm m}h^2$	0.1426 ± 0.0013	$100\theta_{\rm eq}$	0.8147 ± 0.0061
$\boldsymbol{A^{\rm CIB}_{217}}$	63.6 ± 6.6	$\Omega_{\rm m}h^3$	0.09598 ± 0.00030	$100\theta_{\rm s,eq}$	0.4502 ± 0.0031
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	σ_8	0.830 ± 0.013	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07140 ± 0.00048
$\boldsymbol{A^{\rm tSZ}_{143}}$	5.37 ± 1.9	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4659 ± 0.0096	$H(0.57)$	92.88 ± 0.27
$\boldsymbol{A^{\rm PS}_{100}}$	259 ± 27	$\sigma_8\Omega_{\rm m}^{0.25}$	0.622 ± 0.010	$D_{\rm A}(0.57)$	1391.5 ± 8.6
$\boldsymbol{A^{\rm PS}_{143}}$	43 ± 8	$\sigma_8/h^{0.5}$	1.012 ± 0.016	$F_{\rm AP}(0.57)$	0.6768 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\langle d^2\rangle^{1/2}$	2.503 ± 0.038	$f\sigma_8(0.57)$	0.4836 ± 0.0077
$\boldsymbol{A^{\rm PS}_{217}}$	98 ± 10	$z_{\rm re}$	10.0 ± 1.4	$\sigma_8(0.57)$	0.6170 ± 0.0096
$\boldsymbol{A^{\rm kSZ}}$	< 4.07	$10^9A_{\rm s}$	$2.205^{+0.067}_{-0.077}$	$r_{0.002}$	< 0.0418
$\boldsymbol{A^{\rm dust}_{100}}^{TT}$	7.40 ± 1.9	$10^9A_{\rm s}e^{-2\tau}$	1.881 ± 0.012	$r_{0.01}$	< 0.0439
$\boldsymbol{A^{\rm dust}_{143}}^{TT}$	8.91 ± 1.8	D_{40}	1253^{+14}_{-18}	$\ln(10^{10}A_{\rm t})$	$-0.67^{+1.4}_{-0.68}$
$\boldsymbol{A^{\rm dust}_{143\times217}}^{TT}$	17.0 ± 4.2	D_{220}	5726 ± 38	r_{10}	< 0.0211
$\boldsymbol{A^{\rm dust}_{217}}^{TT}$	81.8 ± 7.4	D_{810}	2535 ± 14	$10^9A_{\rm t}$	< 0.101
$\boldsymbol{A^{\rm dust}_{100}}^{EE}$	0.0808 ± 0.0057	D_{1420}	814.9 ± 4.8	$10^9A_te^{-2\tau}$	< 0.0863
$\boldsymbol{A^{\rm dust}_{100\times143}}^{EE}$	0.0483 ± 0.0050	D_{2000}	230.5 ± 1.6	f^{143}_{2000}	29.4 ± 2.7
$\boldsymbol{A^{\rm dust}_{100\times217}}^{EE}$	0.100 ± 0.033	$n_{\rm s,0.002}$	0.9653 ± 0.0047	$f^{143\times217}_{2000}$	32.1 ± 1.9
$\boldsymbol{A^{\rm dust}_{143}}^{EE}$	0.0996 ± 0.0068	$Y_{\rm P}$	0.245339 ± 0.000071	f^{217}_{2000}	105.8 ± 1.9
$\boldsymbol{A^{\rm dust}_{143\times217}}^{EE}$	0.224 ± 0.047	$Y_{\rm P}^{\rm BBN}$	0.246665 ± 0.000071	$\chi^2_{\rm lowTEB}$	10499.2 ± 2.6
$\boldsymbol{A^{\rm dust}_{217}}^{EE}$	0.65 ± 0.13	10^5D/H	2.614 ± 0.030	$\chi^2_{\rm plik}$	2450.6 ± 6.7
$\boldsymbol{A^{\rm dust}_{100}}^{TE}$	0.142 ± 0.038	Age/Gyr	13.812 ± 0.025	$\chi^2_{\rm prior}$	19.1 ± 5.5
$\boldsymbol{A^{\rm dust}_{100\times143}}^{TE}$	0.132 ± 0.029	z_*	1090.04 ± 0.29	$\chi^2_{\rm CMB}$	12949.8 ± 6.8
$\boldsymbol{A^{\rm dust}_{100\times217}}^{TE}$	0.303 ± 0.084	r_*	144.60 ± 0.32		
$\boldsymbol{A^{\rm dust}_{143}}^{TE}$	0.156 ± 0.054	$100\theta_*$	1.04097 ± 0.00031		

$\bar{\chi}^2_{\rm eff} = 12968.88$; $R - 1 = 0.00728$

20.11 base_r_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022224	0.02225 ± 0.00023 $(+0.0\sigma)$	Ω_Λ	0.6867	$0.688^{+0.014}_{-0.013}$ $(+0.1\sigma)$	k_D	0.14046	0.14043 ± 0.00051 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.11951	0.1193 ± 0.0022 (-0.1σ)	Ω_m	0.3133	$0.312^{+0.013}_{-0.014}$ (-0.1σ)	$100\theta_D$	0.160959	0.16094 ± 0.00026 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.040926	1.04095 ± 0.00048 $(+0.1\sigma)$	$\Omega_m h^2$	0.14238	0.1421 ± 0.0020 (-0.1σ)	z_{eq}	3387.0	3381 ± 49 (-0.1σ)
$\boldsymbol{\tau}$	0.0780	0.078 ± 0.019 $(+0.1\sigma)$	$\Omega_m h^3$	0.095977	0.09598 ± 0.00045 $(+0.0\sigma)$	$100\theta_{eq}$	0.8156	0.8168 ± 0.0093 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0875	3.086 ± 0.036 (-0.0σ)	σ_8	0.8288	0.827 ± 0.015 (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07149	0.07159 ± 0.00074 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9677	0.9689 ± 0.0062 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4639	0.462 ± 0.013 (-0.1σ)	$H(0.57)$	92.910	92.97 ± 0.42 $(+0.1\sigma)$
$\boldsymbol{r}$	0.0000	< 0.0473 $(+0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6201	0.618 ± 0.013 (-0.1σ)	$D_A(0.57)$	1390.3	1389 ± 13 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00035	1.0003 ± 0.0025 (-0.1σ)	$\sigma_8/h^{0.5}$	1.0094	1.007 ± 0.020 (-0.1σ)	$F_{AP}(0.57)$	0.67649	0.6761 ± 0.0034 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	246.7	244 ± 23 (-0.5σ)	$\langle d^2 \rangle^{1/2}$	2.4887	2.481 ± 0.046 (-0.2σ)	$f\sigma_8(0.57)$	0.4823	0.4811 ± 0.0094 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	35.9	39 ± 8 (-0.6σ)	z_{re}	9.99	$9.86^{+1.8}_{-1.6}$ $(+0.1\sigma)$	$\sigma_8(0.57)$	0.6161	0.615 ± 0.011 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97.7	99 ± 10 $(+0.1\sigma)$	$10^9 A_s$	2.192	2.190 ± 0.079 (-0.0σ)	$r_{0.002}$	0.0000	< 0.0436 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47.6	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.8754	1.874 ± 0.014 (-0.4σ)	$r_{0.01}$	0.0000	< 0.0454 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	3.86	$3.26^{+1.4}_{-2.5}$ (-1.0σ)	D_{40}	1228.3	1240^{+16}_{-19} (-0.5σ)	$\ln(10^{10} A_t)$	-8.16	$-0.66^{+1.5}_{-0.69}$ (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.442	$0.52^{+0.11}_{-0.12}$	D_{220}	5695.9	5693 ± 41 (-0.5σ)	r_{10}	0.0000	< 0.0220 $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.603 (-0.2σ)	D_{810}	2530.5	2530 ± 14 (-0.3σ)	$10^9 A_t$	0.000	< 0.103 $(+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	3.85	$5.22^{+3.6}_{-2.5}$ $(+0.7\sigma)$	D_{1420}	814.3	814.7 ± 5.1 (-0.0σ)	$10^9 A_t e^{-2\tau}$	0.0000	< 0.0886 $(+0.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.984	0.98 ± 0.19	$n_{s,0.002}$	0.9677	0.9689 ± 0.0062 $(+0.4\sigma)$	Y_P^{BBN}	0.246239	0.246248 ± 0.000099 (-3.8σ)
$\boldsymbol{A_{143}^{dust}}$	1.026	1.02 ± 0.18	Y_P	0.244910	0.244921 ± 0.000096 (-3.8σ)	f_{2000}^{143}	28.90	28.5 ± 2.9 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.216	1.22 ± 0.12	Age/Gyr	13.8098	13.805 ± 0.038 (-0.1σ)	f_{2000}^{217}	106.45	106.2 ± 2.0 $(+0.1\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.975	0.98 ± 0.18	z_*	1090.045	1090.00 ± 0.42 (-0.1σ)	$f_{2000}^{143\times217}$	31.63	31.5 ± 2.2 (-0.4σ)
$\boldsymbol{c_{100}}$	0.99673	0.99675 ± 0.00097 (-1.4σ)	r_*	144.671	144.72 ± 0.49 $(+0.1\sigma)$	χ^2_{lowTEB}	10495.78	10497.9 ± 2.6 (-0.3σ)
$\boldsymbol{c_{217}}$	0.99728	0.9972 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.041141	1.04116 ± 0.00047 $(+0.2\sigma)$	$\chi^2_{CamSpec}$	8045.3	8060.0 ± 5.9
$\boldsymbol{\beta_1^1}$	-0.07	-0.1 ± 1.0	z_{drag}	1059.551	1059.58 ± 0.46 (-0.0σ)	χ^2_{prior}	3.36	8.48 ± 3.5 $(+0.3\sigma)$
H_0	67.41	67.53 ± 0.97 $(+0.1\sigma)$	r_{drag}	147.385	147.43 ± 0.48 $(+0.1\sigma)$	χ^2_{CMB}	18541.1	18557.9 ± 6.0 $(+1262.1\sigma)$

Best-fit $\chi^2_{eff} = 18544.48$; $\Delta\chi^2_{eff} = 7282.54$; $\bar{\chi}^2_{eff} = 18566.40$; $\Delta\bar{\chi}^2_{eff} = 7282.84$; $R - 1 = 0.00738$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.78 (Δ -0.72) CamSpec like_v9.10CMH_unified: 8045.33

20.12 base_r_CamSpecHM_TT_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227 ± 0.00020 $(+0.0\sigma)$	$\Omega_m h^2$	0.1417 ± 0.0012 (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07172 ± 0.00043 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1188 ± 0.0013 (-0.0σ)	$\Omega_m h^3$	0.09598 ± 0.00045 $(+0.0\sigma)$	$H(0.57)$	93.04 ± 0.27 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04100 ± 0.00042 $(+0.1\sigma)$	σ_8	0.827 ± 0.015 (-0.0σ)	$D_A(0.57)$	1386.3 ± 7.7 (-0.1σ)
$\boldsymbol{\tau}$	0.079 ± 0.018 $(+0.0\sigma)$	$\sigma_8\Omega_m^{0.5}$	0.460 ± 0.010 (-0.1σ)	$F_{AP}(0.57)$	0.6754 ± 0.0019 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.087 ± 0.035 (-0.1σ)	$\sigma_8\Omega_m^{0.25}$	0.617 ± 0.012 (-0.0σ)	$f\sigma_8(0.57)$	0.4802 ± 0.0088 (-0.0σ)
$\boldsymbol{n_s}$	0.9700 ± 0.0045 $(+0.4\sigma)$	$\sigma_8/h^{0.5}$	1.005 ± 0.018 (-0.0σ)	$\sigma_8(0.57)$	0.616 ± 0.011 (-0.0σ)
$\boldsymbol{r}$	< 0.0476 (-0.0σ)	$\langle d^2\rangle^{1/2}$	2.477 ± 0.043 (-0.2σ)	$r_{0.002}$	< 0.0442 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	z_{re}	$9.98^{+1.7}_{-1.5}$ $(+0.0\sigma)$	$r_{0.01}$	< 0.0459 (-0.0σ)
$\boldsymbol{A_{100}^{PS}}$	244 ± 22 (-0.4σ)	$10^9 A_s$	2.193 ± 0.077 (-0.1σ)	$\ln(10^{10}A_t)$	$-0.64^{+1.5}_{-0.66}$ (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	$10^9 A_s e^{-2\tau}$	1.872 ± 0.012 (-0.4σ)	r_{10}	< 0.0223 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	D_{40}	1238^{+15}_{-18} (-0.5σ)	$10^9 A_t$	< 0.105 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.7σ)	D_{220}	5694 ± 40 (-0.6σ)	$10^9 A_t e^{-2\tau}$	< 0.0893 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.26^{+1.4}_{-2.5}$ (-1.0σ)	D_{810}	2530 ± 14 (-0.3σ)	Y_P^{BBN}	0.246260 ± 0.000086 (-4.5σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{1420}	814.9 ± 5.0 (-0.1σ)	f_{2000}^{143}	28.4 ± 2.9 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$n_{s,0.002}$	0.9700 ± 0.0045 $(+0.4\sigma)$	f_{2000}^{217}	106.1 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	—	Y_P	$0.244932^{+0.000081}_{-0.000089}$ (-4.5σ)	$f_{2000}^{143\times217}$	31.4 ± 2.1 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	Age/Gyr	13.800 ± 0.029 (-0.1σ)	χ^2_{lowTEB}	10497.7 ± 2.6 (-0.3σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	z_*	1089.92 ± 0.30 (-0.1σ)	$\chi^2_{CamSpec}$	8059.6 ± 5.7
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	r_*	144.81 ± 0.32 $(+0.0\sigma)$	χ^2_{6DF}	0.055 ± 0.075 (-0.0σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$100\theta_*$	1.04121 ± 0.00042 $(+0.1\sigma)$	χ^2_{MGS}	1.42 ± 0.56 $(+0.1\sigma)$
$\boldsymbol{c_{100}}$	0.99677 ± 0.00096 (-1.4σ)	z_{drag}	1059.61 ± 0.44 (-0.0σ)	$\chi^2_{DR11CMASS}$	2.87 ± 0.66 (-0.0σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	r_{drag}	147.51 ± 0.35 $(+0.0\sigma)$	$\chi^2_{DR11LOWZ}$	0.67 ± 0.58 (-0.1σ)
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	k_D	0.14037 ± 0.00044 $(+0.0\sigma)$	χ^2_{prior}	8.45 ± 3.5 $(+0.3\sigma)$
H_0	67.72 ± 0.57 $(+0.1\sigma)$	$100\theta_D$	0.16093 ± 0.00025 (-0.1σ)	χ^2_{CMB}	18557.3 ± 5.7 $(+1293.4\sigma)$
Ω_Λ	0.6908 ± 0.0076 $(+0.1\sigma)$	z_{eq}	3372 ± 29 (-0.0σ)	χ^2_{BAO}	5.02 ± 0.98 (-0.0σ)
Ω_m	0.3092 ± 0.0076 (-0.1σ)	$100\theta_{eq}$	0.8186 ± 0.0055 $(+0.0\sigma)$		

$\bar{\chi}^2_{eff} = 18570.77$; $\Delta\bar{\chi}^2_{eff} = 7282.75$; $R - 1 = 0.01022$

20.13 base_r_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02227 \pm 0.00022 \quad (+0.0\sigma)$	Ω_m	$0.310^{+0.012}_{-0.014} \quad (-0.1\sigma)$	z_{eq}	$3373 \pm 46 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0020 \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1418 \pm 0.0019 \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.8184 \pm 0.0087 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04099 \pm 0.00047 \quad (+0.1\sigma)$	$\Omega_m h^3$	$0.09598 \pm 0.00045 \quad (+0.0\sigma)$	$r_{drag}/D_V(0.57)$	$0.07171 \pm 0.00069 \quad (+0.1\sigma)$
$\boldsymbol{\tau}$	$0.079 \pm 0.019 \quad (+0.0\sigma)$	σ_8	$0.827 \pm 0.015 \quad (-0.0\sigma)$	$H(0.57)$	$93.03 \pm 0.39 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.088 \pm 0.036 \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.460 \pm 0.013 \quad (-0.1\sigma)$	$D_A(0.57)$	$1387 \pm 12 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.9698 \pm 0.0059 \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.617 \pm 0.013 \quad (-0.1\sigma)$	$F_{AP}(0.57)$	$0.6755 \pm 0.0031 \quad (-0.1\sigma)$
$\boldsymbol{r}$	$< 0.0479 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$1.005 \pm 0.019 \quad (-0.1\sigma)$	$f\sigma_8(0.57)$	$0.4803 \pm 0.0093 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.478 \pm 0.046 \quad (-0.2\sigma)$	$\sigma_8(0.57)$	$0.616 \pm 0.011 \quad (+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$244 \pm 23 \quad (-0.4\sigma)$	z_{re}	$9.97 \pm 1.7 \quad (+0.0\sigma)$	$r_{0.002}$	$< 0.0443 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.6\sigma)$	$10^9 A_s$	$2.194 \pm 0.079 \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.0461 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.872 \pm 0.013 \quad (-0.4\sigma)$	$\ln(10^{10} A_t)$	$-0.64^{+1.5}_{-0.67} \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.7\sigma)$	D_{40}	$1238^{+16}_{-19} \quad (-0.5\sigma)$	r_{10}	$< 0.0223 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.27^{+1.4}_{-2.6} \quad (-1.0\sigma)$	D_{220}	$5694 \pm 41 \quad (-0.6\sigma)$	$10^9 A_t$	$< 0.105 \quad (-0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.13}$	D_{810}	$2530 \pm 14 \quad (-0.3\sigma)$	$10^9 A_t e^{-2\tau}$	$< 0.0897 \quad (-0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{1420}	$814.9 \pm 5.1 \quad (-0.0\sigma)$	Y_P^{BBN}	$0.246259 \pm 0.000096 \quad (-4.0\sigma)$
$\boldsymbol{A^{kSZ}}$	—	$n_{s,0.002}$	$0.9698 \pm 0.0059 \quad (+0.4\sigma)$	f_{2000}^{143}	$28.4 \pm 2.9 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	Y_P	$0.244932^{+0.000089}_{-0.00010} \quad (-4.0\sigma)$	f_{2000}^{217}	$106.1 \pm 2.0 \quad (+0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Age/Gyr	$13.800 \pm 0.036 \quad (-0.1\sigma)$	$f_{2000}^{143\times217}$	$31.4 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	z_*	$1089.93 \pm 0.40 \quad (-0.1\sigma)$	χ^2_{lowTEB}	$10497.8 \pm 2.7 \quad (-0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	r_*	$144.80 \pm 0.46 \quad (+0.1\sigma)$	$\chi^2_{CamSpec}$	8060.0 ± 5.9
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00097 \quad (-1.4\sigma)$	$100\theta_*$	$1.04120 \pm 0.00046 \quad (+0.1\sigma)$	χ^2_{JLA}	$706.82 \pm 0.38 \quad (-0.1\sigma)$
$\boldsymbol{c_{217}}$	$0.9972 \pm 0.0018 \quad (+0.9\sigma)$	z_{drag}	$1059.61 \pm 0.46 \quad (-0.0\sigma)$	χ^2_{prior}	$8.44 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	r_{drag}	$147.50 \pm 0.46 \quad (+0.1\sigma)$	χ^2_{CMB}	$18557.9 \pm 5.9 \quad (+1266.4\sigma)$
H_0	$67.70 \pm 0.90 \quad (+0.1\sigma)$	k_D	$0.14037 \pm 0.00050 \quad (-0.0\sigma)$		
Ω_Λ	$0.690^{+0.014}_{-0.012} \quad (+0.1\sigma)$	$100\theta_D$	$0.16093 \pm 0.00026 \quad (-0.1\sigma)$		

$\bar{\chi}^2_{eff} = 19273.13$; $\Delta\bar{\chi}^2_{eff} = 7282.80$; $R - 1 = 0.00714$

20.14 base_r_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228 ± 0.00022 $(+0.0\sigma)$	Ω_m	$0.309^{+0.012}_{-0.014}$ (-0.1σ)	z_{eq}	3370 ± 47 (-0.1σ)
$\boldsymbol{\Omega_c h^2}$	0.1188 ± 0.0021 (-0.1σ)	$\Omega_m h^2$	0.1417 ± 0.0020 (-0.1σ)	$100\theta_{eq}$	0.8190 ± 0.0089 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04102 ± 0.00047 $(+0.1\sigma)$	$\Omega_m h^3$	0.09599 ± 0.00045 $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07176 ± 0.00071 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.080 ± 0.019 $(+0.0\sigma)$	σ_8	0.827 ± 0.015 (-0.0σ)	$H(0.57)$	93.06 ± 0.40 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.088 ± 0.036 (-0.0σ)	$\sigma_8 \Omega_m^{0.5}$	0.460 ± 0.013 (-0.1σ)	$D_A(0.57)$	1386 ± 12 (-0.1σ)
$\boldsymbol{n_s}$	0.9702 ± 0.0061 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.617 ± 0.013 (-0.1σ)	$F_{AP}(0.57)$	$0.6753^{+0.0031}_{-0.0035}$ (-0.1σ)
$\boldsymbol{r}$	< 0.0481 (-0.0σ)	$\sigma_8/h^{0.5}$	1.005 ± 0.019 (-0.1σ)	$f\sigma_8(0.57)$	0.4801 ± 0.0094 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	$\langle d^2 \rangle^{1/2}$	2.477 ± 0.046 (-0.2σ)	$\sigma_8(0.57)$	0.616 ± 0.011 $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{100}}$	244 ± 23 (-0.4σ)	z_{re}	$10.0^{+1.8}_{-1.6}$ $(+0.0\sigma)$	$r_{0.002}$	< 0.0447 $(+0.0\sigma)$
$\boldsymbol{A^{PS}_{143}}$	38 ± 8 (-0.6σ)	$10^9 A_s$	2.196 ± 0.079 (-0.0σ)	$r_{0.01}$	< 0.0464 (-0.0σ)
$\boldsymbol{A^{PS}_{217}}$	99 ± 10 $(+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.872 ± 0.014 (-0.4σ)	$\ln(10^{10} A_t)$	$-0.63^{+1.5}_{-0.67}$ (-0.0σ)
$\boldsymbol{A^{CIB}_{217}}$	45 ± 7 (-2.7σ)	D_{40}	1238^{+16}_{-19} (-0.5σ)	r_{10}	< 0.0224 $(+0.0\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.28^{+1.5}_{-2.5}$ (-1.0σ)	D_{220}	5695 ± 41 (-0.5σ)	$10^9 A_t$	< 0.106 (-0.0σ)
$\boldsymbol{r^{PS}_{143\times217}}$	$0.52^{+0.11}_{-0.13}$	D_{810}	2530 ± 14 (-0.3σ)	$10^9 A_t e^{-2\tau}$	< 0.0900 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{1420}	815.0 ± 5.1 (-0.0σ)	Y_P^{BBN}	0.246264 ± 0.000096 (-3.9σ)
$\boldsymbol{A^{kSZ}}$	—	$n_{s,0.002}$	0.9702 ± 0.0061 $(+0.4\sigma)$	f^{143}_{2000}	28.4 ± 2.9 (-0.4σ)
$\boldsymbol{A^{dust}_{100}}$	0.98 ± 0.19	Y_P	$0.244937^{+0.000090}_{-0.00010}$ (-4.0σ)	f^{217}_{2000}	106.1 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	Age/Gyr	13.798 ± 0.037 (-0.1σ)	$f^{143\times217}_{2000}$	31.3 ± 2.2 (-0.4σ)
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.12	z_*	1089.90 ± 0.41 (-0.1σ)	χ^2_{lowTEB}	10497.8 ± 2.7 (-0.3σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	r_*	144.82 ± 0.47 $(+0.1\sigma)$	$\chi^2_{CamSpec}$	8060.1 ± 6.0
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.4σ)	$100\theta_*$	1.04122 ± 0.00046 $(+0.1\sigma)$	χ^2_{H070p6}	0.80 ± 0.48 (-0.1σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	z_{drag}	1059.63 ± 0.46 (-0.0σ)	χ^2_{prior}	8.44 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	r_{drag}	147.52 ± 0.47 $(+0.1\sigma)$	χ^2_{CMB}	18558.0 ± 6.0 $(+1255.8\sigma)$
H_0	67.76 ± 0.93 $(+0.1\sigma)$	k_D	0.14036 ± 0.00051 (-0.0σ)		
Ω_Λ	$0.691^{+0.014}_{-0.012}$ $(+0.1\sigma)$	$100\theta_D$	0.16092 ± 0.00026 (-0.1σ)		

$\bar{\chi}^2_{eff} = 18567.21$; $\Delta\bar{\chi}^2_{eff} = 7282.79$; $R - 1 = 0.00698$

20.15 base_r_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225 ± 0.00023 $(+0.0\sigma)$	Ω_Λ	$0.688^{+0.014}_{-0.013}$ $(+0.1\sigma)$	k_D	0.14043 ± 0.00051 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1192 ± 0.0021 (-0.1σ)	Ω_m	0.312 ± 0.013 (-0.1σ)	$100\theta_D$	0.16094 ± 0.00026 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04095 ± 0.00047 $(+0.1\sigma)$	$\Omega_m h^2$	0.1421 ± 0.0020 (-0.1σ)	z_{eq}	3380 ± 48 (-0.1σ)
$\boldsymbol{\tau}$	$0.079^{+0.016}_{-0.020}$ $(+0.0\sigma)$	$\Omega_m h^3$	0.09598 ± 0.00045 $(+0.0\sigma)$	$100\theta_{eq}$	0.8170 ± 0.0092 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.088^{+0.031}_{-0.038}$ (-0.0σ)	σ_8	$0.828^{+0.013}_{-0.016}$ (-0.0σ)	$r_{drag}/D_V(0.57)$	0.07160 ± 0.00073 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9691 ± 0.0062 $(+0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.462 ± 0.013 (-0.1σ)	$H(0.57)$	92.98 ± 0.41 $(+0.1\sigma)$
$\boldsymbol{r}$	< 0.0470 (-0.0σ)	$\sigma_8 \Omega_m^{0.25}$	0.619 ± 0.013 (-0.1σ)	$D_A(0.57)$	1388 ± 13 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.1σ)	$\sigma_8/h^{0.5}$	1.008 ± 0.019 (-0.1σ)	$F_{AP}(0.57)$	0.6760 ± 0.0033 (-0.1σ)
$\boldsymbol{A_{100}^{PS}}$	244 ± 23 (-0.4σ)	$\langle d^2 \rangle^{1/2}$	2.483 ± 0.045 (-0.2σ)	$f\sigma_8(0.57)$	0.4815 ± 0.0092 (-0.1σ)
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	z_{re}	9.99 ± 1.5 $(+0.0\sigma)$	$\sigma_8(0.57)$	$0.6162^{+0.0095}_{-0.012}$ $(+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$10^9 A_s$	$2.195^{+0.066}_{-0.086}$ (-0.0σ)	$r_{0.002}$	< 0.0434 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_s e^{-2\tau}$	1.873 ± 0.014 (-0.4σ)	$r_{0.01}$	< 0.0452 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.27^{+1.4}_{-2.6}$ (-1.0σ)	D_{40}	1240^{+16}_{-19} (-0.5σ)	$\ln(10^{10} A_t)$	$-0.66^{+1.5}_{-0.68}$ (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	D_{220}	5692 ± 41 (-0.5σ)	r_{10}	< 0.0219 (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{810}	2530 ± 14 (-0.3σ)	$10^9 A_t$	< 0.103 (-0.0σ)
$\boldsymbol{A^{kSZ}}$	—	D_{1420}	814.6 ± 5.1 (-0.0σ)	$10^9 A_t e^{-2\tau}$	< 0.0882 (-0.0σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	$n_{s,0.002}$	0.9691 ± 0.0062 $(+0.4\sigma)$	Y_P^{BBN}	0.246250 ± 0.000098 (-3.9σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Y_P	0.244923 ± 0.000096 (-3.9σ)	f_{2000}^{143}	28.5 ± 2.9 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.11	Age/Gyr	13.805 ± 0.038 (-0.1σ)	f_{2000}^{217}	106.2 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	z_*	1089.99 ± 0.42 (-0.1σ)	$f_{2000}^{143\times217}$	31.4 ± 2.2 (-0.4σ)
$\boldsymbol{c_{100}}$	0.99677 ± 0.00097 (-1.4σ)	r_*	144.73 ± 0.48 $(+0.1\sigma)$	χ^2_{lowTEB}	10497.9 ± 2.6 (-0.3σ)
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	$100\theta_*$	1.04116 ± 0.00046 $(+0.1\sigma)$	$\chi^2_{CamSpec}$	8059.9 ± 5.9
$\boldsymbol{\beta_1^1}$	-0.06 ± 0.99	z_{drag}	1059.59 ± 0.46 (-0.0σ)	χ^2_{prior}	8.44 ± 3.5 $(+0.3\sigma)$
H_0	67.55 ± 0.96 $(+0.1\sigma)$	r_{drag}	147.44 ± 0.48 $(+0.1\sigma)$	χ^2_{CMB}	18557.8 ± 5.9 $(+1270.0\sigma)$

$\bar{\chi}^2_{eff} = 18566.26$; $\Delta\bar{\chi}^2_{eff} = 7282.87$; $R - 1 = 0.00770$

20.16 base_r_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022352	0.02237 ± 0.00016 $(+0.7\sigma)$	H_0	67.60	67.73 ± 0.65 $(+0.7\sigma)$	$k_{\rm D}$	0.140615	0.14056 ± 0.00035 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11917	0.1189 ± 0.0015 (-0.6σ)	Ω_Λ	0.6889	0.6906 ± 0.0088 $(+0.6\sigma)$	$100\theta_{\rm D}$	0.160777	0.16078 ± 0.00019 (-0.8σ)
$\boldsymbol{100\theta_{MC}}$	1.040827	1.04086 ± 0.00030 $(+0.3\sigma)$	$\Omega_{\rm m}$	0.3111	0.3094 ± 0.0088 (-0.6σ)	$z_{\rm eq}$	3381.9	3375 ± 33 (-0.5σ)
$\boldsymbol{\tau}$	0.0765	0.076 ± 0.017 (-0.1σ)	$\Omega_{\rm m}h^2$	0.14216	0.1419 ± 0.0014 (-0.5σ)	$100\theta_{\rm eq}$	0.8168	0.8182 ± 0.0062 $(+0.6\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	3.0829	3.083 ± 0.033 (-0.3σ)	$\Omega_{\rm m}h^3$	0.096103	0.09609 ± 0.00030 $(+0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071583	0.07169 ± 0.00049 $(+0.6\sigma)$
$\boldsymbol{n_s}$	0.96739	0.9694 ± 0.0048 $(+0.9\sigma)$	σ_8	0.8250	0.824 ± 0.013 (-0.4σ)	$H(0.57)$	93.016	93.07 ± 0.28 $(+0.7\sigma)$
$\boldsymbol{r}$	0.0001	< 0.0726 $(+0.6\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4601	0.4586 ± 0.0097 (-0.7σ)	$D_{\rm A}(0.57)$	1387.6	1385.9 ± 8.7 (-0.7σ)
$\boldsymbol{y_{cal}}$	0.99998	1.0004 ± 0.0024 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6161	0.615 ± 0.011 (-0.6σ)	$F_{\rm AP}(0.57)$	0.67593	0.6755 ± 0.0022 (-0.6σ)
$\boldsymbol{A_{100}^{PS}}$	246.7	242 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0034	1.002 ± 0.016 (-0.6σ)	$f\sigma_8(0.57)$	0.4796	0.4788 ± 0.0079 (-0.6σ)
$\boldsymbol{A_{143}^{PS}}$	34.7	38 ± 7 (-0.7σ)	$\langle d^2\rangle^{1/2}$	2.4796	2.472 ± 0.039 (-0.7σ)	$\sigma_8(0.57)$	0.6138	0.614 ± 0.010 (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	97.6	99 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	9.80	$9.71^{+1.6}_{-1.4}$ (-0.2σ)	$r_{0.002}$	0.0001	< 0.0679 $(+0.7\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46.4	45 ± 7 (-2.8σ)	$10^9A_{\rm s}$	2.182	2.183 ± 0.071 (-0.3σ)	$r_{0.01}$	0.0001	< 0.0702 $(+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	3.40	$3.47^{+1.7}_{-2.5}$ (-1.0σ)	$10^9A_{\rm s}e^{-2\tau}$	1.8727	1.873 ± 0.012 (-0.7σ)	$\ln(10^{10}A_{\rm t})$	-5.83	$-0.17^{+1.3}_{-0.56}$ $(+0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.418	0.52 ± 0.11	D_{40}	1228.7	1246^{+16}_{-20} (-0.4σ)	r_{10}	0.0001	< 0.0342 $(+0.7\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.005	< 0.612 (-0.2σ)	D_{220}	5708.8	5707 ± 39 (-0.5σ)	$10^9A_{\rm t}$	0.000	< 0.158 $(+0.6\sigma)$
$\boldsymbol{A^{kSZ}}$	4.83	—	D_{810}	2528.2	2531 ± 13 (-0.3σ)	$10^9A_te^{-2\tau}$	0.000	< 0.136 $(+0.6\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.9995	0.98 ± 0.19	D_{1420}	813.95	815.5 ± 4.7 $(+0.1\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246295	0.246300 ± 0.000070 (-5.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.031	1.02 ± 0.18	$n_{\rm s,0.002}$	0.96739	0.9694 ± 0.0048 $(+0.9\sigma)$	f_{2000}^{143}	28.74	28.0 ± 2.7 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.223	1.22 ± 0.12	$Y_{\rm P}$	0.244964	$0.244971^{+0.000067}_{-0.000076}$ (-5.1σ)	f_{2000}^{217}	106.23	105.8 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.955	0.98 ± 0.18	Age/Gyr	13.7986	13.795 ± 0.026 (-0.7σ)	$f_{2000}^{143\times217}$	31.26	31.0 ± 2.0 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99667	0.99676 ± 0.00097 (-1.8σ)	z_*	1089.851	1089.81 ± 0.29 (-0.8σ)	$\chi^2_{\rm lowTEB}$	10495.74	10498.4 ± 2.7 (-0.3σ)
$\boldsymbol{c_{217}}$	0.99717	0.9970 ± 0.0018 $(+0.7\sigma)$	r_*	144.662	144.73 ± 0.32 $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12936.0	12951.5 ± 6.0
$\boldsymbol{c_{TE}}$	1.00417	1.0045 ± 0.0044	$100\theta_*$	1.041023	1.04105 ± 0.00030 $(+0.3\sigma)$	$\chi^2_{\rm prior}$	3.73	8.97 ± 3.5 (-1.8σ)
$\boldsymbol{c_{EE}}$	1.00095	1.0011 ± 0.0042	$z_{\rm drag}$	1059.818	1059.83 ± 0.33 $(+0.6\sigma)$	$\chi^2_{\rm CMB}$	23431.8	23449.8 ± 6.1 $(+1531.6\sigma)$
$\boldsymbol{\beta_1^1}$	-0.07	-0.1 ± 1.0	$r_{\rm drag}$	147.333	147.40 ± 0.32 $(+0.3\sigma)$			

Best-fit $\chi^2_{\rm eff} = 23435.48$; $\Delta\chi^2_{\rm eff} = 10499.90$; $\bar{\chi}^2_{\rm eff} = 23458.82$; $\Delta\bar{\chi}^2_{\rm eff} = 10489.83$; $R - 1 = 0.01281$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.74 (Δ -1.47) CamSpec like_v9.10CMH_unified: 12936.01

20.17 base_r_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02237 ± 0.00014 $(+0.6\sigma)$	Ω_m	0.3086 ± 0.0064 (-0.5σ)	$r_{drag}/D_V(0.57)$	0.07173 ± 0.00036 $(+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1187 ± 0.0011 (-0.4σ)	$\Omega_m h^2$	0.1418 ± 0.0010 (-0.4σ)	$H(0.57)$	93.09 ± 0.22 $(+0.6\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04087 ± 0.00029 $(+0.1\sigma)$	$\Omega_m h^3$	0.09609 ± 0.00030 $(+0.3\sigma)$	$D_A(0.57)$	1385.2 ± 6.4 (-0.5σ)
$\boldsymbol{\tau}$	0.077 ± 0.016 (-0.2σ)	σ_8	0.825 ± 0.013 (-0.4σ)	$F_{AP}(0.57)$	0.6753 ± 0.0016 (-0.5σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.084 ± 0.032 (-0.4σ)	$\sigma_8 \Omega_m^{0.5}$	0.4580 ± 0.0086 (-0.6σ)	$f\sigma_8(0.57)$	0.4786 ± 0.0077 (-0.5σ)
$\boldsymbol{n_s}$	0.9697 ± 0.0041 $(+0.8\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.614 ± 0.010 (-0.6σ)	$\sigma_8(0.57)$	0.6141 ± 0.0098 (-0.3σ)
$\boldsymbol{r}$	< 0.0725 $(+0.6\sigma)$	$\sigma_8/h^{0.5}$	1.001 ± 0.016 (-0.5σ)	$r_{0.002}$	< 0.0679 $(+0.6\sigma)$
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0024 (-0.0σ)	$\langle d^2 \rangle^{1/2}$	2.471 ± 0.039 (-0.7σ)	$r_{0.01}$	< 0.0702 $(+0.6\sigma)$
$\boldsymbol{A_{100}^{PS}}$	242 ± 22 (-0.6σ)	z_{re}	$9.77^{+1.6}_{-1.4}$ (-0.3σ)	$\ln(10^{10} A_t)$	$-0.16^{+1.3}_{-0.56}$ $(+0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.7σ)	$10^9 A_s$	2.185 ± 0.070 (-0.4σ)	r_{10}	< 0.0342 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.872 ± 0.011 (-0.6σ)	$10^9 A_t$	< 0.158 $(+0.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	D_{40}	1246^{+16}_{-20} (-0.3σ)	$10^9 A_t e^{-2\tau}$	< 0.136 $(+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.48^{+1.7}_{-2.5}$ (-1.0σ)	D_{220}	5708 ± 38 (-0.5σ)	Y_P^{BBN}	0.246304 ± 0.000063 (-5.9σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	D_{810}	2531 ± 13 (-0.3σ)	f_{2000}^{143}	28.0 ± 2.6 (-0.5σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.615 (-0.3σ)	D_{1420}	815.6 ± 4.6 $(+0.1\sigma)$	f_{2000}^{217}	105.8 ± 1.8 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	—	$n_{s,0.002}$	0.9697 ± 0.0041 $(+0.8\sigma)$	$f_{2000}^{143\times217}$	30.9 ± 1.9 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	Y_P	$0.244975^{+0.000061}_{-0.000070}$ (-5.9σ)	χ^2_{lowTEB}	10498.3 ± 2.6 (-0.3σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Age/Gyr	13.793 ± 0.021 (-0.6σ)	$\chi^2_{CamSpec}$	12951.0 ± 5.9
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	z_*	1089.79 ± 0.24 (-0.7σ)	χ^2_{6DF}	0.041 ± 0.055 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	r_*	144.76 ± 0.25 $(+0.2\sigma)$	χ^2_{MGS}	1.43 ± 0.47 $(+0.5\sigma)$
$\boldsymbol{c_{100}}$	0.99678 ± 0.00098 (-1.8σ)	$100\theta_*$	1.04107 ± 0.00028 $(+0.1\sigma)$	$\chi^2_{DR11CMASS}$	2.74 ± 0.46 (-0.2σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	z_{drag}	1059.84 ± 0.31 $(+0.5\sigma)$	$\chi^2_{DR11LOWZ}$	0.61 ± 0.47 (-0.4σ)
$\boldsymbol{c_{TE}}$	1.0045 ± 0.0045	r_{drag}	147.42 ± 0.26 $(+0.1\sigma)$	χ^2_{prior}	8.97 ± 3.6 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0011 ± 0.0042	k_D	0.14054 ± 0.00031 $(+0.2\sigma)$	χ^2_{CMB}	23449.4 ± 5.9 $(+1542.7\sigma)$
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	$100\theta_D$	0.16077 ± 0.00018 (-0.7σ)	χ^2_{BAO}	4.83 ± 0.68 (-0.2σ)
H_0	67.79 ± 0.48 $(+0.5\sigma)$	z_{eq}	3372 ± 24 (-0.4σ)		
Ω_Λ	0.6914 ± 0.0064 $(+0.5\sigma)$	$100\theta_{eq}$	0.8187 ± 0.0046 $(+0.4\sigma)$		

$\bar{\chi}^2_{eff} = 23463.17$; $\Delta\bar{\chi}^2_{eff} = 10489.50$; $R - 1 = 0.01444$

20.18 base_r_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02238 ± 0.00016 $(+0.7\sigma)$	H_0	67.80 ± 0.63 $(+0.6\sigma)$	k_D	0.14054 ± 0.00034 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1187 ± 0.0014 (-0.6σ)	Ω_Λ	0.6915 ± 0.0085 $(+0.6\sigma)$	$100\theta_D$	0.16077 ± 0.00019 (-0.7σ)
$\boldsymbol{100\theta_{MC}}$	1.04087 ± 0.00030 $(+0.2\sigma)$	Ω_m	0.3085 ± 0.0085 (-0.6σ)	z_{eq}	3372 ± 32 (-0.5σ)
$\boldsymbol{\tau}$	0.077 ± 0.017 (-0.1σ)	$\Omega_m h^2$	0.1417 ± 0.0013 (-0.5σ)	$100\theta_{eq}$	0.8188 ± 0.0060 $(+0.5\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.084 ± 0.033 (-0.3σ)	$\Omega_m h^3$	0.09609 ± 0.00030 $(+0.4\sigma)$	$r_{drag}/D_V(0.57)$	0.07174 ± 0.00048 $(+0.6\sigma)$
$\boldsymbol{n_s}$	0.9698 ± 0.0047 $(+0.9\sigma)$	σ_8	0.824 ± 0.013 (-0.4σ)	$H(0.57)$	93.10 ± 0.27 $(+0.7\sigma)$
$\boldsymbol{r}$	< 0.0731 $(+0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4579 ± 0.0096 (-0.7σ)	$D_A(0.57)$	1385.1 ± 8.4 (-0.6σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0024 (-0.0σ)	$\sigma_8 \Omega_m^{0.25}$	0.614 ± 0.011 (-0.6σ)	$F_{AP}(0.57)$	0.6753 ± 0.0022 (-0.6σ)
$\boldsymbol{A_{100}^{PS}}$	242 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	1.001 ± 0.016 (-0.6σ)	$f\sigma_8(0.57)$	0.4785 ± 0.0079 (-0.6σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.7σ)	$\langle d^2 \rangle^{1/2}$	2.471 ± 0.039 (-0.7σ)	$\sigma_8(0.57)$	0.6141 ± 0.0099 (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	z_{re}	$9.77^{+1.6}_{-1.4}$ (-0.2σ)	$r_{0.002}$	< 0.0683 $(+0.7\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$10^9 A_s$	2.185 ± 0.071 (-0.3σ)	$r_{0.01}$	< 0.0707 $(+0.6\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.48^{+1.7}_{-2.4}$ (-1.0σ)	$10^9 A_s e^{-2\tau}$	1.872 ± 0.011 (-0.7σ)	$\ln(10^{10} A_t)$	$-0.15^{+1.3}_{-0.56}$ $(+0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	D_{40}	1246^{+16}_{-20} (-0.4σ)	r_{10}	< 0.0345 $(+0.7\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.616 (-0.2σ)	D_{220}	5708 ± 38 (-0.5σ)	$10^9 A_t$	< 0.159 $(+0.6\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{810}	2531 ± 13 (-0.3σ)	$10^9 A_t e^{-2\tau}$	< 0.137 $(+0.6\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{1420}	815.6 ± 4.7 $(+0.1\sigma)$	Y_P^{BBN}	0.246305 ± 0.000068 (-5.2σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{s,0.002}$	0.9698 ± 0.0047 $(+0.9\sigma)$	f_{2000}^{143}	28.0 ± 2.7 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Y_P	$0.244976^{+0.000066}_{-0.000076}$ (-5.2σ)	f_{2000}^{217}	105.8 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	13.793 ± 0.025 (-0.7σ)	$f_{2000}^{143\times217}$	30.9 ± 2.0 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99677 ± 0.00098 (-1.8σ)	z_*	1089.79 ± 0.28 (-0.8σ)	χ^2_{lowTEB}	10498.4 ± 2.7 (-0.3σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	r_*	144.76 ± 0.31 $(+0.4\sigma)$	$\chi^2_{CamSpec}$	12951.4 ± 6.0
$\boldsymbol{c_{TE}}$	1.0045 ± 0.0045	$100\theta_*$	1.04107 ± 0.00030 $(+0.2\sigma)$	χ^2_{JLA}	706.73 ± 0.23 (-0.5σ)
$\boldsymbol{c_{EE}}$	1.0011 ± 0.0042	z_{drag}	1059.84 ± 0.32 $(+0.6\sigma)$	χ^2_{prior}	8.97 ± 3.6 (-1.8σ)
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	r_{drag}	147.43 ± 0.31 $(+0.3\sigma)$	χ^2_{CMB}	23449.8 ± 6.1 $(+1530.5\sigma)$

$\bar{\chi}^2_{eff} = 24165.50$; $\Delta\bar{\chi}^2_{eff} = 10489.67$; $R - 1 = 0.01216$

20.19 base_r_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02238 ± 0.00016 $(+0.7\sigma)$	H_0	67.83 ± 0.64 $(+0.6\sigma)$	k_D	0.14053 ± 0.00034 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1187 ± 0.0014 (-0.6σ)	Ω_Λ	0.6919 ± 0.0086 $(+0.6\sigma)$	$100\theta_D$	0.16076 ± 0.00019 (-0.8σ)
$\boldsymbol{100\theta_{MC}}$	1.04088 ± 0.00030 $(+0.2\sigma)$	Ω_m	0.3081 ± 0.0086 (-0.6σ)	z_{eq}	3370 ± 32 (-0.5σ)
$\boldsymbol{\tau}$	0.077 ± 0.017 (-0.1σ)	$\Omega_m h^2$	0.1417 ± 0.0013 (-0.5σ)	$100\theta_{eq}$	0.8191 ± 0.0061 $(+0.6\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.084 ± 0.033 (-0.3σ)	$\Omega_m h^3$	0.09610 ± 0.00030 $(+0.3\sigma)$	$r_{drag}/D_V(0.57)$	0.07176 ± 0.00048 $(+0.6\sigma)$
$\boldsymbol{n_s}$	0.9700 ± 0.0048 $(+0.9\sigma)$	σ_8	0.824 ± 0.013 (-0.4σ)	$H(0.57)$	93.11 ± 0.28 $(+0.7\sigma)$
$\boldsymbol{r}$	< 0.0734 $(+0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4576 ± 0.0096 (-0.7σ)	$D_A(0.57)$	1384.6 ± 8.5 (-0.7σ)
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0024 (-0.0σ)	$\sigma_8 \Omega_m^{0.25}$	0.614 ± 0.011 (-0.6σ)	$F_{AP}(0.57)$	0.6751 ± 0.0022 (-0.6σ)
$\boldsymbol{A_{100}^{PS}}$	242 ± 22 (-0.6σ)	$\sigma_8/h^{0.5}$	1.001 ± 0.016 (-0.6σ)	$f\sigma_8(0.57)$	0.4784 ± 0.0079 (-0.6σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 7 (-0.7σ)	$\langle d^2 \rangle^{1/2}$	2.471 ± 0.039 (-0.7σ)	$\sigma_8(0.57)$	0.614 ± 0.010 (-0.3σ)
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	z_{re}	$9.80^{+1.6}_{-1.4}$ (-0.2σ)	$r_{0.002}$	< 0.0687 $(+0.7\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$10^9 A_s$	2.186 ± 0.071 (-0.3σ)	$r_{0.01}$	< 0.0711 $(+0.7\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.49^{+1.7}_{-2.5}$ (-1.0σ)	$10^9 A_s e^{-2\tau}$	1.872 ± 0.011 (-0.7σ)	$\ln(10^{10} A_t)$	$-0.15^{+1.3}_{-0.56}$ $(+0.4\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	D_{40}	1245^{+16}_{-20} (-0.4σ)	r_{10}	< 0.0346 $(+0.7\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.616 (-0.2σ)	D_{220}	5708 ± 38 (-0.5σ)	$10^9 A_t$	< 0.160 $(+0.6\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{810}	2531 ± 13 (-0.3σ)	$10^9 A_t e^{-2\tau}$	< 0.137 $(+0.6\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.98 ± 0.19	D_{1420}	815.7 ± 4.7 $(+0.1\sigma)$	Y_P^{BBN}	0.246308 ± 0.000069 (-5.2σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	$n_{s,0.002}$	0.9700 ± 0.0048 $(+0.9\sigma)$	f_{2000}^{143}	27.9 ± 2.7 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	Y_P	$0.244979^{+0.000066}_{-0.000076}$ (-5.2σ)	f_{2000}^{217}	105.8 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	13.791 ± 0.025 (-0.7σ)	$f_{2000}^{143\times217}$	30.9 ± 2.0 (-0.6σ)
$\boldsymbol{c_{100}}$	0.99678 ± 0.00098 (-1.8σ)	z_*	1089.77 ± 0.29 (-0.8σ)	χ^2_{lowTEB}	10498.4 ± 2.7 (-0.3σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	r_*	144.77 ± 0.32 $(+0.4\sigma)$	$\chi^2_{CamSpec}$	12951.5 ± 6.0
$\boldsymbol{c_{TE}}$	1.0045 ± 0.0045	$100\theta_*$	1.04108 ± 0.00030 $(+0.3\sigma)$	χ^2_{H070p6}	0.73 ± 0.32 (-0.6σ)
$\boldsymbol{c_{EE}}$	1.0011 ± 0.0042	z_{drag}	1059.86 ± 0.32 $(+0.6\sigma)$	χ^2_{prior}	8.97 ± 3.6 (-1.8σ)
$\boldsymbol{\beta_1^1}$	-0.07 ± 0.98	r_{drag}	147.44 ± 0.32 $(+0.3\sigma)$	χ^2_{CMB}	23449.9 ± 6.1 $(+1528.7\sigma)$

$\bar{\chi}^2_{eff} = 23459.56$; $\Delta\bar{\chi}^2_{eff} = 10489.63$; $R - 1 = 0.01238$

20.20 base_r_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00016 \quad (+0.7\sigma)$	H_0	$67.74 \pm 0.64 \quad (+0.7\sigma)$	k_D	$0.14055 \pm 0.00034 \quad (+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1188 \pm 0.0014 \quad (-0.6\sigma)$	Ω_Λ	$0.6907 \pm 0.0087 \quad (+0.6\sigma)$	$100\theta_D$	$0.16077 \pm 0.00019 \quad (-0.8\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04086 \pm 0.00031 \quad (+0.3\sigma)$	Ω_m	$0.3093 \pm 0.0087 \quad (-0.6\sigma)$	z_{eq}	$3375 \pm 32 \quad (-0.5\sigma)$
$\boldsymbol{\tau}$	$0.077^{+0.015}_{-0.018} \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1419 \pm 0.0014 \quad (-0.5\sigma)$	$100\theta_{eq}$	$0.8183 \pm 0.0062 \quad (+0.6\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.085^{+0.030}_{-0.034} \quad (-0.3\sigma)$	$\Omega_m h^3$	$0.09609 \pm 0.00030 \quad (+0.4\sigma)$	$r_{drag}/D_V(0.57)$	$0.07170 \pm 0.00049 \quad (+0.6\sigma)$
$\boldsymbol{n_s}$	$0.9695 \pm 0.0048 \quad (+0.9\sigma)$	σ_8	$0.825 \pm 0.012 \quad (-0.4\sigma)$	$H(0.57)$	$93.07 \pm 0.28 \quad (+0.7\sigma)$
$\boldsymbol{r}$	$< 0.0721 \quad (+0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.4588 \pm 0.0096 \quad (-0.7\sigma)$	$D_A(0.57)$	$1385.8 \pm 8.6 \quad (-0.7\sigma)$
$\boldsymbol{y_{cal}}$	$1.0004 \pm 0.0024 \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.615 \pm 0.010 \quad (-0.6\sigma)$	$F_{AP}(0.57)$	$0.6754 \pm 0.0022 \quad (-0.6\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$242 \pm 22 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.003 \pm 0.016 \quad (-0.6\sigma)$	$f\sigma_8(0.57)$	$0.4791 \pm 0.0076 \quad (-0.6\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$38 \pm 7 \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.474 \pm 0.038 \quad (-0.8\sigma)$	$\sigma_8(0.57)$	$0.6144^{+0.0091}_{-0.010} \quad (-0.3\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$99 \pm 10 \quad (+0.1\sigma)$	z_{re}	$9.81 \pm 1.4 \quad (-0.2\sigma)$	$r_{0.002}$	$< 0.0675 \quad (+0.7\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$45 \pm 7 \quad (-2.8\sigma)$	$10^9 A_s$	$2.187^{+0.064}_{-0.077} \quad (-0.3\sigma)$	$r_{0.01}$	$< 0.0698 \quad (+0.6\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.47^{+1.7}_{-2.4} \quad (-1.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.873 \pm 0.012 \quad (-0.7\sigma)$	$\ln(10^{10} A_t)$	$-0.17^{+1.3}_{-0.57} \quad (+0.4\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.52^{+0.11}_{-0.13}$	D_{40}	$1246^{+16}_{-20} \quad (-0.4\sigma)$	r_{10}	$< 0.0340 \quad (+0.7\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.615 \quad (-0.2\sigma)$	D_{220}	$5707 \pm 39 \quad (-0.5\sigma)$	$10^9 A_t$	$< 0.158 \quad (+0.6\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{810}	$2531 \pm 13 \quad (-0.4\sigma)$	$10^9 A_t e^{-2\tau}$	$< 0.135 \quad (+0.6\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.98 ± 0.19	D_{1420}	$815.5 \pm 4.7 \quad (+0.1\sigma)$	Y_P^{BBN}	$0.246302 \pm 0.000069 \quad (-5.1\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.02 ± 0.18	$n_{s,0.002}$	$0.9695 \pm 0.0048 \quad (+0.9\sigma)$	f^{143}_{2000}	$28.0 \pm 2.7 \quad (-0.5\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.12	Y_P	$0.244973^{+0.000066}_{-0.000076} \quad (-5.1\sigma)$	f^{217}_{2000}	$105.8 \pm 1.9 \quad (+0.0\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	Age/Gyr	$13.794 \pm 0.026 \quad (-0.7\sigma)$	$f^{143\times217}_{2000}$	$31.0 \pm 2.0 \quad (-0.6\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00098 \quad (-1.8\sigma)$	z_*	$1089.81 \pm 0.29 \quad (-0.8\sigma)$	χ^2_{lowTEB}	$10498.4 \pm 2.7 \quad (-0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	r_*	$144.73 \pm 0.32 \quad (+0.4\sigma)$	$\chi^2_{CamSpec}$	12951.3 ± 6.0
$\boldsymbol{c_{TE}}$	1.0045 ± 0.0045	$100\theta_*$	$1.04105 \pm 0.00030 \quad (+0.3\sigma)$	χ^2_{prior}	$8.96 \pm 3.5 \quad (-1.8\sigma)$
$\boldsymbol{c_{EE}}$	1.0010 ± 0.0042	z_{drag}	$1059.84 \pm 0.32 \quad (+0.6\sigma)$	χ^2_{CMB}	$23449.7 \pm 6.0 \quad (+1538.2\sigma)$
$\boldsymbol{\beta^1_1}$	-0.07 ± 0.98	r_{drag}	$147.40 \pm 0.32 \quad (+0.3\sigma)$		

$\bar{\chi}^2_{eff} = 23458.69$; $\Delta\bar{\chi}^2_{eff} = 10489.81$; $R - 1 = 0.01198$

20.21 base_r_plikHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022403	0.02241 ± 0.00025	$\sigma_8\Omega_m^{0.25}$	0.5998	0.598 ± 0.017	k_D	0.14029	0.14027 ± 0.00059
$\boldsymbol{\Omega_c h^2}$	0.11771	0.1176 ± 0.0020	$\sigma_8/h^{0.5}$	0.9793	0.977 ± 0.026	$100\theta_D$	0.160799	0.16081 ± 0.00031
$\boldsymbol{100\theta_{MC}}$	1.04101	1.04105 ± 0.00052	$\langle d^2\rangle^{1/2}$	2.407	2.399 ± 0.057	z_{eq}	3348.4	3346 ± 46
$\boldsymbol{\tau}$	0.0625	0.061 ± 0.021	z_{re}	8.45	$8.13^{+2.3}_{-1.9}$	k_{eq}	0.010220	0.01021 ± 0.00014
$\boldsymbol{\ln(10^{10}A_s)}$	3.0497	3.046 ± 0.045	$10^9 A_s$	2.111	$2.105^{+0.092}_{-0.10}$	$100\theta_{eq}$	0.8232	0.8238 ± 0.0087
$\boldsymbol{n_s}$	0.9756	0.977 ± 0.011	$10^9 A_s e^{-2\tau}$	1.8628	1.863 ± 0.019	$100\theta_{s,eq}$	0.45453	0.4548 ± 0.0045
$\boldsymbol{r}$	0.0013	< 0.0649	D_{40}	1200.8	1217 ± 26	$r_{drag}/D_V(0.57)$	0.07208	0.07214 ± 0.00069
$\boldsymbol{y_{cal}}$	0.99998	1.0001 ± 0.0025	D_{220}	5673	5670 ± 57	$H(0.57)$	93.252	93.29 ± 0.40
$\boldsymbol{A_{100}^{dustTE}}$	0.1369	0.138 ± 0.038	D_{810}	2526.8	2528 ± 26	$D_A(0.57)$	1379.6	1379 ± 12
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1303	0.133 ± 0.029	D_{1420}	816.7	818 ± 12	$F_{AP}(0.57)$	0.67372	0.6735 ± 0.0030
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.308	0.303 ± 0.084	D_{2000}	231.16	231.5 ± 4.4	$f\sigma_8(0.57)$	0.4679	0.467 ± 0.013
$\boldsymbol{A_{143}^{dustTE}}$	0.143	0.153 ± 0.054	$n_{s,0.002}$	0.9756	0.977 ± 0.011	$\sigma_8(0.57)$	0.6039	0.603 ± 0.014
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.347	0.334 ± 0.081	Y_P	0.245407	0.24541 ± 0.00011	$r_{0.002}$	0.0012	< 0.0620
$\boldsymbol{A_{217}^{dustTE}}$	1.680	1.65 ± 0.26	Y_P^{BBN}	0.246734	0.24674 ± 0.00011	$r_{0.01}$	0.0013	< 0.0634
$\boldsymbol{c_{100}}$	0.99920	0.9992 ± 0.0010	10^5D/H	2.5851	2.585 ± 0.046	$\ln(10^{10}A_t)$	-3.58	$-0.36^{+1.4}_{-0.67}$
H_0	68.22	68.29 ± 0.89	Age/Gyr	13.7816	13.779 ± 0.038	r_{10}	0.0006	< 0.0316
Ω_Λ	0.6975	0.698 ± 0.012	z_*	1089.679	1089.66 ± 0.41	$10^9 A_t$	0.003	< 0.136
Ω_m	0.3025	0.302 ± 0.012	r_*	144.999	145.03 ± 0.48	$10^9 A_t e^{-2\tau}$	0.002	< 0.121
$\Omega_m h^2$	0.14076	0.1407 ± 0.0019	$100\theta_*$	1.04119	1.04123 ± 0.00052	χ^2_{lowTEB}	10493.14	10495.7 ± 2.5
$\Omega_m h^3$	0.09603	0.09603 ± 0.00053	D_A/Gpc	13.9262	13.928 ± 0.045	χ^2_{plikTE}	931.87	939.4 ± 4.3
σ_8	0.8088	0.807 ± 0.020	z_{drag}	1059.86	1059.85 ± 0.54	χ^2_{prior}	2.15	7.84 ± 3.6
$\sigma_8\Omega_m^{0.5}$	0.4448	0.444 ± 0.015	r_{drag}	147.66	147.69 ± 0.50	χ^2_{CMB}	11425.01	11435.0 ± 4.5

Best-fit $\chi^2_{eff} = 11427.16$; $\bar{\chi}^2_{eff} = 11442.90$; $R - 1 = 0.00749$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.14 plik_dx11dr2_HM_v18_TE: 931.87

20.22 base_r_plikHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02412	0.0242 ± 0.0014	$\sigma_8/h^{0.5}$	0.9411	0.932 ± 0.046	$100\theta_{\rm D}$	0.15869	$0.1588^{+0.0013}_{-0.0015}$
$\boldsymbol{\Omega_c h^2}$	0.11237	0.1116 ± 0.0048	$\langle d^2\rangle^{1/2}$	2.355	2.326 ± 0.089	$z_{\rm eq}$	3262	3246^{+85}_{-95}
$\boldsymbol{100\theta_{\rm MC}}$	1.04010	1.04020 ± 0.00094	$z_{\rm re}$	8.42	$8.00^{+2.1}_{-1.8}$	$k_{\rm eq}$	0.009955	$0.00991^{+0.00026}_{-0.00029}$
$\boldsymbol{\tau}$	0.0675	0.064 ± 0.021	$10^9 A_{\rm s}$	2.168	2.150 ± 0.093	$100\theta_{\rm eq}$	0.8437	0.848 ± 0.021
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0764	3.067 ± 0.043	$10^9 A_{\rm s} e^{-2\tau}$	1.8942	1.889 ± 0.026	$100\theta_{\rm s,eq}$	0.4638	0.4657 ± 0.0098
$\boldsymbol{n_{\rm s}}$	0.9867	0.993 ± 0.015	D_{40}	1223.0	1235 ± 31	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07383	0.0742 ± 0.0019
$\boldsymbol{r}$	0.0000	< 0.0894	D_{220}	5991	5971 ± 220	$H(0.57)$	94.99	$95.2^{+1.6}_{-2.0}$
$\boldsymbol{y_{\rm cal}}$	1.00010	0.99998 ± 0.0025	D_{810}	2592.3	2591 ± 41	$D_{\rm A}(0.57)$	1336.9	1332 ± 40
$\boldsymbol{A_{100}^{{\rm dust}EE}}$	0.0826	0.0823 ± 0.0059	D_{1420}	846.3	848 ± 20	$F_{\rm AP}(0.57)$	0.6651	$0.6642^{+0.0074}_{-0.0087}$
$\boldsymbol{A_{100\times143}^{{\rm dust}EE}}$	0.0500	0.0495 ± 0.0054	D_{2000}	242.2	242.8 ± 7.7	$f\sigma_8(0.57)$	0.4503	0.446 ± 0.022
$\boldsymbol{A_{100\times217}^{{\rm dust}EE}}$	0.0983	0.099 ± 0.033	$n_{\rm s,0.002}$	0.9867	0.993 ± 0.015	$\sigma_8(0.57)$	0.6017	0.598 ± 0.015
$\boldsymbol{A_{143}^{{\rm dust}EE}}$	0.1013	0.1008 ± 0.0072	$Y_{\rm P}$	0.24613	0.24614 ± 0.00055	$r_{0.002}$	0.0000	< 0.0906
$\boldsymbol{A_{143\times217}^{{\rm dust}EE}}$	0.2224	0.224 ± 0.047	$Y_{\rm P}^{\rm BBN}$	0.24746	0.24747 ± 0.00055	$r_{0.01}$	0.0000	< 0.0899
$\boldsymbol{A_{217}^{{\rm dust}EE}}$	0.645	0.65 ± 0.13	$10^5{\rm D/H}$	2.296	$2.30^{+0.19}_{-0.23}$	$\ln(10^{10} A_{\rm t})$	-6.86	$-0.04^{+1.4}_{-0.66}$
H_0	71.31	71.7 ± 3.0	Age/Gyr	13.611	13.60 ± 0.17	r_{10}	0.0000	< 0.0454
Ω_Λ	0.7303	$0.733^{+0.033}_{-0.026}$	z_*	1087.24	$1087.2^{+1.7}_{-2.0}$	$10^9 A_{\rm t}$	0.000	< 0.192
$\Omega_{\rm m}$	0.2697	$0.267^{+0.026}_{-0.033}$	r_*	145.08	145.22 ± 0.68	$10^9 A_t e^{-2\tau}$	0.000	< 0.169
$\Omega_{\rm m} h^2$	0.13714	$0.1365^{+0.0036}_{-0.0040}$	$100\theta_*$	1.04011	1.04020 ± 0.00090	$\chi^2_{\rm lowTEB}$	10493.64	10496.1 ± 2.8
$\Omega_{\rm m} h^3$	0.09779	$0.0978^{+0.0019}_{-0.0022}$	$D_{\rm A}/{\rm Gpc}$	13.948	13.961 ± 0.064	$\chi^2_{\rm plikEE}$	751.05	758.9 ± 4.5
σ_8	0.7947	0.789 ± 0.026	$z_{\rm drag}$	1063.33	1063.4 ± 2.7	$\chi^2_{\rm prior}$	4.11	8.23 ± 3.5
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4127	$0.408^{+0.032}_{-0.036}$	$r_{\rm drag}$	147.20	147.34 ± 0.80	$\chi^2_{\rm CMB}$	11244.68	11255.0 ± 4.8
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5727	0.567 ± 0.032	$k_{\rm D}$	0.14194	0.1418 ± 0.0014			

Best-fit $\chi^2_{\rm eff} = 11248.79$; $\bar{\chi}^2_{\rm eff} = 11263.21$; $R - 1 = 0.00738$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.64 plik_dx11dr2_HM_v18_EE: 751.05

20.23 base_r_CamSpecHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.022414	0.02243 ± 0.00024 $(+0.1\sigma)$	$z_{\rm re}$	8.54	$8.39^{+2.3}_{-1.8}$ $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07263	0.07271 ± 0.00070 $(+0.8\sigma)$
$\mathbf{\Omega_c h^2}$	0.11616	0.1160 ± 0.0020 (-0.8σ)	$10^9 A_{\rm s}$	2.098	2.094 ± 0.095 (-0.1σ)	$H(0.57)$	93.491	93.55 ± 0.41 $(+0.7\sigma)$
$\mathbf{100\theta_{MC}}$	1.041237	1.04135 ± 0.00048 $(+0.6\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	1.8471	1.842 ± 0.026 (-1.1σ)	$D_{\rm A}(0.57)$	1371.3	1370 ± 12 (-0.8σ)
$\boldsymbol{\tau}$	0.0638	0.064 ± 0.021 $(+0.1\sigma)$	D_{40}	1180.3	1195 ± 28 (-0.8σ)	$F_{\rm AP}(0.57)$	0.67141	0.6711 ± 0.0030 (-0.8σ)
$\mathbf{\ln(10^{10} A_s)}$	3.0437	3.041 ± 0.045 (-0.1σ)	D_{220}	5630	5608 ± 79 (-1.1σ)	$f\sigma_8(0.57)$	0.4622	0.461 ± 0.012 (-0.4σ)
$\boldsymbol{n_{\rm s}}$	0.9822	0.985 ± 0.011 $(+0.7\sigma)$	D_{810}	2516.0	2512 ± 36 (-0.6σ)	$\sigma_8(0.57)$	0.6019	0.602 ± 0.014 (-0.1σ)
$\boldsymbol{r}$	0.0035	< 0.0827 $(+0.3\sigma)$	D_{1420}	815.5	815 ± 14 (-0.2σ)	$r_{0.002}$	0.0034	< 0.0817 $(+0.3\sigma)$
$\mathbf{y_{cal}}$	1.00025	1.0000 ± 0.0025 (-0.0σ)	$n_{\rm s,0.002}$	0.9822	0.985 ± 0.011 $(+0.7\sigma)$	$r_{0.01}$	0.0034	< 0.0821 $(+0.3\sigma)$
$\boldsymbol{c_{TE}}$	0.9987	0.9977 ± 0.0099	$Y_{\rm P}$	0.244991	0.24500 ± 0.00010 (-3.7σ)	$\ln(10^{10} A_{\rm t})$	-2.60	$-0.11^{+1.4}_{-0.62}$ $(+0.2\sigma)$
H_0	68.87	68.97 ± 0.90 $(+0.8\sigma)$	Age/Gyr	13.7664	13.761 ± 0.037 (-0.5σ)	r_{10}	0.0017	< 0.0415 $(+0.3\sigma)$
Ω_Λ	0.7065	0.707 ± 0.011 $(+0.8\sigma)$	z_*	1089.514	1089.48 ± 0.40 (-0.4σ)	$10^9 A_{\rm t}$	0.007	< 0.172 $(+0.3\sigma)$
$\Omega_{\rm m}$	0.2935	0.293 ± 0.011 (-0.8σ)	r_*	145.401	145.43 ± 0.49 $(+0.8\sigma)$	$10^9 A_t e^{-2\tau}$	0.007	< 0.152 $(+0.3\sigma)$
$\Omega_{\rm m} h^2$	0.13922	0.1391 ± 0.0019 (-0.8σ)	$100\theta_*$	1.041436	1.04154 ± 0.00047 $(+0.6\sigma)$	$Y_{\rm P}^{\rm BBN}$	0.246322	0.24633 ± 0.00010 (-3.7σ)
$\Omega_{\rm m} h^3$	0.09588	0.09593 ± 0.00051 (-0.2σ)	$z_{\rm drag}$	1059.74	1059.77 ± 0.52 (-0.2σ)	$\chi^2_{\rm lowTEB}$	10492.15	10494.5 ± 2.2 (-0.5σ)
σ_8	0.8032	0.802 ± 0.020 (-0.3σ)	$r_{\rm drag}$	148.07	148.09 ± 0.50 $(+0.8\sigma)$	$\chi^2_{\rm CamSpec}$	2694.74	2699.6 ± 3.3
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4351	0.434 ± 0.015 (-0.6σ)	$k_{\rm D}$	0.13989	0.13987 ± 0.00058 (-0.7σ)	$\chi^2_{\rm prior}$	9.97	12.1 ± 2.1 $(+1.2\sigma)$
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5912	0.590 ± 0.017 (-0.5σ)	$100\theta_{\rm D}$	0.160854	0.16086 ± 0.00031 $(+0.2\sigma)$	$\chi^2_{\rm CMB}$	13186.89	13194.0 ± 3.8 $(+387.2\sigma)$
$\sigma_8/h^{0.5}$	0.9678	0.966 ± 0.025 (-0.4σ)	$z_{\rm eq}$	3311.4	3309 ± 46 (-0.8σ)			
$\langle d^2 \rangle^{1/2}$	2.371	2.361 ± 0.055 (-0.7σ)	$100\theta_{\rm eq}$	0.8303	0.8311 ± 0.0090 $(+0.8\sigma)$			

Best-fit $\chi^2_{\rm eff} = 13196.86$; $\Delta\chi^2_{\rm eff} = 1769.70$; $\bar{\chi}^2_{\rm eff} = 13206.09$; $\Delta\bar{\chi}^2_{\rm eff} = 1763.19$; $R - 1 = 0.00518$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.15 (Δ -0.99) CamSpec like_v9.10CMH_unified: 2694.74

20.24 base_r_CamSpecHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02420	0.0241 ± 0.0011 (-0.0σ)	z_{re}	7.80	$7.64^{+2.1}_{-1.7}$ (-0.2σ)	$r_{drag}/D_V(0.57)$	0.07308	0.0733 ± 0.0015 (-0.4σ)
$\boldsymbol{\Omega_c h^2}$	0.11452	0.1139 ± 0.0041 $(+0.5\sigma)$	$10^9 A_s$	2.136	$2.124^{+0.088}_{-0.099}$ (-0.3σ)	$H(0.57)$	94.72	$94.8^{+1.3}_{-1.5}$ (-0.2σ)
$\boldsymbol{100\theta_{MC}}$	1.03989	1.03998 ± 0.00074 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.8923	1.883 ± 0.028 (-0.2σ)	$D_A(0.57)$	1346.5	1344 ± 33 $(+0.3\sigma)$
$\boldsymbol{\tau}$	0.0605	0.060 ± 0.020 (-0.2σ)	D_{40}	1240.8	1250 ± 29 $(+0.5\sigma)$	$F_{AP}(0.57)$	0.6679	$0.6673^{+0.0064}_{-0.0073}$ $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0614	3.055 ± 0.043 (-0.3σ)	D_{220}	5997	5951 ± 190 (-0.1σ)	$f\sigma_8(0.57)$	0.4528	0.450 ± 0.018 $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.9761	0.981 ± 0.012 (-0.8σ)	D_{810}	2575.9	2568 ± 42 (-0.5σ)	$\sigma_8(0.57)$	0.5979	0.596 ± 0.014 (-0.2σ)
$\boldsymbol{r}$	0.0001	< 0.0888 (-0.0σ)	D_{1420}	837.9	837 ± 18 (-0.5σ)	$r_{0.002}$	0.0001	< 0.0869 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.00026	1.0001 ± 0.0025 $(+0.0\sigma)$	$n_{s,0.002}$	0.9761	0.981 ± 0.012 (-0.8σ)	$r_{0.01}$	0.0001	< 0.0878 (-0.0σ)
$\boldsymbol{c_{EE}}$	0.9971	0.9963 ± 0.0099	Y_P	0.245729	0.24569 ± 0.00042 (-0.8σ)	$\ln(10^{10} A_t)$	−6.55	$-0.05^{+1.4}_{-0.63}$ (-0.0σ)
H_0	70.51	70.7 ± 2.4 (-0.3σ)	Age/Gyr	13.620	13.62 ± 0.13 $(+0.1\sigma)$	r_{10}	0.0000	< 0.0439 (-0.0σ)
Ω_Λ	0.7197	$0.721^{+0.028}_{-0.023}$ (-0.4σ)	z_*	1087.32	$1087.4^{+1.4}_{-1.6}$ $(+0.1\sigma)$	$10^9 A_t$	0.000	< 0.188 (-0.0σ)
Ω_m	0.2803	$0.279^{+0.023}_{-0.028}$ $(+0.4\sigma)$	r_*	144.45	144.65 ± 0.58 (-0.8σ)	$10^9 A_t e^{-2\tau}$	0.000	< 0.167 (-0.0σ)
$\Omega_m h^2$	0.13936	0.1387 ± 0.0032 $(+0.6\sigma)$	$100\theta_*$	1.03990	1.03999 ± 0.00072 (-0.2σ)	Y_P^{BBN}	0.247049	0.24702 ± 0.00042 (-0.8σ)
$\Omega_m h^3$	0.09826	0.0981 ± 0.0015 $(+0.1\sigma)$	z_{drag}	1063.63	1063.5 ± 2.1 $(+0.0\sigma)$	χ^2_{lowTEB}	10495.00	10497.5 ± 3.0 $(+0.5\sigma)$
σ_8	0.7933	0.790 ± 0.022 $(+0.0\sigma)$	r_{drag}	146.54	146.77 ± 0.64 (-0.7σ)	$\chi^2_{CamSpec}$	2186.40	2191.3 ± 3.8
$\sigma_8 \Omega_m^{0.5}$	0.4201	$0.417^{+0.027}_{-0.030}$ $(+0.3\sigma)$	k_D	0.14272	0.1424 ± 0.0011 $(+0.4\sigma)$	χ^2_{prior}	10.12	12.1 ± 2.1 $(+1.1\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.5773	0.574 ± 0.026 $(+0.2\sigma)$	$100\theta_D$	0.15846	$0.1586^{+0.0010}_{-0.0012}$ (-0.1σ)	χ^2_{CMB}	12681.39	12688.9 ± 3.9 $(+298.7\sigma)$
$\sigma_8/h^{0.5}$	0.9448	0.940 ± 0.039 $(+0.2\sigma)$	z_{eq}	3315	3300 ± 77 $(+0.6\sigma)$			
$\langle d^2 \rangle^{1/2}$	2.380	2.357 ± 0.076 $(+0.4\sigma)$	$100\theta_{eq}$	0.8336	0.837 ± 0.017 (-0.5σ)			

Best-fit $\chi^2_{eff} = 12691.52$; $\Delta\chi^2_{eff} = 1442.73$; $\bar{\chi}^2_{eff} = 12701.03$; $\Delta\bar{\chi}^2_{eff} = 1437.82$; $R - 1 = 0.00896$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.00 (Δ 1.36) CamSpec like_v9.10CMH_unified: 2186.40

20.25 base_r_plikHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022281	0.02227 ± 0.00025	$\sigma_8\Omega_m^{0.25}$	0.5975	0.597 ± 0.016	k_D	0.14032	0.14030 ± 0.00058
$\boldsymbol{\Omega_c h^2}$	0.11868	0.1187 ± 0.0021	$\sigma_8/h^{0.5}$	0.9740	0.974 ± 0.024	$100\theta_D$	0.160928	0.16094 ± 0.00032
$\boldsymbol{100\theta_{MC}}$	1.04095	1.04092 ± 0.00051	$\langle d^2\rangle^{1/2}$	2.418	2.412 ± 0.056	z_{eq}	3368.6	3368 ± 47
$\boldsymbol{\tau}$	0.0525	0.052 ± 0.019	z_{re}	7.50	$7.30^{+2.2}_{-1.8}$	k_{eq}	0.010281	0.01028 ± 0.00014
$\boldsymbol{\ln(10^{10}A_s)}$	3.0311	3.029 ± 0.041	$10^9 A_s$	2.072	2.069 ± 0.085	$100\theta_{eq}$	0.8191	0.8192 ± 0.0090
$\boldsymbol{n_s}$	0.9646	0.966 ± 0.012	$10^9 A_s e^{-2\tau}$	1.8654	1.864 ± 0.019	$100\theta_{s,eq}$	0.45249	0.4526 ± 0.0046
$\boldsymbol{r}$	0.105	< 0.205	D_{40}	1260.8	1279^{+39}_{-59}	$r_{drag}/D_V(0.57)$	0.07175	0.07175 ± 0.00071
$\boldsymbol{y_{cal}}$	1.00002	1.0000 ± 0.0025	D_{220}	5707	5694 ± 59	$H(0.57)$	93.040	93.04 ± 0.41
$\boldsymbol{A_{100}^{dustTE}}$	0.1408	0.141 ± 0.038	D_{810}	2519.3	2519 ± 26	$D_A(0.57)$	1385.9	1386 ± 12
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1293	0.135 ± 0.029	D_{1420}	809.6	810 ± 12	$F_{AP}(0.57)$	0.67527	0.6753 ± 0.0032
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.298	0.303 ± 0.084	D_{2000}	228.18	228.4 ± 4.5	$f\sigma_8(0.57)$	0.4654	0.465 ± 0.012
$\boldsymbol{A_{143}^{dustTE}}$	0.153	0.159 ± 0.054	$n_{s,0.002}$	0.9646	0.966 ± 0.012	$\sigma_8(0.57)$	0.5971	$0.597^{+0.013}_{-0.014}$
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.351	0.336 ± 0.081	Y_P	0.245354	0.24535 ± 0.00012	$r_{0.002}$	0.098	< 0.200
$\boldsymbol{A_{217}^{dustTE}}$	1.701	1.65 ± 0.26	Y_P^{BBN}	0.246680	0.24667 ± 0.00012	$r_{0.01}$	0.101	< 0.202
$\boldsymbol{c_{100}}$	0.99937	0.9992 ± 0.0010	10^5D/H	2.6082	2.610 ± 0.048	$\ln(10^{10}A_t)$	0.78	$0.84^{+1.2}_{-0.49}$
H_0	67.75	67.75 ± 0.92	Age/Gyr	13.8003	13.802 ± 0.039	r_{10}	0.050	< 0.104
Ω_Λ	0.6915	0.691 ± 0.013	z_*	1089.916	1089.93 ± 0.43	$10^9 A_t$	0.218	< 0.423
Ω_m	0.3085	0.309 ± 0.013	r_*	144.841	144.85 ± 0.49	$10^9 A_t e^{-2\tau}$	0.196	< 0.381
$\Omega_m h^2$	0.14161	0.1416 ± 0.0020	$100\theta_*$	1.04114	1.04111 ± 0.00050	χ^2_{lowEB}	5430.50	5431.3 ± 1.3
$\Omega_m h^3$	0.09594	0.09591 ± 0.00053	D_A/Gpc	13.9118	13.913 ± 0.046	χ^2_{plikTE}	931.42	939.4 ± 4.2
σ_8	0.8017	$0.801^{+0.017}_{-0.019}$	z_{drag}	1059.63	1059.61 ± 0.54	χ^2_{prior}	1.85	7.72 ± 3.6
$\sigma_8\Omega_m^{0.5}$	0.4453	0.445 ± 0.015	r_{drag}	147.54	147.55 ± 0.50	χ^2_{CMB}	6361.91	6370.8 ± 4.3

Best-fit $\chi^2_{eff} = 6363.76$; $\bar{\chi}^2_{eff} = 6378.47$; $R - 1 = 0.00621$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.50 plik_dx11dr2_HM_v18_TE: 931.42

20.26 base_r_plikHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02376	$0.0238^{+0.0013}_{-0.0014}$	$\sigma_8/h^{0.5}$	0.9314	0.926 ± 0.047	$100\theta_{\rm D}$	0.15911	$0.1592^{+0.0013}_{-0.0016}$
$\boldsymbol{\Omega_c h^2}$	0.1123	0.1120 ± 0.0052	$\langle d^2\rangle^{1/2}$	2.319	2.30 ± 0.11	$z_{\rm eq}$	3252	3246 ± 100
$\boldsymbol{100\theta_{\rm MC}}$	1.04011	1.04018 ± 0.00097	$z_{\rm re}$	7.48	$7.03^{+2.0}_{-1.7}$	$k_{\rm eq}$	0.009924	0.00991 ± 0.00031
$\boldsymbol{\tau}$	0.0565	0.053 ± 0.018	$10^9 A_{\rm s}$	2.105	$2.092^{+0.085}_{-0.098}$	$100\theta_{\rm eq}$	0.8447	0.847 ± 0.023
$\boldsymbol{\ln(10^{10} A_{\rm s})}$	3.0471	3.040 ± 0.042	$10^9 A_{\rm s} e^{-2\tau}$	1.8805	1.880 ± 0.030	$100\theta_{\rm s,eq}$	0.4646	0.466 ± 0.011
$\boldsymbol{n_{\rm s}}$	0.9883	0.991 ± 0.019	D_{40}	1425	1426^{+88}_{-140}	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07380	$0.0740^{+0.0019}_{-0.0022}$
$\boldsymbol{r}$	0.534	0.52 ± 0.27	D_{220}	5914	5911 ± 220	$H(0.57)$	94.72	$94.9^{+1.6}_{-2.0}$
$\boldsymbol{y_{\rm cal}}$	0.99995	1.0003 ± 0.0024	D_{810}	2576.6	2577 ± 42	$D_{\rm A}(0.57)$	1341.4	1339 ± 41
$\boldsymbol{A_{100}^{{\rm dust}EE}}$	0.0753	0.0748 ± 0.0069	D_{1420}	840.8	842 ± 20	$F_{\rm AP}(0.57)$	0.6654	0.6652 ± 0.0084
$\boldsymbol{A_{100\times143}^{{\rm dust}EE}}$	0.0412	0.0413 ± 0.0066	D_{2000}	240.0	240.3 ± 7.9	$f\sigma_8(0.57)$	0.4452	0.442 ± 0.023
$\boldsymbol{A_{100\times217}^{{\rm dust}EE}}$	0.0998	0.0996 ± 0.033	$n_{\rm s,0.002}$	0.9883	0.991 ± 0.019	$\sigma_8(0.57)$	0.5941	0.591 ± 0.014
$\boldsymbol{A_{143}^{{\rm dust}EE}}$	0.0915	0.0922 ± 0.0082	$Y_{\rm P}$	0.24598	0.24598 ± 0.00055	$r_{0.002}$	0.642	$0.69^{+0.18}_{-0.68}$
$\boldsymbol{A_{143\times217}^{{\rm dust}EE}}$	0.2158	0.224 ± 0.047	$Y_{\rm P}^{\rm BBN}$	0.24731	0.24731 ± 0.00055	$r_{0.01}$	0.583	$0.59^{+0.27}_{-0.45}$
$\boldsymbol{A_{217}^{{\rm dust}EE}}$	0.677	0.65 ± 0.13	10^5D/H	2.352	$2.36^{+0.20}_{-0.24}$	$\ln(10^{10} A_{\rm t})$	2.42	$2.17^{+0.87}_{-0.29}$
H_0	71.04	71.3 ± 3.1	Age/Gyr	13.646	$13.64^{+0.18}_{-0.16}$	r_{10}	0.342	< 0.462
Ω_Λ	0.7291	$0.729^{+0.034}_{-0.028}$	z_*	1087.63	$1087.6^{+1.8}_{-2.0}$	$10^9 A_{\rm t}$	1.12	1.08 ± 0.55
$\Omega_{\rm m}$	0.2709	$0.271^{+0.028}_{-0.034}$	r_*	145.38	$145.43^{+0.86}_{-0.97}$	$10^9 A_t e^{-2\tau}$	1.00	0.98 ± 0.51
$\Omega_{\rm m} h^2$	0.13671	0.1365 ± 0.0043	$100\theta_*$	1.04016	1.04023 ± 0.00094	$\chi^2_{\rm lowEB}$	5429.68	5430.6 ± 1.5
$\Omega_{\rm m} h^3$	0.09712	$0.0972^{+0.0019}_{-0.0021}$	$D_{\rm A}$/Gpc	13.976	$13.980^{+0.080}_{-0.090}$	$\chi^2_{\rm plikEE}$	750.65	758.9 ± 4.4
σ_8	0.7850	0.781 ± 0.026	$z_{\rm drag}$	1062.53	1062.6 ± 2.7	$\chi^2_{\rm prior}$	2.43	6.98 ± 3.3
$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4086	0.406 ± 0.035	$r_{\rm drag}$	147.61	$147.67^{+0.94}_{-1.1}$	$\chi^2_{\rm CMB}$	6180.33	6189.5 ± 4.5
$\sigma_8 \Omega_{\rm m}^{0.25}$	0.5664	0.563 ± 0.033	$k_{\rm D}$	0.14127	$0.1412^{+0.0017}_{-0.0015}$			

Best-fit $\chi^2_{\rm eff} = 6182.76$; $\bar{\chi}^2_{\rm eff} = 6196.45$; $R - 1 = 0.00867$

$\chi^2_{\rm eff}$: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5429.68 plik_dx11dr2_HM_v18_EE: 750.65

20.27 base_r_CamSpecHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022321	0.02233 ± 0.00025 $(+0.2\sigma)$	z_{re}	7.76	$7.38^{+2.2}_{-1.8}$ $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07241	0.07240 ± 0.00070 $(+0.9\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11683	0.1169 ± 0.0020 (-0.9σ)	$10^9 A_s$	2.066	$2.057^{+0.083}_{-0.094}$ (-0.1σ)	$H(0.57)$	93.347	93.36 ± 0.40 $(+0.8\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.041261	1.04126 ± 0.00049 $(+0.7\sigma)$	$10^9 A_s e^{-2\tau}$	1.8487	1.848 ± 0.027 (-0.8σ)	$D_A(0.57)$	1375.5	1376 ± 12 (-0.8σ)
$\boldsymbol{\tau}$	0.0555	0.053 ± 0.019 $(+0.1\sigma)$	D_{40}	1248	1266^{+47}_{-67} (-0.3σ)	$F_{AP}(0.57)$	0.67244	0.6725 ± 0.0030 (-0.9σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.0281	3.023 ± 0.042 (-0.1σ)	D_{220}	5638	5638 ± 82 (-0.9σ)	$f\sigma_8(0.57)$	0.4605	$0.459^{+0.011}_{-0.013}$ (-0.5σ)
$\boldsymbol{n_s}$	0.9772	0.977 ± 0.012 $(+0.9\sigma)$	D_{810}	2512.9	2512 ± 36 (-0.3σ)	$\sigma_8(0.57)$	0.5972	$0.596^{+0.013}_{-0.014}$ (-0.1σ)
$\boldsymbol{r}$	0.168	$0.209^{+0.060}_{-0.21}$ $(+0.4\sigma)$	D_{1420}	812.4	812 ± 15 $(+0.2\sigma)$	$r_{0.002}$	0.167	< 0.276 $(+0.5\sigma)$
$\boldsymbol{y_{cal}}$	0.99965	1.0000 ± 0.0025 $(+0.0\sigma)$	$n_{s,0.002}$	0.9772	0.977 ± 0.012 $(+0.9\sigma)$	$r_{0.01}$	0.167	< 0.272 $(+0.4\sigma)$
$\boldsymbol{c_{TE}}$	1.0007	1.0000 ± 0.0099	Y_P	0.244950	0.24496 ± 0.00010 (-3.4σ)	$\ln(10^{10} A_t)$	1.24	$1.14^{+1.1}_{-0.39}$ $(+0.3\sigma)$
H_0	68.55	68.55 ± 0.90 $(+0.9\sigma)$	Age/Gyr	13.7786	13.778 ± 0.037 (-0.6σ)	r_{10}	0.086	< 0.144 $(+0.5\sigma)$
Ω_Λ	0.7025	0.702 ± 0.012 $(+0.9\sigma)$	z_*	1089.686	1089.68 ± 0.41 (-0.6σ)	$10^9 A_t$	0.346	$0.43^{+0.13}_{-0.42}$ $(+0.4\sigma)$
Ω_m	0.2975	0.298 ± 0.012 (-0.9σ)	r_*	145.296	145.28 ± 0.49 $(+0.9\sigma)$	$10^9 A_t e^{-2\tau}$	0.310	$0.39^{+0.11}_{-0.38}$ $(+0.4\sigma)$
$\Omega_m h^2$	0.13980	0.1399 ± 0.0019 (-0.9σ)	$100\theta_*$	1.041460	1.04146 ± 0.00048 $(+0.7\sigma)$	Y_P^{BBN}	0.246281	0.24628 ± 0.00011 (-3.4σ)
$\Omega_m h^3$	0.09584	0.09586 ± 0.00051 (-0.1σ)	z_{drag}	1059.59	1059.60 ± 0.53 (-0.0σ)	χ^2_{lowEB}	5430.35	5431.2 ± 1.3 (-0.1σ)
σ_8	0.7983	$0.796^{+0.018}_{-0.020}$ (-0.3σ)	r_{drag}	147.99	147.97 ± 0.51 $(+0.8\sigma)$	$\chi^2_{CamSpec}$	2694.25	2700.0 ± 3.4
$\sigma_8 \Omega_m^{0.5}$	0.4354	0.435 ± 0.015 (-0.7σ)	k_D	0.13990	0.13993 ± 0.00059 (-0.7σ)	χ^2_{prior}	10.02	12.0 ± 1.9 $(+1.2\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.5896	0.588 ± 0.016 (-0.6σ)	$100\theta_D$	0.160964	0.16095 ± 0.00032 $(+0.0\sigma)$	χ^2_{CMB}	8124.60	8131.2 ± 3.6 $(+405.4\sigma)$
$\sigma_8/h^{0.5}$	0.9642	$0.962^{+0.023}_{-0.026}$ (-0.5σ)	z_{eq}	3325.3	3327 ± 47 (-0.9σ)			
$\langle d^2 \rangle^{1/2}$	2.370	2.365 ± 0.055 (-0.8σ)	$100\theta_{eq}$	0.8274	0.8273 ± 0.0090 $(+0.9\sigma)$			

Best-fit $\chi^2_{eff} = 8134.62$; $\Delta\chi^2_{eff} = 1770.86$; $\bar{\chi}^2_{eff} = 8143.19$; $\Delta\bar{\chi}^2_{eff} = 1764.72$; $R - 1 = 0.00957$
χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.35 (Δ -0.14) CamSpec like_v9.10CMH_unified: 2694.25

20.28 base_r_CamSpecHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02381	0.0238 ± 0.0011 (-0.0σ)	z_{re}	7.27	$7.11^{+1.9}_{-1.6}$ $(+0.0\sigma)$	$r_{drag}/D_V(0.57)$	0.07312	0.0732 ± 0.0016 (-0.4σ)
$\boldsymbol{\Omega_c h^2}$	0.11425	0.1141 ± 0.0043 $(+0.4\sigma)$	$10^9 A_s$	2.099	$2.095^{+0.080}_{-0.089}$ $(+0.0\sigma)$	$H(0.57)$	94.47	$94.5^{+1.3}_{-1.5}$ (-0.2σ)
$\boldsymbol{100\theta_{MC}}$	1.03994	1.03995 ± 0.00074 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.8835	1.881 ± 0.032 $(+0.0\sigma)$	$D_A(0.57)$	1350.4	1350 ± 33 $(+0.3\sigma)$
$\boldsymbol{\tau}$	0.0542	0.053 ± 0.018 $(+0.0\sigma)$	D_{40}	1380	1381^{+61}_{-87} (-0.4σ)	$F_{AP}(0.57)$	0.6680	0.6680 ± 0.0070 $(+0.3\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0441	3.041 ± 0.040 $(+0.0\sigma)$	D_{220}	5922	5907 ± 190 (-0.0σ)	$f\sigma_8(0.57)$	0.4502	0.449 ± 0.019 $(+0.3\sigma)$
$\boldsymbol{n_s}$	0.9802	0.982 ± 0.016 (-0.5σ)	D_{810}	2569.1	2566 ± 43 (-0.3σ)	$\sigma_8(0.57)$	0.5942	0.593 ± 0.013 $(+0.1\sigma)$
$\boldsymbol{r}$	0.403	0.40 ± 0.21 (-0.4σ)	D_{1420}	836.3	836 ± 18 (-0.3σ)	$r_{0.002}$	0.446	$0.49^{+0.18}_{-0.42}$ (-0.4σ)
$\boldsymbol{y_{cal}}$	1.00015	1.0000 ± 0.0025 (-0.1σ)	$n_{s,0.002}$	0.9802	0.982 ± 0.016 (-0.5σ)	$r_{0.01}$	0.423	$0.44^{+0.21}_{-0.31}$ (-0.4σ)
$\boldsymbol{c_{EE}}$	1.0004	1.001 ± 0.010	Y_P	0.245574	0.24556 ± 0.00042 (-0.8σ)	$\ln(10^{10} A_t)$	2.13	$1.93^{+0.84}_{-0.29}$ (-0.3σ)
H_0	70.29	70.4 ± 2.5 (-0.3σ)	Age/Gyr	13.656	13.65 ± 0.13 $(+0.1\sigma)$	r_{10}	0.234	$0.260^{+0.078}_{-0.24}$ (-0.4σ)
Ω_Λ	0.7193	$0.719^{+0.029}_{-0.025}$ (-0.3σ)	z_*	1087.72	$1087.8^{+1.4}_{-1.6}$ $(+0.1\sigma)$	$10^9 A_t$	0.845	0.84 ± 0.43 (-0.4σ)
Ω_m	0.2807	$0.281^{+0.025}_{-0.029}$ $(+0.3\sigma)$	r_*	144.82	144.87 ± 0.76 (-0.6σ)	$10^9 A_t e^{-2\tau}$	0.758	0.76 ± 0.39 (-0.4σ)
$\Omega_m h^2$	0.13871	0.1386 ± 0.0036 $(+0.5\sigma)$	$100\theta_*$	1.03998	1.04000 ± 0.00072 (-0.2σ)	Y_P^{BBN}	0.246894	0.24688 ± 0.00042 (-0.8σ)
$\Omega_m h^3$	0.09750	0.0974 ± 0.0015 $(+0.1\sigma)$	z_{drag}	1062.79	1062.7 ± 2.1 $(+0.1\sigma)$	χ^2_{lowEB}	5429.79	5430.7 ± 1.4 $(+0.1\sigma)$
σ_8	0.7886	0.787 ± 0.022 $(+0.2\sigma)$	r_{drag}	147.03	$147.09^{+0.79}_{-0.88}$ (-0.6σ)	$\chi^2_{CamSpec}$	2183.94	2189.7 ± 3.4
$\sigma_8 \Omega_m^{0.5}$	0.4178	0.417 ± 0.029 $(+0.3\sigma)$	k_D	0.14195	0.1418 ± 0.0013 $(+0.4\sigma)$	χ^2_{prior}	10.03	12.1 ± 2.1 $(+1.6\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.5740	0.573 ± 0.027 $(+0.3\sigma)$	$100\theta_D$	0.15893	$0.1590^{+0.0010}_{-0.0013}$ (-0.1σ)	χ^2_{CMB}	7613.73	7620.4 ± 3.6 $(+321.3\sigma)$
$\sigma_8/h^{0.5}$	0.9406	0.939 ± 0.039 $(+0.3\sigma)$	z_{eq}	3299	3296 ± 87 $(+0.5\sigma)$			
$\langle d^2 \rangle^{1/2}$	2.351	2.343 ± 0.088 $(+0.4\sigma)$	$100\theta_{eq}$	0.8355	0.837 ± 0.019 (-0.4σ)			

Best-fit $\chi^2_{\rm eff} = 7623.76$; $\Delta\chi^2_{\rm eff} = 1441.00$; $\bar{\chi}^2_{\rm eff} = 7632.50$; $\Delta\bar{\chi}^2_{\rm eff} = 1436.05$; $R - 1 = 0.00925$
$\chi^2_{\rm eff}$: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5429.79 (Δ 0.11) CamSpec like_v9.10CMH_unified: 2183.94

20.29 base_r_plikHM_TT_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022279	0.02226 ± 0.00023	$\Omega_m h^3$	0.095956	0.09588 ± 0.00045	$100\theta_D$	0.160952	0.16098 ± 0.00026
$\boldsymbol{\Omega_c h^2}$	0.11850	0.1183 ± 0.0020	σ_8	0.8160	0.8149 ± 0.0093	z_{eq}	3364.2	3360 ± 45
$\boldsymbol{100\theta_{MC}}$	1.041044	1.04103 ± 0.00046	$\sigma_8\Omega_m^{0.5}$	0.4523	0.4512 ± 0.0089	k_{eq}	0.010268	0.01026 ± 0.00014
$\boldsymbol{\tau}$	0.0671	0.067 ± 0.017	$\sigma_8\Omega_m^{0.25}$	0.6075	0.6063 ± 0.0077	$100\theta_{eq}$	0.8200	0.8208 ± 0.0088
$\boldsymbol{\ln(10^{10}A_s)}$	3.0649	3.063 ± 0.030	$\sigma_8/h^{0.5}$	0.9906	0.989 ± 0.011	$100\theta_{s,eq}$	0.45294	0.4534 ± 0.0045
$\boldsymbol{n_s}$	0.9682	0.9688 ± 0.0061	$\langle d^2\rangle^{1/2}$	2.4493	2.445 ± 0.026	$r_{drag}/D_V(0.57)$	0.07183	0.07188 ± 0.00070
$\boldsymbol{r}$	0.0000	< 0.0537	z_{re}	8.94	$8.83^{+1.7}_{-1.4}$	$H(0.57)$	93.083	93.09 ± 0.41
$\boldsymbol{y_{cal}}$	1.00011	1.0002 ± 0.0025	$10^9 A_s$	2.143	2.141 ± 0.064	$D_A(0.57)$	1384.6	1384 ± 12
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.2 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8738	1.873 ± 0.013	$F_{AP}(0.57)$	0.67494	0.6748 ± 0.0031
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1225.2	1239^{+15}_{-19}	$f\sigma_8(0.57)$	0.4733	0.4725 ± 0.0054
$\boldsymbol{A_{143}^{tSZ}}$	7.16	5.09 ± 2.0	D_{220}	5717.3	5713 ± 41	$\sigma_8(0.57)$	0.6081	0.6075 ± 0.0084
$\boldsymbol{A_{100}^{PS}}$	254.3	259 ± 28	D_{810}	2532.7	2532 ± 14	$r_{0.002}$	0.0000	< 0.0495
$\boldsymbol{A_{143}^{PS}}$	39.3	44 ± 8	D_{1420}	815.0	814.8 ± 5.2	$r_{0.01}$	0.0000	< 0.0516
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39^{+10}_{-10}	D_{2000}	230.26	230.1 ± 1.9	$\ln(10^{10}A_t)$	-7.20	$-0.54^{+1.4}_{-0.66}$
$\boldsymbol{A_{217}^{PS}}$	97.2	97 ± 10	$n_{s,0.002}$	0.9682	0.9688 ± 0.0061	r_{10}	0.0000	< 0.0251
$\boldsymbol{A^{kSZ}}$	0.00	< 4.82	Y_P	0.245353	0.24534 ± 0.00010	$10^9 A_t$	0.000	< 0.115
$\boldsymbol{A_{100}^{dustTT}}$	7.51	7.45 ± 1.9	Y_P^{BBN}	0.246679	0.24667 ± 0.00010	$10^9 A_t e^{-2\tau}$	0.000	< 0.101
$\boldsymbol{A_{143}^{dustTT}}$	9.03	9.06 ± 1.9	10^5D/H	2.6085	2.612 ± 0.043	f_{2000}^{143}	29.99	30.3 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.72	17.2 ± 4.2	Age/Gyr	13.7966	13.798 ± 0.038	$f_{2000}^{143\times217}$	32.54	32.6 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.9 ± 7.4	z_*	1089.902	1089.92 ± 0.41	f_{2000}^{217}	106.13	106.2 ± 2.0
$\boldsymbol{c_{100}}$	0.99793	0.99787 ± 0.00078	r_*	144.889	144.95 ± 0.45	$\chi^2_{lensing}$	9.29	9.79 ± 1.4
$\boldsymbol{c_{217}}$	0.99603	0.9960 ± 0.0015	$100\theta_*$	1.041240	1.04123 ± 0.00045	χ^2_{lowTEB}	10494.92	10497.1 ± 2.0
H_0	67.85	67.89 ± 0.92	D_A/Gpc	13.9151	13.921 ± 0.042	χ^2_{plik}	766.2	779.7 ± 5.6
Ω_Λ	0.6928	0.693 ± 0.012	z_{drag}	1059.628	1059.56 ± 0.47	χ^2_{prior}	2.05	7.45 ± 3.6
Ω_m	0.3072	0.307 ± 0.012	r_{drag}	147.589	147.66 ± 0.45	χ^2_{CMB}	11270.4	11286.6 ± 5.8
$\Omega_m h^2$	0.14143	0.1413 ± 0.0019	k_D	0.140272	0.14019 ± 0.00048			

Best-fit $\chi^2_{eff} = 11272.43$; $\bar{\chi}^2_{eff} = 11294.05$; $R - 1 = 0.00754$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.29 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.92 plik_dx11dr2_HM_v18_TT: 766.18

20.30 base_r_plikHM_TT_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022268	0.02225 ± 0.00020	$\sigma_8\Omega_m^{0.5}$	0.4526	0.4518 ± 0.0066	$100\theta_{s,eq}$	0.45290	0.4530 ± 0.0028
$\boldsymbol{\Omega_c h^2}$	0.11852	0.1185 ± 0.0012	$\sigma_8\Omega_m^{0.25}$	0.6078	0.6067 ± 0.0069	$r_{drag}/D_V(0.57)$	0.071813	0.07182 ± 0.00042
$\boldsymbol{100\theta_{MC}}$	1.041008	1.04102 ± 0.00041	$\sigma_8/h^{0.5}$	0.9910	0.989 ± 0.011	$H(0.57)$	93.063	93.05 ± 0.27
$\boldsymbol{\tau}$	0.0673	0.066 ± 0.013	$\langle d^2\rangle^{1/2}$	2.4500	2.445 ± 0.025	$D_A(0.57)$	1385.0	1385.3 ± 7.6
$\boldsymbol{\ln(10^{10}A_s)}$	3.0651	3.061 ± 0.024	z_{re}	8.96	$8.75^{+1.3}_{-1.2}$	$F_{AP}(0.57)$	0.67501	0.6750 ± 0.0019
$\boldsymbol{n_s}$	0.96816	0.9683 ± 0.0045	$10^9 A_s$	2.144	2.136 ± 0.051	$f\sigma_8(0.57)$	0.4735	0.4726 ± 0.0052
$\boldsymbol{r}$	0.0001	< 0.0533	$10^9 A_s e^{-2\tau}$	1.8738	1.873 ± 0.011	$\sigma_8(0.57)$	0.6081	0.6070 ± 0.0072
$\boldsymbol{y_{cal}}$	1.00016	1.0002 ± 0.0025	D_{40}	1225.1	1240^{+14}_{-19}	$r_{0.002}$	0.0001	< 0.0492
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.3 ± 6.6	D_{220}	5715.9	5712 ± 40	$r_{0.01}$	0.0001	< 0.0512
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{810}	2532.5	2532 ± 14	$\ln(10^{10}A_t)$	-5.92	$-0.54^{+1.4}_{-0.65}$
$\boldsymbol{A_{143}^{tSZ}}$	7.19	5.08 ± 2.0	D_{1420}	814.9	814.7 ± 5.1	r_{10}	0.0001	< 0.0249
$\boldsymbol{A_{100}^{PS}}$	256.3	259 ± 28	D_{2000}	230.21	230.1 ± 1.8	$10^9 A_t$	0.000	< 0.114
$\boldsymbol{A_{143}^{PS}}$	39.5	44 ± 8	$n_{s,0.002}$	0.96816	0.9683 ± 0.0045	$10^9 A_t e^{-2\tau}$	0.000	< 0.0999
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	39^{+10}_{-10}	Y_P	0.245348	0.245336 ± 0.000090	f_{2000}^{143}	30.08	30.4 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	97.3	97 ± 10	Y_P^{BBN}	0.246674	0.246662 ± 0.000090	$f_{2000}^{143\times217}$	32.64	32.7 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.00	< 4.83	10^5D/H	2.6106	2.615 ± 0.038	f_{2000}^{217}	106.15	106.2 ± 1.9
$\boldsymbol{A_{100}^{dustTT}}$	7.34	7.45 ± 1.9	Age/Gyr	13.7990	13.801 ± 0.029	$\chi^2_{lensing}$	9.34	9.77 ± 1.4
$\boldsymbol{A_{143}^{dustTT}}$	9.14	9.06 ± 1.8	z_*	1089.918	1089.95 ± 0.30	χ^2_{lowTEB}	10494.92	10496.9 ± 1.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.68	17.3 ± 4.2	r_*	144.893	144.91 ± 0.31	χ^2_{plik}	766.2	779.2 ± 5.5
$\boldsymbol{A_{217}^{dustTT}}$	81.9	82.0 ± 7.4	$100\theta_*$	1.041201	1.04121 ± 0.00041	χ^2_{6DF}	0.0062	0.045 ± 0.062
$\boldsymbol{c_{100}}$	0.99795	0.99786 ± 0.00078	D_A/Gpc	13.9159	13.918 ± 0.031	χ^2_{MGS}	1.47	1.54 ± 0.56
$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0014	z_{drag}	1059.589	1059.54 ± 0.44	$\chi^2_{DR11CMASS}$	2.402	2.83 ± 0.61
H_0	67.82	67.81 ± 0.56	r_{drag}	147.598	147.62 ± 0.34	$\chi^2_{DR11LOWZ}$	0.426	0.56 ± 0.50
Ω_Λ	0.6925	0.6924 ± 0.0074	k_D	0.140256	0.14021 ± 0.00043	χ^2_{prior}	1.97	7.44 ± 3.6
Ω_m	0.3075	0.3076 ± 0.0074	$100\theta_D$	0.160960	0.16100 ± 0.00025	χ^2_{CMB}	11270.5	11285.9 ± 5.7
$\Omega_m h^2$	0.14143	0.1414 ± 0.0012	z_{eq}	3364.4	3364 ± 29	χ^2_{BAO}	4.31	4.97 ± 0.91
$\Omega_m h^3$	0.095920	0.09588 ± 0.00045	k_{eq}	0.010269	0.010267 ± 0.000087			
σ_8	0.8161	0.8147 ± 0.0089	$100\theta_{eq}$	0.8199	0.8200 ± 0.0054			

Best-fit $\chi^2_{eff} = 11276.77$; $\bar{\chi}^2_{eff} = 11298.35$; $R - 1 = 0.00674$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.40 DR11LOWZ: 0.43 CMB - smica_g30_ftl_full_pp: 9.34 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.92 plik_dx11dr2_HM_v18_TT: 766.23

20.31 base_r_plikHM_TT_lowTEB_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022284	0.02227 ± 0.00020	$\sigma_8\Omega_m^{0.5}$	0.4518	0.4509 ± 0.0065	$100\theta_{s,eq}$	0.45316	0.4535 ± 0.0027
$\boldsymbol{\Omega_c h^2}$	0.11841	0.1183 ± 0.0012	$\sigma_8\Omega_m^{0.25}$	0.6071	0.6063 ± 0.0069	$r_{drag}/D_V(0.57)$	0.071864	0.07190 ± 0.00041
$\boldsymbol{100\theta_{MC}}$	1.041065	1.04105 ± 0.00041	$\sigma_8/h^{0.5}$	0.9902	0.989 ± 0.011	$H(0.57)$	93.101	93.10 ± 0.27
$\boldsymbol{\tau}$	0.0676	0.067 ± 0.013	$\langle d^2\rangle^{1/2}$	2.4469	2.445 ± 0.025	$D_A(0.57)$	1384.0	1383.7 ± 7.4
$\boldsymbol{\ln(10^{10}A_s)}$	3.0649	3.064 ± 0.024	z_{re}	8.98	$8.90^{+1.3}_{-1.1}$	$F_{AP}(0.57)$	0.67479	0.6746 ± 0.0018
$\boldsymbol{n_s}$	0.96887	0.9689 ± 0.0044	$10^9 A_s$	2.143	2.142 ± 0.051	$f\sigma_8(0.57)$	0.4731	0.4725 ± 0.0052
$\boldsymbol{r}$	0.0001	< 0.0538	$10^9 A_s e^{-2\tau}$	1.8723	1.872 ± 0.011	$\sigma_8(0.57)$	0.6081	0.6077 ± 0.0072
$\boldsymbol{y_{cal}}$	0.99994	1.0002 ± 0.0025	D_{40}	1222.9	1239^{+14}_{-19}	$r_{0.002}$	0.0001	< 0.0496
$\boldsymbol{A_{217}^{CIB}}$	67.2	64.2 ± 6.6	D_{220}	5711.6	5714 ± 40	$r_{0.01}$	0.0001	< 0.0517
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{810}	2531.4	2532 ± 14	$\ln(10^{10}A_t)$	-6.13	$-0.52^{+1.4}_{-0.65}$
$\boldsymbol{A_{143}^{tSZ}}$	7.15	5.10 ± 2.0	D_{1420}	814.9	814.9 ± 5.1	r_{10}	0.0000	< 0.0252
$\boldsymbol{A_{100}^{PS}}$	253.8	259 ± 28	D_{2000}	230.25	230.2 ± 1.8	$10^9 A_t$	0.000	< 0.115
$\boldsymbol{A_{143}^{PS}}$	39.0	44 ± 8	$n_{s,0.002}$	0.96887	0.9689 ± 0.0044	$10^9 A_t e^{-2\tau}$	0.000	< 0.101
$\boldsymbol{A_{143\times217}^{PS}}$	32.4	39^{+10}_{-10}	Y_P	0.245355	0.245346 ± 0.000089	f_{2000}^{143}	29.85	30.2 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	97.0	97 ± 10	Y_P^{BBN}	0.246681	0.246672 ± 0.000089	$f_{2000}^{143\times217}$	32.41	32.6 ± 2.0
$\boldsymbol{A^{kSZ}}$	0.01	< 4.76	10^5D/H	2.6076	2.611 ± 0.037	f_{2000}^{217}	105.94	106.1 ± 1.9
$\boldsymbol{A_{100}^{dustTT}}$	7.49	7.45 ± 1.9	Age/Gyr	13.7951	13.796 ± 0.028	$\chi^2_{lensing}$	9.17	9.72 ± 1.3
$\boldsymbol{A_{143}^{dustTT}}$	9.08	9.05 ± 1.8	z_*	1089.888	1089.90 ± 0.30	χ^2_{lowTEB}	10494.77	10496.9 ± 1.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.68	17.3 ± 4.2	r_*	144.910	144.96 ± 0.31	χ^2_{plik}	766.4	779.3 ± 5.5
$\boldsymbol{A_{217}^{dustTT}}$	82.0	82.0 ± 7.4	$100\theta_*$	1.041258	1.04125 ± 0.00041	χ^2_{H070p6}	0.665	0.68 ± 0.26
$\boldsymbol{c_{100}}$	0.99789	0.99787 ± 0.00078	D_A/Gpc	13.9168	13.921 ± 0.030	χ^2_{JLA}	706.626	706.66 ± 0.16
$\boldsymbol{c_{217}}$	0.99594	0.9960 ± 0.0014	z_{drag}	1059.628	1059.58 ± 0.44	χ^2_{6DF}	0.0030	0.038 ± 0.053
H_0	67.89	67.92 ± 0.54	r_{drag}	147.610	147.66 ± 0.33	χ^2_{MGS}	1.54	1.66 ± 0.56
Ω_Λ	0.6934	0.6939 ± 0.0071	k_D	0.140254	0.14019 ± 0.00043	$\chi^2_{DR11CMASS}$	2.413	2.83 ± 0.61
Ω_m	0.3066	0.3061 ± 0.0071	$100\theta_D$	0.160951	0.16098 ± 0.00025	$\chi^2_{DR11LOWZ}$	0.370	0.46 ± 0.44
$\Omega_m h^2$	0.14134	0.1412 ± 0.0012	z_{eq}	3362.1	3359 ± 28	χ^2_{prior}	2.10	7.44 ± 3.6
$\Omega_m h^3$	0.095957	0.09590 ± 0.00045	k_{eq}	0.010261	0.010251 ± 0.000085	χ^2_{CMB}	11270.4	11285.9 ± 5.7
σ_8	0.8159	0.8151 ± 0.0089	$100\theta_{eq}$	0.8204	0.8210 ± 0.0052	χ^2_{BAO}	4.33	4.98 ± 0.92

Best-fit $\chi^2_{eff} = 11984.07$; $\bar{\chi}^2_{eff} = 12005.68$; $R - 1 = 0.00663$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.41 DR11LOWZ: 0.37 CMB - smica_g30_ftl_full_pp: 9.17 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.77 plik_dx11dr2_HM_v18_TT: 766.41 Hubble - H070p6: 0.67 SN - JLA December_2013: 706.63

20.32 base_r_plikHM_TT_lowTEB_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228 ± 0.00022	$\Omega_m h^3$	0.09589 ± 0.00045	$100\theta_D$	0.16097 ± 0.00026
$\boldsymbol{\Omega_c h^2}$	0.1181 ± 0.0019	σ_8	$0.8160^{+0.0081}_{-0.0095}$	z_{eq}	3355 ± 42
$\boldsymbol{100\theta_{MC}}$	1.04107 ± 0.00045	$\sigma_8\Omega_m^{0.5}$	0.4508 ± 0.0088	k_{eq}	0.01024 ± 0.00013
$\boldsymbol{\tau}$	$0.069^{+0.012}_{-0.018}$	$\sigma_8\Omega_m^{0.25}$	0.6065 ± 0.0077	$100\theta_{eq}$	$0.8217^{+0.0079}_{-0.0089}$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.067^{+0.023}_{-0.031}$	$\sigma_8/h^{0.5}$	0.990 ± 0.011	$100\theta_{s,eq}$	$0.4539^{+0.0041}_{-0.0046}$
$\boldsymbol{n_s}$	$0.9694^{+0.0055}_{-0.0062}$	$\langle d^2\rangle^{1/2}$	2.446 ± 0.026	$r_{drag}/D_V(0.57)$	$0.07196^{+0.00062}_{-0.00071}$
$\boldsymbol{r}$	< 0.0538	z_{re}	$9.07^{+1.3}_{-1.5}$	$H(0.57)$	$93.13^{+0.36}_{-0.42}$
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025	$10^9 A_s$	$2.149^{+0.047}_{-0.069}$	$D_A(0.57)$	1383^{+12}_{-11}
$\boldsymbol{A_{217}^{CIB}}$	64.2 ± 6.6	$10^9 A_s e^{-2\tau}$	1.871 ± 0.013	$F_{AP}(0.57)$	0.6744 ± 0.0029
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1239^{+15}_{-19}	$f\sigma_8(0.57)$	0.4728 ± 0.0053
$\boldsymbol{A_{143}^{tSZ}}$	5.10 ± 2.0	D_{220}	5713 ± 41	$\sigma_8(0.57)$	$0.6086^{+0.0064}_{-0.0089}$
$\boldsymbol{A_{100}^{PS}}$	259 ± 28	D_{810}	2531 ± 14	$r_{0.002}$	< 0.0498
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{1420}	814.9 ± 5.2	$r_{0.01}$	< 0.0517
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{2000}	230.2 ± 1.9	$\ln(10^{10}A_t)$	$-0.53^{+1.4}_{-0.66}$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	$n_{s,0.002}$	$0.9694^{+0.0055}_{-0.0062}$	r_{10}	< 0.0252
$\boldsymbol{A^{kSZ}}$	< 4.77	Y_P	0.24535 ± 0.00010	$10^9 A_t$	< 0.116
$\boldsymbol{A_{100}^{dustTT}}$	7.46 ± 1.9	Y_P^{BBN}	0.24668 ± 0.00010	$10^9 A_t e^{-2\tau}$	< 0.101
$\boldsymbol{A_{143}^{dustTT}}$	9.06 ± 1.8	10^5D/H	2.609 ± 0.042	f_{2000}^{143}	30.1 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	Age/Gyr	13.794 ± 0.036	$f_{2000}^{143\times217}$	32.5 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.9 ± 7.5	z_*	1089.88 ± 0.39	f_{2000}^{217}	106.1 ± 2.0
$\boldsymbol{c_{100}}$	0.99786 ± 0.00078	r_*	144.99 ± 0.43	$\chi^2_{lensing}$	9.80 ± 1.5
$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	$100\theta_*$	1.04126 ± 0.00044	χ^2_{lowTEB}	10497.0 ± 2.0
H_0	$67.99^{+0.83}_{-0.93}$	D_A/Gpc	13.925 ± 0.040	χ^2_{plik}	779.6 ± 5.6
Ω_Λ	0.695 ± 0.011	z_{drag}	1059.58 ± 0.46	χ^2_{prior}	7.44 ± 3.6
Ω_m	0.305 ± 0.011	r_{drag}	147.70 ± 0.43	χ^2_{CMB}	11286.4 ± 5.8
$\Omega_m h^2$	0.1411 ± 0.0018	k_D	0.14016 ± 0.00047		

$\bar{\chi}^2_{eff} = 11293.84$; $R - 1 = 0.00588$

20.33 base_r_plikHM_TTTEEE_lowTEB_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022264	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.335	0.337 ± 0.081	D_A/Gpc	13.9012	13.904 ± 0.029
$\boldsymbol{\Omega_c h^2}$	0.11920	0.1191 ± 0.0014	$\boldsymbol{A^{dustTE}_{217}}$	1.657	1.66 ± 0.26	z_{drag}	1059.628	1059.63 ± 0.32
$\boldsymbol{100\theta_{MC}}$	1.040853	1.04087 ± 0.00032	$\boldsymbol{c_{100}}$	0.99817	0.99811 ± 0.00077	r_{drag}	147.421	147.45 ± 0.30
$\boldsymbol{\tau}$	0.0629	0.063 ± 0.014	$\boldsymbol{c_{217}}$	0.99608	0.9961 ± 0.0014	k_D	0.140440	0.14041 ± 0.00032
$\boldsymbol{\ln(10^{10}A_s)}$	3.0582	3.059 ± 0.025	H_0	67.52	67.57 ± 0.65	$100\theta_D$	0.160918	0.16093 ± 0.00018
$\boldsymbol{n_s}$	0.96565	0.9663 ± 0.0048	Ω_Λ	0.6883	0.6888 ± 0.0088	z_{eq}	3380.6	3378 ± 32
$\boldsymbol{r}$	0.0003	< 0.0549	Ω_m	0.3117	0.3112 ± 0.0088	k_{eq}	0.010318	0.010311 ± 0.000097
$\boldsymbol{y_{cal}}$	1.00001	1.0002 ± 0.0025	$\Omega_m h^2$	0.14211	0.1420 ± 0.0013	$100\theta_{eq}$	0.8168	0.8173 ± 0.0061
$\boldsymbol{A^{CIB}_{217}}$	68.1	64.6 ± 6.6	$\Omega_m h^3$	0.095958	0.09595 ± 0.00030	$100\theta_{s,eq}$	0.45130	0.4516 ± 0.0031
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	σ_8	0.8148	0.8149 ± 0.0088	$r_{drag}/D_V(0.57)$	0.071566	0.07160 ± 0.00049
$\boldsymbol{A^{tSZ}_{143}}$	7.31	5.30 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4549	0.4545 ± 0.0070	$H(0.57)$	92.951	92.97 ± 0.28
$\boldsymbol{A^{PS}_{100}}$	258.6	261 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6088	0.6086 ± 0.0069	$D_A(0.57)$	1388.9	1388.3 ± 8.7
$\boldsymbol{A^{PS}_{143}}$	39.0	44 ± 8	$\sigma_8/h^{0.5}$	0.9915	0.991 ± 0.011	$F_{AP}(0.57)$	0.67608	0.6759 ± 0.0022
$\boldsymbol{A^{PS}_{143\times217}}$	32.7	39^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4538	2.453 ± 0.025	$f\sigma_8(0.57)$	0.4738	0.4737 ± 0.0050
$\boldsymbol{A^{PS}_{217}}$	96.3	96 ± 10	z_{re}	8.55	$8.53^{+1.4}_{-1.2}$	$\sigma_8(0.57)$	0.6061	0.6063 ± 0.0074
$\boldsymbol{A^{kSZ}}$	0.00	< 4.53	$10^9 A_s$	2.129	2.131 ± 0.054	$r_{0.002}$	0.0002	< 0.0503
$\boldsymbol{A^{dustTT}_{100}}$	7.50	7.48 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8773	1.877 ± 0.012	$r_{0.01}$	0.0002	< 0.0526
$\boldsymbol{A^{dustTT}_{143}}$	9.03	9.05 ± 1.8	D_{40}	1230.1	1245^{+14}_{-19}	$\ln(10^{10}A_t)$	−5.19	$-0.50^{+1.4}_{-0.64}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.64	17.2 ± 4.1	D_{220}	5723.0	5722 ± 39	r_{10}	0.0001	< 0.0256
$\boldsymbol{A^{dustTT}_{217}}$	81.7	81.7 ± 7.4	D_{810}	2533.4	2534 ± 14	$10^9 A_t$	0.001	< 0.117
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0808 ± 0.0057	D_{1420}	814.54	814.9 ± 4.8	$10^9 A_t e^{-2\tau}$	0.000	< 0.103
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04904	0.0485 ± 0.0050	D_{2000}	229.99	230.1 ± 1.6	f^{143}_{2000}	30.01	30.0 ± 2.7
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0990	0.099 ± 0.033	$n_{s,0.002}$	0.96565	0.9663 ± 0.0048	$f^{143\times217}_{2000}$	32.68	32.6 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.0997 ± 0.0069	Y_P	0.245346	0.245345 ± 0.000073	f^{217}_{2000}	106.17	106.1 ± 1.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2246	0.224 ± 0.047	Y_P^{BBN}	0.246673	0.246671 ± 0.000073	$\chi^2_{lensing}$	9.72	10.3 ± 1.8
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	10^5D/H	2.6113	2.611 ± 0.030	χ^2_{lowTEB}	10495.31	10497.5 ± 2.0
$\boldsymbol{A^{dustTE}_{100}}$	0.1405	0.142 ± 0.038	Age/Gyr	13.8069	13.806 ± 0.026	χ^2_{plik}	2435.0	2453.6 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1317	0.132 ± 0.029	z_*	1089.985	1089.98 ± 0.30	χ^2_{prior}	7.10	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.301	0.303 ± 0.085	r_*	144.718	144.74 ± 0.31	χ^2_{CMB}	12940.1	12961.4 ± 6.9
$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.156 ± 0.055	$100\theta_*$	1.041044	1.04106 ± 0.00032			

Best-fit $\chi^2_{eff} = 12947.18$; $\bar{\chi}^2_{eff} = 12980.75$; $R - 1 = 0.01158$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.72 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.32 plik_dx11dr2_HM_v18_TTTEEE: 2435.04

20.34 base_r_plikHM_TTTEEE_lowTEB_lensing_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022286	0.02228 ± 0.00014	$\boldsymbol{c_{100}}$	0.99818	0.99812 ± 0.00077	$100\theta_{\rm D}$	0.160909	0.16091 ± 0.00018
$\boldsymbol{\Omega_c h^2}$	0.11895	0.1189 ± 0.0010	$\boldsymbol{c_{217}}$	0.99605	0.9960 ± 0.0014	$z_{\rm eq}$	3375.0	3373 ± 23
$\boldsymbol{100\theta_{MC}}$	1.040916	1.04090 ± 0.00030	H_0	67.654	67.68 ± 0.47	$k_{\rm eq}$	0.010301	0.010294 ± 0.000072
$\boldsymbol{\tau}$	0.0669	0.065 ± 0.012	Ω_Λ	0.6900	0.6904 ± 0.0063	$100\theta_{\rm eq}$	0.81795	0.8183 ± 0.0045
$\boldsymbol{\ln(10^{10}A_s)}$	3.0657	3.062 ± 0.023	$\Omega_{\rm m}$	0.3100	0.3096 ± 0.0063	$100\theta_{\rm s,eq}$	0.45187	0.4521 ± 0.0023
$\boldsymbol{n_s}$	0.96655	0.9669 ± 0.0041	$\Omega_{\rm m}h^2$	0.14188	0.14178 ± 0.00098	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071663	0.07169 ± 0.00035
$\boldsymbol{r}$	0.0000	< 0.0553	$\Omega_{\rm m}h^3$	0.095987	0.09595 ± 0.00030	$H(0.57)$	93.011	93.01 ± 0.22
$\boldsymbol{y_{cal}}$	0.99995	1.0003 ± 0.0025	σ_8	0.8172	0.8153 ± 0.0087	$D_{\rm A}(0.57)$	1387.1	1386.9 ± 6.4
$\boldsymbol{A_{217}^{CIB}}$	67.6	64.5 ± 6.6	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4550	0.4536 ± 0.0060	$F_{\rm AP}(0.57)$	0.67564	0.6756 ± 0.0016
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6098	0.6081 ± 0.0067	$f\sigma_8(0.57)$	0.4747	0.4735 ± 0.0050
$\boldsymbol{A_{143}^{tSZ}}$	7.30	5.34 ± 1.9	$\sigma_8/h^{0.5}$	0.9935	0.991 ± 0.010	$\sigma_8(0.57)$	0.6083	0.6070 ± 0.0069
$\boldsymbol{A_{100}^{PS}}$	258.0	261 ± 27	$\langle d^2\rangle^{1/2}$	2.4583	2.452 ± 0.025	$r_{0.002}$	0.0000	< 0.0508
$\boldsymbol{A_{143}^{PS}}$	38.5	43 ± 8	$z_{\rm re}$	8.93	8.68 ± 1.2	$r_{0.01}$	0.0000	< 0.0530
$\boldsymbol{A_{143\times217}^{PS}}$	32.5	39 ± 10	$10^9A_{\rm s}$	2.1449	2.137 ± 0.049	$\ln(10^{10}A_{\rm t})$	-6.98	$-0.49^{+1.4}_{-0.64}$
$\boldsymbol{A_{217}^{PS}}$	96.7	96 ± 10	$10^9A_{\rm s}e^{-2\tau}$	1.8762	1.876 ± 0.011	r_{10}	0.0000	< 0.0259
$\boldsymbol{A^{kSZ}}$	0.00	< 4.43	D_{40}	1229.4	1244^{+13}_{-19}	$10^9A_{\rm t}$	0.000	< 0.118
$\boldsymbol{A_{100}^{dustTT}}$	7.52	7.49 ± 1.9	D_{220}	5722.7	5724 ± 38	$10^9A_te^{-2\tau}$	0.000	< 0.104
$\boldsymbol{A_{143}^{dustTT}}$	9.02	9.06 ± 1.8	D_{810}	2533.0	2534 ± 13	f_{2000}^{143}	29.75	29.9 ± 2.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.57	17.2 ± 4.2	D_{1420}	814.71	815.1 ± 4.8	$f_{2000}^{143\times217}$	32.46	32.5 ± 1.8
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.7 ± 7.4	D_{2000}	230.16	230.2 ± 1.6	f_{2000}^{217}	106.05	106.0 ± 1.8
$\boldsymbol{A_{100}^{dustEE}}$	0.0814	0.0809 ± 0.0057	$n_{\rm s,0.002}$	0.96655	0.9669 ± 0.0041	$\chi^2_{\rm lensing}$	9.99	10.2 ± 1.7
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04907	0.0485 ± 0.0050	$Y_{\rm P}$	0.245356	0.245353 ± 0.000064	$\chi^2_{\rm lowTEB}$	10495.32	10497.3 ± 1.9
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0987	0.0998 ± 0.033	$Y_{\rm P}^{\rm BBN}$	0.246682	0.246679 ± 0.000064	$\chi^2_{\rm plik}$	2434.8	2453.4 ± 6.7
$\boldsymbol{A_{143}^{dustEE}}$	0.1005	0.0998 ± 0.0069	10^5D/H	2.6072	2.608 ± 0.027	$\chi^2_{\rm 6DF}$	0.0216	0.046 ± 0.060
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2233	0.223 ± 0.047	Age/Gyr	13.8015	13.802 ± 0.021	$\chi^2_{\rm MGS}$	1.279	1.37 ± 0.45
$\boldsymbol{A_{217}^{dustEE}}$	0.653	0.65 ± 0.13	z_*	1089.933	1089.93 ± 0.24	$\chi^2_{\rm DR11CMASS}$	2.449	2.74 ± 0.48
$\boldsymbol{A_{100}^{dustTE}}$	0.1413	0.142 ± 0.038	r_*	144.768	144.80 ± 0.24	$\chi^2_{\rm DR11LOWZ}$	0.607	0.67 ± 0.48
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1323	0.132 ± 0.029	$100\theta_*$	1.041115	1.04109 ± 0.00030	$\chi^2_{\rm prior}$	7.14	19.4 ± 5.5
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.302	0.302 ± 0.085	$D_{\rm A}$/Gpc	13.9051	13.908 ± 0.023	$\chi^2_{\rm CMB}$	12940.1	12961.0 ± 6.8
$\boldsymbol{A_{143}^{dustTE}}$	0.154	0.156 ± 0.054	$z_{\rm drag}$	1059.666	1059.65 ± 0.30	$\chi^2_{\rm BAO}$	4.358	4.83 ± 0.70
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.336	0.337 ± 0.081	$r_{\rm drag}$	147.464	147.49 ± 0.25			
$\boldsymbol{A_{217}^{dustTE}}$	1.654	1.66 ± 0.26	$k_{\rm D}$	0.140409	0.14038 ± 0.00029			

Best-fit $\chi^2_{\rm eff} = 12951.61$; $\bar{\chi}^2_{\rm eff} = 12985.21$; $R - 1 = 0.01694$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.45 DR11LOWZ: 0.61 CMB - smica_g30_ftl_full_pp: 9.98 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.32 plik_dx11dr2_HM_v18_TTT
2434.81

20.35 base_r_plikHM_TTTEEE_lowTEB_lensing_post_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022311	0.02230 ± 0.00014	$\boldsymbol{c_{100}}$	0.99816	0.99812 ± 0.00078	$100\theta_{\rm D}$	0.160878	0.16090 ± 0.00018
$\boldsymbol{\Omega_c h^2}$	0.11880	0.1187 ± 0.0010	$\boldsymbol{c_{217}}$	0.99603	0.9960 ± 0.0014	$z_{\rm eq}$	3372.1	3369 ± 23
$\boldsymbol{100\theta_{\rm MC}}$	1.040909	1.04092 ± 0.00030	H_0	67.724	67.77 ± 0.46	$k_{\rm eq}$	0.010292	0.010281 ± 0.000070
$\boldsymbol{\tau}$	0.0665	0.066 ± 0.012	Ω_Λ	0.6909	0.6916 ± 0.0061	$100\theta_{\rm eq}$	0.81854	0.8192 ± 0.0043
$\boldsymbol{\ln(10^{10} A_s)}$	3.0649	3.064 ± 0.023	$\Omega_{\rm m}$	0.3091	0.3084 ± 0.0061	$100\theta_{\rm s,eq}$	0.45216	0.4525 ± 0.0022
$\boldsymbol{n_s}$	0.96694	0.9674 ± 0.0040	$\Omega_{\rm m} h^2$	0.14176	0.14161 ± 0.00096	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071710	0.07175 ± 0.00034
$\boldsymbol{r}$	0.0001	< 0.0558	$\Omega_{\rm m} h^3$	0.096003	0.09596 ± 0.00030	$H(0.57)$	93.043	93.05 ± 0.21
$\boldsymbol{y_{\rm cal}}$	1.00010	1.0003 ± 0.0025	σ_8	0.8164	0.8156 ± 0.0087	$D_{\rm A}(0.57)$	1386.1	1385.6 ± 6.2
$\boldsymbol{A_{217}^{\rm CIB}}$	67.3	64.5 ± 6.6	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4539	0.4529 ± 0.0060	$F_{\rm AP}(0.57)$	0.67541	0.6752 ± 0.0016
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.06	—	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6087	0.6078 ± 0.0066	$f\sigma_8(0.57)$	0.4740	0.4734 ± 0.0050
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.30	5.36 ± 1.9	$\sigma_8/h^{0.5}$	0.9920	0.991 ± 0.010	$\sigma_8(0.57)$	0.6079	0.6075 ± 0.0069
$\boldsymbol{A_{100}^{\rm PS}}$	256.2	261 ± 27	$\langle d^2 \rangle^{1/2}$	2.4550	2.451 ± 0.025	$r_{0.002}$	0.0001	< 0.0514
$\boldsymbol{A_{143}^{\rm PS}}$	39.0	43 ± 8	$z_{\rm re}$	8.88	8.80 ± 1.2	$r_{0.01}$	0.0001	< 0.0535
$\boldsymbol{A_{143\times217}^{PS}}$	34.2	39 ± 10	$10^9 A_{\rm s}$	2.1432	2.141 ± 0.049	$\ln(10^{10} A_{\rm t})$	-6.26	$-0.48^{+1.4}_{-0.63}$
$\boldsymbol{A_{217}^{\rm PS}}$	97.2	96 ± 10	$10^9 A_{\rm s} e^{-2\tau}$	1.8762	1.876 ± 0.011	r_{10}	0.0000	< 0.0260
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.37	D_{40}	1229.0	1244^{+13}_{-19}	$10^9 A_{\rm t}$	0.000	< 0.119
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.43	7.48 ± 1.9	D_{220}	5726.6	5725 ± 38	$10^9 A_t e^{-2\tau}$	0.000	< 0.105
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.13	9.05 ± 1.8	D_{810}	2534.0	2534 ± 13	f_{2000}^{143}	29.47	29.8 ± 2.6
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.66	17.2 ± 4.2	D_{1420}	815.23	815.3 ± 4.8	$f_{2000}^{143\times217}$	32.32	32.4 ± 1.8
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	81.8	81.8 ± 7.4	D_{2000}	230.34	230.3 ± 1.6	f_{2000}^{217}	105.86	105.9 ± 1.8
$\boldsymbol{A_{100}^{{\rm dust}EE}}$	0.0813	0.0810 ± 0.0057	$n_{\rm s,0.002}$	0.96694	0.9674 ± 0.0040	$\chi^2_{\rm lensing}$	9.81	10.2 ± 1.7
$\boldsymbol{A_{100\times143}^{{\rm dust}EE}}$	0.04908	0.0486 ± 0.0050	$Y_{\rm P}$	0.245367	0.245361 ± 0.000064	$\chi^2_{\rm lowTEB}$	10495.22	10497.3 ± 1.9
$\boldsymbol{A_{100\times217}^{{\rm dust}EE}}$	0.0999	0.0999 ± 0.033	$Y_{\rm P}^{\rm BBN}$	0.246693	0.246687 ± 0.000064	$\chi^2_{\rm plik}$	2435.2	2453.6 ± 6.7
$\boldsymbol{A_{143}^{{\rm dust}EE}}$	0.1006	0.0999 ± 0.0069	10^5D/H	2.6025	2.605 ± 0.027	$\chi^2_{\rm H070p6}$	0.749	0.74 ± 0.23
$\boldsymbol{A_{143\times217}^{{\rm dust}EE}}$	0.2251	0.224 ± 0.047	Age/Gyr	13.7987	13.799 ± 0.021	$\chi^2_{\rm JLA}$	706.683	706.70 ± 0.16
$\boldsymbol{A_{217}^{{\rm dust}EE}}$	0.650	0.65 ± 0.13	z_*	1089.889	1089.89 ± 0.23	$\chi^2_{\rm 6DF}$	0.0155	0.037 ± 0.050
$\boldsymbol{A_{100}^{{\rm dust}TE}}$	0.1402	0.142 ± 0.038	r_*	144.787	144.83 ± 0.24	$\chi^2_{\rm MGS}$	1.343	1.46 ± 0.45
$\boldsymbol{A_{100\times143}^{{\rm dust}TE}}$	0.1313	0.132 ± 0.029	$100\theta_*$	1.041104	1.04111 ± 0.00030	$\chi^2_{\rm DR11CMASS}$	2.426	2.70 ± 0.42
$\boldsymbol{A_{100\times217}^{{\rm dust}TE}}$	0.306	0.302 ± 0.085	$D_{\rm A}$/Gpc	13.9071	13.911 ± 0.023	$\chi^2_{\rm DR11LOWZ}$	0.545	0.58 ± 0.44
$\boldsymbol{A_{143}^{{\rm dust}TE}}$	0.154	0.156 ± 0.054	$z_{\rm drag}$	1059.704	1059.67 ± 0.30	$\chi^2_{\rm prior}$	7.06	19.4 ± 5.5
$\boldsymbol{A_{143\times217}^{{\rm dust}TE}}$	0.337	0.337 ± 0.081	$r_{\rm drag}$	147.476	147.53 ± 0.24	$\chi^2_{\rm CMB}$	12940.2	12961.0 ± 6.8
$\boldsymbol{A_{217}^{{\rm dust}TE}}$	1.667	1.66 ± 0.26	$k_{\rm D}$	0.140416	0.14036 ± 0.00029	$\chi^2_{\rm BAO}$	4.329	4.78 ± 0.62

Best-fit $\chi^2_{\rm eff} = 13659.05$; $\bar{\chi}^2_{\rm eff} = 13692.64$; $R - 1 = 0.01680$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.02 MGS: 1.34 DR11CMASS: 2.43 DR11LOWZ: 0.55 CMB - smica_g30_ftl_full_pp: 9.81 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.22 plik_dx11dr2_HM_v18_TTT
2435.20 Hubble - H070p6: 0.75 SN - JLA December_2013: 706.68

20.36 base_r_plikHM_TTTEEE_lowTEB_lensing_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02227 ± 0.00016	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.338 ± 0.081	D_A/Gpc	13.905 ± 0.028
$\boldsymbol{\Omega_c h^2}$	0.1190 ± 0.0014	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.66 ± 0.25	z_{drag}	1059.64 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.04088 ± 0.00032	$\boldsymbol{c_{100}}$	0.99811 ± 0.00078	r_{drag}	147.47 ± 0.29
$\boldsymbol{\tau}$	$0.065^{+0.011}_{-0.015}$	$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	k_D	0.14040 ± 0.00031
$\boldsymbol{\ln(10^{10}A_s)}$	$3.062^{+0.020}_{-0.026}$	H_0	67.62 ± 0.62	$100\theta_D$	0.16092 ± 0.00018
$\boldsymbol{n_s}$	0.9666 ± 0.0046	Ω_Λ	0.6895 ± 0.0084	z_{eq}	3376 ± 31
$\boldsymbol{r}$	< 0.0550	Ω_m	0.3105 ± 0.0084	k_{eq}	0.010303 ± 0.000093
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025	$\Omega_m h^2$	0.1419 ± 0.0013	$100\theta_{\mathrm{eq}}$	0.8178 ± 0.0059
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	64.6 ± 6.6	$\Omega_m h^3$	0.09595 ± 0.00030	$100\theta_{\mathrm{s,eq}}$	0.4518 ± 0.0030
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	—	σ_8	$0.8160^{+0.0075}_{-0.0091}$	$r_{\mathrm{drag}}/D_V(0.57)$	0.07164 ± 0.00046
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	5.33 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4546 ± 0.0070	$H(0.57)$	92.99 ± 0.27
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	261 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6090 ± 0.0067	$D_A(0.57)$	1387.6 ± 8.3
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	43 ± 8	$\sigma_8/h^{0.5}$	0.992 ± 0.010	$F_{\mathrm{AP}}(0.57)$	0.6758 ± 0.0021
$\boldsymbol{A^{PS}_{143\times217}}$	39^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.455 ± 0.024	$f\sigma_8(0.57)$	0.4741 ± 0.0048
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	96 ± 10	z_{re}	$8.72^{+1.1}_{-1.3}$	$\sigma_8(0.57)$	$0.6073^{+0.0059}_{-0.0078}$
$\boldsymbol{A^{\mathrm{kSZ}}}$	< 4.44	10^9A_s	$2.138^{+0.042}_{-0.058}$	$r_{0.002}$	< 0.0505
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.49 ± 1.9	$10^9A_se^{-2\tau}$	1.877 ± 0.011	$r_{0.01}$	< 0.0527
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	9.06 ± 1.8	D_{40}	1245^{+14}_{-19}	$\ln(10^{10}A_t)$	$-0.50^{+1.4}_{-0.65}$
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.2 ± 4.2	D_{220}	5722 ± 39	r_{10}	< 0.0257
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	81.7 ± 7.4	D_{810}	2534 ± 13	10^9A_t	< 0.118
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0809 ± 0.0057	D_{1420}	814.9 ± 4.8	$10^9A_te^{-2\tau}$	< 0.103
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0484 ± 0.0050	D_{2000}	230.2 ± 1.6	f^{143}_{2000}	29.9 ± 2.7
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0996 ± 0.033	$n_{\mathrm{s},0.002}$	0.9666 ± 0.0046	$f^{143\times217}_{2000}$	32.5 ± 1.9
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.0998 ± 0.0069	Y_P	0.245349 ± 0.000071	f^{217}_{2000}	106.0 ± 1.8
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.224 ± 0.047	Y_P^{BBN}	0.246675 ± 0.000071	$\chi^2_{\mathrm{lensing}}$	10.4 ± 1.8
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.65 ± 0.13	10^5D/H	2.610 ± 0.030	χ^2_{lowTEB}	10497.4 ± 1.9
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.142 ± 0.038	Age/Gyr	13.804 ± 0.025	χ^2_{plik}	2453.5 ± 6.8
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.132 ± 0.029	z_*	1089.95 ± 0.29	χ^2_{prior}	19.4 ± 5.5
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.303 ± 0.085	r_*	144.77 ± 0.30	χ^2_{CMB}	12961.2 ± 6.8
$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.156 ± 0.054	$100\theta_*$	1.04108 ± 0.00031		

$\bar{\chi}^2_{\mathrm{eff}} = 12980.61$; $R - 1 = 0.01566$

20.37 base_r_plikHM_TT_WMAPTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022213	0.02220 ± 0.00022	$\Omega_m h^3$	0.096018	0.09596 ± 0.00046	$100\theta_D$	0.160957	0.16099 ± 0.00026
$\boldsymbol{\Omega_c h^2}$	0.12016	0.1198 ± 0.0021	σ_8	0.8273	0.826 ± 0.011	z_{eq}	3402.3	3395 ± 48
$\boldsymbol{100\theta_{MC}}$	1.040830	1.04086 ± 0.00047	$\sigma_8\Omega_m^{0.5}$	0.4660	0.464 ± 0.013	k_{eq}	0.010384	0.01036 ± 0.00015
$\boldsymbol{\tau}$	0.0732	$0.073^{+0.011}_{-0.013}$	$\sigma_8\Omega_m^{0.25}$	0.6210	0.619 ± 0.012	$100\theta_{eq}$	0.8128	0.8143 ± 0.0089
$\boldsymbol{\ln(10^{10}A_s)}$	3.0813	$3.080^{+0.022}_{-0.024}$	$\sigma_8/h^{0.5}$	1.0097	1.007 ± 0.017	$100\theta_{s,eq}$	0.44922	0.4500 ± 0.0046
$\boldsymbol{n_s}$	0.9647	0.9655 ± 0.0058	$\langle d^2\rangle^{1/2}$	2.4944	2.488 ± 0.040	$r_{drag}/D_V(0.57)$	0.07126	0.07138 ± 0.00070
$\boldsymbol{r}$	0.0000	< 0.0417	z_{re}	9.56	9.51 ± 1.1	$H(0.57)$	92.811	92.85 ± 0.39
$\boldsymbol{y_{cal}}$	1.00022	1.0004 ± 0.0025	$10^9 A_s$	2.179	$2.177^{+0.046}_{-0.054}$	$D_A(0.57)$	1393.9	1392 ± 12
$\boldsymbol{A_{217}^{CIB}}$	66.9	63.9 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8821	1.881 ± 0.013	$F_{AP}(0.57)$	0.67750	0.6771 ± 0.0033
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.04	—	D_{40}	1236.4	1247 ± 17	$f\sigma_8(0.57)$	0.4825	0.4813 ± 0.0081
$\boldsymbol{A_{143}^{tSZ}}$	7.06	5.15 ± 1.9	D_{220}	5715.2	5713 ± 41	$\sigma_8(0.57)$	0.6141	$0.6135^{+0.0068}_{-0.0076}$
$\boldsymbol{A_{100}^{PS}}$	254.6	258 ± 28	D_{810}	2534.8	2534 ± 14	$r_{0.002}$	0.0000	< 0.0379
$\boldsymbol{A_{143}^{PS}}$	39.8	44 ± 8	D_{1420}	814.6	814.6 ± 5.1	$r_{0.01}$	0.0000	< 0.0398
$\boldsymbol{A_{143\times217}^{PS}}$	33.7	39^{+10}_{-10}	D_{2000}	230.28	230.2 ± 1.8	$\ln(10^{10}A_t)$	-7.21	$-0.78^{+1.5}_{-0.68}$
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	$n_{s,0.002}$	0.9647	0.9655 ± 0.0058	r_{10}	0.0000	< 0.0192
$\boldsymbol{A^{kSZ}}$	0.00	< 4.52	Y_P	0.245323	0.24532 ± 0.00010	$10^9 A_t$	0.0001	< 0.0907
$\boldsymbol{A_{100}^{dustTT}}$	7.31	7.42 ± 1.9	Y_P^{BBN}	0.246650	0.24664 ± 0.00010	$10^9 A_t e^{-2\tau}$	0.0001	< 0.0785
$\boldsymbol{A_{143}^{dustTT}}$	8.96	9.00 ± 1.8	10^5D/H	2.6210	2.624 ± 0.042	f_{2000}^{143}	29.78	30.0 ± 2.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.54	17.2 ± 4.1	Age/Gyr	13.8168	13.815 ± 0.037	$f_{2000}^{143\times217}$	32.41	32.5 ± 2.0
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.9 ± 7.3	z_*	1090.131	1090.12 ± 0.40	f_{2000}^{217}	105.98	106.1 ± 1.9
$\boldsymbol{c_{100}}$	0.99793	0.99787 ± 0.00079	r_*	144.510	144.60 ± 0.48	$\chi^2_{WMAPTEB}$	19734.37	19736.8 ± 2.7
$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0014	$100\theta_*$	1.041025	1.04106 ± 0.00046	χ^2_{plik}	763.8	777.6 ± 5.5
H_0	67.14	67.26 ± 0.92	D_A/Gpc	13.8815	13.890 ± 0.044	χ^2_{prior}	1.94	7.34 ± 3.6
Ω_Λ	0.6827	$0.684^{+0.014}_{-0.013}$	z_{drag}	1059.589	1059.53 ± 0.46	χ^2_{CMB}	20498.2	20514.4 ± 5.8
Ω_m	0.3173	$0.316^{+0.013}_{-0.014}$	r_{drag}	147.223	147.32 ± 0.48			
$\Omega_m h^2$	0.14302	0.1427 ± 0.0020	k_D	0.14061	0.14049 ± 0.00052			

Best-fit $\chi^2_{eff} = 20500.14$; $\bar{\chi}^2_{eff} = 20521.78$; $R - 1 = 0.01261$

χ^2_{eff}: CMB - bflike_WMAP353ggf_LFI312_nw8: 19734.37 plik_dx11dr2_HM_v18_TT: 763.84

20.38 base_r_plikHM_TT_WMAPTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02226 ± 0.00021	$\Omega_m h^3$	0.09589 ± 0.00045	$100\theta_D$	0.16099 ± 0.00026
$\boldsymbol{\Omega_c h^2}$	0.1182 ± 0.0016	σ_8	0.8168 ± 0.0072	z_{eq}	3357 ± 37
$\boldsymbol{100\theta_{MC}}$	1.04107 ± 0.00044	$\sigma_8\Omega_m^{0.5}$	0.4517 ± 0.0084	k_{eq}	0.01025 ± 0.00011
$\boldsymbol{\tau}$	$0.0694^{+0.0098}_{-0.012}$	$\sigma_8\Omega_m^{0.25}$	0.6074 ± 0.0074	$100\theta_{eq}$	0.8213 ± 0.0070
$\boldsymbol{\ln(10^{10}A_s)}$	$3.068^{+0.019}_{-0.021}$	$\sigma_8/h^{0.5}$	0.991 ± 0.010	$100\theta_{s,eq}$	0.4536 ± 0.0036
$\boldsymbol{n_s}$	0.9692 ± 0.0050	$\langle d^2\rangle^{1/2}$	2.449 ± 0.024	$r_{drag}/D_V(0.57)$	0.07192 ± 0.00055
$\boldsymbol{r}$	< 0.0475	z_{re}	9.12 ± 0.95	$H(0.57)$	93.11 ± 0.34
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0024	$10^9 A_s$	$2.151^{+0.040}_{-0.046}$	$D_A(0.57)$	1383.4 ± 9.8
$\boldsymbol{A_{217}^{CIB}}$	64.2 ± 6.7	$10^9 A_s e^{-2\tau}$	1.872 ± 0.011	$F_{AP}(0.57)$	0.6746 ± 0.0025
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{40}	1237^{+15}_{-18}	$f\sigma_8(0.57)$	0.4734 ± 0.0050
$\boldsymbol{A_{143}^{tSZ}}$	5.14 ± 1.9	D_{220}	5712 ± 40	$\sigma_8(0.57)$	0.6090 ± 0.0057
$\boldsymbol{A_{100}^{PS}}$	258 ± 28	D_{810}	2532 ± 13	$r_{0.002}$	< 0.0440
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{1420}	$814.9^{+5.5}_{-4.8}$	$r_{0.01}$	< 0.0456
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{2000}	230.2 ± 1.8	$\ln(10^{10}A_t)$	$-0.65^{+1.4}_{-0.66}$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	$n_{s,0.002}$	0.9692 ± 0.0050	r_{10}	< 0.0222
$\boldsymbol{A^{kSZ}}$	< 4.68	Y_P	0.245344 ± 0.000095	$10^9 A_t$	< 0.102
$\boldsymbol{A_{100}^{dustTT}}$	7.48 ± 1.9	Y_P^{BBN}	0.246670 ± 0.000096	$10^9 A_t e^{-2\tau}$	< 0.0888
$\boldsymbol{A_{143}^{dustTT}}$	9.07 ± 1.9	10^5D/H	2.612 ± 0.040	f_{2000}^{143}	30.1 ± 2.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.3 ± 4.2	Age/Gyr	13.796 ± 0.033	$f_{2000}^{143\times217}$	32.5 ± 2.0
$\boldsymbol{A_{217}^{dustTT}}$	81.9 ± 7.5	z_*	1089.90 ± 0.35	f_{2000}^{217}	106.1 ± 1.9
$\boldsymbol{c_{100}}$	0.99785 ± 0.00080	r_*	144.97 ± 0.38	$\chi^2_{lensing}$	9.87 ± 1.5
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	$100\theta_*$	1.04127 ± 0.00043	$\chi^2_{WMAPTEB}$	19735.5 ± 2.2
H_0	67.95 ± 0.73	D_A/Gpc	13.923 ± 0.036	χ^2_{plik}	779.4 ± 7.8
Ω_Λ	0.6941 ± 0.0097	z_{drag}	1059.56 ± 0.45	χ^2_{prior}	7.45 ± 3.6
Ω_m	0.3059 ± 0.0097	r_{drag}	147.68 ± 0.39	χ^2_{CMB}	20524.8 ± 8.0
$\Omega_m h^2$	0.1411 ± 0.0015	k_D	0.14016 ± 0.00045		

$\bar{\chi}^2_{eff} = 20532.21$; $R - 1 = 0.03993$

20.39 base_r_plikHM_TT_WMAPTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02225 ± 0.00020	σ_8	0.824 ± 0.010	$k_{\rm eq}$	0.010305 ± 0.000090
$\boldsymbol{\Omega_c h^2}$	0.1190 ± 0.0013	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4594 ± 0.0089	$100\theta_{\rm eq}$	0.8177 ± 0.0055
$\boldsymbol{100\theta_{MC}}$	1.04097 ± 0.00042	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6153 ± 0.0093	$100\theta_{\rm s,eq}$	0.4518 ± 0.0028
$\boldsymbol{\tau}$	$0.074^{+0.011}_{-0.012}$	$\sigma_8/h^{0.5}$	1.003 ± 0.014	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07165 ± 0.00042
$\boldsymbol{\ln(10^{10}A_s)}$	3.081 ± 0.023	$\langle d^2\rangle^{1/2}$	2.477 ± 0.033	$H(0.57)$	92.99 ± 0.27
$\boldsymbol{n_s}$	0.9674 ± 0.0044	$z_{\rm re}$	9.61 ± 1.0	$D_{\rm A}(0.57)$	1387.7 ± 7.6
$\boldsymbol{r}$	< 0.0440	$10^9 A_{\rm s}$	$2.179^{+0.047}_{-0.054}$	$F_{\rm AP}(0.57)$	0.6758 ± 0.0019
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$10^9 A_{\rm s} e^{-2\tau}$	1.877 ± 0.012	$f\sigma_8(0.57)$	0.4790 ± 0.0067
$\boldsymbol{A_{217}^{CIB}}$	63.9 ± 6.7	D_{40}	1243^{+15}_{-17}	$\sigma_8(0.57)$	0.6134 ± 0.0072
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	D_{220}	5716 ± 40	$r_{0.002}$	< 0.0403
$\boldsymbol{A_{143}^{tSZ}}$	5.16 ± 1.9	D_{810}	2534 ± 14	$r_{0.01}$	< 0.0421
$\boldsymbol{A_{100}^{PS}}$	257 ± 28	D_{1420}	$815.1^{+5.3}_{-4.8}$	$\ln(10^{10}A_{\rm t})$	$-0.73^{+1.4}_{-0.67}$
$\boldsymbol{A_{143}^{PS}}$	44 ± 8	D_{2000}	230.4 ± 1.7	r_{10}	< 0.0203
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	$n_{\rm s,0.002}$	0.9674 ± 0.0044	$10^9 A_{\rm t}$	< 0.0959
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	$Y_{\rm P}$	0.245337 ± 0.000089	$10^9 A_t e^{-2\tau}$	< 0.0824
$\boldsymbol{A^{kSZ}}$	< 4.54	$Y_{\rm P}^{\rm BBN}$	0.246663 ± 0.000090	f_{2000}^{143}	29.9 ± 2.8
$\boldsymbol{A_{100}^{dustTT}}$	7.40 ± 1.9	$10^5{\rm D/H}$	2.615 ± 0.037	$f_{2000}^{143\times217}$	32.3 ± 2.0
$\boldsymbol{A_{143}^{dustTT}}$	8.98 ± 1.8	Age/Gyr	13.804 ± 0.028	f_{2000}^{217}	106.0 ± 1.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	z_*	1089.99 ± 0.30	$\chi^2_{\rm WMAPTEB}$	19736.5 ± 2.7
$\boldsymbol{A_{217}^{dustTT}}$	81.9 ± 7.5	r_*	144.77 ± 0.32	$\chi^2_{\rm plik}$	777.6 ± 7.4
$\boldsymbol{c_{100}}$	0.99787 ± 0.00079	$100\theta_*$	1.04117 ± 0.00042	$\chi^2_{\rm 6DF}$	0.064 ± 0.083
$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	$D_{\rm A}$/Gpc	13.905 ± 0.032	$\chi^2_{\rm MGS}$	1.32 ± 0.53
H_0	67.61 ± 0.56	$z_{\rm drag}$	1059.58 ± 0.44	$\chi^2_{\rm DR11CMASS}$	2.90 ± 0.70
Ω_Λ	0.6894 ± 0.0076	$r_{\rm drag}$	147.48 ± 0.35	$\chi^2_{\rm DR11LOWZ}$	0.77 ± 0.61
$\Omega_{\rm m}$	0.3106 ± 0.0076	$k_{\rm D}$	0.14036 ± 0.00045	$\chi^2_{\rm prior}$	7.37 ± 3.6
$\Omega_{\rm m}h^2$	0.1419 ± 0.0012	$100\theta_{\rm D}$	0.16097 ± 0.00026	$\chi^2_{\rm CMB}$	20514.1 ± 7.5
$\Omega_{\rm m}h^3$	0.09596 ± 0.00046	$z_{\rm eq}$	3376 ± 29	$\chi^2_{\rm BAO}$	5.06 ± 1.0

$\bar{\chi}^2_{\rm eff} = 20526.53$; $R - 1 = 0.01956$

21 w

21.1 base_w_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022334	0.02228 ± 0.00023	Ω_m	0.1421	$0.205^{+0.022}_{-0.069}$	D_A/Gpc	13.8970	13.891 ± 0.045
$\boldsymbol{\Omega_c h^2}$	0.11911	0.1195 ± 0.0022	$\Omega_m h^2$	0.14209	0.1425 ± 0.0021	z_{drag}	1059.780	1059.69 ± 0.48
$\boldsymbol{100\theta_{MC}}$	1.040970	1.04092 ± 0.00049	$\Omega_m h^3$	0.1421	$0.122^{+0.020}_{-0.0099}$	r_{drag}	147.369	147.32 ± 0.49
$\boldsymbol{\tau}$	0.0778	0.076 ± 0.020	σ_8	1.093	$0.980^{+0.11}_{-0.058}$	k_D	0.14055	0.14055 ± 0.00053
$\boldsymbol{w}$	-1.936	$-1.54^{+0.20}_{-0.40}$	$\sigma_8\Omega_m^{0.5}$	0.4119	$0.436^{+0.017}_{-0.025}$	$100\theta_D$	0.160845	0.16091 ± 0.00027
$\boldsymbol{\ln(10^{10}A_s)}$	3.0881	3.085 ± 0.037	$\sigma_8\Omega_m^{0.25}$	0.6708	$0.652^{+0.024}_{-0.019}$	z_{eq}	3380	3389 ± 50
$\boldsymbol{n_s}$	0.9674	0.9660 ± 0.0061	$\sigma_8/h^{0.5}$	1.0926	$1.062^{+0.038}_{-0.028}$	k_{eq}	0.010316	0.01034 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00011	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.573	$2.547^{+0.056}_{-0.051}$	$100\theta_{eq}$	0.8172	0.8155 ± 0.0094
$\boldsymbol{A_{217}^{CIB}}$	65.4	63.4 ± 6.6	z_{re}	9.86	$9.64^{+1.9}_{-1.7}$	$100\theta_{s,eq}$	0.45145	0.4506 ± 0.0048
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.16	—	$10^9 A_s$	2.194	2.189 ± 0.082	$r_{drag}/D_V(0.57)$	0.07623	$0.0745^{+0.0021}_{-0.0012}$
$\boldsymbol{A_{143}^{tSZ}}$	7.03	5.22 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8777	1.880 ± 0.014	$H(0.57)$	88.99	$90.9^{+1.8}_{-1.3}$
$\boldsymbol{A_{100}^{PS}}$	250.3	256 ± 28	D_{40}	1227.1	1233^{+14}_{-16}	$D_A(0.57)$	1235.4	1294^{+25}_{-64}
$\boldsymbol{A_{143}^{PS}}$	40.1	43 ± 8	D_{220}	5722.5	5722 ± 41	$F_{AP}(0.57)$	0.5758	$0.616^{+0.016}_{-0.042}$
$\boldsymbol{A_{143\times217}^{PS}}$	36.4	39 ± 10	D_{810}	2532.4	2534 ± 14	$f\sigma_8(0.57)$	0.690	$0.599^{+0.087}_{-0.050}$
$\boldsymbol{A_{217}^{PS}}$	99.1	98 ± 10	D_{1420}	814.5	814.5 ± 5.0	$\sigma_8(0.57)$	0.837	$0.743^{+0.093}_{-0.045}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.29	D_{2000}	230.88	230.6 ± 1.8	f_{2000}^{143}	28.80	29.4 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.39	7.45 ± 1.9	$n_{s,0.002}$	0.9674	0.9660 ± 0.0061	$f_{2000}^{143\times217}$	31.60	32.0 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	8.94	8.97 ± 1.8	Y_P	0.245377	0.24535 ± 0.00011	f_{2000}^{217}	105.19	105.7 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.48	17.0 ± 4.2	Y_P^{BBN}	0.246703	0.24668 ± 0.00011	χ^2_{lowTEB}	10495.14	10496.4 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	10^5D/H	2.5982	2.609 ± 0.044	χ^2_{plik}	761.9	776.1 ± 5.5
$\boldsymbol{c_{100}}$	0.99794	0.99790 ± 0.00078	Age/Gyr	13.432	$13.573^{+0.063}_{-0.16}$	χ^2_{prior}	1.86	7.20 ± 3.5
$\boldsymbol{c_{217}}$	0.99581	0.9959 ± 0.0014	z_*	1089.887	1090.00 ± 0.43	χ^2_{CMB}	11257.0	11272.6 ± 5.6
H_0	99.99	> 80.9	r_*	144.69	144.62 ± 0.49			
Ω_Λ	0.8579	$0.795^{+0.069}_{-0.022}$	$100\theta_*$	1.041157	1.04111 ± 0.00048			

Best-fit $\chi^2_{eff} = 11258.91$; $\bar{\chi}^2_{eff} = 11279.77$; $R - 1 = 0.01604$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.14 plik_dx11dr2_HM_v18_TT: 761.92

21.2 base_w_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022254	0.02223 ± 0.00023	Ω_m	0.3054	0.306 ± 0.016	D_A/Gpc	13.8911	13.891 ± 0.046
$\boldsymbol{\Omega_c h^2}$	0.11962	0.1197 ± 0.0022	$\Omega_m h^2$	0.14252	0.1426 ± 0.0021	z_{drag}	1059.628	$1059.59^{+0.51}_{-0.45}$
$\boldsymbol{100\theta_{MC}}$	1.04088	1.04089 ± 0.00049	$\Omega_m h^3$	0.09737	0.0974 ± 0.0024	r_{drag}	147.32	$147.33^{+0.54}_{-0.48}$
$\boldsymbol{\tau}$	0.0788	0.078 ± 0.020	σ_8	0.8395	0.838 ± 0.022	k_D	0.14054	0.14051 ± 0.00052
$\boldsymbol{w}$	-1.032	-1.032 ± 0.057	$\sigma_8\Omega_m^{0.5}$	0.4639	$0.464^{+0.015}_{-0.013}$	$100\theta_D$	0.160925	0.16096 ± 0.00027
$\boldsymbol{\ln(10^{10}A_s)}$	3.0919	3.090 ± 0.037	$\sigma_8\Omega_m^{0.25}$	0.6241	0.623 ± 0.015	z_{eq}	3390	3391 ± 50
$\boldsymbol{n_s}$	0.9665	0.9658 ± 0.0061	$\sigma_8/h^{0.5}$	1.0157	1.015 ± 0.022	k_{eq}	0.010348	0.01035 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00048	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.5031	2.502 ± 0.048	$100\theta_{eq}$	0.8150	0.8150 ± 0.0095
$\boldsymbol{A_{217}^{CIB}}$	65.8	63.5 ± 6.6	z_{re}	10.05	$9.92^{+2.2}_{-1.6}$	$100\theta_{s,eq}$	0.45038	0.4504 ± 0.0049
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	$10^9 A_s$	2.202	2.198 ± 0.082	$r_{drag}/D_V(0.57)$	0.07169	$0.07167^{+0.00071}_{-0.00081}$
$\boldsymbol{A_{143}^{tSZ}}$	7.02	$5.25^{+2.3}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8806	$1.879^{+0.015}_{-0.012}$	$H(0.57)$	92.868	92.84 ± 0.47
$\boldsymbol{A_{100}^{PS}}$	251.7	256^{+30}_{-30}	D_{40}	1234.7	1236 ± 14	$D_A(0.57)$	1383.2	1384 ± 15
$\boldsymbol{A_{143}^{PS}}$	40.7	43 ± 8	D_{220}	5717.8	5713 ± 43	$F_{AP}(0.57)$	0.6727	0.6729 ± 0.0066
$\boldsymbol{A_{143\times217}^{PS}}$	36.4	39 ± 10	D_{810}	2535.6	2532^{+15}_{-12}	$f\sigma_8(0.57)$	0.4899	0.489 ± 0.016
$\boldsymbol{A_{217}^{PS}}$	99.4	98 ± 10	D_{1420}	815.4	814.0 ± 5.2	$\sigma_8(0.57)$	0.6249	0.624 ± 0.016
$\boldsymbol{A^{kSZ}}$	0.00	< 4.58	D_{2000}	230.72	230.2 ± 1.8	f_{2000}^{143}	29.27	29.9 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.46	$7.48^{+1.7}_{-2.0}$	$n_{s,0.002}$	0.9665	0.9658 ± 0.0061	$f_{2000}^{143\times217}$	32.06	32.3 ± 2.0
$\boldsymbol{A_{143}^{dustTT}}$	9.00	9.01 ± 2.0	Y_P	0.245342	0.24533 ± 0.00011	f_{2000}^{217}	105.70	105.9 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.69	17.1 ± 4.3	Y_P^{BBN}	0.246668	0.24666 ± 0.00011	χ^2_{lowTEB}	10496.31	10497.4 ± 2.4
$\boldsymbol{A_{217}^{dustTT}}$	82.3	$81.8^{+8.4}_{-6.7}$	10^5D/H	2.6133	2.618 ± 0.045	χ^2_{plik}	763.4	780 ± 29
$\boldsymbol{c_{100}}$	0.99792	0.99788 ± 0.00079	Age/Gyr	13.7895	13.793 ± 0.044	χ^2_{JLA}	706.69	707.7 ± 1.4
$\boldsymbol{c_{217}}$	0.99590	0.9958 ± 0.0015	z_*	1090.035	$1090.07^{+0.50}_{-0.41}$	χ^2_{prior}	1.94	7.55 ± 4.5
H_0	68.32	68.3 ± 1.6	r_*	144.62	144.62 ± 0.50	χ^2_{CMB}	11259.8	11280 ± 29
Ω_Λ	0.6946	0.694 ± 0.016	$100\theta_*$	1.04107	1.04109 ± 0.00048			

Best-fit $\chi^2_{eff} = 11968.38$; $\bar{\chi}^2_{eff} = 11992.28$; $R - 1 = 0.08168$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.31 plik_dx11dr2_HM_v18_TT: 763.44 SN - JLA December_2013: 706.68

21.3 base_w_plikHM_TT_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022332	0.02229 ± 0.00024	Ω_m	0.152	$0.224^{+0.034}_{-0.090}$	D_A/Gpc	13.9303	13.919 ± 0.041
$\boldsymbol{\Omega_c h^2}$	0.11767	0.1183 ± 0.0020	$\Omega_m h^2$	0.14065	0.1412 ± 0.0019	z_{drag}	1059.666	$1059.62^{+0.46}_{-0.53}$
$\boldsymbol{100\theta_{MC}}$	1.041174	1.04110 ± 0.00049	$\Omega_m h^3$	0.1354	$0.116^{+0.022}_{-0.013}$	r_{drag}	147.755	147.64 ± 0.44
$\boldsymbol{\tau}$	0.0575	0.059 ± 0.018	σ_8	1.031	$0.924^{+0.12}_{-0.067}$	k_D	0.140142	0.14022 ± 0.00049
$\boldsymbol{w}$	-1.802	$-1.41^{+0.26}_{-0.46}$	$\sigma_8\Omega_m^{0.5}$	0.4013	$0.427^{+0.017}_{-0.030}$	$100\theta_D$	0.160924	0.16096 ± 0.00027
$\boldsymbol{\ln(10^{10}A_s)}$	3.0433	3.049 ± 0.033	$\sigma_8\Omega_m^{0.25}$	0.6431	$0.626^{+0.021}_{-0.015}$	z_{eq}	3345.6	3360 ± 45
$\boldsymbol{n_s}$	0.9698	$0.9681^{+0.0054}_{-0.0062}$	$\sigma_8/h^{0.5}$	1.0501	$1.022^{+0.035}_{-0.023}$	k_{eq}	0.010211	0.01025 ± 0.00014
$\boldsymbol{y_{cal}}$	0.99988	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4905	$2.471^{+0.034}_{-0.030}$	$100\theta_{eq}$	0.8237	0.8210 ± 0.0086
$\boldsymbol{A_{217}^{CIB}}$	67.5	64.5 ± 6.7	z_{re}	7.91	$8.06^{+2.0}_{-1.6}$	$100\theta_{s,eq}$	0.45482	0.4535 ± 0.0044
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.097	2.110 ± 0.070	$r_{drag}/D_V(0.57)$	0.07659	$0.0743^{+0.0028}_{-0.0014}$
$\boldsymbol{A_{143}^{tSZ}}$	7.16	5.19 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8695	1.873 ± 0.013	$H(0.57)$	90.02	$91.6^{+1.8}_{-1.4}$
$\boldsymbol{A_{100}^{PS}}$	254.2	259 ± 28	D_{40}	1213.1	1221 ± 13	$D_A(0.57)$	1239	1308^{+36}_{-84}
$\boldsymbol{A_{143}^{PS}}$	38.8	44 ± 8	D_{220}	5719.6	5720 ± 41	$F_{AP}(0.57)$	0.5839	$0.628^{+0.024}_{-0.052}$
$\boldsymbol{A_{143\times217}^{PS}}$	32.1	39 ± 10	D_{810}	2530.1	2531^{+15}_{-13}	$f\sigma_8(0.57)$	0.640	$0.557^{+0.093}_{-0.058}$
$\boldsymbol{A_{217}^{PS}}$	96.5	96 ± 10	D_{1420}	814.5	814.4 ± 5.2	$\sigma_8(0.57)$	0.790	$0.699^{+0.10}_{-0.055}$
$\boldsymbol{A^{kSZ}}$	0.01	< 4.83	D_{2000}	230.28	$230.1^{+1.8}_{-2.0}$	f_{2000}^{143}	29.79	30.3 ± 3.0
$\boldsymbol{A_{100}^{dustTT}}$	7.43	7.48 ± 1.9	$n_{s,0.002}$	0.9698	$0.9681^{+0.0054}_{-0.0062}$	$f_{2000}^{143\times217}$	32.35	32.8 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.16	9.12 ± 1.8	Y_P	0.245376	0.24535 ± 0.00011	f_{2000}^{217}	105.86	106.3 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.1 ± 4.3	Y_P^{BBN}	0.246703	0.24668 ± 0.00011	$\chi^2_{lensing}$	9.50	10.1 ± 1.8
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.5 ± 7.6	10^5D/H	2.5985	2.608 ± 0.045	χ^2_{lowTEB}	10493.77	10495.1 ± 1.4
$\boldsymbol{c_{100}}$	0.99793	0.99790 ± 0.00078	Age/Gyr	13.445	$13.611^{+0.088}_{-0.21}$	χ^2_{plik}	766.0	780 ± 11
$\boldsymbol{c_{217}}$	0.99597	0.9959 ± 0.0015	z_*	1089.764	1089.88 ± 0.42	χ^2_{prior}	2.01	7.50 ± 3.8
H_0	96.3	> 76.0	r_*	145.066	144.94 ± 0.44	χ^2_{CMB}	11269.3	11280 ± 11
Ω_Λ	0.848	$0.776^{+0.090}_{-0.034}$	$100\theta_*$	1.041366	1.04129 ± 0.00048			

Best-fit $\chi^2_{eff} = 11271.28$; $\bar{\chi}^2_{eff} = 11292.49$; $R - 1 = 0.04349$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.50 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.77 plik_dx11dr2_HM_v18_TT: 766.00

21.4 base_w_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022258	0.02223 ± 0.00023	Ω_m	0.2761	$0.279^{+0.024}_{-0.030}$	D_A/Gpc	13.8894	13.887 ± 0.046
$\boldsymbol{\Omega_c h^2}$	0.11968	0.1199 ± 0.0022	$\Omega_m h^2$	0.14259	0.1428 ± 0.0021	z_{drag}	1059.666	1059.59 ± 0.47
$\boldsymbol{100\theta_{MC}}$	1.04088	1.04087 ± 0.00050	$\Omega_m h^3$	0.10247	0.1025 ± 0.0050	r_{drag}	147.30	147.28 ± 0.50
$\boldsymbol{\tau}$	0.0775	0.076 ± 0.020	σ_8	0.8720	0.871 ± 0.035	k_D	0.14056	0.14055 ± 0.00053
$\boldsymbol{w}$	-1.148	-1.15 ± 0.11	$\sigma_8\Omega_m^{0.5}$	0.4582	0.459 ± 0.013	$100\theta_D$	0.160917	0.16096 ± 0.00027
$\boldsymbol{\ln(10^{10}A_s)}$	3.0891	3.086 ± 0.037	$\sigma_8\Omega_m^{0.25}$	0.6321	0.632 ± 0.017	z_{eq}	3392	3396 ± 50
$\boldsymbol{n_s}$	0.9663	0.9651 ± 0.0059	$\sigma_8/h^{0.5}$	1.0287	1.028 ± 0.025	k_{eq}	0.010353	0.01037 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00026	1.0002 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.518	2.518 ± 0.050	$100\theta_{eq}$	0.8148	0.8140 ± 0.0094
$\boldsymbol{A_{217}^{CIB}}$	65.3	63.6 ± 6.7	z_{re}	9.92	$9.71^{+2.0}_{-1.6}$	$100\theta_{s,eq}$	0.45024	0.4499 ± 0.0048
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.22	—	$10^9 A_s$	2.196	2.191 ± 0.082	$r_{drag}/D_V(0.57)$	0.07251	0.07239 ± 0.00095
$\boldsymbol{A_{143}^{tSZ}}$	6.96	5.11 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8804	1.881 ± 0.014	$H(0.57)$	92.62	$92.51^{+0.66}_{-0.55}$
$\boldsymbol{A_{100}^{PS}}$	251.3	258 ± 28	D_{40}	1233.1	1236 ± 14	$D_A(0.57)$	1357.6	1360^{+23}_{-26}
$\boldsymbol{A_{143}^{PS}}$	42.1	44 ± 8	D_{220}	5716.7	5716 ± 41	$F_{AP}(0.57)$	0.6585	0.659 ± 0.013
$\boldsymbol{A_{143\times217}^{PS}}$	39.1	39 ± 10	D_{810}	2534.6	2533^{+15}_{-13}	$f\sigma_8(0.57)$	0.5137	0.514 ± 0.027
$\boldsymbol{A_{217}^{PS}}$	100.4	98 ± 10	D_{1420}	815.0	814.1 ± 5.1	$\sigma_8(0.57)$	0.6523	0.651 ± 0.029
$\boldsymbol{A^{kSZ}}$	0.01	< 4.49	D_{2000}	230.67	230.3 ± 1.8	f_{2000}^{143}	29.18	29.9 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.37	7.45 ± 1.9	$n_{s,0.002}$	0.9663	0.9651 ± 0.0059	$f_{2000}^{143\times217}$	32.05	32.3 ± 2.0
$\boldsymbol{A_{143}^{dustTT}}$	9.00	9.01 ± 1.9	Y_P	0.245343	0.24533 ± 0.00010	f_{2000}^{217}	105.61	106.0 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.72	17.1 ± 4.3	Y_P^{BBN}	0.246670	0.24665 ± 0.00010	χ^2_{lowTEB}	10495.99	10497.1 ± 2.3
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.9 ± 7.5	10^5D/H	2.6125	2.619 ± 0.044	χ^2_{plik}	763.2	778 ± 16
$\boldsymbol{c_{100}}$	0.99793	0.99788 ± 0.00077	Age/Gyr	13.724	$13.733^{+0.061}_{-0.070}$	χ^2_{H070p6}	0.090	0.99 ± 1.4
$\boldsymbol{c_{217}}$	0.99584	0.9959 ± 0.0015	z_*	1090.035	$1090.10^{+0.47}_{-0.42}$	χ^2_{prior}	1.83	7.34 ± 3.9
H_0	71.86	71.8 ± 3.4	r_*	144.60	144.57 ± 0.50	χ^2_{CMB}	11259.1	11270 ± 17
Ω_Λ	0.7239	$0.721^{+0.030}_{-0.024}$	$100\theta_*$	1.041074	1.04107 ± 0.00049			

Best-fit $\chi^2_{eff} = 11261.07$; $\bar{\chi}^2_{eff} = 11283.02$; $R - 1 = 0.03023$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.99 plik_dx11dr2_HM_v18_TT: 763.16 Hubble - H070p6: 0.09

21.5 base_w_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02228 ± 0.00023	Ω_m	$0.207^{+0.023}_{-0.070}$	D_A/Gpc	13.893 ± 0.045
$\boldsymbol{\Omega_c h^2}$	0.1195 ± 0.0022	$\Omega_m h^2$	0.1424 ± 0.0021	z_{drag}	1059.70 ± 0.47
$\boldsymbol{100\theta_{MC}}$	1.04094 ± 0.00048	$\Omega_m h^3$	$0.121^{+0.020}_{-0.010}$	r_{drag}	147.33 ± 0.49
$\boldsymbol{\tau}$	$0.078^{+0.017}_{-0.021}$	σ_8	$0.979^{+0.11}_{-0.059}$	k_D	0.14054 ± 0.00052
$\boldsymbol{w}$	$-1.53^{+0.20}_{-0.40}$	$\sigma_8\Omega_m^{0.5}$	$0.436^{+0.017}_{-0.025}$	$100\theta_D$	0.16090 ± 0.00027
$\boldsymbol{\ln(10^{10} A_s)}$	$3.089^{+0.032}_{-0.039}$	$\sigma_8\Omega_m^{0.25}$	$0.652^{+0.024}_{-0.018}$	z_{eq}	3387 ± 49
$\boldsymbol{n_s}$	0.9663 ± 0.0060	$\sigma_8/h^{0.5}$	$1.062^{+0.039}_{-0.028}$	k_{eq}	0.01034 ± 0.00015
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025	$\langle d^2\rangle^{1/2}$	$2.549^{+0.055}_{-0.049}$	$100\theta_{eq}$	0.8159 ± 0.0093
$\boldsymbol{A_{217}^{CIB}}$	63.4 ± 6.7	z_{re}	9.82 ± 1.6	$100\theta_{s,eq}$	0.4508 ± 0.0048
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.196^{+0.068}_{-0.089}$	$r_{drag}/D_V(0.57)$	$0.0745^{+0.0021}_{-0.0012}$
$\boldsymbol{A_{143}^{tSZ}}$	5.21 ± 1.9	$10^9 A_s e^{-2\tau}$	1.879 ± 0.014	$H(0.57)$	$91.0^{+1.8}_{-1.3}$
$\boldsymbol{A_{100}^{PS}}$	256 ± 28	D_{40}	1232 ± 15	$D_A(0.57)$	1295^{+26}_{-65}
$\boldsymbol{A_{143}^{PS}}$	43 ± 8	D_{220}	5722 ± 41	$F_{AP}(0.57)$	$0.617^{+0.017}_{-0.042}$
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{810}	2533 ± 14	$f\sigma_8(0.57)$	$0.598^{+0.087}_{-0.051}$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10	D_{1420}	814.3 ± 5.1	$\sigma_8(0.57)$	$0.742^{+0.093}_{-0.047}$
$\boldsymbol{A^{kSZ}}$	< 4.36	D_{2000}	230.6 ± 1.8	f_{2000}^{143}	29.4 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.45 ± 1.9	$n_{s,0.002}$	0.9663 ± 0.0060	$f_{2000}^{143\times217}$	32.0 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.00 ± 1.9	Y_P	0.24535 ± 0.00011	f_{2000}^{217}	105.7 ± 2.0
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.0 ± 4.2	Y_P^{BBN}	0.24668 ± 0.00011	χ^2_{lowTEB}	10496.4 ± 2.2
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.5	10^5D/H	2.608 ± 0.044	χ^2_{plik}	776 ± 10
$\boldsymbol{c_{100}}$	0.99789 ± 0.00078	Age/Gyr	$13.574^{+0.064}_{-0.16}$	χ^2_{prior}	7.33 ± 3.6
$\boldsymbol{c_{217}}$	0.9959 ± 0.0015	z_*	1089.98 ± 0.43	χ^2_{CMB}	11270 ± 11
H_0	> 80.5	r_*	144.64 ± 0.49		
Ω_Λ	$0.793^{+0.070}_{-0.023}$	$100\theta_*$	1.04113 ± 0.00047		

$\bar{\chi}^2_{eff} = 11280.10$; $R - 1 = 0.01069$

21.6 base_w_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022303	0.02229 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.304	0.302 ± 0.084	Age/Gyr	13.441	$13.570^{+0.054}_{-0.14}$
$\boldsymbol{\Omega_c h^2}$	0.11947	0.1196 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.152	0.154 ± 0.054	z_*	1089.959	1089.99 ± 0.29
$\boldsymbol{100\theta_{MC}}$	1.040828	1.04080 ± 0.00031	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.338 ± 0.081	r_*	144.620	144.60 ± 0.32
$\boldsymbol{\tau}$	0.0742	0.075 ± 0.017	$\boldsymbol{A^{dustTE}_{217}}$	1.662	1.67 ± 0.26	$100\theta_*$	1.041013	1.04100 ± 0.00031
$\boldsymbol{w}$	-1.947	$-1.55^{+0.19}_{-0.38}$	$\boldsymbol{c_{100}}$	0.99819	0.99818 ± 0.00077	D_A/Gpc	13.8922	13.891 ± 0.030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0823	3.085 ± 0.033	$\boldsymbol{c_{217}}$	0.99585	0.9959 ± 0.0014	z_{drag}	1059.742	1059.71 ± 0.32
$\boldsymbol{n_s}$	0.96536	0.9649 ± 0.0048	H_0	99.9	> 81.3	r_{drag}	147.307	147.30 ± 0.31
$\boldsymbol{y_{cal}}$	0.999996	1.0003 ± 0.0025	Ω_Λ	0.8573	$0.797^{+0.065}_{-0.022}$	k_D	0.140589	0.14058 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	65.1	63.6 ± 6.5	Ω_m	0.1427	$0.203^{+0.022}_{-0.065}$	$100\theta_D$	0.160852	0.16087 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.22	—	$\Omega_m h^2$	0.14242	0.1425 ± 0.0014	z_{eq}	3387.9	3390 ± 33
$\boldsymbol{A^{tSZ}_{143}}$	7.12	5.41 ± 1.9	$\Omega_m h^3$	0.1423	$0.122^{+0.019}_{-0.0097}$	k_{eq}	0.010340	0.01035 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	253.2	259 ± 28	σ_8	1.092	$0.983^{+0.10}_{-0.055}$	$100\theta_{eq}$	0.8156	0.8152 ± 0.0062
$\boldsymbol{A^{PS}_{143}}$	41.0	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4123	$0.435^{+0.014}_{-0.023}$	$100\theta_{s,eq}$	0.45063	0.4504 ± 0.0032
$\boldsymbol{A^{PS}_{143\times217}}$	38.8	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6709	$0.653^{+0.021}_{-0.015}$	$r_{drag}/D_V(0.57)$	0.07603	$0.0745^{+0.0018}_{-0.00088}$
$\boldsymbol{A^{PS}_{217}}$	100.3	98 ± 10	$\sigma_8/h^{0.5}$	1.0922	$1.063^{+0.034}_{-0.024}$	$H(0.57)$	88.82	90.8 ± 1.3
$\boldsymbol{A^{kSZ}}$	0.00	< 3.96	$\langle d^2\rangle^{1/2}$	2.5739	2.551 ± 0.045	$D_A(0.57)$	1238.3	1293^{+23}_{-59}
$\boldsymbol{A^{dustTT}_{100}}$	7.33	7.43 ± 1.8	z_{re}	9.55	9.62 ± 1.6	$F_{AP}(0.57)$	0.5759	$0.615^{+0.016}_{-0.040}$
$\boldsymbol{A^{dustTT}_{143}}$	8.95	8.89 ± 1.8	$10^9 A_s$	2.181	$2.188^{+0.070}_{-0.078}$	$f\sigma_8(0.57)$	0.691	$0.602^{+0.083}_{-0.047}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.50	17.0 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8801	1.881 ± 0.012	$\sigma_8(0.57)$	0.835	$0.745^{+0.088}_{-0.044}$
$\boldsymbol{A^{dustTT}_{217}}$	81.8	81.6 ± 7.4	D_{40}	1231.3	1236 ± 13	f^{143}_{2000}	28.77	29.3 ± 2.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	0.0813 ± 0.0056	D_{220}	5729.8	5733 ± 38	$f^{143\times217}_{2000}$	31.81	32.0 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04889	0.0488 ± 0.0050	D_{810}	2533.2	2535 ± 13	f^{217}_{2000}	105.38	105.6 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0990	0.0997 ± 0.033	D_{1420}	813.97	$814.3^{+5.1}_{-4.5}$	χ^2_{lowTEB}	10495.27	10496.5 ± 1.9
$\boldsymbol{A^{dustEE}_{143}}$	0.1003	0.1002 ± 0.0068	D_{2000}	230.55	230.5 ± 1.6	χ^2_{plik}	2430.1	2449.4 ± 6.6
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2237	0.224 ± 0.046	$n_{s,0.002}$	0.96536	0.9649 ± 0.0048	χ^2_{prior}	6.90	19.2 ± 5.4
$\boldsymbol{A^{dustEE}_{217}}$	0.648	0.65 ± 0.13	Y_P	0.245363	0.245354 ± 0.000072	χ^2_{CMB}	12925.4	12945.8 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.1423	0.141 ± 0.038	Y_P^{BBN}	0.246690	0.246680 ± 0.000072			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1306	0.131 ± 0.029	10^5D/H	2.6040	2.607 ± 0.030			

Best-fit $\chi^2_{eff} = 12932.27$; $\bar{\chi}^2_{eff} = 12965.06$; $R - 1 = 0.00999$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.27 plik_dx11dr2_HM_v18_TTTEEE: 2430.09

21.7 base_w_plikHM_TTTEEE_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022298	0.02228 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.305	0.302 ± 0.082	Age/Gyr	13.521	$13.619^{+0.075}_{-0.20}$
$\boldsymbol{\Omega_c h^2}$	0.11884	0.1190 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.156 ± 0.054	z_*	1089.908	1089.94 ± 0.29
$\boldsymbol{100\theta_{MC}}$	1.040919	1.04089 ± 0.00031	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.336	0.339 ± 0.080	r_*	144.786	144.76 ± 0.31
$\boldsymbol{\tau}$	0.0529	0.056 ± 0.015	$\boldsymbol{A^{dustTE}_{217}}$	1.668	1.66 ± 0.25	$100\theta_*$	1.041114	1.04108 ± 0.00030
$\boldsymbol{w}$	-1.621	$-1.42^{+0.25}_{-0.47}$	$\boldsymbol{c_{100}}$	0.99816	0.99810 ± 0.00079	D_A/Gpc	13.9069	13.905 ± 0.028
$\boldsymbol{\ln(10^{10}A_s)}$	3.0369	$3.045^{+0.026}_{-0.029}$	$\boldsymbol{c_{217}}$	0.99602	0.9960 ± 0.0014	z_{drag}	1059.704	1059.66 ± 0.31
$\boldsymbol{n_s}$	0.96637	0.9658 ± 0.0048	H_0	88.2	> 75.9	r_{drag}	147.477	147.45 ± 0.30
$\boldsymbol{y_{cal}}$	0.99972	$1.0001^{+0.0027}_{-0.0024}$	Ω_Λ	0.818	$0.774^{+0.090}_{-0.033}$	k_D	0.140403	0.14042 ± 0.00032
$\boldsymbol{A^{CIB}_{217}}$	67.8	64.7 ± 6.4	Ω_m	0.182	$0.226^{+0.033}_{-0.090}$	$100\theta_D$	0.160895	0.16091 ± 0.00018
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	$\Omega_m h^2$	0.14178	0.1419 ± 0.0013	z_{eq}	3372.8	3376 ± 31
$\boldsymbol{A^{tSZ}_{143}}$	7.26	5.32 ± 2.0	$\Omega_m h^3$	0.1251	$0.116^{+0.022}_{-0.016}$	k_{eq}	0.010294	0.010304 ± 0.000095
$\boldsymbol{A^{PS}_{100}}$	257.9	263^{+26}_{-31}	σ_8	0.978	$0.925^{+0.12}_{-0.065}$	$100\theta_{eq}$	0.8184	0.8178 ± 0.0060
$\boldsymbol{A^{PS}_{143}}$	38.9	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4173	$0.430^{+0.018}_{-0.028}$	$100\theta_{s,eq}$	0.45210	0.4518 ± 0.0031
$\boldsymbol{A^{PS}_{143\times217}}$	32.8	39 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6388	$0.629^{+0.022}_{-0.014}$	$r_{drag}/D_V(0.57)$	0.07532	$0.0740^{+0.0026}_{-0.0011}$
$\boldsymbol{A^{PS}_{217}}$	96.5	96 ± 10	$\sigma_8/h^{0.5}$	1.0410	$1.024^{+0.036}_{-0.021}$	$H(0.57)$	90.77	$91.4^{+1.8}_{-0.97}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.48	$\langle d^2\rangle^{1/2}$	2.4892	$2.478^{+0.036}_{-0.028}$	$D_A(0.57)$	1272	1312^{+32}_{-82}
$\boldsymbol{A^{dustTT}_{100}}$	7.44	7.47 ± 1.8	z_{re}	7.48	7.77 ± 1.5	$F_{AP}(0.57)$	0.6046	$0.628^{+0.023}_{-0.052}$
$\boldsymbol{A^{dustTT}_{143}}$	9.05	9.03 ± 1.9	$10^9 A_s$	2.084	$2.101^{+0.053}_{-0.062}$	$f\sigma_8(0.57)$	0.599	$0.559^{+0.095}_{-0.056}$
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.53	17.2 ± 4.2	$10^9 A_s e^{-2\tau}$	1.8749	1.877 ± 0.012	$\sigma_8(0.57)$	0.744	$0.699^{+0.10}_{-0.053}$
$\boldsymbol{A^{dustTT}_{217}}$	81.5	81.7 ± 7.3	D_{40}	1220.8	1226 ± 13	f^{143}_{2000}	29.87	$30.2^{+2.6}_{-3.0}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0817 ± 0.0056	D_{220}	5722.9	5727 ± 38	$f^{143\times217}_{2000}$	32.53	32.7 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0492	0.0492 ± 0.0051	D_{810}	2531.2	2533 ± 13	f^{217}_{2000}	106.00	106.2 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0993	0.100 ± 0.033	D_{1420}	813.96	$814.4^{+5.2}_{-4.3}$	$\chi^2_{lensing}$	10.25	10.8 ± 2.2
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1004 ± 0.0068	D_{2000}	229.96	$230.0^{+1.7}_{-1.5}$	χ^2_{lowTEB}	10494.42	10495.3 ± 1.4
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2235	0.222 ± 0.046	$n_{s,0.002}$	0.96637	0.9658 ± 0.0048	χ^2_{plik}	2434.4	2452.6 ± 6.7
$\boldsymbol{A^{dustEE}_{217}}$	0.651	0.64 ± 0.13	Y_P	0.245361	0.245354 ± 0.000071	χ^2_{prior}	7.13	19.7 ± 5.6
$\boldsymbol{A^{dustTE}_{100}}$	0.1413	0.140 ± 0.037	Y_P^{BBN}	0.246688	0.246680 ± 0.000072	χ^2_{CMB}	12939.0	12958.8 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1320	0.131 ± 0.029	10^5D/H	2.6049	2.608 ± 0.030			

Best-fit $\chi^2_{\rm eff} = 12946.18$; $\bar{\chi}^2_{\rm eff} = 12978.43$; $R - 1 = 0.06336$

$\chi^2_{\rm eff}$: CMB - smica_g30_ftl_full_pp: 10.25 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.42 plik_dx11dr2_HM_v18_TTTEEE: 2434.37

21.8 base_w_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022282	0.02226 ± 0.00016	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.306 ± 0.084	Age/Gyr	13.721	$13.728^{+0.054}_{-0.068}$
$\boldsymbol{\Omega_c h^2}$	0.11970	0.1198 ± 0.0015	$\boldsymbol{A^{dustTE}_{143}}$	0.155	0.156 ± 0.053	z_*	1090.006	1090.05 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040783	1.04077 ± 0.00031	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.340 ± 0.082	r_*	144.575	144.56 ± 0.32
$\boldsymbol{\tau}$	0.0791	0.077 ± 0.016	$\boldsymbol{A^{dustTE}_{217}}$	1.670	1.67 ± 0.26	$100\theta_*$	1.040975	1.04097 ± 0.00031
$\boldsymbol{w}$	-1.155	-1.16 ± 0.11	$\boldsymbol{c_{100}}$	0.99822	0.99818 ± 0.00079	D_A/Gpc	13.8885	13.887 ± 0.030
$\boldsymbol{\ln(10^{10}A_s)}$	3.0928	3.089 ± 0.031	$\boldsymbol{c_{217}}$	0.99587	$0.9960^{+0.0014}_{-0.0015}$	z_{drag}	1059.704	1059.66 ± 0.32
$\boldsymbol{n_s}$	0.96568	0.9643 ± 0.0048	H_0	72.04	72.1 ± 3.4	r_{drag}	147.269	147.26 ± 0.32
$\boldsymbol{y_{cal}}$	1.00017	$1.0003^{+0.0027}_{-0.0024}$	Ω_Λ	0.7252	$0.723^{+0.030}_{-0.024}$	k_D	0.140613	0.14060 ± 0.00033
$\boldsymbol{A^{CIB}_{217}}$	64.6	63.9 ± 6.5	Ω_m	0.2748	$0.277^{+0.024}_{-0.030}$	$100\theta_D$	0.160868	0.16090 ± 0.00019
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.31	—	$\Omega_m h^2$	0.14263	0.1428 ± 0.0014	z_{eq}	3393.0	3396 ± 33
$\boldsymbol{A^{tSZ}_{143}}$	7.04	5.36 ± 1.9	$\Omega_m h^3$	0.10276	0.1029 ± 0.0049	k_{eq}	0.010356	0.01036 ± 0.00010
$\boldsymbol{A^{PS}_{100}}$	253.0	259 ± 28	σ_8	0.8752	0.874 ± 0.034	$100\theta_{eq}$	0.8146	0.8141 ± 0.0062
$\boldsymbol{A^{PS}_{143}}$	42.7	43 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4588	0.458 ± 0.011	$100\theta_{s,eq}$	0.45012	0.4499 ± 0.0032
$\boldsymbol{A^{PS}_{143\times217}}$	41.7	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6336	0.633 ± 0.013	$r_{drag}/D_V(0.57)$	0.07253	$0.07244^{+0.00093}_{-0.00081}$
$\boldsymbol{A^{PS}_{217}}$	101.3	98 ± 10	$\sigma_8/h^{0.5}$	1.0311	1.029 ± 0.021	$H(0.57)$	92.593	$92.50^{+0.53}_{-0.39}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.18	$\langle d^2\rangle^{1/2}$	2.5247	2.523 ± 0.041	$D_A(0.57)$	1356.5	1359^{+22}_{-26}
$\boldsymbol{A^{dustTT}_{100}}$	7.41	7.44 ± 1.9	z_{re}	10.05	9.80 ± 1.5	$F_{AP}(0.57)$	0.6578	0.658 ± 0.013
$\boldsymbol{A^{dustTT}_{143}}$	8.88	8.89 ± 1.8	$10^9 A_s$	2.204	2.196 ± 0.069	$f\sigma_8(0.57)$	0.5159	0.516 ± 0.025
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.64	17.1 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8816	1.882 ± 0.012	$\sigma_8(0.57)$	0.6547	0.653 ± 0.028
$\boldsymbol{A^{dustTT}_{217}}$	82.1	81.9 ± 7.3	D_{40}	1236.2	1240 ± 13	f^{143}_{2000}	28.67	$29.5^{+2.6}_{-3.0}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0811 ± 0.0056	D_{220}	5725.5	5730 ± 40	$f^{143\times217}_{2000}$	31.79	32.2 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04894	0.0488 ± 0.0049	D_{810}	2535.5	2535 ± 14	f^{217}_{2000}	105.31	105.8 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0994	0.098 ± 0.032	D_{1420}	815.11	$814.3^{+5.1}_{-4.3}$	χ^2_{lowTEB}	10496.38	10497.1 ± 2.0
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.1002 ± 0.0068	D_{2000}	230.75	$230.4^{+1.7}_{-1.5}$	χ^2_{plik}	2431.3	2450.0 ± 6.7
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2247	0.221 ± 0.046	$n_{s,0.002}$	0.96568	0.9643 ± 0.0048	χ^2_{H070p6}	0.12	1.04 ± 1.4
$\boldsymbol{A^{dustEE}_{217}}$	0.653	0.65 ± 0.13	Y_P	0.245354	0.245341 ± 0.000073	χ^2_{prior}	6.73	19.4 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1426	0.141 ± 0.038	Y_P^{BBN}	0.246680	0.246667 ± 0.000073	χ^2_{CMB}	12927.7	12947.2 ± 6.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1322	0.131 ± 0.029	10^5D/H	2.6080	2.613 ± 0.030			

Best-fit $\chi^2_{eff} = 12934.51$; $\bar{\chi}^2_{eff} = 12967.62$; $R - 1 = 0.03284$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.38 plik_dx11dr2_HM_v18_TTTEEE: 2431.28 Hubble - H070p6: 0.12

21.9 base_w_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.02229 ± 0.00016	$\boldsymbol{A^{\rm dust}_{100\times217}}$	0.303 ± 0.084	Age/Gyr	$13.570^{+0.054}_{-0.14}$
$\boldsymbol{\Omega_{\rm c}h^2}$	0.1196 ± 0.0014	$\boldsymbol{A^{\rm dust}_{143}}$	0.154 ± 0.053	z_*	1089.98 ± 0.29
$\boldsymbol{100\theta_{\rm MC}}$	1.04081 ± 0.00031	$\boldsymbol{A^{\rm dust}_{143\times217}}$	0.339 ± 0.081	r_*	144.61 ± 0.32
$\boldsymbol{\tau}$	$0.076^{+0.015}_{-0.018}$	$\boldsymbol{A^{\rm dust}_{217}}$	1.67 ± 0.25	$100\theta_*$	1.04100 ± 0.00031
$\boldsymbol{w}$	$-1.55^{+0.19}_{-0.38}$	$\boldsymbol{c_{100}}$	0.99818 ± 0.00077	$D_{\rm A}$/Gpc	13.891 ± 0.029
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	$3.087^{+0.030}_{-0.035}$	$\boldsymbol{c_{217}}$	0.9959 ± 0.0014	$z_{\rm drag}$	1059.72 ± 0.32
$\boldsymbol{n_{\rm s}}$	0.9650 ± 0.0048	H_0	> 81.2	$r_{\rm drag}$	147.30 ± 0.31
$\boldsymbol{y_{\rm cal}}$	1.0003 ± 0.0025	Ω_Λ	$0.797^{+0.065}_{-0.023}$	$k_{\rm D}$	0.14058 ± 0.00033
$\boldsymbol{A^{\rm CIB}_{217}}$	63.5 ± 6.5	$\Omega_{\rm m}$	$0.203^{+0.023}_{-0.065}$	$100\theta_{\rm D}$	0.16087 ± 0.00018
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	—	$\Omega_{\rm m}h^2$	0.1425 ± 0.0014	$z_{\rm eq}$	3390 ± 32
$\boldsymbol{A^{\rm tSZ}_{143}}$	$5.42^{+2.1}_{-1.8}$	$\Omega_{\rm m}h^3$	$0.122^{+0.019}_{-0.0098}$	$k_{\rm eq}$	0.010345 ± 0.000099
$\boldsymbol{A^{\rm PS}_{100}}$	259 ± 28	σ_8	$0.983^{+0.10}_{-0.055}$	$100\theta_{\rm eq}$	0.8153 ± 0.0061
$\boldsymbol{A^{\rm PS}_{143}}$	43 ± 8	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.436^{+0.015}_{-0.023}$	$100\theta_{\rm s,eq}$	0.4505 ± 0.0031
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.653^{+0.021}_{-0.015}$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0745^{+0.0019}_{-0.00088}$
$\boldsymbol{A^{\rm PS}_{217}}$	98.1 ± 11	$\sigma_8/h^{0.5}$	$1.063^{+0.034}_{-0.024}$	$H(0.57)$	90.8 ± 1.3
$\boldsymbol{A^{\rm kSZ}}$	< 3.94	$\langle d^2\rangle^{1/2}$	2.553 ± 0.044	$D_{\rm A}(0.57)$	1293^{+23}_{-59}
$\boldsymbol{A^{\rm dust}_{100}}^{TT}$	7.43 ± 1.8	$z_{\rm re}$	9.73 ± 1.4	$F_{\rm AP}(0.57)$	$0.615^{+0.016}_{-0.040}$
$\boldsymbol{A^{\rm dust}_{143}}^{TT}$	8.88 ± 1.8	$10^9A_{\rm s}$	$2.193^{+0.063}_{-0.080}$	$f\sigma_8(0.57)$	$0.602^{+0.084}_{-0.047}$
$\boldsymbol{A^{\rm dust}_{143\times217}}^{TT}$	16.9 ± 4.1	$10^9A_{\rm s}e^{-2\tau}$	1.881 ± 0.012	$\sigma_8(0.57)$	$0.745^{+0.088}_{-0.044}$
$\boldsymbol{A^{\rm dust}_{217}}^{TT}$	81.7 ± 7.4	D_{40}	1236 ± 13	f^{143}_{2000}	29.2 ± 2.7
$\boldsymbol{A^{\rm dust}_{100}}^{EE}$	0.0813 ± 0.0057	D_{220}	5732 ± 38	$f^{143\times217}_{2000}$	32.0 ± 1.9
$\boldsymbol{A^{\rm dust}_{100\times143}}^{EE}$	0.0489 ± 0.0050	D_{810}	2534 ± 13	f^{217}_{2000}	105.6 ± 1.9
$\boldsymbol{A^{\rm dust}_{100\times217}}^{EE}$	0.0997 ± 0.033	D_{1420}	814.3 ± 4.7	$\chi^2_{\rm lowTEB}$	10496.5 ± 1.9
$\boldsymbol{A^{\rm dust}_{143}}^{EE}$	0.1004 ± 0.0068	D_{2000}	230.5 ± 1.6	$\chi^2_{\rm plik}$	2449.2 ± 6.6
$\boldsymbol{A^{\rm dust}_{143\times217}}^{EE}$	0.223 ± 0.046	$n_{\rm s,0.002}$	0.9650 ± 0.0048	$\chi^2_{\rm prior}$	19.3 ± 5.5
$\boldsymbol{A^{\rm dust}_{217}}^{EE}$	0.65 ± 0.13	$Y_{\rm P}$	0.245356 ± 0.000072	$\chi^2_{\rm CMB}$	12945.7 ± 6.7
$\boldsymbol{A^{\rm dust}_{100}}^{TE}$	0.140 ± 0.038	$Y_{\rm P}^{\rm BBN}$	0.246682 ± 0.000072		
$\boldsymbol{A^{\rm dust}_{100\times143}}^{TE}$	0.131 ± 0.029	10^5D/H	2.607 ± 0.030		

$\bar{\chi}^2_{\rm eff} = 12964.96$; $R - 1 = 0.01324$

21.10 base_w_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022305	0.02229 ± 0.00023 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.07	-0.1 ± 1.0	r_*	144.745	144.71 ± 0.48 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11898	0.1192 ± 0.0022 (-0.2σ)	H_0	99.99	> 79.9 (-0.1σ)	$100\theta_*$	1.041190	1.04118 ± 0.00046 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040988	1.04098 ± 0.00047 $(+0.1\sigma)$	Ω_Λ	0.8580	$0.791^{+0.070}_{-0.021}$ (-0.1σ)	$z_{\rm drag}$	1059.704	1059.67 ± 0.47 (-0.0σ)
$\boldsymbol{\tau}$	0.0756	0.078 ± 0.020 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.1420	$0.209^{+0.021}_{-0.070}$ $(+0.1\sigma)$	$r_{\rm drag}$	147.434	147.40 ± 0.47 $(+0.2\sigma)$
$\boldsymbol{w}$	-1.933	$-1.51^{+0.21}_{-0.39}$ $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.14193	0.1421 ± 0.0020 (-0.2σ)	$k_{\rm D}$	0.14047	0.14049 ± 0.00050 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0809	3.086 ± 0.038 $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	0.1419	$0.120^{+0.020}_{-0.011}$ (-0.1σ)	$100\theta_{\rm D}$	0.160873	0.16089 ± 0.00027 (-0.0σ)
$\boldsymbol{n_s}$	0.9684	0.9684 ± 0.0063 $(+0.4\sigma)$	σ_8	1.089	$0.972^{+0.11}_{-0.061}$ (-0.1σ)	$z_{\rm eq}$	3376.3	3381 ± 48 (-0.2σ)
$\boldsymbol{y_{cal}}$	0.99992	1.0002 ± 0.0025 (-0.1σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4103	$0.435^{+0.017}_{-0.025}$ (-0.0σ)	$100\theta_{\rm eq}$	0.8178	0.8171 ± 0.0093 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244.4	244 ± 23 (-0.4σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6683	$0.649^{+0.024}_{-0.019}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07628	$0.0745^{+0.0022}_{-0.0013}$ $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.1	38 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0889	$1.058^{+0.039}_{-0.029}$ (-0.1σ)	$H(0.57)$	89.00	$91.1^{+1.8}_{-1.2}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98.7	99 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.560	$2.536^{+0.056}_{-0.050}$ (-0.2σ)	$D_{\rm A}(0.57)$	1235.1	1296^{+28}_{-66} $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47.2	45 ± 7 (-2.7σ)	$z_{\rm re}$	9.67	$9.79^{+1.9}_{-1.7}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.5757	$0.619^{+0.015}_{-0.042}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	4.16	$3.31^{+1.5}_{-2.5}$ (-1.0σ)	$10^9A_{\rm s}$	2.178	$2.190^{+0.079}_{-0.089}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.688	$0.592^{+0.086}_{-0.053}$ (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.449	$0.52^{+0.11}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8721	1.874 ± 0.014 (-0.4σ)	$\sigma_8(0.57)$	0.834	$0.737^{+0.094}_{-0.049}$ (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.608 (-0.2σ)	D_{40}	1220.2	1224 ± 15 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.246274	0.24627 ± 0.00010 (-3.8σ)
$\boldsymbol{A^{kSZ}}$	3.46	$5.17^{+3.5}_{-2.6}$ $(+0.8\sigma)$	D_{220}	5701.0	5701 ± 41 (-0.5σ)	f_{2000}^{143}	28.43	28.4 ± 3.0 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.985	0.99 ± 0.19	D_{810}	2526.9	2529 ± 14 (-0.4σ)	f_{2000}^{217}	106.06	106.1 ± 2.1 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.026	1.02 ± 0.18	D_{1420}	813.2	814.0 ± 5.1 (-0.1σ)	$f_{2000}^{143\times217}$	31.26	31.3 ± 2.2 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.213	1.22 ± 0.12	$n_{\rm s,0.002}$	0.9684	0.9684 ± 0.0063 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10494.61	10496.0 ± 2.0 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.972	0.98 ± 0.18	$Y_{\rm P}$	0.244943	$0.244939^{+0.000093}_{-0.00011}$ (-3.9σ)	$\chi^2_{\rm CamSpec}$	8043.9	8058.5 ± 5.7
$\boldsymbol{c_{100}}$	0.99675	0.99680 ± 0.00097 (-1.4σ)	Age/Gyr	13.434	$13.577^{+0.069}_{-0.16}$ $(+0.0\sigma)$	$\chi^2_{\rm prior}$	3.25	8.40 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.99711	0.9972 ± 0.0018 $(+0.9\sigma)$	z_*	1089.894	1089.94 ± 0.43 (-0.1σ)	$\chi^2_{\rm CMB}$	18538.5	18554.4 ± 5.8 $(+1306.4\sigma)$

Best-fit $\chi^2_{\rm eff} = 18541.74$; $\Delta\chi^2_{\rm eff} = 7282.83$; $\bar{\chi}^2_{\rm eff} = 18562.84$; $\Delta\bar{\chi}^2_{\rm eff} = 7283.07$; $R - 1 = 0.00580$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.60 (Δ -0.53) CamSpec like_v9.10CMH_unified: 8043.88

21.11 base_w_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02224^{+0.00021}_{-0.00026}$ $(+0.0\sigma)$	H_0	68.4 ± 1.6 $(+0.0\sigma)$	$z_{\rm drag}$	1059.59 ± 0.47 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1194 ± 0.0021 (-0.1σ)	Ω_Λ	$0.695^{+0.018}_{-0.016}$ $(+0.1\sigma)$	$r_{\rm drag}$	147.39 ± 0.45 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04093 ± 0.00045 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.305^{+0.016}_{-0.018}$ (-0.1σ)	$k_{\rm D}$	0.14047 ± 0.00048 (-0.1σ)
$\boldsymbol{\tau}$	$0.079^{+0.017}_{-0.020}$ $(+0.0\sigma)$	$\Omega_{\rm m} h^2$	0.1423 ± 0.0020 (-0.1σ)	$100\theta_{\rm D}$	0.16094 ± 0.00027 (-0.1σ)
$\boldsymbol{w}$	-1.031 ± 0.054 $(+0.0\sigma)$	$\Omega_{\rm m} h^3$	0.0973 ± 0.0023 (-0.0σ)	$z_{\rm eq}$	3386 ± 47 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.089 ± 0.036 (-0.0σ)	σ_8	0.838 ± 0.021 (-0.0σ)	$100\theta_{\rm eq}$	0.8160 ± 0.0090 $(+0.1\sigma)$
$\boldsymbol{n_s}$	$0.9677^{+0.0057}_{-0.0065}$ $(+0.3\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.462 ± 0.013 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07174 ± 0.00073 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0026 $(+0.0\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.622 ± 0.014 (-0.1σ)	$H(0.57)$	$92.88^{+0.41}_{-0.49}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	246 ± 23 (-0.3σ)	$\sigma_8/h^{0.5}$	1.013 ± 0.021 (-0.1σ)	$D_{\rm A}(0.57)$	1383 ± 15 (-0.1σ)
$\boldsymbol{A^{PS}_{143}}$	39 ± 8 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.495 ± 0.047 (-0.2σ)	$F_{\rm AP}(0.57)$	0.6726 ± 0.0066 (-0.0σ)
$\boldsymbol{A^{PS}_{217}}$	98 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	9.98 ± 1.7 $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.489 ± 0.015 (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	46 ± 7 (-2.7σ)	$10^9 A_{\rm s}$	$2.197^{+0.073}_{-0.084}$ (-0.0σ)	$\sigma_8(0.57)$	0.624 ± 0.016 (-0.0σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.18^{+1.4}_{-2.5}$ (-1.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.875 ± 0.014 (-0.3σ)	$Y_{\rm P}^{\rm BBN}$	$0.246246^{+0.000094}_{-0.00011}$ (-3.8σ)
$\boldsymbol{r^{PS}_{143\times217}}$	0.51 ± 0.11	D_{40}	1229 ± 15 (-0.5σ)	f^{143}_{2000}	28.8 ± 3.0 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.603 (-0.2σ)	D_{220}	5698 ± 42 (-0.4σ)	f^{217}_{2000}	$106.5^{+2.3}_{-2.1}$ $(+0.3\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.33^{+4.2}_{-1.9}$ $(+0.7\sigma)$	D_{810}	2530 ± 14 (-0.2σ)	$f^{143\times217}_{2000}$	31.7 ± 2.2 (-0.3σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{1420}	814.0 ± 5.2 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10496.7 ± 2.2 (-0.3σ)
$\boldsymbol{A^{dust}_{143}}$	$1.02^{+0.21}_{-0.19}$	$n_{\rm s,0.002}$	$0.9677^{+0.0057}_{-0.0065}$ $(+0.3\sigma)$	$\chi^2_{\rm CamSpec}$	8059.3 ± 6.0
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.11	$Y_{\rm P}$	$0.244920^{+0.000084}_{-0.00011}$ (-3.8σ)	$\chi^2_{\rm JLA}$	707.7 ± 1.4 (-0.0σ)
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	Age/Gyr	$13.790^{+0.051}_{-0.041}$ (-0.1σ)	$\chi^2_{\rm prior}$	8.63 ± 3.8 $(+0.2\sigma)$
$\boldsymbol{c_{100}}$	0.9968 ± 0.0010 (-1.4σ)	z_*	$1090.02^{+0.48}_{-0.38}$ (-0.1σ)	$\chi^2_{\rm CMB}$	18556.1 ± 5.9 $(+248.5\sigma)$
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+1.0\sigma)$	r_*	144.68 ± 0.46 $(+0.1\sigma)$		
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$100\theta_*$	1.04114 ± 0.00044 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 19272.37$; $\Delta\bar{\chi}^2_{\rm eff} = 7280.09$; $R - 1 = 0.04549$

21.12 base_w_CamSpecHM_TT_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02230 ± 0.00024 $(+0.1\sigma)$	H_0	> 76.4 $(+0.0\sigma)$	$z_{\rm drag}$	1059.62 ± 0.47 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1181 ± 0.0020 (-0.1σ)	Ω_Λ	$0.778^{+0.084}_{-0.027}$ $(+0.0\sigma)$	$r_{\rm drag}$	147.68 ± 0.43 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04114 ± 0.00046 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.222^{+0.027}_{-0.084}$ (-0.0σ)	$k_{\rm D}$	0.14020 ± 0.00046 (-0.0σ)
$\boldsymbol{\tau}$	0.063 ± 0.017 $(+0.2\sigma)$	$\Omega_{\rm m} h^2$	0.1410 ± 0.0019 (-0.1σ)	$100\theta_{\rm D}$	0.16094 ± 0.00027 (-0.1σ)
$\boldsymbol{w}$	$-1.41^{+0.25}_{-0.43}$ (-0.0σ)	$\Omega_{\rm m} h^3$	$0.116^{+0.021}_{-0.013}$ $(+0.0\sigma)$	$z_{\rm eq}$	3355 ± 45 (-0.1σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.053 ± 0.031 $(+0.1\sigma)$	σ_8	$0.927^{+0.12}_{-0.066}$ $(+0.0\sigma)$	$100\theta_{\rm eq}$	0.8219 ± 0.0087 $(+0.1\sigma)$
$\boldsymbol{n_s}$	0.9704 ± 0.0061 $(+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.427^{+0.017}_{-0.027}$ $(+0.0\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0745^{+0.0027}_{-0.0014}$ $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	0.9999 ± 0.0025 (-0.1σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.627^{+0.020}_{-0.015}$ $(+0.1\sigma)$	$H(0.57)$	$91.7^{+1.7}_{-0.98}$ $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	247^{+24}_{-22} (-0.4σ)	$\sigma_8/h^{0.5}$	$1.024^{+0.034}_{-0.022}$ $(+0.1\sigma)$	$D_{\rm A}(0.57)$	1305^{+35}_{-80} (-0.0σ)
$\boldsymbol{A_{143}^{PS}}$	39 ± 8 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	$2.470^{+0.034}_{-0.030}$ (-0.0σ)	$F_{\rm AP}(0.57)$	$0.627^{+0.020}_{-0.049}$ (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.0\sigma)$	$z_{\rm re}$	$8.43^{+1.8}_{-1.4}$ $(+0.2\sigma)$	$f\sigma_8(0.57)$	$0.558^{+0.087}_{-0.057}$ $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.7σ)	$10^9 A_{\rm s}$	2.120 ± 0.066 $(+0.1\sigma)$	$\sigma_8(0.57)$	$0.702^{+0.10}_{-0.054}$ $(+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.16^{+1.3}_{-2.6}$ (-1.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.867 ± 0.013 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	0.24627 ± 0.00010 (-3.8σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{40}	1213 ± 14 (-0.6σ)	f_{2000}^{143}	29.1 ± 2.9 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.600 (-0.2σ)	D_{220}	5697 ± 40 (-0.6σ)	f_{2000}^{217}	106.5 ± 2.1 $(+0.1\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.64^{+4.2}_{-1.5}$ $(+0.7\sigma)$	D_{810}	2527 ± 13 (-0.3σ)	$f_{2000}^{143\times217}$	31.9 ± 2.2 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{1420}	813.9 ± 5.0 (-0.1σ)	$\chi^2_{\rm lensing}$	9.94 ± 1.7 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{\rm s,0.002}$	0.9704 ± 0.0061 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10494.6 ± 1.4 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$Y_{\rm P}$	$0.244943^{+0.000092}_{-0.00011}$ (-3.8σ)	$\chi^2_{\rm CamSpec}$	8060.9 ± 5.7
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	Age/Gyr	$13.604^{+0.084}_{-0.20}$ (-0.0σ)	$\chi^2_{\rm prior}$	8.42 ± 3.5 $(+0.2\sigma)$
$\boldsymbol{c_{100}}$	0.99677 ± 0.00097 (-1.5σ)	z_*	1089.83 ± 0.43 (-0.1σ)	$\chi^2_{\rm CMB}$	18565.4 ± 5.8 $(+655.7\sigma)$
$\boldsymbol{c_{217}}$	0.9973 ± 0.0018 $(+0.9\sigma)$	r_*	144.99 ± 0.44 $(+0.1\sigma)$		
$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	$100\theta_*$	1.04135 ± 0.00045 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18573.85$; $\Delta\bar{\chi}^2_{\rm eff} = 7281.36$; $R - 1 = 0.01749$

21.13 base_w_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02225^{+0.00022}_{-0.00025}$ $(+0.1\sigma)$	H_0	71.8 ± 3.4 $(+0.0\sigma)$	$z_{\rm drag}$	1059.60 ± 0.46 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1195 ± 0.0021 (-0.2σ)	Ω_Λ	$0.722^{+0.030}_{-0.023}$ $(+0.0\sigma)$	$r_{\rm drag}$	147.36 ± 0.47 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04092 ± 0.00046 $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.278^{+0.023}_{-0.030}$ (-0.0σ)	$k_{\rm D}$	0.14050 ± 0.00050 (-0.1σ)
$\boldsymbol{\tau}$	0.078 ± 0.019 $(+0.1\sigma)$	$\Omega_{\rm m} h^2$	0.1424 ± 0.0020 (-0.2σ)	$100\theta_{\rm D}$	0.16093 ± 0.00027 (-0.1σ)
$\boldsymbol{w}$	-1.14 ± 0.11 $(+0.0\sigma)$	$\Omega_{\rm m} h^3$	0.1023 ± 0.0049 (-0.0σ)	$z_{\rm eq}$	3388 ± 48 (-0.2σ)
$\boldsymbol{\ln(10^{10} A_s)}$	3.087 ± 0.037 $(+0.0\sigma)$	σ_8	0.870 ± 0.035 (-0.0σ)	$100\theta_{\rm eq}$	0.8156 ± 0.0091 $(+0.2\sigma)$
$\boldsymbol{n_s}$	0.9675 ± 0.0061 $(+0.4\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.457 ± 0.013 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07250 ± 0.00096 $(+0.1\sigma)$
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.630 ± 0.016 (-0.1σ)	$H(0.57)$	$92.60^{+0.66}_{-0.52}$ $(+0.1\sigma)$
$\boldsymbol{A^{PS}_{100}}$	245 ± 23 (-0.5σ)	$\sigma_8/h^{0.5}$	1.026 ± 0.024 (-0.1σ)	$D_{\rm A}(0.57)$	1359^{+22}_{-27} (-0.1σ)
$\boldsymbol{A^{PS}_{143}}$	39 ± 8 (-0.6σ)	$\langle d^2 \rangle^{1/2}$	2.509 ± 0.048 (-0.2σ)	$F_{\rm AP}(0.57)$	0.659 ± 0.013 (-0.0σ)
$\boldsymbol{A^{PS}_{217}}$	99 ± 10 $(+0.1\sigma)$	$z_{\rm re}$	9.87 ± 1.7 $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.512 ± 0.026 (-0.1σ)
$\boldsymbol{A^{CIB}_{217}}$	46^{+7}_{-7} (-2.7σ)	$10^9 A_{\rm s}$	2.193 ± 0.080 $(+0.0\sigma)$	$\sigma_8(0.57)$	0.651 ± 0.028 (-0.0σ)
$\boldsymbol{A^{tSZ}_{143}}$	$3.25^{+1.4}_{-2.6}$ (-1.0σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.875 ± 0.014 (-0.4σ)	$Y_{\rm P}^{\rm BBN}$	$0.246248^{+0.000097}_{-0.00011}$ (-3.9σ)
$\boldsymbol{r^{PS}_{143\times217}}$	0.52 ± 0.11	D_{40}	1228 ± 15 (-0.5σ)	f^{143}_{2000}	28.7 ± 3.0 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.603 (-0.2σ)	D_{220}	5698 ± 41 (-0.4σ)	f^{217}_{2000}	$106.3^{+2.3}_{-2.0}$ $(+0.2\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.24^{+3.8}_{-2.5}$ $(+0.7\sigma)$	D_{810}	2530 ± 14 (-0.3σ)	$f^{143\times217}_{2000}$	31.6 ± 2.2 (-0.4σ)
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	D_{1420}	814.0 ± 5.1 (-0.0σ)	$\chi^2_{\rm lowTEB}$	10496.5 ± 2.1 (-0.3σ)
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.19	$n_{\rm s,0.002}$	0.9675 ± 0.0061 $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	8059.0 ± 5.8
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.12	$Y_{\rm P}$	$0.244921^{+0.000087}_{-0.00011}$ (-3.9σ)	$\chi^2_{\rm H070p6}$	0.99 ± 1.4 $(+0.0\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	Age/Gyr	$13.730^{+0.060}_{-0.071}$ (-0.0σ)	$\chi^2_{\rm prior}$	8.54 ± 3.7 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99680 ± 0.00099 (-1.4σ)	z_*	1090.02 ± 0.42 (-0.2σ)	$\chi^2_{\rm CMB}$	18555.5 ± 5.7 $(+438.1\sigma)$
$\boldsymbol{c_{217}}$	0.9972 ± 0.0018 $(+0.9\sigma)$	r_*	144.65 ± 0.47 $(+0.2\sigma)$		
$\boldsymbol{\beta^1_1}$	-0.1 ± 1.0	$100\theta_*$	1.04113 ± 0.00045 $(+0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18565.02$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.00$; $R - 1 = 0.01902$

21.14 base_w_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02229 ± 0.00023 $(+0.0\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	r_*	144.72 ± 0.47 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0021 (-0.2σ)	H_0	> 79.7 (-0.1σ)	$100\theta_*$	1.04119 ± 0.00046 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04099 ± 0.00047 $(+0.1\sigma)$	Ω_Λ	$0.791^{+0.071}_{-0.021}$ (-0.0σ)	$z_{\rm drag}$	1059.68 ± 0.47 (-0.0σ)
$\boldsymbol{\tau}$	$0.079^{+0.016}_{-0.021}$ $(+0.1\sigma)$	$\Omega_{\rm m}$	$0.209^{+0.021}_{-0.071}$ $(+0.0\sigma)$	$r_{\rm drag}$	147.41 ± 0.47 $(+0.2\sigma)$
$\boldsymbol{w}$	$-1.51^{+0.21}_{-0.40}$ $(+0.1\sigma)$	$\Omega_{\rm m}h^2$	0.1421 ± 0.0020 (-0.2σ)	$k_{\rm D}$	0.14048 ± 0.00050 (-0.1σ)
$\boldsymbol{\ln(10^{10}A_s)}$	$3.089^{+0.032}_{-0.040}$ $(+0.0\sigma)$	$\Omega_{\rm m}h^3$	$0.120^{+0.020}_{-0.011}$ (-0.1σ)	$100\theta_{\rm D}$	0.16089 ± 0.00027 (-0.1σ)
$\boldsymbol{n_s}$	0.9687 ± 0.0062 $(+0.4\sigma)$	σ_8	$0.973^{+0.11}_{-0.061}$ (-0.1σ)	$z_{\rm eq}$	3379 ± 48 (-0.2σ)
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.436^{+0.017}_{-0.025}$ (-0.0σ)	$100\theta_{\rm eq}$	0.8174 ± 0.0091 $(+0.2\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244 ± 23 (-0.4σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.650^{+0.024}_{-0.019}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0745^{+0.0022}_{-0.0012}$ $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	$\sigma_8/h^{0.5}$	$1.058^{+0.039}_{-0.028}$ (-0.1σ)	$H(0.57)$	$91.1^{+1.8}_{-1.2}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.539 ± 0.051 (-0.2σ)	$D_{\rm A}(0.57)$	1296^{+28}_{-66} $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.7σ)	$z_{\rm re}$	9.96 ± 1.6 $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	$0.619^{+0.015}_{-0.043}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.31^{+1.5}_{-2.5}$ (-1.0σ)	$10^9A_{\rm s}$	$2.197^{+0.067}_{-0.091}$ $(+0.0\sigma)$	$f\sigma_8(0.57)$	$0.592^{+0.087}_{-0.053}$ (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.13}$	$10^9A_{\rm s}e^{-2\tau}$	1.874 ± 0.014 (-0.4σ)	$\sigma_8(0.57)$	$0.737^{+0.094}_{-0.049}$ (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.612 (-0.2σ)	D_{40}	1224 ± 15 (-0.6σ)	$Y_{\rm P}^{\rm BBN}$	0.24627 ± 0.00010 (-3.9σ)
$\boldsymbol{A^{kSZ}}$	—	D_{220}	5701 ± 41 (-0.5σ)	f_{2000}^{143}	28.3 ± 3.0 (-0.4σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	2529 ± 14 (-0.3σ)	f_{2000}^{217}	106.0 ± 2.0 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	814.0 ± 5.1 (-0.1σ)	$f_{2000}^{143\times217}$	31.3 ± 2.2 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$n_{\rm s,0.002}$	0.9687 ± 0.0062 $(+0.4\sigma)$	$\chi^2_{\rm lowTEB}$	10496.0 ± 2.1 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244942^{+0.000091}_{-0.00011}$ (-3.9σ)	$\chi^2_{\rm CamSpec}$	8058.4 ± 5.7
$\boldsymbol{c_{100}}$	0.99681 ± 0.00098 (-1.4σ)	Age/Gyr	$13.577^{+0.069}_{-0.16}$ $(+0.0\sigma)$	$\chi^2_{\rm prior}$	8.44 ± 3.6 $(+0.3\sigma)$
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.9\sigma)$	z_*	1089.92 ± 0.42 (-0.1σ)	$\chi^2_{\rm CMB}$	18554.3 ± 5.7 $(+678.2\sigma)$

$\bar{\chi}^2_{\rm eff} = 18562.75$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.66$; $R - 1 = 0.00780$

21.15 base_w_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022416	0.02239 ± 0.00016 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.00078	1.0007 ± 0.0042	r_*	144.740	144.69 ± 0.31 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11868	0.1189 ± 0.0014 (-0.4σ)	$\boldsymbol{\beta_1^1}$	−0.09	-0.1 ± 1.0	$100\theta_*$	1.041081	1.04104 ± 0.00030 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.040891	1.04085 ± 0.00030 $(+0.1\sigma)$	H_0	99.7	> 79.5 (-0.1σ)	$z_{\rm drag}$	1059.933	1059.89 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{\tau}$	0.0734	0.074 ± 0.018 (-0.0σ)	Ω_Λ	0.8573	$0.790^{+0.071}_{-0.020}$ (-0.1σ)	$r_{\rm drag}$	147.392	147.35 ± 0.31 $(+0.2\sigma)$
$\boldsymbol{w}$	−1.914	$-1.50^{+0.20}_{-0.41}$ $(+0.2\sigma)$	$\Omega_{\rm m}$	0.1427	$0.210^{+0.020}_{-0.071}$ $(+0.1\sigma)$	$k_{\rm D}$	0.140602	0.14062 ± 0.00034 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0774	3.079 ± 0.035 (-0.2σ)	$\Omega_{\rm m} h^2$	0.14174	0.1420 ± 0.0013 (-0.4σ)	$100\theta_{\rm D}$	0.160715	0.16074 ± 0.00019 (-0.7σ)
$\boldsymbol{n_s}$	0.96873	0.9684 ± 0.0047 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	0.1413	$0.120^{+0.020}_{-0.010}$ (-0.2σ)	$z_{\rm eq}$	3371.7	3377 ± 32 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.00056	1.0002 ± 0.0024 (-0.1σ)	σ_8	1.081	$0.964^{+0.11}_{-0.061}$ (-0.2σ)	$100\theta_{\rm eq}$	0.8189	0.8178 ± 0.0060 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	242.4	243 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4082	$0.433^{+0.015}_{-0.024}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07638	$0.0745^{+0.0021}_{-0.00097}$ $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	34.8	38 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6641	$0.645^{+0.023}_{-0.016}$ (-0.5σ)	$H(0.57)$	89.21	$91.2^{+1.8}_{-1.2}$ $(+0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99.6	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.0824	$1.050^{+0.037}_{-0.026}$ (-0.4σ)	$D_{\rm A}(0.57)$	1233.8	1296^{+25}_{-66} $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	47.0	45 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.5508	2.524 ± 0.047 (-0.6σ)	$F_{\rm AP}(0.57)$	0.5764	$0.619^{+0.015}_{-0.043}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	4.58	$3.43^{+1.6}_{-2.5}$ (-1.1σ)	$z_{\rm re}$	9.43	$9.49^{+1.8}_{-1.5}$ (-0.1σ)	$f\sigma_8(0.57)$	0.681	$0.586^{+0.087}_{-0.051}$ (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.457	0.52 ± 0.12	$10^9 A_{\rm s}$	2.170	2.175 ± 0.076 (-0.2σ)	$\sigma_8(0.57)$	0.828	$0.731^{+0.093}_{-0.049}$ (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.002	< 0.613 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8740	1.873 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246323	0.246311 ± 0.000071 (-5.1σ)
$\boldsymbol{A^{kSZ}}$	2.77	—	D_{40}	1221.5	1224 ± 13 (-0.9σ)	f_{2000}^{143}	27.95	28.0 ± 2.7 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.983	0.99 ± 0.19	D_{220}	5722.0	5713 ± 38 (-0.5σ)	f_{2000}^{217}	105.68	105.8 ± 1.9 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.007	1.02 ± 0.18	D_{810}	2530.9	2529 ± 13 (-0.4σ)	$f_{2000}^{143\times217}$	30.79	30.9 ± 2.0 (-0.5σ)
$\boldsymbol{A_{217}^{dust}}$	1.210	1.22 ± 0.12	D_{1420}	815.01	814.4 ± 4.7 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10494.44	10495.6 ± 1.8 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.977	0.98 ± 0.18	$n_{\rm s,0.002}$	0.96873	0.9684 ± 0.0047 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12935.4	12951.7 ± 5.9
$\boldsymbol{c_{100}}$	0.99683	0.99679 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.244992	$0.244982^{+0.000069}_{-0.000080}$ (-5.2σ)	$\chi^2_{\rm prior}$	3.20	8.85 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.99690	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.427	$13.574^{+0.061}_{-0.16}$ $(+0.0\sigma)$	$\chi^2_{\rm CMB}$	23429.8	23447.3 ± 6.0 $(+1563.3\sigma)$
$\boldsymbol{c_{TE}}$	1.00321	1.0036 ± 0.0045	z_*	1089.730	1089.79 ± 0.29 (-0.7σ)			

Best-fit $\chi^2_{\rm eff} = 23433.04$; $\Delta\chi^2_{\rm eff} = 10500.78$; $\bar{\chi}^2_{\rm eff} = 23456.17$; $\Delta\bar{\chi}^2_{\rm eff} = 10491.10$; $R - 1 = 0.01016$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.44 (Δ -0.83) CamSpec like_v9.10CMH_unified: 12935.40

21.16 base_w_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02237 ± 0.00016	$\boldsymbol{c_{EE}}$	1.0007 ± 0.0042	r_*	144.69 ± 0.33
$\boldsymbol{\Omega_c h^2}$	0.1190 ± 0.0015	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04105 ± 0.00031
$\boldsymbol{100\theta_{MC}}$	1.04085 ± 0.00031	H_0	68.4 ± 1.6	$z_{\rm drag}$	1059.84 ± 0.33
$\boldsymbol{\tau}$	0.079 ± 0.018	Ω_Λ	0.696 ± 0.015	$r_{\rm drag}$	147.36 ± 0.33
$\boldsymbol{w}$	-1.023 ± 0.052	$\Omega_{\rm m}$	0.304 ± 0.015	$k_{\rm D}$	0.14060 ± 0.00035
$\boldsymbol{\ln(10^{10} A_s)}$	3.089 ± 0.034	$\Omega_{\rm m} h^2$	0.1420 ± 0.0014	$100\theta_{\rm D}$	0.16077 ± 0.00019
$\boldsymbol{n_s}$	0.9685 ± 0.0049	$\Omega_{\rm m} h^3$	0.0971 ± 0.0023	$z_{\rm eq}$	3379 ± 33
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0024	σ_8	0.834 ± 0.020	$100\theta_{\rm eq}$	0.8175 ± 0.0063
$\boldsymbol{A_{100}^{PS}}$	244 ± 22	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4598 ± 0.0096	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07181 ± 0.00058
$\boldsymbol{A_{143}^{PS}}$	38^{+8}_{-7}	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.619 ± 0.012	$H(0.57)$	93.01 ± 0.31
$\boldsymbol{A_{217}^{PS}}$	99 ± 10	$\sigma_8/h^{0.5}$	1.009 ± 0.018	$D_{\rm A}(0.57)$	1381 ± 14
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7	$\langle d^2 \rangle^{1/2}$	2.487 ± 0.040	$F_{\rm AP}(0.57)$	0.6729 ± 0.0064
$\boldsymbol{A_{143}^{tSZ}}$	$3.45^{+1.9}_{-2.4}$	$z_{\rm re}$	$10.0^{+1.8}_{-1.5}$	$f\sigma_8(0.57)$	0.486 ± 0.013
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.11}_{-0.12}$	$10^9 A_{\rm s}$	2.197 ± 0.075	$\sigma_8(0.57)$	0.621 ± 0.016
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.596	$10^9 A_{\rm s} e^{-2\tau}$	1.873 ± 0.012	$Y_{\rm P}^{\rm BBN}$	0.246300 ± 0.000071
$\boldsymbol{A^{kSZ}}$	4.96 ± 2.7	D_{40}	1229 ± 13	f_{2000}^{143}	28.2 ± 2.8
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5709 ± 37	f_{2000}^{217}	105.9 ± 1.9
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	2530 ± 13	$f_{2000}^{143\times217}$	31.1 ± 2.0
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	814.8 ± 4.8	$\chi^2_{\rm lowTEB}$	10496.5 ± 2.1
$\boldsymbol{A_{143\times217}^{dust}}$	$0.98^{+0.20}_{-0.18}$	$n_{\rm s,0.002}$	0.9685 ± 0.0049	$\chi^2_{\rm CamSpec}$	12952.3 ± 5.8
$\boldsymbol{c_{100}}$	0.99679 ± 0.00097	$Y_{\rm P}$	$0.244971^{+0.000065}_{-0.000083}$	$\chi^2_{\rm JLA}$	707.6 ± 1.4
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018	Age/Gyr	13.783 ± 0.038	$\chi^2_{\rm prior}$	8.89 ± 3.6
$\boldsymbol{c_{TE}}$	$1.0042^{+0.0050}_{-0.0042}$	z_*	1089.83 ± 0.30	$\chi^2_{\rm CMB}$	23448.9 ± 5.8

$\bar{\chi}^2_{\rm eff} = 24165.35$; $R - 1 = 0.06323$

21.17 base_w_CamSpecHM_TTTEEE_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237^{+0.00015}_{-0.00017}$ $(+0.6\sigma)$	$\boldsymbol{c_{EE}}$	1.0014 ± 0.0042	r_*	144.81 ± 0.30 $(+0.2\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1186 ± 0.0014 (-0.3σ)	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04111 ± 0.00030 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04092 ± 0.00030 $(+0.1\sigma)$	H_0	> 75.6 (-0.0σ)	z_{drag}	$1059.82^{+0.31}_{-0.35}$ $(+0.5\sigma)$
$\boldsymbol{\tau}$	$0.059^{+0.015}_{-0.017}$ $(+0.2\sigma)$	Ω_Λ	$0.774^{+0.086}_{-0.028}$ $(+0.0\sigma)$	r_{drag}	147.47 ± 0.30 $(+0.1\sigma)$
$\boldsymbol{w}$	$-1.41^{+0.25}_{-0.45}$ $(+0.0\sigma)$	Ω_m	$0.226^{+0.028}_{-0.086}$ (-0.0σ)	k_D	0.14048 ± 0.00032 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.046^{+0.027}_{-0.032}$ $(+0.0\sigma)$	$\Omega_m h^2$	0.1416 ± 0.0013 (-0.3σ)	$100\theta_D$	0.16079 ± 0.00019 (-0.7σ)
$\boldsymbol{n_s}$	0.9688 ± 0.0046 $(+0.6\sigma)$	$\Omega_m h^3$	$0.115^{+0.021}_{-0.013}$ (-0.0σ)	z_{eq}	3368 ± 30 (-0.3σ)
$\boldsymbol{y_{cal}}$	0.9999 ± 0.0024 (-0.1σ)	σ_8	$0.921^{+0.12}_{-0.068}$ (-0.0σ)	$100\theta_{eq}$	0.8196 ± 0.0058 $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	246 ± 22 (-0.6σ)	$\sigma_8 \Omega_m^{0.5}$	$0.428^{+0.017}_{-0.027}$ (-0.1σ)	$r_{drag}/D_V(0.57)$	$0.0742^{+0.0025}_{-0.0012}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.6σ)	$\sigma_8 \Omega_m^{0.25}$	$0.626^{+0.020}_{-0.014}$ (-0.1σ)	$H(0.57)$	$91.6^{+1.8}_{-0.90}$ $(+0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.021^{+0.033}_{-0.023}$ (-0.1σ)	$D_A(0.57)$	1310^{+33}_{-80} (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.467 ± 0.030 (-0.4σ)	$F_{AP}(0.57)$	$0.629^{+0.021}_{-0.050}$ $(+0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.25^{+1.4}_{-2.6}$ (-1.1σ)	z_{re}	7.98 ± 1.5 $(+0.1\sigma)$	$f\sigma_8(0.57)$	$0.555^{+0.090}_{-0.059}$ (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	$10^9 A_s$	$2.103^{+0.056}_{-0.069}$ $(+0.0\sigma)$	$\sigma_8(0.57)$	$0.697^{+0.10}_{-0.056}$ (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.578 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.870 ± 0.011 (-0.6σ)	Y_P^{BBN}	0.246303 ± 0.000069 (-5.3σ)
$\boldsymbol{A^{kSZ}}$	$5.49^{+4.2}_{-1.6}$ $(+0.8\sigma)$	D_{40}	1217 ± 13 (-0.7σ)	f_{2000}^{143}	28.8 ± 2.6 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5708 ± 38 (-0.5σ)	f_{2000}^{217}	106.2 ± 1.8 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.04 ± 0.18	D_{810}	2528 ± 13 (-0.4σ)	$f_{2000}^{143\times217}$	31.6 ± 1.9 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	D_{1420}	814.3 ± 4.6 (-0.0σ)	$\chi^2_{lensing}$	10.0 ± 1.7 (-0.3σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{s,0.002}$	0.9688 ± 0.0046 $(+0.6\sigma)$	χ^2_{lowTEB}	10494.7 ± 1.2 (-0.5σ)
$\boldsymbol{c_{100}}$	0.99674 ± 0.00096 (-1.7σ)	Y_P	$0.244974^{+0.000064}_{-0.000079}$ (-5.3σ)	$\chi^2_{CamSpec}$	12953.5 ± 5.9
$\boldsymbol{c_{217}}$	0.9971 ± 0.0017 $(+0.8\sigma)$	Age/Gyr	$13.611^{+0.078}_{-0.19}$ (-0.1σ)	χ^2_{prior}	8.98 ± 3.5 (-1.9σ)
$\boldsymbol{c_{TE}}$	1.0050 ± 0.0044	z_*	1089.78 ± 0.28 (-0.6σ)	χ^2_{CMB}	23458.3 ± 6.0 $(+1541.3\sigma)$

$\bar{\chi}^2_{eff} = 23467.26$; $\Delta\bar{\chi}^2_{eff} = 10488.83$; $R - 1 = 0.02020$

21.18 base_w_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00016 \quad (+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.0008 ± 0.0043	r_*	$144.67 \pm 0.32 \quad (+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1191 \pm 0.0014 \quad (-0.5\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04104 \pm 0.00031 \quad (+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04085 \pm 0.00031 \quad (+0.2\sigma)$	H_0	$71.8 \pm 3.4 \quad (-0.1\sigma)$	$z_{\rm drag}$	$1059.85 \pm 0.33 \quad (+0.6\sigma)$
$\boldsymbol{\tau}$	$0.077 \pm 0.018 \quad (+0.0\sigma)$	Ω_Λ	$0.722^{+0.031}_{-0.024} \quad (-0.0\sigma)$	$r_{\rm drag}$	$147.34 \pm 0.32 \quad (+0.2\sigma)$
$\boldsymbol{w}$	$-1.13 \pm 0.11 \quad (+0.2\sigma)$	$\Omega_{\rm m}$	$0.278^{+0.024}_{-0.031} \quad (+0.0\sigma)$	$k_{\rm D}$	$0.14062 \pm 0.00035 \quad (+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.085 \pm 0.034 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1421 \pm 0.0014 \quad (-0.5\sigma)$	$100\theta_{\rm D}$	$0.16076 \pm 0.00019 \quad (-0.7\sigma)$
$\boldsymbol{n_s}$	$0.9682 \pm 0.0048 \quad (+0.8\sigma)$	$\Omega_{\rm m} h^3$	$0.1020 \pm 0.0049 \quad (-0.2\sigma)$	$z_{\rm eq}$	$3380 \pm 32 \quad (-0.5\sigma)$
$\boldsymbol{y_{cal}}$	$1.0001 \pm 0.0024 \quad (-0.1\sigma)$	σ_8	$0.864 \pm 0.033 \quad (-0.3\sigma)$	$100\theta_{\rm eq}$	$0.8172 \pm 0.0062 \quad (+0.5\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$244 \pm 22 \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.454 \pm 0.011 \quad (-0.4\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07257^{+0.00095}_{-0.00083} \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.626 \pm 0.013 \quad (-0.5\sigma)$	$H(0.57)$	$92.75^{+0.50}_{-0.37} \quad (+0.5\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.020 \pm 0.021 \quad (-0.5\sigma)$	$D_{\rm A}(0.57)$	$1358^{+22}_{-27} \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.8\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.498 \pm 0.042 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.660 \pm 0.013 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.38^{+1.6}_{-2.6} \quad (-1.1\sigma)$	$z_{\rm re}$	$9.77 \pm 1.6 \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.507 \pm 0.024 \quad (-0.3\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	$10^9 A_{\rm s}$	$2.187^{+0.073}_{-0.081} \quad (-0.1\sigma)$	$\sigma_8(0.57)$	$0.647 \pm 0.028 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.598 \quad (-0.3\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.873 \pm 0.012 \quad (-0.7\sigma)$	$Y_{\rm P}^{\rm BBN}$	$0.246302 \pm 0.000070 \quad (-5.0\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{40}	$1227 \pm 13 \quad (-0.9\sigma)$	f_{2000}^{143}	$28.2 \pm 2.7 \quad (-0.5\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5709 \pm 37 \quad (-0.5\sigma)$	f_{2000}^{217}	$105.8 \pm 1.9 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	$2529 \pm 13 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.1 \pm 2.0 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$814.5 \pm 4.7 \quad (+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.2 \pm 1.9 \quad (-0.5\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9682 \pm 0.0048 \quad (+0.8\sigma)$	$\chi^2_{\rm CamSpec}$	12952.1 ± 6.0
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00097 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.244973^{+0.000065}_{-0.000080} \quad (-5.1\sigma)$	$\chi^2_{\rm H070p6}$	$1.01 \pm 1.4 \quad (-0.0\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.723^{+0.056}_{-0.072} \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.93 \pm 3.6 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0040 ± 0.0045	z_*	$1089.83 \pm 0.29 \quad (-0.8\sigma)$	$\chi^2_{\rm CMB}$	$23448.3 \pm 6.0 \quad (+1568.9\sigma)$

$\bar{\chi}^2_{\rm eff} = 23458.22$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.60$; $R - 1 = 0.02918$

21.19 base_w_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02240 ± 0.00016 $(+0.7\sigma)$	$\boldsymbol{c_{EE}}$	1.0007 ± 0.0042	r_*	144.70 ± 0.31 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1189 ± 0.0014 (-0.5σ)	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04105 ± 0.00030 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04086 ± 0.00031 $(+0.1\sigma)$	H_0	> 79.3 (-0.1σ)	$z_{\rm drag}$	1059.90 ± 0.33 $(+0.6\sigma)$
$\boldsymbol{\tau}$	$0.076^{+0.015}_{-0.019}$ (-0.0σ)	Ω_Λ	$0.790^{+0.071}_{-0.020}$ (-0.1σ)	$r_{\rm drag}$	147.36 ± 0.31 $(+0.2\sigma)$
$\boldsymbol{w}$	$-1.49^{+0.21}_{-0.41}$ $(+0.2\sigma)$	$\Omega_{\rm m}$	$0.210^{+0.020}_{-0.071}$ $(+0.1\sigma)$	$k_{\rm D}$	0.14062 ± 0.00033 $(+0.1\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.083^{+0.030}_{-0.036}$ (-0.2σ)	$\Omega_{\rm m} h^2$	0.1419 ± 0.0013 (-0.4σ)	$100\theta_{\rm D}$	0.16073 ± 0.00019 (-0.7σ)
$\boldsymbol{n_s}$	0.9686 ± 0.0047 $(+0.7\sigma)$	$\Omega_{\rm m} h^3$	$0.120^{+0.020}_{-0.011}$ (-0.2σ)	$z_{\rm eq}$	3376 ± 31 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.0002 ± 0.0025 (-0.1σ)	σ_8	$0.964^{+0.11}_{-0.060}$ (-0.2σ)	$100\theta_{\rm eq}$	0.8180 ± 0.0060 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	243 ± 22 (-0.6σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.433^{+0.015}_{-0.024}$ (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.0745^{+0.0021}_{-0.00097}$ $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.645^{+0.023}_{-0.016}$ (-0.4σ)	$H(0.57)$	$91.3^{+1.7}_{-1.1}$ $(+0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.051^{+0.037}_{-0.026}$ (-0.4σ)	$D_{\rm A}(0.57)$	1296^{+26}_{-66} $(+0.1\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.8σ)	$\langle d^2 \rangle^{1/2}$	2.527 ± 0.046 (-0.6σ)	$F_{\rm AP}(0.57)$	$0.620^{+0.016}_{-0.043}$ $(+0.2\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.44^{+1.6}_{-2.5}$ (-1.1σ)	$z_{\rm re}$	9.67 ± 1.5 (-0.0σ)	$f\sigma_8(0.57)$	$0.586^{+0.088}_{-0.051}$ (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.11	$10^9 A_{\rm s}$	$2.183^{+0.063}_{-0.082}$ (-0.2σ)	$\sigma_8(0.57)$	$0.731^{+0.094}_{-0.048}$ (-0.2σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_{\rm s} e^{-2\tau}$	1.873 ± 0.012 (-0.7σ)	$Y_{\rm P}^{\rm BBN}$	0.246313 ± 0.000070 (-5.1σ)
$\boldsymbol{A^{kSZ}}$	—	D_{40}	1224 ± 13 (-0.9σ)	f_{2000}^{143}	28.0 ± 2.7 (-0.5σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5713 ± 38 (-0.5σ)	f_{2000}^{217}	105.7 ± 1.9 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	2529 ± 13 (-0.4σ)	$f_{2000}^{143\times217}$	30.9 ± 2.0 (-0.6σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	814.4 ± 4.7 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10495.6 ± 1.8 (-0.5σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9686 ± 0.0047 $(+0.7\sigma)$	$\chi^2_{\rm CamSpec}$	12951.6 ± 5.9
$\boldsymbol{c_{100}}$	0.99678 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	$0.244984^{+0.000069}_{-0.000079}$ (-5.2σ)	$\chi^2_{\rm prior}$	8.87 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	$13.575^{+0.062}_{-0.16}$ $(+0.0\sigma)$	$\chi^2_{\rm CMB}$	23447.2 ± 6.0 $(+1572.6\sigma)$
$\boldsymbol{c_{TE}}$	1.0035 ± 0.0045	z_*	1089.78 ± 0.29 (-0.7σ)		

$\bar{\chi}^2_{\rm eff} = 23456.04$; $\Delta\bar{\chi}^2_{\rm eff} = 10491.07$; $R - 1 = 0.01083$

21.20 base_w_plikHM_TT_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022289	0.02225 ± 0.00022	$\Omega_m h^2$	0.14207	0.1422 ± 0.0018	r_{drag}	147.409	147.40 ± 0.44
$\boldsymbol{\Omega_c h^2}$	0.11914	0.1193 ± 0.0019	$\Omega_m h^3$	0.09659	$0.0968^{+0.0029}_{-0.0035}$	k_D	0.140469	0.14045 ± 0.00050
$\boldsymbol{100\theta_{MC}}$	1.040947	1.04093 ± 0.00046	σ_8	0.8347	0.835 ± 0.026	$100\theta_D$	0.160902	0.16095 ± 0.00026
$\boldsymbol{\tau}$	0.0820	0.079 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.4628	0.462 ± 0.010	z_{eq}	3379.6	3383 ± 43
$\boldsymbol{w}$	-1.013	$-1.021^{+0.083}_{-0.066}$	$\sigma_8\Omega_m^{0.25}$	0.6215	0.621 ± 0.015	k_{eq}	0.010315	0.01033 ± 0.00013
$\boldsymbol{\ln(10^{10}A_s)}$	3.0967	3.092 ± 0.037	$\sigma_8/h^{0.5}$	1.0124	1.012 ± 0.023	$100\theta_{eq}$	0.8171	0.8165 ± 0.0080
$\boldsymbol{n_s}$	0.9677	0.9666 ± 0.0056	$\langle d^2\rangle^{1/2}$	2.4984	2.498 ± 0.048	$100\theta_{s,eq}$	0.45145	0.4511 ± 0.0041
$\boldsymbol{y_{cal}}$	1.00024	1.0004 ± 0.0025	z_{re}	10.32	$10.0^{+1.9}_{-1.6}$	$r_{drag}/D_V(0.57)$	0.071716	0.07167 ± 0.00043
$\boldsymbol{A_{217}^{CIB}}$	65.3	63.7 ± 6.7	$10^9 A_s$	2.213	2.204 ± 0.082	$H(0.57)$	92.987	$92.89^{+0.50}_{-0.40}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.22	—	$10^9 A_s e^{-2\tau}$	1.8777	1.879 ± 0.013	$D_A(0.57)$	1384.6	1385 ± 12
$\boldsymbol{A_{143}^{tSZ}}$	6.97	5.17 ± 1.9	D_{40}	1233.2	1236 ± 14	$F_{AP}(0.57)$	0.6743	$0.6739^{+0.0079}_{-0.0068}$
$\boldsymbol{A_{100}^{PS}}$	250.5	258 ± 28	D_{220}	5717.6	5720 ± 41	$f\sigma_8(0.57)$	0.4856	$0.487^{+0.018}_{-0.021}$
$\boldsymbol{A_{143}^{PS}}$	41.8	43 ± 8	D_{810}	2534.1	2534 ± 14	$\sigma_8(0.57)$	0.6215	0.621 ± 0.019
$\boldsymbol{A_{143\times217}^{PS}}$	38.9	39^{+10}_{-10}	D_{1420}	815.3	814.8 ± 5.1	f_{2000}^{143}	29.05	29.8 ± 2.9
$\boldsymbol{A_{217}^{PS}}$	100.2	97 ± 10	D_{2000}	230.77	230.5 ± 1.8	$f_{2000}^{143\times217}$	31.95	32.3 ± 2.1
$\boldsymbol{A^{kSZ}}$	0.01	< 4.49	$n_{s,0.002}$	0.9677	0.9666 ± 0.0056	f_{2000}^{217}	105.53	105.9 ± 2.0
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.41 ± 1.9	Y_P	0.245357	0.245339 ± 0.000099	χ^2_{lowTEB}	10496.48	10497.3 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	9.04	8.99 ± 1.8	Y_P^{BBN}	0.246684	0.246665 ± 0.000099	χ^2_{plik}	763.6	777.0 ± 5.6
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.78	17.1 ± 4.1	10^5D/H	2.6066	2.614 ± 0.041	χ^2_{6DF}	0.005	0.16 ± 0.22
$\boldsymbol{A_{217}^{dustTT}}$	82.2	81.8 ± 7.4	Age/Gyr	13.7931	13.796 ± 0.038	χ^2_{MGS}	1.47	1.66 ± 1.0
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00077	z_*	1089.946	1090.01 ± 0.38	$\chi^2_{DR11CMASS}$	2.54	3.19 ± 0.99
$\boldsymbol{c_{217}}$	0.99589	0.9959 ± 0.0015	r_*	144.716	144.70 ± 0.43	$\chi^2_{DR11LOWZ}$	0.476	0.74 ± 0.75
H_0	67.99	$68.1^{+1.5}_{-1.9}$	$100\theta_*$	1.041142	1.04113 ± 0.00045	χ^2_{prior}	1.88	7.32 ± 3.5
Ω_Λ	0.6926	0.693 ± 0.014	D_A/Gpc	13.8998	13.898 ± 0.040	χ^2_{CMB}	11260.0	11274.4 ± 5.5
Ω_m	0.3074	0.307 ± 0.014	z_{drag}	1059.704	1059.62 ± 0.46	χ^2_{BAO}	4.49	5.74 ± 1.7

Best-fit $\chi^2_{eff} = 11266.42$; $\bar{\chi}^2_{eff} = 11287.43$; $R - 1 = 0.00570$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.54 DR11LOWZ: 0.48 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.49 plik_dx11dr2_HM_v18_TT: 763.55

21.21 base_w_plikHM_TT_lowTEB_BAO_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022279	0.02226 ± 0.00022	$\Omega_m h^3$	0.09517	0.0953 ± 0.0028	$100\theta_D$	0.160966	0.16099 ± 0.00027
$\boldsymbol{\Omega_c h^2}$	0.11817	0.1184 ± 0.0017	σ_8	0.8110	0.812 ± 0.018	z_{eq}	3356.2	3360 ± 38
$\boldsymbol{100\theta_{MC}}$	1.041075	1.04106 ± 0.00044	$\sigma_8\Omega_m^{0.5}$	0.4516	0.4523 ± 0.0066	k_{eq}	0.010244	0.01026 ± 0.00012
$\boldsymbol{\tau}$	0.0687	0.068 ± 0.017	$\sigma_8\Omega_m^{0.25}$	0.6052	0.6059 ± 0.0093	$100\theta_{eq}$	0.8215	0.8207 ± 0.0074
$\boldsymbol{w}$	-0.983	$-0.988^{+0.071}_{-0.062}$	$\sigma_8/h^{0.5}$	0.9874	0.988 ± 0.014	$100\theta_{s,eq}$	0.45372	0.4533 ± 0.0038
$\boldsymbol{\ln(10^{10}A_s)}$	3.0669	3.066 ± 0.031	$\langle d^2\rangle^{1/2}$	2.4438	2.447 ± 0.027	$r_{drag}/D_V(0.57)$	0.071796	0.07173 ± 0.00043
$\boldsymbol{n_s}$	0.9690	0.9681 ± 0.0054	z_{re}	9.09	$8.95^{+1.7}_{-1.5}$	$H(0.57)$	93.139	$93.07^{+0.44}_{-0.37}$
$\boldsymbol{y_{cal}}$	1.00003	1.0002 ± 0.0025	$10^9 A_s$	2.148	$2.147^{+0.063}_{-0.072}$	$D_A(0.57)$	1387.2	1388 ± 12
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.5 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8718	1.873 ± 0.012	$F_{AP}(0.57)$	0.6766	0.6766 ± 0.0068
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1223.5	1227 ± 12	$f\sigma_8(0.57)$	0.4694	0.471 ± 0.014
$\boldsymbol{A_{143}^{tSZ}}$	7.26	5.00 ± 1.9	D_{220}	5714.9	5718 ± 42	$\sigma_8(0.57)$	0.6043	0.605 ± 0.014
$\boldsymbol{A_{100}^{PS}}$	252.7	260 ± 28	D_{810}	2531.7	2532 ± 14	f_{2000}^{143}	29.92	30.5 ± 2.8
$\boldsymbol{A_{143}^{PS}}$	39.0	44 ± 8	D_{1420}	814.9	814.7 ± 5.1	$f_{2000}^{143\times217}$	32.51	32.8 ± 2.0
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	38^{+10}_{-10}	D_{2000}	230.21	230.1 ± 1.8	f_{2000}^{217}	106.06	106.3 ± 2.0
$\boldsymbol{A_{217}^{PS}}$	97.0	96 ± 10	$n_{s,0.002}$	0.9690	0.9681 ± 0.0054	$\chi^2_{lensing}$	9.06	9.88 ± 1.5
$\boldsymbol{A^{kSZ}}$	0.01	< 5.06	Y_P	0.245353	0.24534 ± 0.00010	χ^2_{lowTEB}	10494.85	10495.7 ± 1.3
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.43 ± 1.9	Y_P^{BBN}	0.246679	0.24667 ± 0.00010	χ^2_{plik}	766.5	779.6 ± 5.5
$\boldsymbol{A_{143}^{dustTT}}$	9.04	8.97 ± 1.8	10^5D/H	2.6084	2.613 ± 0.042	χ^2_{6DF}	0.024	0.17 ± 0.22
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.76	17.1 ± 4.1	Age/Gyr	13.8054	13.809 ± 0.037	χ^2_{MGS}	1.28	1.42 ± 0.96
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.8 ± 7.4	z_*	1089.872	1089.92 ± 0.38	$\chi^2_{DR11CMASS}$	2.24	2.87 ± 0.93
$\boldsymbol{c_{100}}$	0.99789	0.99787 ± 0.00079	r_*	144.976	144.94 ± 0.39	$\chi^2_{DR11LOWZ}$	0.53	0.83 ± 0.81
$\boldsymbol{c_{217}}$	0.99597	0.9960 ± 0.0015	$100\theta_*$	1.041266	1.04126 ± 0.00043	χ^2_{prior}	2.16	7.41 ± 3.6
H_0	67.46	$67.5^{+1.4}_{-1.7}$	D_A/Gpc	13.9231	13.920 ± 0.036	χ^2_{CMB}	11270.4	11285.1 ± 5.5
Ω_Λ	0.6899	0.689 ± 0.013	z_{drag}	1059.589	1059.55 ± 0.47	χ^2_{BAO}	4.07	5.29 ± 1.6
Ω_m	0.3101	0.311 ± 0.013	r_{drag}	147.680	147.65 ± 0.39			
$\Omega_m h^2$	0.14109	0.1413 ± 0.0016	k_D	0.140178	0.14019 ± 0.00045			

Best-fit $\chi^2_{eff} = 11276.64$; $\bar{\chi}^2_{eff} = 11297.85$; $R - 1 = 0.02226$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.24 DR11LOWZ: 0.53 CMB - smica_g30_ftl_full_pp: 9.05 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.85 plik_dx11dr2_HM_v18_TT: 766.50

21.22 base_w_plikHM_TTTEEE_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022300	0.02227 ± 0.00016	$\boldsymbol{A_{143}^{dustTE}}$	0.156	0.155 ± 0.054	r_*	144.628	144.60 ± 0.30
$\boldsymbol{\Omega_c h^2}$	0.11944	0.1196 ± 0.0014	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.338	0.338 ± 0.081	$100\theta_*$	1.041000	1.04100 ± 0.00031
$\boldsymbol{100\theta_{MC}}$	1.040816	1.04081 ± 0.00032	$\boldsymbol{A_{217}^{dustTE}}$	1.662	1.67 ± 0.25	D_A/Gpc	13.8932	13.891 ± 0.028
$\boldsymbol{\tau}$	0.0829	0.080 ± 0.017	$\boldsymbol{c_{100}}$	0.99825	0.99817 ± 0.00078	z_{drag}	1059.742	1059.68 ± 0.31
$\boldsymbol{w}$	-1.021	$-1.030^{+0.069}_{-0.059}$	$\boldsymbol{c_{217}}$	0.99583	0.9960 ± 0.0015	r_{drag}	147.316	147.30 ± 0.29
$\boldsymbol{\ln(10^{10}A_s)}$	3.1004	3.094 ± 0.033	H_0	68.07	$68.3^{+1.5}_{-1.7}$	k_D	0.140577	0.14057 ± 0.00032
$\boldsymbol{n_s}$	0.96624	0.9650 ± 0.0046	Ω_Λ	0.6927	0.694 ± 0.013	$100\theta_D$	0.160854	0.16089 ± 0.00018
$\boldsymbol{y_{cal}}$	1.00040	1.0004 ± 0.0025	Ω_m	0.3073	0.306 ± 0.013	z_{eq}	3387.3	3391 ± 30
$\boldsymbol{A_{217}^{CIB}}$	64.0	63.9 ± 6.6	$\Omega_m h^2$	0.14239	0.1425 ± 0.0013	k_{eq}	0.010338	0.010349 ± 0.000093
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.36	—	$\Omega_m h^3$	0.09693	$0.0973^{+0.0025}_{-0.0029}$	$100\theta_{eq}$	0.8157	0.8150 ± 0.0058
$\boldsymbol{A_{143}^{tSZ}}$	6.99	5.37 ± 1.9	σ_8	0.8390	0.839 ± 0.022	$100\theta_{s,eq}$	0.45068	0.4503 ± 0.0030
$\boldsymbol{A_{100}^{PS}}$	252.3	260 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4651	0.4641 ± 0.0087	$r_{drag}/D_V(0.57)$	0.071651	0.07164 ± 0.00040
$\boldsymbol{A_{143}^{PS}}$	43.5	43 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6246	0.624 ± 0.012	$H(0.57)$	92.919	$92.84^{+0.37}_{-0.31}$
$\boldsymbol{A_{143\times217}^{PS}}$	43.1	40 ± 10	$\sigma_8/h^{0.5}$	1.0169	1.016 ± 0.019	$D_A(0.57)$	1384.7	1384 ± 11
$\boldsymbol{A_{217}^{PS}}$	102.4	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5106	2.508 ± 0.042	$F_{AP}(0.57)$	0.6738	0.6731 ± 0.0066
$\boldsymbol{A^{kSZ}}$	0.00	< 4.05	z_{re}	10.40	$10.1^{+1.7}_{-1.4}$	$f\sigma_8(0.57)$	0.4889	0.490 ± 0.016
$\boldsymbol{A_{100}^{dustTT}}$	7.45	7.43 ± 1.9	$10^9 A_s$	2.221	2.207 ± 0.074	$\sigma_8(0.57)$	0.6244	0.624 ± 0.017
$\boldsymbol{A_{143}^{dustTT}}$	8.94	8.93 ± 1.8	$10^9 A_s e^{-2\tau}$	1.8813	1.881 ± 0.012	f_{2000}^{143}	28.63	29.4 ± 2.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.88	17.0 ± 4.1	D_{40}	1238.6	1240 ± 13	$f_{2000}^{143\times217}$	31.79	32.1 ± 1.9
$\boldsymbol{A_{217}^{dustTT}}$	82.5	81.6 ± 7.4	D_{220}	5729.6	5729 ± 39	f_{2000}^{217}	105.35	105.7 ± 1.9
$\boldsymbol{A_{100}^{dustEE}}$	0.0815	0.0811 ± 0.0057	D_{810}	2536.5	2535 ± 13	χ^2_{lowTEB}	10497.05	10497.6 ± 2.2
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0492	0.0487 ± 0.0050	D_{1420}	815.67	814.7 ± 4.7	χ^2_{plik}	2431.7	2450.5 ± 6.9
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1004	0.0998 ± 0.033	D_{2000}	230.90	230.5 ± 1.6	χ^2_{6DF}	0.005	0.15 ± 0.22
$\boldsymbol{A_{143}^{dustEE}}$	0.1005	0.1002 ± 0.0069	$n_{s,0.002}$	0.96624	0.9650 ± 0.0046	χ^2_{MGS}	1.47	1.71 ± 1.0
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2243	0.224 ± 0.047	Y_P	0.245362	0.245348 ± 0.000071	$\chi^2_{DR11CMASS}$	2.65	3.26 ± 0.89
$\boldsymbol{A_{217}^{dustEE}}$	0.651	0.65 ± 0.13	Y_P^{BBN}	0.246689	0.246674 ± 0.000071	$\chi^2_{DR11LOWZ}$	0.513	0.72 ± 0.76
$\boldsymbol{A_{100}^{dustTE}}$	0.1404	0.140 ± 0.038	10^5D/H	2.6045	2.610 ± 0.029	χ^2_{prior}	6.64	19.3 ± 5.5
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1311	0.132 ± 0.029	Age/Gyr	13.7927	13.793 ± 0.033	χ^2_{CMB}	12928.8	12948.2 ± 6.7
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.304	0.302 ± 0.084	z_*	1089.961	1090.01 ± 0.28	χ^2_{BAO}	4.64	5.84 ± 1.7

Best-fit $\chi^2_{eff} = 12940.03$; $\bar{\chi}^2_{eff} = 12973.27$; $R - 1 = 0.01035$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.47 DR11CMASS: 2.65 DR11LOWZ: 0.51 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.05 plik_dx11dr2_HM_v18_TTTEEE: 2431.71

21.23 base_w_plikHM_TTTEEE_lowTEB_BAO_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022286	0.02228 ± 0.00015	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.337	0.337 ± 0.080	D_A/Gpc	13.9067	$13.904^{+0.029}_{-0.026}$
$\boldsymbol{\Omega_c h^2}$	0.11889	0.1190 ± 0.0013	$\boldsymbol{A^{dustTE}_{217}}$	1.667	1.66 ± 0.26	z_{drag}	1059.666	1059.66 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.040917	1.04089 ± 0.00032	$\boldsymbol{c_{100}}$	0.99818	0.99814 ± 0.00079	r_{drag}	147.479	147.45 ± 0.28
$\boldsymbol{\tau}$	0.0653	0.064 ± 0.014	$\boldsymbol{c_{217}}$	0.99611	0.9960 ± 0.0014	k_D	0.140393	0.14042 ± 0.00030
$\boldsymbol{w}$	-0.999	$-1.007^{+0.063}_{-0.056}$	H_0	67.64	$67.8^{+1.4}_{-1.6}$	$100\theta_D$	0.160909	0.16091 ± 0.00018
$\boldsymbol{\ln(10^{10}A_s)}$	3.0628	3.060 ± 0.026	Ω_Λ	0.6900	0.691 ± 0.013	z_{eq}	3373.6	3377 ± 30
$\boldsymbol{n_s}$	0.96651	0.9660 ± 0.0046	Ω_m	0.3100	0.309 ± 0.013	k_{eq}	0.010297	0.010306 ± 0.000090
$\boldsymbol{y_{cal}}$	1.00021	1.0001 ± 0.0026	$\Omega_m h^2$	0.14182	0.1419 ± 0.0012	$100\theta_{eq}$	0.8182	0.8177 ± 0.0057
$\boldsymbol{A^{CIB}_{217}}$	68.1	$64.7^{+6.1}_{-7.1}$	$\Omega_m h^3$	0.09593	$0.0963^{+0.0024}_{-0.0027}$	$100\theta_{s,eq}$	0.45200	0.4517 ± 0.0029
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	σ_8	0.8155	0.816 ± 0.016	$r_{drag}/D_V(0.57)$	0.071670	0.07166 ± 0.00041
$\boldsymbol{A^{tSZ}_{143}}$	7.29	5.29 ± 2.0	$\sigma_8\Omega_m^{0.5}$	0.4540	0.4537 ± 0.0062	$H(0.57)$	93.017	$92.97^{+0.34}_{-0.30}$
$\boldsymbol{A^{PS}_{100}}$	258.8	262 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6085	0.6085 ± 0.0082	$D_A(0.57)$	1387.1	1387 ± 11
$\boldsymbol{A^{PS}_{143}}$	38.8	44 ± 8	$\sigma_8/h^{0.5}$	0.9915	0.991 ± 0.012	$F_{AP}(0.57)$	0.6757	0.6751 ± 0.0064
$\boldsymbol{A^{PS}_{143\times217}}$	32.6	39^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4541	2.453 ± 0.026	$f\sigma_8(0.57)$	0.4736	$0.475^{+0.011}_{-0.014}$
$\boldsymbol{A^{PS}_{217}}$	96.2	96 ± 10	z_{re}	8.77	$8.57^{+1.5}_{-1.3}$	$\sigma_8(0.57)$	0.6071	0.608 ± 0.013
$\boldsymbol{A^{kSZ}}$	0.00	< 4.72	$10^9 A_s$	2.139	2.133 ± 0.056	f^{143}_{2000}	29.87	30.2 ± 2.7
$\boldsymbol{A^{dustTT}_{100}}$	7.50	7.45 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8767	1.877 ± 0.011	$f^{143\times217}_{2000}$	32.60	32.7 ± 1.8
$\boldsymbol{A^{dustTT}_{143}}$	9.07	9.05 ± 1.8	D_{40}	1229.5	1230 ± 11	f^{217}_{2000}	106.13	106.1 ± 1.8
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.69	17.2 ± 4.1	D_{220}	5726.3	5725 ± 39	$\chi^2_{lensing}$	9.69	10.3 ± 1.8
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.5 ± 7.4	D_{810}	2534.2	2533 ± 14	χ^2_{lowTEB}	10495.24	10495.8 ± 1.1
$\boldsymbol{A^{dustEE}_{100}}$	0.0814	$0.0813^{+0.0055}_{-0.0062}$	D_{1420}	815.06	814.6 ± 4.8	χ^2_{plik}	2435.2	2453.9 ± 6.9
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0492	0.0491 ± 0.0050	D_{2000}	230.21	230.0 ± 1.6	χ^2_{6DF}	0.022	0.15 ± 0.23
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0998	0.101 ± 0.033	$n_{s,0.002}$	0.96651	0.9660 ± 0.0046	χ^2_{MGS}	1.28	1.51 ± 0.95
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1003 ± 0.0069	Y_P	0.245356	0.245353 ± 0.000070	$\chi^2_{DR11CMASS}$	2.44	3.04 ± 0.91
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2242	0.223 ± 0.048	Y_P^{BBN}	0.246682	0.246679 ± 0.000070	$\chi^2_{DR11LOWZ}$	0.604	0.81 ± 0.82
$\boldsymbol{A^{dustEE}_{217}}$	0.649	0.65 ± 0.13	10^5D/H	2.6072	2.608 ± 0.029	χ^2_{prior}	7.07	19.6 ± 5.4
$\boldsymbol{A^{dustTE}_{100}}$	0.1403	0.140 ± 0.037	Age/Gyr	13.8022	$13.801^{+0.031}_{-0.035}$	χ^2_{CMB}	12940.2	12960.0 ± 6.8
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1304	0.131 ± 0.029	z_*	1089.928	1089.94 ± 0.28	χ^2_{BAO}	4.34	5.51 ± 1.7
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.301 ± 0.085	r_*	144.783	144.75 ± 0.29			
$\boldsymbol{A^{dustTE}_{143}}$	0.155	$0.157^{+0.054}_{-0.061}$	$100\theta_*$	1.041107	1.04109 ± 0.00031			

Best-fit $\chi^2_{eff} = 12951.59$; $\bar{\chi}^2_{eff} = 12985.07$; $R - 1 = 0.03760$

χ^2_{eff}: BAO - 6DF: 0.02 MGS: 1.28 DR11CMASS: 2.44 DR11LOWZ: 0.60 CMB - smica_g30_ftl_full_pp: 9.69 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.24 plik_dx11dr2_HM_v18_TTT

21.24 base_w_plikHM_TT_lowTEB_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.022271	0.02226 ± 0.00021	$\Omega_m h^2$	0.14205	0.1422 ± 0.0016	$100\theta_D$	0.160927	0.16093 ± 0.00026
$\mathbf{\Omega_c h^2}$	0.11914	0.1193 ± 0.0017	$\Omega_m h^3$	0.09697	0.0970 ± 0.0021	z_{eq}	3379.2	3383 ± 39
$\mathbf{100\theta_{MC}}$	1.040946	1.04093 ± 0.00044	σ_8	0.8363	0.836 ± 0.020	k_{eq}	0.010314	0.01033 ± 0.00012
$\boldsymbol{\tau}$	0.0805	0.080 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.4617	0.462 ± 0.010	$100\theta_{eq}$	0.8172	0.8165 ± 0.0073
$\boldsymbol{w}$	-1.0226	$-1.023^{+0.051}_{-0.046}$	$\sigma_8\Omega_m^{0.25}$	0.6214	0.622 ± 0.014	$100\theta_{s,eq}$	0.45148	0.4512 ± 0.0038
$\mathbf{ln(10^{10} A_s)}$	3.0936	3.092 ± 0.036	$\sigma_8/h^{0.5}$	1.0122	1.012 ± 0.021	$r_{drag}/D_V(0.57)$	0.071792	0.07172 ± 0.00042
$\boldsymbol{n_s}$	0.9674	0.9665 ± 0.0052	$\langle d^2\rangle^{1/2}$	2.4968	2.498 ± 0.046	$H(0.57)$	92.960	92.92 ± 0.39
$\boldsymbol{y_{cal}}$	1.00028	1.0004 ± 0.0025	z_{re}	10.19	$10.0^{+1.8}_{-1.6}$	$D_A(0.57)$	1382.5	1383.8 ± 8.7
$\boldsymbol{\alpha_{JLA}}$	0.1415	0.1415 ± 0.0066	$10^9 A_s$	2.206	2.204 ± 0.079	$F_{AP}(0.57)$	0.67306	0.6734 ± 0.0045
$\boldsymbol{\beta_{JLA}}$	3.103	3.107 ± 0.081	$10^9 A_s e^{-2\tau}$	1.8775	1.878 ± 0.013	$f\sigma_8(0.57)$	0.4869	0.487 ± 0.015
$\mathbf{A_{217}^{CIB}}$	66.5	63.8 ± 6.6	D_{40}	1232.8	1236 ± 14	$\sigma_8(0.57)$	0.6229	0.622 ± 0.015
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.04	—	D_{220}	5716.8	5720 ± 41	f_{2000}^{143}	29.35	29.8 ± 2.8
$\mathbf{A_{143}^{tSZ}}$	7.12	5.15 ± 1.9	D_{810}	2533.7	2534 ± 14	$f_{2000}^{143\times217}$	31.99	32.3 ± 2.0
$\mathbf{A_{100}^{PS}}$	251.7	258 ± 28	D_{1420}	815.02	814.7 ± 5.0	f_{2000}^{217}	105.65	105.9 ± 2.0
$\mathbf{A_{143}^{PS}}$	38.8	43 ± 8	D_{2000}	230.61	230.5 ± 1.8	χ^2_{lowTEB}	10496.30	10497.3 ± 2.4
$\boldsymbol{A_{143\times217}^{PS}}$	33.1	39^{+10}_{-10}	$n_{s,0.002}$	0.9674	0.9665 ± 0.0052	χ^2_{plik}	763.5	776.8 ± 5.6
$\mathbf{A_{217}^{PS}}$	97.9	97 ± 10	Y_P	0.245349	0.245343 ± 0.000096	χ^2_{H070p6}	0.509	0.63 ± 0.45
$\mathbf{A^{kSZ}}$	0.01	< 4.54	Y_P^{BBN}	0.246676	0.246670 ± 0.000097	χ^2_{JLA}	695.20	697.8 ± 2.2
$\mathbf{A_{100}^{dustTT}}$	7.38	7.40 ± 1.9	10^5D/H	2.6100	2.612 ± 0.040	χ^2_{6DF}	0.0000	0.070 ± 0.099
$\mathbf{A_{143}^{dustTT}}$	9.00	9.01 ± 1.8	Age/Gyr	13.7890	13.792 ± 0.031	χ^2_{MGS}	1.68	1.68 ± 0.72
$\mathbf{A_{143\times217}^{dustTT}}$	17.28	17.0 ± 4.2	z_*	1089.969	1090.00 ± 0.36	$\chi^2_{DR11CMASS}$	2.62	3.08 ± 0.78
$\mathbf{A_{217}^{dustTT}}$	81.5	81.7 ± 7.4	r_*	144.730	144.70 ± 0.40	$\chi^2_{DR11LOWZ}$	0.350	0.57 ± 0.54
$\boldsymbol{c_{100}}$	0.99788	0.99789 ± 0.00078	$100\theta_*$	1.041142	1.04113 ± 0.00043	χ^2_{prior}	2.06	7.30 ± 3.6
$\boldsymbol{c_{217}}$	0.99583	0.9959 ± 0.0014	D_A/Gpc	13.9011	13.898 ± 0.037	χ^2_{CMB}	11259.8	11274.1 ± 5.4
H_0	68.26	68.2 ± 1.1	z_{drag}	1059.628	1059.64 ± 0.45	χ^2_{BAO}	4.65	5.41 ± 1.2
Ω_Λ	0.6952	0.6940 ± 0.0092	r_{drag}	147.432	147.40 ± 0.41			
Ω_m	0.3048	0.3060 ± 0.0092	k_D	0.140434	0.14046 ± 0.00047			

Best-fit $\chi^2_{eff} = 11962.18$; $\bar{\chi}^2_{eff} = 11985.16$; $R - 1 = 0.00509$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.68 DR11CMASS: 2.62 DR11LOWZ: 0.35 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.30 plik_dx11dr2_HM_v18_TT: 763.46 Hubble - H070p6: 0.51 SN - JLA December_2013: 695.20

21.25 base_w_plikHM_TT_lowTEB_BAO_H070p6_JLA_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022285	0.02226 ± 0.00021	$\Omega_m h^2$	0.14137	0.1414 ± 0.0015	$100\theta_D$	0.160943	0.16098 ± 0.00026
$\boldsymbol{\Omega_c h^2}$	0.11844	0.1185 ± 0.0016	$\Omega_m h^3$	0.09614	0.0961 ± 0.0020	z_{eq}	3363.0	3364 ± 36
$\boldsymbol{100\theta_{MC}}$	1.041028	$1.04104^{+0.00046}_{-0.00041}$	σ_8	0.8169	0.817 ± 0.014	k_{eq}	0.010264	0.01027 ± 0.00011
$\boldsymbol{\tau}$	0.0672	0.066 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.4517	0.4518 ± 0.0066	$100\theta_{eq}$	0.8202	0.8200 ± 0.0069
$\boldsymbol{w}$	-1.0044	-1.006 ± 0.045	$\sigma_8\Omega_m^{0.25}$	0.6074	0.6074 ± 0.0083	$100\theta_{s,eq}$	0.45306	0.4530 ± 0.0035
$\boldsymbol{\ln(10^{10}A_s)}$	3.0644	$3.063^{+0.027}_{-0.031}$	$\sigma_8/h^{0.5}$	0.9906	0.990 ± 0.012	$r_{drag}/D_V(0.57)$	0.071881	$0.07185^{+0.00039}_{-0.00045}$
$\boldsymbol{n_s}$	0.9684	0.9677 ± 0.0052	$\langle d^2\rangle^{1/2}$	2.4485	2.449 ± 0.026	$H(0.57)$	93.086	93.05 ± 0.37
$\boldsymbol{y_{cal}}$	0.99999	1.0001 ± 0.0025	z_{re}	8.94	8.81 ± 1.4	$D_A(0.57)$	1383.2	1384.0 ± 8.8
$\boldsymbol{\alpha_{JLA}}$	0.1414	0.1412 ± 0.0065	$10^9 A_s$	2.142	$2.140^{+0.056}_{-0.067}$	$F_{AP}(0.57)$	0.67431	0.6744 ± 0.0044
$\boldsymbol{\beta_{JLA}}$	3.099	3.105 ± 0.082	$10^9 A_s e^{-2\tau}$	1.8729	1.874 ± 0.012	$f\sigma_8(0.57)$	0.4739	0.474 ± 0.010
$\boldsymbol{A_{217}^{CIB}}$	67.5	$64.5^{+6.4}_{-7.2}$	D_{40}	1224.1	1226 ± 12	$\sigma_8(0.57)$	0.6089	0.609 ± 0.010
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	D_{220}	5715.2	5717 ± 41	f_{2000}^{143}	29.92	$30.4^{+3.0}_{-2.7}$
$\boldsymbol{A_{143}^{tSZ}}$	7.11	5.06 ± 2.0	D_{810}	2531.8	2532 ± 14	$f_{2000}^{143\times217}$	32.53	32.8 ± 2.0
$\boldsymbol{A_{100}^{PS}}$	254.6	260 ± 28	D_{1420}	814.9	814.5 ± 5.1	f_{2000}^{217}	106.04	106.3 ± 1.9
$\boldsymbol{A_{143}^{PS}}$	39.4	44 ± 8	D_{2000}	230.22	230.0 ± 1.8	$\chi^2_{lensing}$	9.25	9.92 ± 1.6
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	39^{+10}_{-10}	$n_{s,0.002}$	0.9684	0.9677 ± 0.0052	χ^2_{lowTEB}	10494.85	10495.5 ± 1.2
$\boldsymbol{A_{217}^{PS}}$	97.0	96 ± 10	Y_P	0.245356	0.245342 ± 0.000096	χ^2_{plik}	766.3	779.2 ± 5.5
$\boldsymbol{A^{kSZ}}$	0.00	< 4.97	Y_P^{BBN}	0.246682	0.246668 ± 0.000096	χ^2_{H070p6}	0.616	0.71 ± 0.47
$\boldsymbol{A_{100}^{dustTT}}$	7.51	7.43 ± 1.9	10^5D/H	2.6073	2.613 ± 0.040	χ^2_{JLA}	695.17	697.7 ± 2.1
$\boldsymbol{A_{143}^{dustTT}}$	9.10	9.05 ± 1.8	Age/Gyr	13.7933	13.796 ± 0.031	χ^2_{6DF}	0.0008	0.072 ± 0.099
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.71	17.2 ± 4.2	z_*	1089.889	1089.93 ± 0.35	χ^2_{MGS}	1.61	1.68 ± 0.73
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.7 ± 7.3	r_*	144.899	144.90 ± 0.37	$\chi^2_{DR11CMASS}$	2.46	2.90 ± 0.77
$\boldsymbol{c_{100}}$	0.99791	0.99789 ± 0.00079	$100\theta_*$	1.041226	$1.04123^{+0.00046}_{-0.00040}$	$\chi^2_{DR11LOWZ}$	0.334	0.51 ± 0.50
$\boldsymbol{c_{217}}$	0.99601	0.9960 ± 0.0015	D_A/Gpc	13.9162	13.916 ± 0.035	χ^2_{prior}	2.06	7.37 ± 3.6
H_0	68.00	68.0 ± 1.0	z_{drag}	1059.628	1059.57 ± 0.45	χ^2_{CMB}	11270.4	11284.7 ± 5.4
Ω_Λ	0.6943	0.6938 ± 0.0093	r_{drag}	147.599	147.61 ± 0.38	χ^2_{BAO}	4.41	5.16 ± 1.2
Ω_m	0.3057	0.3062 ± 0.0093	k_D	0.140267	0.14023 ± 0.00044			

Best-fit $\chi^2_{eff} = 11972.61$; $\bar{\chi}^2_{eff} = 11995.62$; $R - 1 = 0.02377$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.46 DR11LOWZ: 0.33 CMB - smica_g30_ftl_full_pp: 9.25 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.85 plik_dx11dr2_HM_v18_TT: 766.27 Hubble - H070p6: 0.62 SN - JLA December_2013: 695.17

21.26 base_w_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022303	0.02227 ± 0.00015	$\boldsymbol{A_{143}^{dustTE}}$	0.155	0.155 ± 0.054	D_A/Gpc	13.8938	13.893 ± 0.027
$\boldsymbol{\Omega_c h^2}$	0.11940	0.1195 ± 0.0013	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.337	0.338 ± 0.080	z_{drag}	1059.742	1059.68 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040826	1.04081 ± 0.00031	$\boldsymbol{A_{217}^{dustTE}}$	1.658	1.67 ± 0.26	r_{drag}	147.325	147.32 ± 0.28
$\boldsymbol{\tau}$	0.0836	0.080 ± 0.017	$\boldsymbol{c_{100}}$	0.99826	0.99817 ± 0.00078	k_D	0.140569	0.14055 ± 0.00031
$\boldsymbol{w}$	−1.0228	-1.030 ± 0.041	$\boldsymbol{c_{217}}$	0.99584	0.9960 ± 0.0015	$100\theta_D$	0.160856	0.16089 ± 0.00018
$\boldsymbol{\ln(10^{10}A_s)}$	3.1018	3.094 ± 0.033	H_0	68.16	68.3 ± 1.0	z_{eq}	3386.3	3389 ± 28
$\boldsymbol{n_s}$	0.96656	0.9652 ± 0.0044	Ω_Λ	0.6936	0.6943 ± 0.0090	k_{eq}	0.010335	0.010344 ± 0.000087
$\boldsymbol{y_{cal}}$	1.00043	1.0004 ± 0.0024	Ω_m	0.3064	0.3057 ± 0.0090	$100\theta_{\mathrm{eq}}$	0.8159	0.8153 ± 0.0054
$\boldsymbol{\alpha_{JLA}}$	0.1413	0.1415 ± 0.0067	$\Omega_m h^2$	0.14235	0.1425 ± 0.0012	$100\theta_{s,\mathrm{eq}}$	0.45079	0.4505 ± 0.0028
$\boldsymbol{\beta_{JLA}}$	3.103	3.108 ± 0.080	$\Omega_m h^3$	0.09703	0.0973 ± 0.0018	$r_{\mathrm{drag}}/D_V(0.57)$	0.071686	0.07168 ± 0.00036
$\boldsymbol{A_{217}^{CIB}}$	63.9	63.8 ± 6.6	σ_8	0.8402	0.839 ± 0.017	$H(0.57)$	92.927	92.87 ± 0.29
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.41	—	$\sigma_8\Omega_m^{0.5}$	0.4651	0.4638 ± 0.0086	$D_A(0.57)$	1383.8	1383.6 ± 8.2
$\boldsymbol{A_{143}^{tSZ}}$	6.96	5.38 ± 1.9	$\sigma_8\Omega_m^{0.25}$	0.6251	0.624 ± 0.011	$F_{\mathrm{AP}}(0.57)$	0.67345	0.6729 ± 0.0042
$\boldsymbol{A_{100}^{PS}}$	252.6	259 ± 28	$\sigma_8/h^{0.5}$	1.0176	1.015 ± 0.018	$f\sigma_8(0.57)$	0.4896	0.489 ± 0.012
$\boldsymbol{A_{143}^{PS}}$	44.2	43 ± 8	$\langle d^2\rangle^{1/2}$	2.5116	2.507 ± 0.040	$\sigma_8(0.57)$	0.6254	0.624 ± 0.013
$\boldsymbol{A_{143\times217}^{PS}}$	44.4	40 ± 10	z_{re}	10.46	$10.1^{+1.7}_{-1.4}$	f_{2000}^{143}	28.55	29.4 ± 2.7
$\boldsymbol{A_{217}^{PS}}$	102.5	98 ± 10	$10^9 A_s$	2.224	2.207 ± 0.073	$f_{2000}^{143\times217}$	31.74	32.1 ± 1.9
$\boldsymbol{A^{kSZ}}$	0.00	< 4.04	$10^9 A_s e^{-2\tau}$	1.8814	1.881 ± 0.011	f_{2000}^{217}	105.23	105.7 ± 1.9
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.43 ± 1.9	D_{40}	1238.3	1240 ± 13	χ^2_{lowTEB}	10497.06	10497.6 ± 2.2
$\boldsymbol{A_{143}^{dustTT}}$	8.97	8.92 ± 1.8	D_{220}	5729.3	5730 ± 38	χ^2_{plik}	2431.7	2450.3 ± 6.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.98	17.0 ± 4.1	D_{810}	2536.9	2535 ± 13	χ^2_{H070p6}	0.553	0.59 ± 0.41
$\boldsymbol{A_{217}^{dustTT}}$	82.5	81.7 ± 7.4	D_{1420}	815.90	814.8 ± 4.7	χ^2_{JLA}	695.21	697.7 ± 2.2
$\boldsymbol{A_{100}^{dustEE}}$	0.0813	0.0812 ± 0.0057	D_{2000}	231.00	230.5 ± 1.6	χ^2_{6DF}	0.0018	0.066 ± 0.094
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.04894	0.0489 ± 0.0050	$n_{s,0.002}$	0.96656	0.9652 ± 0.0044	χ^2_{MGS}	1.54	1.69 ± 0.70
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0993	0.100 ± 0.032	Y_P	0.245363	$0.245349^{+0.000072}_{-0.000064}$	$\chi^2_{\mathrm{DR11CMASS}}$	2.65	3.07 ± 0.61
$\boldsymbol{A_{143}^{dustEE}}$	0.1005	0.1002 ± 0.0069	Y_P^{BBN}	0.246690	$0.246675^{+0.000072}_{-0.000065}$	$\chi^2_{\mathrm{DR11LOWZ}}$	0.461	0.57 ± 0.52
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2236	0.224 ± 0.047	$10^5\mathrm{D/H}$	2.6041	2.610 ± 0.028	χ^2_{prior}	6.61	19.2 ± 5.4
$\boldsymbol{A_{217}^{dustEE}}$	0.648	0.65 ± 0.13	Age/Gyr	13.7904	13.791 ± 0.025	χ^2_{CMB}	12928.8	12947.9 ± 6.6
$\boldsymbol{A_{100}^{dustTE}}$	0.1403	0.141 ± 0.038	z_*	1089.954	1090.00 ± 0.26	χ^2_{BAO}	4.65	5.40 ± 1.0
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1317	0.131 ± 0.029	r_*	144.638	144.62 ± 0.28			
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.302	0.303 ± 0.084	$100\theta_*$	1.041020	1.04100 ± 0.00031			

Best-fit $\chi^2_{\mathrm{eff}} = 13635.80$; $\bar{\chi}^2_{\mathrm{eff}} = 13670.82$; $R - 1 = 0.00718$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.54 DR11CMASS: 2.65 DR11LOWZ: 0.46 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.06 plik_dx11dr2_HM_v18_TTTEEE: 2431.72 Hubble - H070p6: 0.55 SN - JLA December_2013: 695.21

21.27 base_w_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022285	0.02227 ± 0.00014	$\boldsymbol{A_{143}^{dust\,TE}}$	0.155	0.154 ± 0.053	D_A/Gpc	13.9047	13.903 ± 0.025
$\boldsymbol{\Omega_c h^2}$	0.11899	0.1191 ± 0.0012	$\boldsymbol{A_{143\times217}^{dust\,TE}}$	0.337	0.336 ± 0.079	z_{drag}	1059.666	1059.63 ± 0.30
$\boldsymbol{100\theta_{MC}}$	1.040868	1.04088 ± 0.00031	$\boldsymbol{A_{217}^{dust\,TE}}$	1.668	1.66 ± 0.25	r_{drag}	147.453	147.44 ± 0.27
$\boldsymbol{\tau}$	0.0640	0.063 ± 0.013	$\boldsymbol{c_{100}}$	0.99816	0.99814 ± 0.00079	k_D	0.140421	0.14042 ± 0.00030
$\boldsymbol{w}$	−1.0173	-1.019 ± 0.039	$\boldsymbol{c_{217}}$	0.99610	0.9961 ± 0.0014	$100\theta_D$	0.160901	0.16092 ± 0.00017
$\boldsymbol{\ln(10^{10} A_s)}$	3.0602	3.058 ± 0.024	H_0	68.15	68.1 ± 1.0	z_{eq}	3376.1	3379 ± 27
$\boldsymbol{n_s}$	0.96618	0.9656 ± 0.0043	Ω_Λ	0.6944	0.6938 ± 0.0090	k_{eq}	0.010304	0.010312 ± 0.000083
$\boldsymbol{y_{cal}}$	1.00008	1.0001 ± 0.0025	Ω_m	0.3056	0.3062 ± 0.0090	$100\theta_{\mathrm{eq}}$	0.8177	0.8172 ± 0.0052
$\boldsymbol{\alpha_{JLA}}$	0.1414	0.1415 ± 0.0067	$\Omega_m h^2$	0.14192	0.1420 ± 0.0011	$100\theta_{\mathrm{s,eq}}$	0.45175	0.4515 ± 0.0027
$\boldsymbol{\beta_{JLA}}$	3.102	3.107 ± 0.080	$\Omega_m h^3$	0.09671	0.0968 ± 0.0017	$r_{\mathrm{drag}}/D_V(0.57)$	0.071778	0.07174 ± 0.00036
$\boldsymbol{A_{217}^{CIB}}$	67.9	64.7 ± 6.5	σ_8	0.8199	0.820 ± 0.012	$H(0.57)$	92.975	$92.94^{+0.30}_{-0.26}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	$\sigma_8\Omega_m^{0.5}$	0.4533	0.4535 ± 0.0058	$D_A(0.57)$	1383.3	1384.1 ± 8.3
$\boldsymbol{A_{143}^{tSZ}}$	7.26	5.28 ± 1.9	$\sigma_8\Omega_m^{0.25}$	0.6096	0.6097 ± 0.0073	$F_{\mathrm{AP}}(0.57)$	0.67356	0.6736 ± 0.0042
$\boldsymbol{A_{100}^{PS}}$	257.4	262 ± 28	$\sigma_8/h^{0.5}$	0.9932	0.993 ± 0.011	$f\sigma_8(0.57)$	0.4770	0.4772 ± 0.0092
$\boldsymbol{A_{143}^{PS}}$	38.9	44 ± 8	$\langle d^2\rangle^{1/2}$	2.4557	2.456 ± 0.024	$\sigma_8(0.57)$	0.6107	0.6104 ± 0.0097
$\boldsymbol{A_{143\times217}^{PS}}$	33.0	39^{+10}_{-10}	z_{re}	8.64	$8.49^{+1.4}_{-1.2}$	f_{2000}^{143}	29.77	30.2 ± 2.7
$\boldsymbol{A_{217}^{PS}}$	96.5	96 ± 10	$10^9 A_s$	2.133	2.129 ± 0.052	$f_{2000}^{143\times217}$	32.53	32.7 ± 1.9
$\boldsymbol{A^{kSZ}}$	0.00	< 4.49	$10^9 A_s e^{-2\tau}$	1.8770	1.878 ± 0.011	f_{2000}^{217}	106.06	106.2 ± 1.9
$\boldsymbol{A_{100}^{dust\,TT}}$	7.48	7.47 ± 1.9	D_{40}	1229.5	1231 ± 11	$\chi^2_{\mathrm{lensing}}$	9.79	10.3 ± 1.8
$\boldsymbol{A_{143}^{dust\,TT}}$	9.05	9.09 ± 1.8	D_{220}	5726.1	5726 ± 39	χ^2_{lowTEB}	10495.22	10495.8 ± 1.1
$\boldsymbol{A_{143\times217}^{dust\,TT}}$	17.66	17.4 ± 4.1	D_{810}	2533.9	2534 ± 13	χ^2_{plik}	2435.0	2454 ± 14
$\boldsymbol{A_{217}^{dust\,TT}}$	81.8	81.9 ± 7.4	D_{1420}	814.88	814.6 ± 4.7	χ^2_{H070p6}	0.558	0.65 ± 0.43
$\boldsymbol{A_{100}^{dust\,EE}}$	0.0815	0.0814 ± 0.0061	D_{2000}	230.15	230.0 ± 1.5	χ^2_{JLA}	695.18	697.6 ± 2.1
$\boldsymbol{A_{100\times143}^{dust\,EE}}$	0.0489	0.0490 ± 0.0050	$n_{s,0.002}$	0.96618	0.9656 ± 0.0043	χ^2_{6DF}	0.0005	0.068 ± 0.095
$\boldsymbol{A_{100\times217}^{dust\,EE}}$	0.0996	0.100 ± 0.033	Y_P	0.245356	$0.245346^{+0.000073}_{-0.000062}$	χ^2_{MGS}	1.61	1.66 ± 0.70
$\boldsymbol{A_{143}^{dust\,EE}}$	0.1005	0.1004 ± 0.0070	Y_P^{BBN}	0.246682	$0.246673^{+0.000073}_{-0.000062}$	$\chi^2_{\mathrm{DR11CMASS}}$	2.57	2.94 ± 0.61
$\boldsymbol{A_{143\times217}^{dust\,EE}}$	0.2227	0.225 ± 0.046	$10^5\mathrm{D/H}$	2.6073	2.611 ± 0.027	$\chi^2_{\mathrm{DR11LOWZ}}$	0.384	0.56 ± 0.52
$\boldsymbol{A_{217}^{dust\,EE}}$	0.655	0.65 ± 0.13	Age/Gyr	13.7924	13.794 ± 0.026	χ^2_{prior}	7.10	19.3 ± 5.7
$\boldsymbol{A_{100}^{dust\,TE}}$	0.1416	0.141 ± 0.038	z_*	1089.938	1089.97 ± 0.26	χ^2_{CMB}	12940.0	12960 ± 14
$\boldsymbol{A_{100\times143}^{dust\,TE}}$	0.1316	0.131 ± 0.029	r_*	144.757	144.74 ± 0.27	χ^2_{BAO}	4.57	5.22 ± 1.0
$\boldsymbol{A_{100\times217}^{dust\,TE}}$	0.303	0.301 ± 0.084	$100\theta_*$	1.041067	1.04107 ± 0.00030			

Best-fit $\chi^2_{\mathrm{eff}} = 13647.43$; $\bar{\chi}^2_{\mathrm{eff}} = 13682.56$; $R - 1 = 0.02987$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.57 DR11LOWZ: 0.38 CMB - smica_g30_ftl_full_pp: 9.79 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.22 plik_dx11dr2_HM_v18_TTT
2435.01 Hubble - H070p6: 0.56 SN - JLA December_2013: 695.18

22 w+wa

22.1 base_w_wa_plikHM_TT_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022247	0.02222 ± 0.00022	$\Omega_m h^2$	0.14280	0.1430 ± 0.0019	k_D	0.14060	0.14061 ± 0.00050
$\boldsymbol{\Omega_c h^2}$	0.11990	0.1202 ± 0.0020	$\Omega_m h^3$	0.09128	$0.0915^{+0.0037}_{-0.0046}$	$100\theta_D$	0.160919	0.16096 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.040848	1.04081 ± 0.00046	σ_8	0.8025	$0.804^{+0.029}_{-0.033}$	z_{eq}	3397.0	3403 ± 45
$\boldsymbol{\tau}$	0.0754	0.075 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.4744	0.476 ± 0.013	k_{eq}	0.010368	0.01039 ± 0.00014
$\boldsymbol{w}$	-0.528	$-0.50^{+0.36}_{-0.26}$	$\sigma_8\Omega_m^{0.25}$	0.6170	0.618 ± 0.016	$100\theta_{eq}$	0.8138	0.8128 ± 0.0085
$\boldsymbol{w_a}$	-1.35	$-1.50^{+0.75}_{-1.1}$	$\sigma_8/h^{0.5}$	1.0037	1.006 ± 0.023	$100\theta_{s,eq}$	0.44975	0.4492 ± 0.0043
$\boldsymbol{\ln(10^{10}A_s)}$	3.0850	3.084 ± 0.036	$\langle d^2\rangle^{1/2}$	2.5102	2.515 ± 0.049	$r_{drag}/D_V(0.57)$	0.07234	0.07235 ± 0.00058
$\boldsymbol{n_s}$	0.9654	0.9644 ± 0.0057	z_{re}	9.73	$9.59^{+1.9}_{-1.6}$	$H(0.57)$	95.12	$95.1^{+1.5}_{-1.3}$
$\boldsymbol{y_{cal}}$	1.00015	1.0003 ± 0.0025	$10^9 A_s$	2.187	2.187 ± 0.080	$D_A(0.57)$	1380.3	1379 ± 12
$\boldsymbol{A_{217}^{CIB}}$	66.6	63.8 ± 6.6	$10^9 A_s e^{-2\tau}$	1.8806	1.882 ± 0.013	$F_{AP}(0.57)$	0.6876	0.687 ± 0.011
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.03	—	D_{40}	1234.8	1238 ± 14	$f\sigma_8(0.57)$	0.4579	$0.460^{+0.023}_{-0.026}$
$\boldsymbol{A_{143}^{tSZ}}$	7.08	5.13 ± 1.9	D_{220}	5716.0	5717 ± 41	$\sigma_8(0.57)$	0.5981	$0.599^{+0.021}_{-0.024}$
$\boldsymbol{A_{100}^{PS}}$	252.1	258 ± 28	D_{810}	2533.7	2534 ± 14	f_{2000}^{143}	29.41	30.0 ± 2.9
$\boldsymbol{A_{143}^{PS}}$	38.9	44 ± 8	D_{1420}	814.43	814.1 ± 5.0	$f_{2000}^{143\times217}$	32.09	32.4 ± 2.1
$\boldsymbol{A_{143\times217}^{PS}}$	33.0	39 ± 10	D_{2000}	230.43	230.3 ± 1.8	f_{2000}^{217}	105.75	106.0 ± 2.0
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	$n_{s,0.002}$	0.9654	0.9644 ± 0.0057	χ^2_{lowTEB}	10496.45	10497.5 ± 2.2
$\boldsymbol{A^{kSZ}}$	0.00	< 4.59	Y_P	0.245339	0.245321 ± 0.000098	χ^2_{plik}	762.9	776.5 ± 5.5
$\boldsymbol{A_{100}^{dustTT}}$	7.31	7.42 ± 1.9	Y_P^{BBN}	0.246665	0.246648 ± 0.000099	χ^2_{6DF}	0.60	0.87 ± 0.85
$\boldsymbol{A_{143}^{dustTT}}$	8.96	9.02 ± 1.8	10^5D/H	2.6145	2.621 ± 0.041	χ^2_{MGS}	0.313	0.65 ± 0.80
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.45	17.1 ± 4.2	Age/Gyr	13.7772	13.779 ± 0.036	$\chi^2_{DR11CMASS}$	1.45	2.36 ± 1.5
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.8 ± 7.4	z_*	1090.066	1090.13 ± 0.39	$\chi^2_{DR11LOWZ}$	0.553	0.76 ± 0.78
$\boldsymbol{c_{100}}$	0.99786	0.99788 ± 0.00078	r_*	144.550	144.51 ± 0.45	χ^2_{prior}	2.07	7.28 ± 3.5
$\boldsymbol{c_{217}}$	0.99588	0.9959 ± 0.0015	$100\theta_*$	1.041037	1.04101 ± 0.00045	χ^2_{CMB}	11259.4	11274.0 ± 5.5
H_0	63.92	$63.9^{+2.3}_{-3.1}$	D_A/Gpc	13.8852	13.882 ± 0.042	χ^2_{BAO}	2.91	4.64 ± 1.7
Ω_Λ	0.6505	0.648 ± 0.029	z_{drag}	1059.628	1059.59 ± 0.45			
Ω_m	0.3495	0.352 ± 0.029	r_{drag}	147.255	147.22 ± 0.46			

Best-fit $\chi^2_{eff} = 11264.38$; $\bar{\chi}^2_{eff} = 11285.97$; $R - 1 = 0.00522$

χ^2_{eff}: BAO - 6DF: 0.60 MGS: 0.31 DR11CMASS: 1.45 DR11LOWZ: 0.55 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.45 plik_dx11dr2_HM_v18_TT: 762.95

22.2 base_w_wa_plikHM_TT_lowTEB_BAO_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022276	0.02224 ± 0.00022	$\Omega_m h^2$	0.14135	0.1417 ± 0.0017	k_D	0.140245	0.14027 ± 0.00045
$\boldsymbol{\Omega_c h^2}$	0.11843	0.1188 ± 0.0018	$\Omega_m h^3$	0.09081	$0.0906^{+0.0038}_{-0.0045}$	$100\theta_D$	0.160959	$0.16099^{+0.00024}_{-0.00029}$
$\boldsymbol{100\theta_{MC}}$	1.041045	1.04099 ± 0.00044	σ_8	0.7846	0.782 ± 0.026	z_{eq}	3362.4	3370 ± 40
$\boldsymbol{\tau}$	0.0646	0.062 ± 0.017	$\sigma_8 \Omega_m^{0.5}$	0.4591	0.4609 ± 0.0089	k_{eq}	0.010262	0.01029 ± 0.00012
$\boldsymbol{w}$	-0.620	$-0.54^{+0.36}_{-0.30}$	$\sigma_8 \Omega_m^{0.25}$	0.6002	0.600 ± 0.010	$100\theta_{eq}$	0.8203	0.8188 ± 0.0076
$\boldsymbol{w_a}$	-0.95	-1.25 ± 0.86	$\sigma_8/h^{0.5}$	0.9789	0.978 ± 0.015	$100\theta_{s,eq}$	0.45312	0.4524 ± 0.0039
$\boldsymbol{\ln(10^{10} A_s)}$	3.0596	3.054 ± 0.031	$\langle d^2 \rangle^{1/2}$	2.4479	2.451 ± 0.027	$r_{drag}/D_V(0.57)$	0.07228	0.07240 ± 0.00059
$\boldsymbol{n_s}$	0.9686	0.9670 ± 0.0055	z_{re}	8.69	$8.33^{+1.8}_{-1.6}$	$H(0.57)$	94.87	$95.1^{+1.7}_{-1.4}$
$\boldsymbol{y_{cal}}$	1.00013	$1.0001^{+0.0024}_{-0.0027}$	$10^9 A_s$	2.132	2.122 ± 0.065	$D_A(0.57)$	1385.1	1383 ± 12
$\boldsymbol{A_{217}^{CIB}}$	67.1	64.4 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8735	1.875 ± 0.012	$F_{AP}(0.57)$	0.6882	0.689 ± 0.012
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1223.1	1226 ± 12	$f\sigma_8(0.57)$	0.4463	$0.445^{+0.021}_{-0.024}$
$\boldsymbol{A_{143}^{tSZ}}$	7.18	4.99 ± 1.9	D_{220}	5715.4	5716 ± 42	$\sigma_8(0.57)$	0.5852	0.583 ± 0.019
$\boldsymbol{A_{100}^{PS}}$	253.8	260 ± 27	D_{810}	2532.6	2532 ± 14	f_{2000}^{143}	29.84	30.6 ± 2.8
$\boldsymbol{A_{143}^{PS}}$	39.0	44 ± 8	D_{1420}	815.1	814.1 ± 5.2	$f_{2000}^{143\times217}$	32.45	32.9 ± 2.0
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39^{+10}_{-10}	D_{2000}	230.29	229.9 ± 1.8	f_{2000}^{217}	106.03	106.4 ± 2.0
$\boldsymbol{A_{217}^{PS}}$	97.3	96 ± 10	$n_{s,0.002}$	0.9686	0.9670 ± 0.0055	$\chi^2_{lensing}$	9.32	10.2 ± 1.7
$\boldsymbol{A^{kSZ}}$	0.00	< 5.11	Y_P	0.245352	$0.24533^{+0.00011}_{-0.000098}$	χ^2_{lowTEB}	10494.90	10495.8 ± 1.3
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.45 ± 1.9	Y_P^{BBN}	0.246678	$0.24666^{+0.00011}_{-0.000098}$	χ^2_{plik}	766.2	779.1 ± 5.4
$\boldsymbol{A_{143}^{dustTT}}$	9.09	9.12 ± 1.8	10^5D/H	2.6090	$2.617^{+0.041}_{-0.046}$	χ^2_{6DF}	0.52	0.89 ± 0.90
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.3 ± 4.2	Age/Gyr	13.7925	13.790 ± 0.035	χ^2_{MGS}	0.346	0.64 ± 0.77
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.9 ± 7.6	z_*	1089.899	1089.98 ± 0.39	$\chi^2_{DR11CMASS}$	1.33	2.28 ± 1.5
$\boldsymbol{c_{100}}$	0.99789	0.99789 ± 0.00077	r_*	144.911	144.85 ± 0.40	$\chi^2_{DR11LOWZ}$	0.659	0.79 ± 0.79
$\boldsymbol{c_{217}}$	0.99594	$0.9960^{+0.0014}_{-0.0016}$	$100\theta_*$	1.041244	1.04119 ± 0.00043	χ^2_{prior}	2.10	7.37 ± 3.6
H_0	64.25	$63.9^{+2.5}_{-3.2}$	D_A/Gpc	13.9171	13.912 ± 0.037	χ^2_{CMB}	11270.4	11285.1 ± 5.4
Ω_Λ	0.6575	0.651 ± 0.030	z_{drag}	1059.589	1059.54 ± 0.46	χ^2_{BAO}	2.86	4.60 ± 1.7
Ω_m	0.3425	0.349 ± 0.030	r_{drag}	147.615	147.56 ± 0.40			

Best-fit $\chi^2_{eff} = 11275.37$; $\bar{\chi}^2_{eff} = 11297.07$; $R - 1 = 0.01814$

χ^2_{eff}: BAO - 6DF: 0.52 MGS: 0.35 DR11CMASS: 1.33 DR11LOWZ: 0.66 CMB - smica_g30_ftl_full_pp: 9.32 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.90 plik_dx11dr2_HM_v18_TT: 766.19

22.3 base_w_wa_plikHM_TTTEEE_lowTEB_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022258	0.02224 ± 0.00015	$\boldsymbol{A^{dustTE}_{143}}$	0.156	0.156 ± 0.054	$100\theta_*$	1.040947	1.04095 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.12000	0.1200 ± 0.0014	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.339 ± 0.080	D_A/Gpc	13.8833	13.884 ± 0.029
$\boldsymbol{100\theta_{MC}}$	1.040744	1.04075 ± 0.00032	$\boldsymbol{A^{dustTE}_{217}}$	1.675	1.67 ± 0.25	z_{drag}	1059.666	1059.64 ± 0.31
$\boldsymbol{\tau}$	0.0770	0.076 ± 0.017	$\boldsymbol{c_{100}}$	0.99820	0.99817 ± 0.00078	r_{drag}	147.218	147.23 ± 0.30
$\boldsymbol{w}$	-0.503	$-0.51^{+0.37}_{-0.27}$	$\boldsymbol{c_{217}}$	0.99593	0.9959 ± 0.0014	k_D	0.140648	0.14062 ± 0.00033
$\boldsymbol{w_a}$	-1.44	$-1.47^{+0.80}_{-1.0}$	H_0	63.76	$64.0^{+2.3}_{-3.2}$	$100\theta_D$	0.160888	0.16091 ± 0.00018
$\boldsymbol{\ln(10^{10}A_s)}$	3.0894	3.088 ± 0.033	Ω_Λ	0.6485	$0.649^{+0.028}_{-0.033}$	z_{eq}	3399.4	3400 ± 31
$\boldsymbol{n_s}$	0.96483	0.9641 ± 0.0046	Ω_m	0.3515	$0.351^{+0.033}_{-0.028}$	k_{eq}	0.010375	0.010377 ± 0.000095
$\boldsymbol{y_{cal}}$	1.00016	1.0004 ± 0.0025	$\Omega_m h^2$	0.14290	0.1429 ± 0.0013	$100\theta_{eq}$	0.8134	0.8133 ± 0.0059
$\boldsymbol{A^{CIB}_{217}}$	64.5	63.6 ± 6.6	$\Omega_m h^3$	0.09111	$0.0915^{+0.0035}_{-0.0047}$	$100\theta_{s,eq}$	0.44949	0.4495 ± 0.0030
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.33	—	σ_8	0.8034	$0.805^{+0.026}_{-0.031}$	$r_{drag}/D_V(0.57)$	0.07236	$0.07237^{+0.00061}_{-0.00055}$
$\boldsymbol{A^{tSZ}_{143}}$	6.98	5.35 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4763	0.476 ± 0.011	$H(0.57)$	95.21	$95.1^{+1.6}_{-1.3}$
$\boldsymbol{A^{PS}_{100}}$	252.6	260 ± 28	$\sigma_8\Omega_m^{0.25}$	0.6186	0.619 ± 0.013	$D_A(0.57)$	1379.8	1379 ± 12
$\boldsymbol{A^{PS}_{143}}$	43.4	44 ± 8	$\sigma_8/h^{0.5}$	1.0062	1.006 ± 0.019	$F_{AP}(0.57)$	0.6880	0.687 ± 0.011
$\boldsymbol{A^{PS}_{143\times217}}$	42.5	40 ± 10	$\langle d^2\rangle^{1/2}$	2.5189	2.519 ± 0.041	$f\sigma_8(0.57)$	0.4582	$0.460^{+0.021}_{-0.025}$
$\boldsymbol{A^{PS}_{217}}$	101.7	98 ± 10	z_{re}	9.87	$9.73^{+1.7}_{-1.4}$	$\sigma_8(0.57)$	0.5988	$0.600^{+0.020}_{-0.023}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.00	$10^9 A_s$	2.196	2.194 ± 0.071	f^{143}_{2000}	28.85	29.5 ± 2.7
$\boldsymbol{A^{dustTT}_{100}}$	7.35	7.43 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8828	1.883 ± 0.012	$f^{143\times217}_{2000}$	31.97	32.2 ± 1.9
$\boldsymbol{A^{dustTT}_{143}}$	8.99	8.90 ± 1.8	D_{40}	1238.2	1241 ± 13	f^{217}_{2000}	105.47	105.8 ± 1.8
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.91	16.9 ± 4.2	D_{220}	5724.8	5728 ± 38	χ^2_{lowTEB}	10496.87	10497.7 ± 2.0
$\boldsymbol{A^{dustTT}_{217}}$	82.5	81.6 ± 7.4	D_{810}	2535.7	2536 ± 13	χ^2_{plik}	2431.5	2450.0 ± 6.7
$\boldsymbol{A^{dustEE}_{100}}$	0.0811	0.0811 ± 0.0057	D_{1420}	814.90	814.5 ± 4.7	χ^2_{6DF}	0.65	0.88 ± 0.85
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04879	0.0487 ± 0.0050	D_{2000}	230.62	230.4 ± 1.6	χ^2_{MGS}	0.281	0.67 ± 0.83
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0997	0.0995 ± 0.033	$n_{s,0.002}$	0.96483	0.9641 ± 0.0046	$\chi^2_{DR11CMASS}$	1.44	2.34 ± 1.5
$\boldsymbol{A^{dustEE}_{143}}$	0.1001	0.1000 ± 0.0068	Y_P	0.245344	0.245334 ± 0.000070	$\chi^2_{DR11LOWZ}$	0.553	0.74 ± 0.77
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2235	0.224 ± 0.047	Y_P^{BBN}	0.246670	0.246660 ± 0.000070	χ^2_{prior}	6.61	19.2 ± 5.4
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	10^5D/H	2.6125	2.616 ± 0.029	χ^2_{CMB}	12928.3	12947.7 ± 6.7
$\boldsymbol{A^{dustTE}_{100}}$	0.1405	0.141 ± 0.038	Age/Gyr	13.7765	13.778 ± 0.032	χ^2_{BAO}	2.92	4.63 ± 1.7
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1318	0.132 ± 0.029	z_*	1090.060	1090.09 ± 0.28			
$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.302 ± 0.085	r_*	144.518	144.52 ± 0.31			

Best-fit $\chi^2_{eff} = 12937.86$; $\bar{\chi}^2_{eff} = 12971.50$; $R - 1 = 0.00886$

χ^2_{eff}: BAO - 6DF: 0.65 MGS: 0.28 DR11CMASS: 1.44 DR11LOWZ: 0.55 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.87 plik_dx11dr2_HM_v18_TTTEEE:

22.4 base_w_wa_plikHM_TTTEEE_lowTEB_BAO_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022277	0.02225 ± 0.00015	$\boldsymbol{A_{143}^{dustTE}}$	0.155	0.158 ± 0.053	$100\theta_*$	1.041075	1.04106 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11909	0.1194 ± 0.0013	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.339	0.337 ± 0.080	D_A/Gpc	13.9028	13.898 ± 0.027
$\boldsymbol{100\theta_{MC}}$	1.040882	1.04086 ± 0.00031	$\boldsymbol{A_{217}^{dustTE}}$	1.676	1.67 ± 0.25	z_{drag}	1059.666	1059.60 ± 0.31
$\boldsymbol{\tau}$	0.0607	0.058 ± 0.015	$\boldsymbol{c_{100}}$	0.99815	0.99815 ± 0.00077	r_{drag}	147.436	147.40 ± 0.29
$\boldsymbol{w}$	−0.597	$-0.54^{+0.36}_{-0.30}$	$\boldsymbol{c_{217}}$	0.99607	0.9961 ± 0.0014	k_D	0.140431	0.14045 ± 0.00031
$\boldsymbol{w_a}$	−1.08	-1.30 ± 0.86	H_0	64.23	$64.1^{+2.4}_{-3.4}$	$100\theta_D$	0.160910	0.16094 ± 0.00018
$\boldsymbol{\ln(10^{10}A_s)}$	3.0534	3.050 ± 0.027	Ω_Λ	0.6557	0.651 ± 0.030	z_{eq}	3378.2	3384 ± 30
$\boldsymbol{n_s}$	0.96604	$0.9651^{+0.0048}_{-0.0043}$	Ω_m	0.3443	0.349 ± 0.030	k_{eq}	0.010311	0.010329 ± 0.000091
$\boldsymbol{y_{cal}}$	0.99986	1.0001 ± 0.0024	$\Omega_m h^2$	0.14201	0.1423 ± 0.0012	$100\theta_{eq}$	0.8173	0.8162 ± 0.0057
$\boldsymbol{A_{217}^{CIB}}$	67.7	64.6 ± 6.5	$\Omega_m h^3$	0.09121	$0.0911^{+0.0037}_{-0.0048}$	$100\theta_{s,eq}$	0.45155	0.4510 ± 0.0029
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	σ_8	0.7864	$0.785^{+0.024}_{-0.030}$	$r_{drag}/D_V(0.57)$	0.07227	0.07236 ± 0.00060
$\boldsymbol{A_{143}^{tSZ}}$	7.30	5.31 ± 1.9	$\sigma_8\Omega_m^{0.5}$	0.4614	$0.4627^{+0.0091}_{-0.0078}$	$H(0.57)$	94.91	95.1 ± 1.5
$\boldsymbol{A_{100}^{PS}}$	257.0	262 ± 27	$\sigma_8\Omega_m^{0.25}$	0.6024	0.6027 ± 0.0091	$D_A(0.57)$	1383.3	1381 ± 12
$\boldsymbol{A_{143}^{PS}}$	38.9	44 ± 8	$\sigma_8/h^{0.5}$	0.9812	0.981 ± 0.014	$F_{AP}(0.57)$	0.6875	0.688 ± 0.011
$\boldsymbol{A_{143\times217}^{PS}}$	33.2	40^{+10}_{-10}	$\langle d^2\rangle^{1/2}$	2.4560	2.459 ± 0.024	$f\sigma_8(0.57)$	0.4483	$0.448^{+0.020}_{-0.025}$
$\boldsymbol{A_{217}^{PS}}$	96.8	97 ± 10	z_{re}	8.31	$8.03^{+1.5}_{-1.4}$	$\sigma_8(0.57)$	0.5863	$0.586^{+0.018}_{-0.022}$
$\boldsymbol{A^{kSZ}}$	0.00	< 4.45	$10^9 A_s$	2.119	2.112 ± 0.056	f_{2000}^{143}	29.78	$30.2^{+2.4}_{-2.7}$
$\boldsymbol{A_{100}^{dustTT}}$	7.47	7.52 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8764	1.878 ± 0.011	$f_{2000}^{143\times217}$	32.56	32.8 ± 1.8
$\boldsymbol{A_{143}^{dustTT}}$	9.12	9.07 ± 1.8	D_{40}	1227.9	1231 ± 11	f_{2000}^{217}	106.07	106.3 ± 1.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.4 ± 4.3	D_{220}	5722.0	5724 ± 36	$\chi^2_{lensing}$	9.94	10.7 ± 2.0
$\boldsymbol{A_{217}^{dustTT}}$	81.8	82.0 ± 7.6	D_{810}	2532.7	2534 ± 13	χ^2_{lowTEB}	10495.34	10496.0 ± 1.1
$\boldsymbol{A_{100}^{dustEE}}$	0.0814	0.0815 ± 0.0057	D_{1420}	814.46	814.4 ± 4.6	χ^2_{plik}	2434.8	2453.1 ± 6.7
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0493	0.0491 ± 0.0050	D_{2000}	230.03	229.9 ± 1.5	χ^2_{6DF}	0.53	0.87 ± 0.84
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0992	0.100 ± 0.033	$n_{s,0.002}$	0.96604	$0.9651^{+0.0048}_{-0.0043}$	χ^2_{MGS}	0.346	0.68 ± 0.85
$\boldsymbol{A_{143}^{dustEE}}$	0.1006	0.1003 ± 0.0068	Y_P	0.245352	0.245336 ± 0.000070	$\chi^2_{DR11CMASS}$	1.37	2.34 ± 1.6
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2239	0.226 ± 0.046	Y_P^{BBN}	0.246678	0.246662 ± 0.000071	$\chi^2_{DR11LOWZ}$	0.632	0.78 ± 0.80
$\boldsymbol{A_{217}^{dustEE}}$	0.655	0.65 ± 0.13	10^5D/H	2.6090	2.615 ± 0.029	χ^2_{prior}	7.11	19.3 ± 5.4
$\boldsymbol{A_{100}^{dustTE}}$	0.1398	0.141 ± 0.037	Age/Gyr	13.7867	13.785 ± 0.032	χ^2_{CMB}	12940.1	12959.8 ± 6.6
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1310	0.132 ± 0.029	z_*	1089.958	1090.02 ± 0.28	χ^2_{BAO}	2.88	4.68 ± 1.8
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.305	0.304 ± 0.085	r_*	144.738	144.69 ± 0.29			

Best-fit $\chi^2_{\rm eff} = 12950.11$; $\bar{\chi}^2_{\rm eff} = 12983.72$; $R-1 = 0.04096$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.53 MGS: 0.35 DR11CMASS: 1.37 DR11LOWZ: 0.63 CMB - smica_g30_ftl_full_pp: 9.94 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.34 plik_dx11dr2_HM_v18_TTT
2434.85

22.5 base_w_wa_plikHM_TT_lowTEB_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_{\rm b}h^2}$	0.022224	0.02220 ± 0.00022	$\Omega_{\rm m}$	0.3087	0.309 ± 0.010	$k_{\rm D}$	0.14060	0.14063 ± 0.00051
$\boldsymbol{\Omega_{\rm c}h^2}$	0.12007	0.1203 ± 0.0020	$\Omega_{\rm m}h^2$	0.14294	0.1432 ± 0.0019	$100\theta_{\rm D}$	0.160948	0.16097 ± 0.00026
$\boldsymbol{100\theta_{\rm MC}}$	1.040845	1.04080 ± 0.00045	$\Omega_{\rm m}h^3$	0.09726	0.0975 ± 0.0021	$z_{\rm eq}$	3400.3	3406 ± 46
$\boldsymbol{\tau}$	0.0760	0.074 ± 0.019	σ_8	0.8398	0.841 ± 0.021	$k_{\rm eq}$	0.010378	0.01040 ± 0.00014
$\boldsymbol{w}$	-0.948	-0.93 ± 0.11	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4666	0.467 ± 0.012	$100\theta_{\rm eq}$	0.8132	0.8121 ± 0.0085
$\boldsymbol{w_a}$	-0.311	$-0.41^{+0.50}_{-0.39}$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6260	0.627 ± 0.015	$100\theta_{\rm s,eq}$	0.44942	0.4489 ± 0.0044
$\boldsymbol{\ln(10^{10}A_{\rm s})}$	3.0869	3.084 ± 0.037	$\sigma_8/h^{0.5}$	1.0181	1.019 ± 0.022	$r_{\rm drag}/D_{\rm V}(0.57)$	0.071967	0.07197 ± 0.00050
$\boldsymbol{n_{\rm s}}$	0.9652	0.9641 ± 0.0057	$\langle d^2\rangle^{1/2}$	2.5123	2.515 ± 0.050	$H(0.57)$	93.27	93.21 ± 0.57
$\boldsymbol{y_{\rm cal}}$	1.00035	1.0003 ± 0.0025	$z_{\rm re}$	9.80	$9.56^{+1.9}_{-1.6}$	$D_{\rm A}(0.57)$	1377.0	1376 ± 12
$\boldsymbol{\alpha_{JLA}}$	0.1411	0.1411 ± 0.0066	$10^9A_{\rm s}$	2.191	2.186 ± 0.080	$F_{\rm AP}(0.57)$	0.67258	0.6717 ± 0.0049
$\boldsymbol{\beta_{JLA}}$	3.098	3.102 ± 0.081	$10^9A_{\rm s}e^{-2\tau}$	1.8820	1.883 ± 0.013	$f\sigma_8(0.57)$	0.4893	0.491 ± 0.015
$\boldsymbol{A_{217}^{\rm CIB}}$	66.4	63.8 ± 6.6	D_{40}	1235.6	1238 ± 14	$\sigma_8(0.57)$	0.6257	0.626 ± 0.015
$\boldsymbol{\xi^{\rm tSZ\times CIB}}$	0.08	—	D_{220}	5715.3	5716 ± 41	f_{2000}^{143}	29.42	30.0 ± 2.9
$\boldsymbol{A_{143}^{\rm tSZ}}$	7.19	5.14 ± 1.9	D_{810}	2534.9	2535 ± 13	$f_{2000}^{143\times217}$	32.20	32.4 ± 2.1
$\boldsymbol{A_{100}^{\rm PS}}$	252.4	258 ± 28	D_{1420}	814.76	814.2 ± 5.0	f_{2000}^{217}	105.84	106.1 ± 2.0
$\boldsymbol{A_{143}^{\rm PS}}$	39.5	44 ± 8	D_{2000}	230.49	230.2 ± 1.8	$\chi^2_{\rm lowTEB}$	10496.29	10497.3 ± 2.1
$\boldsymbol{A_{143\times217}^{PS}}$	34.7	39 ± 10	$n_{\rm s,0.002}$	0.9652	0.9641 ± 0.0057	$\chi^2_{\rm plik}$	763.1	776.8 ± 5.6
$\boldsymbol{A_{217}^{\rm PS}}$	98.5	98 ± 10	$Y_{\rm P}$	0.245328	0.245315 ± 0.000099	$\chi^2_{\rm H070p6}$	0.560	0.62 ± 0.45
$\boldsymbol{A^{\rm kSZ}}$	0.00	< 4.51	$Y_{\rm P}^{\rm BBN}$	0.246655	0.246641 ± 0.000099	$\chi^2_{\rm JLA}$	695.04	698.0 ± 2.4
$\boldsymbol{A_{100}^{{\rm dust}TT}}$	7.39	7.43 ± 1.9	10^5D/H	2.6189	2.624 ± 0.041	$\chi^2_{\rm 6DF}$	0.0000	0.071 ± 0.099
$\boldsymbol{A_{143}^{{\rm dust}TT}}$	9.04	8.99 ± 1.8	Age/Gyr	13.7716	$13.771^{+0.035}_{-0.040}$	$\chi^2_{\rm MGS}$	1.75	1.91 ± 0.78
$\boldsymbol{A_{143\times217}^{{\rm dust}TT}}$	17.63	17.1 ± 4.2	z_*	1090.109	1090.17 ± 0.39	$\chi^2_{\rm DR11CMASS}$	2.68	3.41 ± 1.1
$\boldsymbol{A_{217}^{{\rm dust}TT}}$	82.0	81.8 ± 7.4	r_*	144.525	144.48 ± 0.46	$\chi^2_{\rm DR11LOWZ}$	0.199	0.37 ± 0.47
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00078	$100\theta_*$	1.041047	1.04100 ± 0.00045	$\chi^2_{\rm prior}$	2.04	7.27 ± 3.5
$\boldsymbol{c_{217}}$	0.99589	0.9959 ± 0.0015	$D_{\rm A}$/Gpc	13.8827	13.879 ± 0.043	$\chi^2_{\rm CMB}$	11259.4	11274.1 ± 5.5
H_0	68.04	68.1 ± 1.1	$z_{\rm drag}$	1059.589	1059.57 ± 0.45	$\chi^2_{\rm BAO}$	4.63	5.76 ± 1.7
Ω_Λ	0.6913	0.691 ± 0.010	$r_{\rm drag}$	147.237	147.19 ± 0.46			

Best-fit $\chi^2_{\rm eff} = 11961.65$; $\bar{\chi}^2_{\rm eff} = 11985.69$; $R-1 = 0.00884$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.75 DR11CMASS: 2.68 DR11LOWZ: 0.20 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.29 plik_dx11dr2_HM_v18_TT: 763.10

22.6 base_w_wa_plikHM_TT_lowTEB_BAO_H070p6_JLA_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022279	0.02223 ± 0.00022	Ω_m	0.3066	0.307 ± 0.010	k_D	0.140294	0.14029 ± 0.00046
$\boldsymbol{\Omega_c h^2}$	0.11859	0.1189 ± 0.0018	$\Omega_m h^2$	0.14151	0.1418 ± 0.0017	$100\theta_D$	0.160946	0.16100 ± 0.00026
$\boldsymbol{100\theta_{MC}}$	1.041017	1.04096 ± 0.00044	$\Omega_m h^3$	0.09613	0.0964 ± 0.0020	z_{eq}	3366.2	3373 ± 41
$\boldsymbol{\tau}$	0.0651	0.062 ± 0.018	σ_8	0.8166	0.817 ± 0.014	k_{eq}	0.010274	0.01030 ± 0.00013
$\boldsymbol{w}$	-0.974	-0.96 ± 0.11	$\sigma_8\Omega_m^{0.5}$	0.4522	0.4529 ± 0.0074	$100\theta_{eq}$	0.8196	0.8182 ± 0.0079
$\boldsymbol{w_a}$	-0.111	$-0.19^{+0.45}_{-0.34}$	$\sigma_8\Omega_m^{0.25}$	0.6077	0.6084 ± 0.0087	$100\theta_{s,eq}$	0.45275	0.4520 ± 0.0041
$\boldsymbol{\ln(10^{10}A_s)}$	3.0611	3.056 ± 0.032	$\sigma_8/h^{0.5}$	0.9908	0.991 ± 0.013	$r_{drag}/D_V(0.57)$	0.07200	0.07200 ± 0.00051
$\boldsymbol{n_s}$	0.9681	0.9667 ± 0.0057	$\langle d^2\rangle^{1/2}$	2.4498	2.451 ± 0.027	$H(0.57)$	93.26	93.20 ± 0.60
$\boldsymbol{y_{cal}}$	1.00019	1.0002 ± 0.0025	z_{re}	8.74	$8.37^{+1.9}_{-1.5}$	$D_A(0.57)$	1380.5	1380 ± 12
$\boldsymbol{\alpha_{JLA}}$	0.1412	0.1411 ± 0.0066	$10^9 A_s$	2.135	2.125 ± 0.068	$F_{AP}(0.57)$	0.67422	0.6734 ± 0.0047
$\boldsymbol{\beta_{JLA}}$	3.101	3.103 ± 0.081	$10^9 A_s e^{-2\tau}$	1.8745	1.876 ± 0.012	$f\sigma_8(0.57)$	0.4734	0.475 ± 0.011
$\boldsymbol{A_{217}^{CIB}}$	67.3	64.7 ± 6.6	D_{40}	1224.5	1227 ± 12	$\sigma_8(0.57)$	0.6090	0.609 ± 0.010
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{220}	5717.4	5716 ± 40	f_{2000}^{143}	29.89	30.6 ± 2.9
$\boldsymbol{A_{143}^{tSZ}}$	7.20	5.04 ± 2.0	D_{810}	2533.3	2533 ± 14	$f_{2000}^{143\times217}$	32.47	32.9 ± 2.1
$\boldsymbol{A_{100}^{PS}}$	253.6	260 ± 28	D_{1420}	815.3	814.4 ± 5.1	f_{2000}^{217}	106.03	106.4 ± 2.0
$\boldsymbol{A_{143}^{PS}}$	39.0	44 ± 8	D_{2000}	230.31	229.9 ± 1.8	$\chi^2_{lensing}$	9.31	10.1 ± 1.7
$\boldsymbol{A_{143\times217}^{PS}}$	32.6	39^{+9}_{-10}	$n_{s,0.002}$	0.9681	0.9667 ± 0.0057	χ^2_{lowTEB}	10494.81	10495.7 ± 1.3
$\boldsymbol{A_{217}^{PS}}$	97.2	96 ± 10	Y_P	0.245353	0.24533 ± 0.00010	χ^2_{plik}	766.2	779.2 ± 7.5
$\boldsymbol{A^{kSZ}}$	0.02	< 5.07	Y_P^{BBN}	0.246679	0.24665 ± 0.00010	χ^2_{H070p6}	0.629	0.70 ± 0.48
$\boldsymbol{A_{100}^{dustTT}}$	7.51	7.45 ± 1.9	10^5D/H	2.6086	2.619 ± 0.042	χ^2_{JLA}	695.13	698.1 ± 2.4
$\boldsymbol{A_{143}^{dustTT}}$	9.04	9.05 ± 1.8	Age/Gyr	13.7850	13.787 ± 0.038	χ^2_{6DF}	0.0003	0.073 ± 0.097
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.47	17.1 ± 4.2	z_*	1089.910	1090.01 ± 0.39	χ^2_{MGS}	1.68	1.83 ± 0.78
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.6 ± 7.3	r_*	144.868	144.82 ± 0.41	$\chi^2_{DR11CMASS}$	2.50	3.25 ± 1.1
$\boldsymbol{c_{100}}$	0.99795	0.99788 ± 0.00077	$100\theta_*$	1.041214	1.04116 ± 0.00043	$\chi^2_{DR11LOWZ}$	0.239	0.42 ± 0.50
$\boldsymbol{c_{217}}$	0.99596	0.9960 ± 0.0015	D_A/Gpc	13.9134	13.909 ± 0.039	χ^2_{prior}	2.04	7.47 ± 3.6
H_0	67.93	68.0 ± 1.1	z_{drag}	1059.628	1059.52 ± 0.45	χ^2_{CMB}	11270.3	11285.0 ± 7.6
Ω_Λ	0.6934	0.693 ± 0.010	r_{drag}	147.568	147.54 ± 0.42	χ^2_{BAO}	4.42	5.56 ± 1.7

Best-fit $\chi^2_{eff} = 11972.55$; $\bar{\chi}^2_{eff} = 11996.80$; $R - 1 = 0.02467$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.68 DR11CMASS: 2.50 DR11LOWZ: 0.24 CMB - smica_g30_ftl_full_pp: 9.31 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.81 plik_dx11dr2_HM_v18_TT: 766.21 Hubble - H070p6: 0.63 SN - JLA December_2013: 695.13

22.7 base_w_wa_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022262	0.02224 ± 0.00015	$\boldsymbol{A^{dust\,TE}_{100\times217}}$	0.305	0.304 ± 0.085	$100\theta_*$	1.040957	1.04093 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.11980	0.1201 ± 0.0014	$\boldsymbol{A^{dust\,TE}_{143}}$	0.153	0.156 ± 0.054	D_A/Gpc	13.8877	13.882 ± 0.029
$\boldsymbol{100\theta_{MC}}$	1.040757	1.04073 ± 0.00032	$\boldsymbol{A^{dust\,TE}_{143\times217}}$	0.334	0.340 ± 0.080	z_{drag}	1059.666	1059.63 ± 0.30
$\boldsymbol{\tau}$	0.0798	0.077 ± 0.017	$\boldsymbol{A^{dust\,TE}_{217}}$	1.665	1.67 ± 0.25	r_{drag}	147.265	147.21 ± 0.31
$\boldsymbol{w}$	-0.953	-0.94 ± 0.11	$\boldsymbol{c_{100}}$	0.99815	0.99817 ± 0.00077	k_D	0.140601	0.14064 ± 0.00033
$\boldsymbol{w_a}$	-0.277	$-0.38^{+0.45}_{-0.36}$	$\boldsymbol{c_{217}}$	0.99587	0.9960 ± 0.0014	$100\theta_D$	0.160891	0.16091 ± 0.00018
$\boldsymbol{\ln(10^{10}A_s)}$	3.0945	3.089 ± 0.033	H_0	68.06	68.1 ± 1.1	z_{eq}	3394.9	3402 ± 31
$\boldsymbol{n_s}$	0.96496	0.9637 ± 0.0046	Ω_Λ	0.6919	0.6913 ± 0.0096	k_{eq}	0.010361	0.010383 ± 0.000096
$\boldsymbol{y_{cal}}$	1.00030	1.0004 ± 0.0025	Ω_m	0.3081	0.3087 ± 0.0096	$100\theta_{eq}$	0.8142	0.8129 ± 0.0059
$\boldsymbol{\alpha_{JLA}}$	0.1411	0.1412 ± 0.0066	$\Omega_m h^2$	0.14271	0.1430 ± 0.0013	$100\theta_{s,eq}$	0.44992	0.4493 ± 0.0030
$\boldsymbol{\beta_{JLA}}$	3.102	3.101 ± 0.082	$\Omega_m h^3$	0.09713	0.0974 ± 0.0018	$r_{drag}/D_V(0.57)$	0.071968	0.07199 ± 0.00050
$\boldsymbol{A^{CIB}_{217}}$	66.0	63.8 ± 6.6	σ_8	0.8408	0.841 ± 0.017	$H(0.57)$	93.26	93.26 ± 0.55
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.16	—	$\sigma_8\Omega_m^{0.5}$	0.4667	0.4673 ± 0.0090	$D_A(0.57)$	1377.4	1376 ± 12
$\boldsymbol{A^{tSZ}_{143}}$	7.18	5.34 ± 1.9	$\sigma_8\Omega_m^{0.25}$	0.6264	0.627 ± 0.011	$F_{AP}(0.57)$	0.67271	$0.6719^{+0.0050}_{-0.0045}$
$\boldsymbol{A^{PS}_{100}}$	252.8	260 ± 27	$\sigma_8/h^{0.5}$	1.0192	1.020 ± 0.018	$f\sigma_8(0.57)$	0.4896	0.491 ± 0.012
$\boldsymbol{A^{PS}_{143}}$	40.3	43 ± 8	$\langle d^2\rangle^{1/2}$	2.5185	2.520 ± 0.041	$\sigma_8(0.57)$	0.6265	0.627 ± 0.013
$\boldsymbol{A^{PS}_{143\times217}}$	37.2	40 ± 10	z_{re}	10.13	$9.80^{+1.7}_{-1.5}$	f^{143}_{2000}	29.06	29.5 ± 2.7
$\boldsymbol{A^{PS}_{217}}$	99.3	98 ± 10	$10^9 A_s$	2.208	2.198 ± 0.073	$f^{143\times217}_{2000}$	32.04	32.2 ± 1.9
$\boldsymbol{A^{kSZ}}$	0.00	< 4.07	$10^9 A_s e^{-2\tau}$	1.8820	1.884 ± 0.012	f^{217}_{2000}	105.63	105.8 ± 1.9
$\boldsymbol{A^{dust\,TT}_{100}}$	7.38	7.39 ± 1.9	D_{40}	1239.1	1242 ± 13	χ^2_{lowTEB}	10496.89	10497.6 ± 2.0
$\boldsymbol{A^{dust\,TT}_{143}}$	8.93	8.90 ± 1.8	D_{220}	5726.7	5729 ± 39	χ^2_{plik}	2431.1	2450.2 ± 6.7
$\boldsymbol{A^{dust\,TT}_{143\times217}}$	17.39	16.9 ± 4.1	D_{810}	2535.3	2536 ± 13	χ^2_{H070p6}	0.557	0.62 ± 0.43
$\boldsymbol{A^{dust\,TT}_{217}}$	81.7	81.6 ± 7.4	D_{1420}	814.74	814.4 ± 4.7	χ^2_{JLA}	695.04	698.0 ± 2.4
$\boldsymbol{A^{dust\,EE}_{100}}$	0.0813	0.0811 ± 0.0056	D_{2000}	230.55	230.4 ± 1.6	χ^2_{6DF}	0.0000	0.07 ± 0.10
$\boldsymbol{A^{dust\,EE}_{100\times143}}$	0.04883	0.0486 ± 0.0050	$n_{s,0.002}$	0.96496	0.9637 ± 0.0046	χ^2_{MGS}	1.75	1.91 ± 0.79
$\boldsymbol{A^{dust\,EE}_{100\times217}}$	0.0997	0.099 ± 0.033	Y_P	0.245345	0.245331 ± 0.000069	$\chi^2_{DR11CMASS}$	2.66	3.40 ± 1.2
$\boldsymbol{A^{dust\,EE}_{143}}$	0.1002	0.0999 ± 0.0069	Y_P^{BBN}	0.246671	0.246657 ± 0.000069	$\chi^2_{DR11LOWZ}$	0.204	0.37 ± 0.46
$\boldsymbol{A^{dust\,EE}_{143\times217}}$	0.2229	0.223 ± 0.046	10^5D/H	2.6118	2.617 ± 0.029	χ^2_{prior}	6.99	19.2 ± 5.5
$\boldsymbol{A^{dust\,EE}_{217}}$	0.648	0.65 ± 0.13	Age/Gyr	13.7733	13.771 ± 0.033	χ^2_{CMB}	12928.0	12947.7 ± 6.6
$\boldsymbol{A^{dust\,TE}_{100}}$	0.1414	0.141 ± 0.038	z_*	1090.039	1090.10 ± 0.28	χ^2_{BAO}	4.61	5.76 ± 1.8
$\boldsymbol{A^{dust\,TE}_{100\times143}}$	0.1309	0.131 ± 0.029	r_*	144.565	144.50 ± 0.31			

Best-fit $\chi^2_{eff} = 13635.20$; $\bar{\chi}^2_{eff} = 13671.28$; $R - 1 = 0.01182$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.75 DR11CMASS: 2.66 DR11LOWZ: 0.20 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.89 plik_dx11dr2_HM_v18_TTTEEE: 2431.11 Hubble - H070p6: 0.56 SN - JLA December_2013: 695.04

22.8 base_w_wa_plikHM_TTTEEE_lowTEB_BAO_H070p6_JLA_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022269	0.02225 ± 0.00015	$\boldsymbol{A^{dust TE}_{100\times217}}$	0.303	0.303 ± 0.085	$100\theta_*$	1.041069	1.04104 ± 0.00031
$\boldsymbol{\Omega_c h^2}$	0.11916	0.1194 ± 0.0014	$\boldsymbol{A^{dust TE}_{143}}$	0.156	0.156 ± 0.054	D_A/Gpc	13.9016	13.896 ± 0.028
$\boldsymbol{100\theta_{MC}}$	1.040870	1.04084 ± 0.00032	$\boldsymbol{A^{dust TE}_{143\times217}}$	0.340	0.336 ± 0.079	z_{drag}	1059.628	1059.62 ± 0.30
$\boldsymbol{\tau}$	0.0625	0.060 ± 0.015	$\boldsymbol{A^{dust TE}_{217}}$	1.667	1.66 ± 0.25	r_{drag}	147.427	$147.37^{+0.32}_{-0.29}$
$\boldsymbol{w}$	-0.976	$-0.95^{+0.10}_{-0.12}$	$\boldsymbol{c_{100}}$	0.99817	0.99813 ± 0.00077	k_D	0.140438	0.14048 ± 0.00031
$\boldsymbol{w_a}$	-0.139	$-0.25^{+0.45}_{-0.33}$	$\boldsymbol{c_{217}}$	0.99605	0.9961 ± 0.0015	$100\theta_D$	0.160917	0.16093 ± 0.00018
$\boldsymbol{\ln(10^{10}A_s)}$	3.0574	3.053 ± 0.027	H_0	67.94	$67.96^{+0.97}_{-1.1}$	z_{eq}	3379.8	3386 ± 30
$\boldsymbol{n_s}$	0.96599	0.9649 ± 0.0046	Ω_Λ	0.6922	0.6916 ± 0.0094	k_{eq}	0.010315	0.010335 ± 0.000093
$\boldsymbol{y_{cal}}$	1.00003	1.0002 ± 0.0024	Ω_m	0.3078	0.3084 ± 0.0094	$100\theta_{eq}$	0.8170	0.8158 ± 0.0058
$\boldsymbol{\alpha_{JLA}}$	0.1411	0.1415 ± 0.0064	$\Omega_m h^2$	0.14208	0.1423 ± 0.0013	$100\theta_{s,eq}$	0.45139	0.4508 ± 0.0030
$\boldsymbol{\beta_{JLA}}$	3.098	3.102 ± 0.082	$\Omega_m h^3$	0.09652	0.0967 ± 0.0018	$r_{drag}/D_V(0.57)$	0.07190	0.07196 ± 0.00052
$\boldsymbol{A^{CIB}_{217}}$	67.9	65.2 ± 6.4	σ_8	0.8190	0.820 ± 0.013	$H(0.57)$	93.18	93.23 ± 0.57
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\sigma_8\Omega_m^{0.5}$	0.4544	0.4551 ± 0.0061	$D_A(0.57)$	1381.0	1379 ± 12
$\boldsymbol{A^{tSZ}_{143}}$	7.28	5.22 ± 1.9	$\sigma_8\Omega_m^{0.25}$	0.6101	0.6108 ± 0.0074	$F_{AP}(0.57)$	0.67392	$0.6732^{+0.0050}_{-0.0042}$
$\boldsymbol{A^{PS}_{100}}$	257.8	263 ± 27	$\sigma_8/h^{0.5}$	0.9937	0.994 ± 0.011	$f\sigma_8(0.57)$	0.4760	0.4768 ± 0.0097
$\boldsymbol{A^{PS}_{143}}$	38.7	44 ± 7	$\langle d^2\rangle^{1/2}$	2.4578	2.460 ± 0.025	$\sigma_8(0.57)$	0.6103	$0.6109^{+0.0094}_{-0.011}$
$\boldsymbol{A^{PS}_{143\times217}}$	32.5	39^{+10}_{-10}	z_{re}	8.50	$8.19^{+1.6}_{-1.3}$	f^{143}_{2000}	29.85	30.1 ± 2.5
$\boldsymbol{A^{PS}_{217}}$	96.5	96 ± 10	$10^9 A_s$	2.127	2.120 ± 0.057	$f^{143\times217}_{2000}$	32.56	32.7 ± 1.8
$\boldsymbol{A^{kSZ}}$	0.00	< 4.59	$10^9 A_s e^{-2\tau}$	1.8771	$1.879^{+0.012}_{-0.011}$	f^{217}_{2000}	106.08	106.2 ± 1.8
$\boldsymbol{A^{dust TT}_{100}}$	7.60	7.45 ± 1.8	D_{40}	1228.7	1232 ± 11	$\chi^2_{lensing}$	9.89	10.7 ± 2.0
$\boldsymbol{A^{dust TT}_{143}}$	9.11	$9.03^{+2.0}_{-1.7}$	D_{220}	5722.0	5727 ± 38	χ^2_{lowTEB}	10495.18	10495.9 ± 1.1
$\boldsymbol{A^{dust TT}_{143\times217}}$	17.64	17.2 ± 4.2	D_{810}	2533.4	2535 ± 13	χ^2_{plik}	2434.8	2453.2 ± 6.6
$\boldsymbol{A^{dust TT}_{217}}$	81.7	81.4 ± 7.4	D_{1420}	814.68	814.7 ± 4.6	χ^2_{H070p6}	0.628	0.69 ± 0.45
$\boldsymbol{A^{dust EE}_{100}}$	0.0814	0.0811 ± 0.0055	D_{2000}	230.08	$230.0^{+1.6}_{-1.5}$	χ^2_{JLA}	695.11	698.0 ± 2.3
$\boldsymbol{A^{dust EE}_{100\times143}}$	0.04890	0.0490 ± 0.0050	$n_{s,0.002}$	0.96599	0.9649 ± 0.0046	χ^2_{6DF}	0.0015	0.07 ± 0.10
$\boldsymbol{A^{dust EE}_{100\times217}}$	0.0994	0.099 ± 0.033	Y_P	0.245348	$0.245338^{+0.000074}_{-0.000067}$	χ^2_{MGS}	1.61	1.78 ± 0.76
$\boldsymbol{A^{dust EE}_{143}}$	0.1004	0.1001 ± 0.0071	Y_P^{BBN}	0.246675	$0.246664^{+0.000075}_{-0.000067}$	$\chi^2_{DR11CMASS}$	2.51	3.26 ± 1.1
$\boldsymbol{A^{dust EE}_{143\times217}}$	0.2231	0.223 ± 0.048	10^5D/H	2.6104	2.614 ± 0.029	$\chi^2_{DR11LOWZ}$	0.301	0.44 ± 0.52
$\boldsymbol{A^{dust EE}_{217}}$	0.646	0.66 ± 0.13	Age/Gyr	13.7852	13.781 ± 0.033	χ^2_{prior}	7.15	19.2 ± 5.6
$\boldsymbol{A^{dust TE}_{100}}$	0.1406	$0.141^{+0.037}_{-0.041}$	z_*	1089.975	1090.02 ± 0.28	χ^2_{CMB}	12939.9	12959.8 ± 6.6
$\boldsymbol{A^{dust TE}_{100\times143}}$	0.1323	0.132 ± 0.029	r_*	144.725	144.67 ± 0.30	χ^2_{BAO}	4.42	5.56 ± 1.7

Best-fit $\chi^2_{eff} = 13647.22$; $\bar{\chi}^2_{eff} = 13683.14$; $R - 1 = 0.04505$

$\chi^2_{\rm eff}$: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.51 DR11LOWZ: 0.30 CMB - smica_g30_ftl_full_pp: 9.89 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.18 plik_dx11dr2_HM_v18_TTT
2434.83 Hubble - H070p6: 0.63 SN - JLA December_2013: 695.11

23 yhe

23.1 base_yhe_plikHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022256	0.02231 ± 0.00034	Ω_Λ	0.6856	0.688 ± 0.016	$100\theta_*$	1.04108	1.04114 ± 0.00052
$\boldsymbol{\Omega_c h^2}$	0.11974	0.1194 ± 0.0024	Ω_m	0.3144	0.312 ± 0.016	D_A/Gpc	13.8871	13.890 ± 0.045
$\boldsymbol{100\theta_{MC}}$	1.04095	1.04112 ± 0.00095	$\Omega_m h^2$	0.14264	0.1424 ± 0.0022	z_{drag}	1059.74	1060.0 ± 1.3
$\boldsymbol{\tau}$	0.0773	0.081 ± 0.021	$\Omega_m h^3$	0.09609	0.09620 ± 0.00082	r_{drag}	147.278	147.30 ± 0.49
$\boldsymbol{Y_P}$	0.2478	0.252 ± 0.021	σ_8	0.8299	0.832 ± 0.017	k_D	0.14048	0.14033 ± 0.00077
$\boldsymbol{\ln(10^{10} A_s)}$	3.0895	3.096 ± 0.043	$\sigma_8 \Omega_m^{0.5}$	0.4653	0.465 ± 0.013	$100\theta_D$	0.16103	0.16119 ± 0.00077
$\boldsymbol{n_s}$	0.9666	0.969 ± 0.012	$\sigma_8 \Omega_m^{0.25}$	0.6214	0.622 ± 0.013	z_{eq}	3393	3387 ± 51
$\boldsymbol{y_{cal}}$	1.00039	1.0004 ± 0.0025	$\sigma_8/h^{0.5}$	1.0111	1.012 ± 0.020	k_{eq}	0.010357	0.01034 ± 0.00016
$\boldsymbol{A_{217}^{CIB}}$	67.2	64.4 ± 6.9	$\langle d^2 \rangle^{1/2}$	2.4957	2.495 ± 0.047	$100\theta_{eq}$	0.8146	0.816 ± 0.010
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.01	—	z_{re}	9.93	$10.1^{+2.1}_{-1.8}$	$100\theta_{s,eq}$	0.4501	0.4509 ± 0.0052
$\boldsymbol{A_{143}^{tSZ}}$	7.15	4.99 ± 2.0	$10^9 A_s$	2.197	$2.213^{+0.088}_{-0.10}$	$r_{drag}/D_V(0.57)$	0.07142	0.07158 ± 0.00088
$\boldsymbol{A_{100}^{PS}}$	253.7	260 ± 29	$10^9 A_s e^{-2\tau}$	1.8819	1.882 ± 0.015	$H(0.57)$	92.92	$93.04^{+0.61}_{-0.69}$
$\boldsymbol{A_{143}^{PS}}$	39.2	45 ± 9	D_{40}	1234.6	1233 ± 21	$D_A(0.57)$	1390.8	1388 ± 18
$\boldsymbol{A_{143\times217}^{PS}}$	33.0	39^{+10}_{-10}	D_{220}	5717.9	5719 ± 41	$F_{AP}(0.57)$	0.67676	0.6761 ± 0.0040
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	D_{810}	2535.3	2535 ± 14	$f\sigma_8(0.57)$	0.4832	0.4838 ± 0.0097
$\boldsymbol{A^{kSZ}}$	0.00	< 4.87	D_{1420}	814.7	814.1 ± 5.2	$\sigma_8(0.57)$	0.6167	0.619 ± 0.014
$\boldsymbol{A_{100}^{dustTT}}$	7.46	7.45 ± 1.9	D_{2000}	230.24	229.9 ± 2.4	f_{2000}^{143}	29.88	31 ± 4
$\boldsymbol{A_{143}^{dustTT}}$	8.97	9.04 ± 1.9	$n_{s,0.002}$	0.9666	0.969 ± 0.012	$f_{2000}^{143\times217}$	32.54	33.0 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.51	17.1 ± 4.2	Y_P	0.2478	0.252 ± 0.021	f_{2000}^{217}	106.23	106.5 ± 2.6
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.7 ± 7.4	Y_P^{BBN}	0.2491	0.253 ± 0.021	χ^2_{lowTEB}	10496.23	10497.3 ± 2.7
$\boldsymbol{c_{100}}$	0.99793	0.99787 ± 0.00077	Age/Gyr	13.807	13.795 ± 0.066	χ^2_{plik}	763.6	778.1 ± 5.9
$\boldsymbol{c_{217}}$	0.99598	0.9960 ± 0.0015	z_*	1090.14	1090.22 ± 0.64	χ^2_{prior}	2.06	7.39 ± 3.6
H_0	67.36	67.6 ± 1.3	r_*	144.576	144.61 ± 0.48	χ^2_{CMB}	11259.9	11275.5 ± 5.7

Best-fit $\chi^2_{eff} = 11261.91$; $\bar{\chi}^2_{eff} = 11282.84$; $R - 1 = 0.00920$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.23 plik_dx11dr2_HM_v18_TT: 763.62

23.2 base_yhe_plikHM_TT_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022346	0.02235 ± 0.00026	$\Omega_m h^2$	0.14199	0.1420 ± 0.0012	k_D	0.14023	0.14021 ± 0.00059
$\boldsymbol{\Omega_c h^2}$	0.11900	0.1190 ± 0.0013	$\Omega_m h^3$	0.09624	0.09627 ± 0.00076	$100\theta_D$	0.16123	0.16125 ± 0.00073
$\boldsymbol{100\theta_{MC}}$	1.04120	1.04124 ± 0.00075	σ_8	0.8321	0.833 ± 0.017	z_{eq}	3377.7	3378 ± 29
$\boldsymbol{\tau}$	0.0819	0.083 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.4626	0.463 ± 0.010	k_{eq}	0.010309	0.010309 ± 0.000090
$\boldsymbol{Y_P}$	0.2537	0.254 ± 0.019	$\sigma_8\Omega_m^{0.25}$	0.6204	0.621 ± 0.013	$100\theta_{eq}$	0.8179	0.8179 ± 0.0054
$\boldsymbol{\ln(10^{10}A_s)}$	3.0981	3.100 ± 0.038	$\sigma_8/h^{0.5}$	1.0107	1.011 ± 0.020	$100\theta_{s,eq}$	0.45178	0.4518 ± 0.0028
$\boldsymbol{n_s}$	0.9709	0.9707 ± 0.0087	$\langle d^2\rangle^{1/2}$	2.4888	2.492 ± 0.044	$r_{drag}/D_V(0.57)$	0.071712	0.07173 ± 0.00044
$\boldsymbol{y_{cal}}$	1.00030	1.0005 ± 0.0025	z_{re}	10.34	$10.3^{+1.8}_{-1.6}$	$H(0.57)$	93.120	93.14 ± 0.39
$\boldsymbol{A_{217}^{CIB}}$	67.7	64.6 ± 6.8	$10^9 A_s$	2.215	2.221 ± 0.085	$D_A(0.57)$	1385.0	1384.7 ± 9.4
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s e^{-2\tau}$	1.8806	1.882 ± 0.015	$F_{AP}(0.57)$	0.67541	0.6754 ± 0.0020
$\boldsymbol{A_{143}^{tSZ}}$	7.12	4.98 ± 2.0	D_{40}	1227.6	1230 ± 17	$f\sigma_8(0.57)$	0.4831	0.4835 ± 0.0097
$\boldsymbol{A_{100}^{PS}}$	257.1	261 ± 29	D_{220}	5716.2	5721 ± 41	$\sigma_8(0.57)$	0.6196	0.620 ± 0.013
$\boldsymbol{A_{143}^{PS}}$	40.5	45 ± 9	D_{810}	2534.7	2535 ± 14	f_{2000}^{143}	30.53	31 ± 4
$\boldsymbol{A_{143\times217}^{PS}}$	33.5	39^{+10}_{-10}	D_{1420}	814.2	814.2 ± 5.2	$f_{2000}^{143\times217}$	32.98	33.1 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	97.6	97 ± 10	D_{2000}	229.85	229.8 ± 2.4	f_{2000}^{217}	106.48	106.7 ± 2.6
$\boldsymbol{A^{kSZ}}$	0.00	< 4.96	$n_{s,0.002}$	0.9709	0.9707 ± 0.0087	χ^2_{lowTEB}	10495.83	10496.9 ± 2.6
$\boldsymbol{A_{100}^{dustTT}}$	7.41	7.47 ± 1.9	Y_P	0.2537	0.254 ± 0.019	χ^2_{plik}	764.2	777.9 ± 5.9
$\boldsymbol{A_{143}^{dustTT}}$	9.10	9.05 ± 1.9	Y_P^{BBN}	0.2551	0.255 ± 0.019	χ^2_{6DF}	0.0153	0.058 ± 0.079
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.66	17.2 ± 4.2	Age/Gyr	13.7872	13.785 ± 0.045	χ^2_{MGS}	1.34	1.44 ± 0.58
$\boldsymbol{A_{217}^{dustTT}}$	81.8	$81.7^{+8.0}_{-7.2}$	z_*	1090.20	1090.22 ± 0.64	$\chi^2_{DR11CMASS}$	2.425	2.91 ± 0.71
$\boldsymbol{c_{100}}$	0.99793	0.99788 ± 0.00078	r_*	144.679	144.68 ± 0.37	$\chi^2_{DR11LOWZ}$	0.543	0.68 ± 0.60
$\boldsymbol{c_{217}}$	0.99595	0.9960 ± 0.0015	$100\theta_*$	1.041170	1.04120 ± 0.00043	χ^2_{prior}	1.99	7.50 ± 3.6
H_0	67.78	67.80 ± 0.66	D_A/Gpc	13.8958	13.895 ± 0.037	χ^2_{CMB}	11260.0	11274.8 ± 5.5
Ω_Λ	0.6909	0.6910 ± 0.0080	z_{drag}	1060.09	1060.1 ± 1.1	χ^2_{BAO}	4.33	5.08 ± 1.1
Ω_m	0.3091	0.3090 ± 0.0080	r_{drag}	147.358	147.36 ± 0.42			

Best-fit $\chi^2_{eff} = 11266.31$; $\bar{\chi}^2_{eff} = 11287.38$; $R - 1 = 0.01718$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.34 DR11CMASS: 2.42 DR11LOWZ: 0.54 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.83 plik_dx11dr2_HM_v18_TT: 764.16

23.3 base_yhe_plikHM_TT_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022332	0.02236 ± 0.00032	Ω_m	0.3104	0.309 ± 0.014	z_{drag}	1059.97	1060.1 ± 1.3
$\boldsymbol{\Omega_c h^2}$	0.11919	0.1190 ± 0.0021	$\Omega_m h^2$	0.14216	0.1420 ± 0.0020	r_{drag}	147.333	147.35 ± 0.47
$\boldsymbol{100\theta_{MC}}$	1.04112	1.04125 ± 0.00090	$\Omega_m h^3$	0.09621	0.09628 ± 0.00081	k_D	0.14035	0.14022 ± 0.00073
$\boldsymbol{\tau}$	0.0818	0.083 ± 0.021	σ_8	0.8321	$0.833^{+0.016}_{-0.018}$	$100\theta_D$	0.16111	0.16125 ± 0.00076
$\boldsymbol{Y_P}$	0.2511	0.254 ± 0.021	$\sigma_8\Omega_m^{0.5}$	0.4636	0.463 ± 0.013	z_{eq}	3381.8	3377 ± 47
$\boldsymbol{\ln(10^{10}A_s)}$	3.0977	3.100 ± 0.042	$\sigma_8\Omega_m^{0.25}$	0.6211	0.621 ± 0.013	k_{eq}	0.010322	0.01031 ± 0.00014
$\boldsymbol{n_s}$	0.9695	0.971 ± 0.012	$\sigma_8/h^{0.5}$	1.0115	1.011 ± 0.020	$100\theta_{eq}$	0.8170	0.8181 ± 0.0093
$\boldsymbol{y_{cal}}$	1.00032	1.0004 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4935	2.491 ± 0.046	$100\theta_{s,eq}$	0.45135	0.4519 ± 0.0047
$\boldsymbol{A_{217}^{CIB}}$	67.3	64.6 ± 6.8	z_{re}	10.33	$10.3^{+2.0}_{-1.8}$	$r_{drag}/D_V(0.57)$	0.07164	0.07174 ± 0.00080
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.215	$2.223^{+0.088}_{-0.10}$	$H(0.57)$	93.07	93.16 ± 0.59
$\boldsymbol{A_{143}^{tSZ}}$	7.24	4.98 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8805	1.882 ± 0.015	$D_A(0.57)$	1386.5	1384 ± 16
$\boldsymbol{A_{100}^{PS}}$	252.5	260 ± 29	D_{40}	1230.5	1230 ± 20	$F_{AP}(0.57)$	0.67576	0.6754 ± 0.0036
$\boldsymbol{A_{143}^{PS}}$	39.2	45 ± 9	D_{220}	5717.9	5721 ± 41	$f\sigma_8(0.57)$	0.4835	0.4835 ± 0.0097
$\boldsymbol{A_{143\times217}^{PS}}$	32.9	39^{+10}_{-10}	D_{810}	2534.8	2535 ± 14	$\sigma_8(0.57)$	0.6193	$0.620^{+0.013}_{-0.015}$
$\boldsymbol{A_{217}^{PS}}$	97.6	97 ± 10	D_{1420}	814.6	814.2 ± 5.2	f_{2000}^{143}	29.98	31 ± 4
$\boldsymbol{A^{kSZ}}$	0.01	< 4.97	D_{2000}	230.16	229.8 ± 2.4	$f_{2000}^{143\times217}$	32.59	33.1 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.52	7.48 ± 1.9	$n_{s,0.002}$	0.9695	0.971 ± 0.012	f_{2000}^{217}	106.22	106.6 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.06 ± 1.9	Y_P	0.2511	0.254 ± 0.021	χ^2_{lowTEB}	10496.12	10497.1 ± 2.7
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.70	17.2 ± 4.2	Y_P^{BBN}	0.2524	0.255 ± 0.021	χ^2_{plik}	763.7	778.2 ± 6.0
$\boldsymbol{A_{217}^{dustTT}}$	81.8	81.7 ± 7.4	Age/Gyr	13.792	13.784 ± 0.062	χ^2_{JLA}	706.718	706.85 ± 0.44
$\boldsymbol{c_{100}}$	0.99792	0.99788 ± 0.00078	z_*	1090.13	1090.22 ± 0.64	χ^2_{prior}	2.10	7.45 ± 3.6
$\boldsymbol{c_{217}}$	0.99591	0.9960 ± 0.0015	r_*	144.651	144.68 ± 0.46	χ^2_{CMB}	11259.8	11275.3 ± 5.6
H_0	67.67	67.8 ± 1.1	$100\theta_*$	1.04116	1.04120 ± 0.00050			
Ω_Λ	0.6896	0.691 ± 0.014	D_A/Gpc	13.8933	13.895 ± 0.043			

Best-fit $\chi^2_{eff} = 11968.66$; $\bar{\chi}^2_{eff} = 11989.60$; $R - 1 = 0.01367$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.12 plik_dx11dr2_HM_v18_TT: 763.71 SN - JLA December_2013: 706.72

23.4 base_yhe_plikHM_TT_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022298	0.02232 ± 0.00033	Ω_m	0.3063	0.306 ± 0.015	z_{drag}	1059.74	1059.9 ± 1.3
$\boldsymbol{\Omega_c h^2}$	0.11839	0.1183 ± 0.0022	$\Omega_m h^2$	0.14133	0.1413 ± 0.0020	r_{drag}	147.591	147.58 ± 0.46
$\boldsymbol{100\theta_{MC}}$	1.04113	1.04122 ± 0.00092	$\Omega_m h^3$	0.09601	0.09607 ± 0.00080	k_D	0.14019	0.14008 ± 0.00073
$\boldsymbol{\tau}$	0.0681	0.068 ± 0.018	σ_8	0.8169	$0.817^{+0.011}_{-0.013}$	$100\theta_D$	0.16104	0.16118 ± 0.00076
$\boldsymbol{Y_P}$	0.2476	0.251 ± 0.021	$\sigma_8\Omega_m^{0.5}$	0.4521	0.4517 ± 0.0090	z_{eq}	3362.0	3361 ± 48
$\boldsymbol{\ln(10^{10}A_s)}$	3.0671	$3.067^{+0.034}_{-0.037}$	$\sigma_8\Omega_m^{0.25}$	0.6077	0.6074 ± 0.0077	k_{eq}	0.010261	0.01026 ± 0.00015
$\boldsymbol{n_s}$	0.9694	0.970 ± 0.012	$\sigma_8/h^{0.5}$	0.9911	0.991 ± 0.011	$100\theta_{eq}$	0.8205	$0.8209^{+0.0092}_{-0.010}$
$\boldsymbol{y_{cal}}$	1.00013	1.0001 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4480	2.445 ± 0.028	$100\theta_{s,eq}$	0.45321	$0.4534^{+0.0047}_{-0.0052}$
$\boldsymbol{A_{217}^{CIB}}$	67.6	65.1 ± 6.8	z_{re}	9.04	8.95 ± 1.7	$r_{drag}/D_V(0.57)$	0.07188	$0.07193^{+0.00079}_{-0.00090}$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$10^9 A_s$	2.148	$2.150^{+0.070}_{-0.083}$	$H(0.57)$	93.13	$93.18^{+0.58}_{-0.69}$
$\boldsymbol{A_{143}^{tSZ}}$	7.18	4.93 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8742	1.875 ± 0.015	$D_A(0.57)$	1383.4	1382^{+18}_{-16}
$\boldsymbol{A_{100}^{PS}}$	255.2	262 ± 30	D_{40}	1223.0	1223 ± 20	$F_{AP}(0.57)$	0.67470	0.6746 ± 0.0038
$\boldsymbol{A_{143}^{PS}}$	39.8	45 ± 9	D_{220}	5715.6	5716 ± 40	$f\sigma_8(0.57)$	0.4736	0.4734 ± 0.0057
$\boldsymbol{A_{143\times217}^{PS}}$	33.0	39 ± 10	D_{810}	2532.7	2533 ± 14	$\sigma_8(0.57)$	0.6090	$0.609^{+0.011}_{-0.012}$
$\boldsymbol{A_{217}^{PS}}$	97.2	96 ± 10	D_{1420}	814.8	814.0 ± 5.3	f_{2000}^{143}	30.24	31 ± 4
$\boldsymbol{A^{kSZ}}$	0.01	< 5.28	D_{2000}	230.07	229.6 ± 2.4	$f_{2000}^{143\times217}$	32.75	33.3 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.40	7.50 ± 1.9	$n_{s,0.002}$	0.9694	0.970 ± 0.012	f_{2000}^{217}	106.27	106.8 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	9.11	9.16 ± 1.8	Y_P	0.2476	0.251 ± 0.021	$\chi^2_{lensing}$	9.28	9.95 ± 1.6
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.77	17.4 ± 4.1	Y_P^{BBN}	0.2490	0.252 ± 0.021	χ^2_{lowTEB}	10494.73	10495.5 ± 1.9
$\boldsymbol{A_{217}^{dustTT}}$	82.0	81.9 ± 7.3	Age/Gyr	13.792	$13.787^{+0.069}_{-0.062}$	χ^2_{plik}	766.3	780.5 ± 5.9
$\boldsymbol{c_{100}}$	0.99790	0.99786 ± 0.00079	z_*	1089.96	1090.08 ± 0.63	χ^2_{prior}	2.07	7.55 ± 3.7
$\boldsymbol{c_{217}}$	0.99594	0.9961 ± 0.0015	r_*	144.896	144.89 ± 0.45	χ^2_{CMB}	11270.3	11285.9 ± 5.8
H_0	67.93	$68.0^{+1.1}_{-1.3}$	$100\theta_*$	1.04127	1.04127 ± 0.00051			
Ω_Λ	0.6937	0.694 ± 0.015	D_A/Gpc	13.9154	13.915 ± 0.042			

Best-fit $\chi^2_{eff} = 11272.42$; $\bar{\chi}^2_{eff} = 11293.46$; $R - 1 = 0.03263$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.28 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.73 plik_dx11dr2_HM_v18_TT: 766.34

23.5 base_yhe_plikHM_TT_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022382	0.02239 ± 0.00033	Ω_m	0.3077	0.308 ± 0.015	z_{drag}	1060.16	1060.3 ± 1.3
$\boldsymbol{\Omega_c h^2}$	0.11882	0.1188 ± 0.0022	$\Omega_m h^2$	0.14185	0.1418 ± 0.0020	r_{drag}	147.365	147.36 ± 0.48
$\boldsymbol{100\theta_{MC}}$	1.04126	1.04134 ± 0.00091	$\Omega_m h^3$	0.09630	0.09635 ± 0.00081	k_D	0.14025	0.14016 ± 0.00074
$\boldsymbol{\tau}$	0.0836	0.084 ± 0.021	σ_8	0.8330	$0.834^{+0.016}_{-0.018}$	$100\theta_D$	0.16119	0.16130 ± 0.00077
$\boldsymbol{Y_P}$	0.2537	0.256 ± 0.021	$\sigma_8\Omega_m^{0.5}$	0.4621	0.462 ± 0.013	z_{eq}	3374.3	3374 ± 49
$\boldsymbol{\ln(10^{10}A_s)}$	3.1014	3.103 ± 0.042	$\sigma_8\Omega_m^{0.25}$	0.6204	0.621 ± 0.013	k_{eq}	0.010299	0.01030 ± 0.00015
$\boldsymbol{n_s}$	0.9716	0.972 ± 0.012	$\sigma_8/h^{0.5}$	1.0109	1.011 ± 0.020	$100\theta_{eq}$	0.8186	0.8189 ± 0.0097
$\boldsymbol{y_{cal}}$	1.00041	1.0005 ± 0.0025	$\langle d^2\rangle^{1/2}$	2.4892	2.490 ± 0.047	$100\theta_{s,eq}$	0.45215	0.4523 ± 0.0049
$\boldsymbol{A_{217}^{CIB}}$	67.2	64.6 ± 6.8	z_{re}	10.48	$10.5^{+2.0}_{-1.8}$	$r_{drag}/D_V(0.57)$	0.07179	0.07183 ± 0.00084
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.02	—	$10^9 A_s$	2.223	$2.229^{+0.089}_{-0.10}$	$H(0.57)$	93.18	93.22 ± 0.61
$\boldsymbol{A_{143}^{tSZ}}$	7.16	4.97 ± 2.0	$10^9 A_s e^{-2\tau}$	1.8805	1.882 ± 0.015	$D_A(0.57)$	1383.4	1383 ± 16
$\boldsymbol{A_{100}^{PS}}$	253.7	261 ± 29	D_{40}	1227.2	1228 ± 21	$F_{AP}(0.57)$	0.67507	0.6750 ± 0.0038
$\boldsymbol{A_{143}^{PS}}$	40.0	45 ± 9	D_{220}	5719.1	5722 ± 41	$f\sigma_8(0.57)$	0.4833	0.4835 ± 0.0098
$\boldsymbol{A_{143\times217}^{PS}}$	33.5	40 ± 10	D_{810}	2535.6	2535 ± 14	$\sigma_8(0.57)$	0.6206	$0.621^{+0.014}_{-0.015}$
$\boldsymbol{A_{217}^{PS}}$	97.8	97 ± 10	D_{1420}	814.9	814.2 ± 5.2	f_{2000}^{143}	30.12	31 ± 4
$\boldsymbol{A^{kSZ}}$	0.00	< 5.02	D_{2000}	230.16	229.8 ± 2.4	$f_{2000}^{143\times217}$	32.70	33.2 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.50	7.49 ± 1.9	$n_{s,0.002}$	0.9716	0.972 ± 0.012	f_{2000}^{217}	106.34	106.7 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	8.96	9.06 ± 1.9	Y_P	0.2537	0.256 ± 0.021	χ^2_{lowTEB}	10495.90	10497.1 ± 2.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.77	17.2 ± 4.2	Y_P^{BBN}	0.2550	0.257 ± 0.021	χ^2_{plik}	764.0	778.3 ± 6.0
$\boldsymbol{A_{217}^{dustTT}}$	82.3	81.7 ± 7.4	Age/Gyr	13.781	13.778 ± 0.063	χ^2_{H070p6}	0.664	0.76 ± 0.58
$\boldsymbol{c_{100}}$	0.99791	0.99788 ± 0.00078	z_*	1090.14	1090.23 ± 0.64	χ^2_{prior}	2.12	7.45 ± 3.6
$\boldsymbol{c_{217}}$	0.99603	0.9960 ± 0.0015	r_*	144.698	144.69 ± 0.47	χ^2_{CMB}	11259.9	11275.4 ± 5.7
H_0	67.89	68.0 ± 1.2	$100\theta_*$	1.04123	1.04124 ± 0.00051			
Ω_Λ	0.6923	0.692 ± 0.015	D_A/Gpc	13.8969	13.896 ± 0.044			

Best-fit $\chi^2_{eff} = 11262.68$; $\bar{\chi}^2_{eff} = 11283.62$; $R - 1 = 0.01383$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.90 plik_dx11dr2_HM_v18_TT: 763.99 Hubble - H070p6: 0.66

23.6 base_yhe_plikHM_TT_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022319	0.02232 ± 0.00025	$\Omega_m h^3$	0.09608	0.09610 ± 0.00073	z_{eq}	3361.6	3362 ± 28
$\boldsymbol{\Omega_c h^2}$	0.11835	0.1184 ± 0.0012	σ_8	0.8166	0.817 ± 0.010	k_{eq}	0.010260	0.010261 ± 0.000085
$\boldsymbol{100\theta_{MC}}$	1.04120	1.04124 ± 0.00073	$\sigma_8\Omega_m^{0.5}$	0.4515	0.4517 ± 0.0066	$100\theta_{eq}$	0.8207	0.8207 ± 0.0052
$\boldsymbol{\tau}$	0.0676	0.068 ± 0.013	$\sigma_8\Omega_m^{0.25}$	0.6072	0.6075 ± 0.0074	$100\theta_{s,eq}$	0.45329	0.4533 ± 0.0027
$\boldsymbol{Y_P}$	0.2498	$0.251^{+0.020}_{-0.017}$	$\sigma_8/h^{0.5}$	0.9903	0.991 ± 0.012	$r_{drag}/D_V(0.57)$	0.071913	0.07192 ± 0.00043
$\boldsymbol{\ln(10^{10}A_s)}$	3.0660	3.067 ± 0.025	$\langle d^2\rangle^{1/2}$	2.4440	2.445 ± 0.027	$H(0.57)$	93.168	93.18 ± 0.38
$\boldsymbol{n_s}$	0.9704	0.9704 ± 0.0083	z_{re}	8.99	$8.95^{+1.4}_{-1.1}$	$D_A(0.57)$	1382.5	1382.4 ± 9.0
$\boldsymbol{y_{cal}}$	0.99990	1.0002 ± 0.0025	$10^9 A_s$	2.146	2.148 ± 0.054	$F_{AP}(0.57)$	0.67456	0.6746 ± 0.0019
$\boldsymbol{A_{217}^{CIB}}$	68.1	65.2 ± 6.7	$10^9 A_s e^{-2\tau}$	1.8743	1.876 ± 0.014	$f\sigma_8(0.57)$	0.4733	0.4735 ± 0.0057
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	D_{40}	1220.7	1222^{+16}_{-18}	$\sigma_8(0.57)$	0.6089	0.6092 ± 0.0085
$\boldsymbol{A_{143}^{tSZ}}$	7.18	4.93 ± 2.0	D_{220}	5713.2	5718 ± 40	f_{2000}^{143}	30.49	31 ± 4
$\boldsymbol{A_{100}^{PS}}$	255.9	262 ± 29	D_{810}	2532.1	2533 ± 14	$f_{2000}^{143\times217}$	33.01	33.4 ± 2.8
$\boldsymbol{A_{143}^{PS}}$	40.3	45 ± 9	D_{1420}	814.4	814.0 ± 5.3	f_{2000}^{217}	106.42	106.8 ± 2.6
$\boldsymbol{A_{143\times217}^{PS}}$	33.3	38^{+10}_{-10}	D_{2000}	229.79	229.5 ± 2.4	$\chi^2_{lensing}$	9.17	9.93 ± 1.5
$\boldsymbol{A_{217}^{PS}}$	96.8	96 ± 10	$n_{s,0.002}$	0.9704	0.9704 ± 0.0083	χ^2_{lowTEB}	10494.54	10495.1 ± 1.5
$\boldsymbol{A^{kSZ}}$	0.01	< 5.34	Y_P	0.2498	$0.251^{+0.020}_{-0.017}$	χ^2_{plik}	766.6	780.2 ± 5.7
$\boldsymbol{A_{100}^{dustTT}}$	7.37	7.52 ± 1.9	Y_P^{BBN}	0.2512	$0.253^{+0.020}_{-0.018}$	χ^2_{H070p6}	0.620	0.65 ± 0.30
$\boldsymbol{A_{143}^{dustTT}}$	9.15	9.17 ± 1.9	Age/Gyr	13.7871	13.786 ± 0.044	χ^2_{JLA}	706.608	706.66 ± 0.17
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.87	17.4 ± 4.1	z_*	1090.02	1090.10 ± 0.62	χ^2_{6DF}	0.00099	0.041 ± 0.058
$\boldsymbol{A_{217}^{dustTT}}$	81.9	81.9 ± 7.3	r_*	144.881	144.87 ± 0.36	χ^2_{MGS}	1.61	1.69 ± 0.59
$\boldsymbol{c_{100}}$	0.99790	0.99788 ± 0.00080	$100\theta_*$	1.041279	1.04127 ± 0.00042	$\chi^2_{DR11CMASS}$	2.436	2.88 ± 0.67
$\boldsymbol{c_{217}}$	0.99601	0.9961 ± 0.0015	D_A/Gpc	13.9138	13.913 ± 0.036	$\chi^2_{DR11LOWZ}$	0.321	0.45 ± 0.46
H_0	67.99	68.00 ± 0.63	z_{drag}	1059.86	1059.9 ± 1.1	χ^2_{prior}	2.09	7.60 ± 3.7
Ω_Λ	0.6943	0.6942 ± 0.0075	r_{drag}	147.571	147.56 ± 0.40	χ^2_{CMB}	11270.4	11285.2 ± 5.7
Ω_m	0.3057	0.3058 ± 0.0075	k_D	0.14014	0.14008 ± 0.00058	χ^2_{BAO}	4.37	5.06 ± 1.0
$\Omega_m h^2$	0.14132	0.1413 ± 0.0012	$100\theta_D$	0.16112	0.16120 ± 0.00071			

Best-fit $\chi^2_{eff} = 11984.04$; $\bar{\chi}^2_{eff} = 12005.15$; $R - 1 = 0.04133$

χ^2_{eff}: BAO - 6DF: 0.00 MGS: 1.61 DR11CMASS: 2.44 DR11LOWZ: 0.32 CMB - smica_g30_ftl_full_pp: 9.17 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.54 plik_dx11dr2_HM_v18_TT: 766.64 Hubble - H070p6: 0.62 SN - JLA December_2013: 706.61

23.7 base_yhe_plikHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02232^{+0.00032}_{-0.00036}$	Ω_Λ	0.688 ± 0.016	$100\theta_*$	1.04115 ± 0.00052
$\boldsymbol{\Omega_c h^2}$	0.1194 ± 0.0023	Ω_m	0.312 ± 0.016	D_A/Gpc	13.890 ± 0.045
$\boldsymbol{100\theta_{MC}}$	1.04114 ± 0.00093	$\Omega_m h^2$	0.1423 ± 0.0021	z_{drag}	1060.0 ± 1.3
$\boldsymbol{\tau}$	$0.082^{+0.018}_{-0.023}$	$\Omega_m h^3$	0.09622 ± 0.00082	r_{drag}	147.30 ± 0.49
$\boldsymbol{Y_P}$	0.252 ± 0.021	σ_8	$0.833^{+0.014}_{-0.018}$	k_D	0.14032 ± 0.00077
$\boldsymbol{\ln(10^{10} A_s)}$	$3.099^{+0.036}_{-0.046}$	$\sigma_8\Omega_m^{0.5}$	0.465 ± 0.013	$100\theta_D$	0.16120 ± 0.00077
$\boldsymbol{n_s}$	0.969 ± 0.012	$\sigma_8\Omega_m^{0.25}$	0.622 ± 0.013	z_{eq}	3386 ± 51
$\boldsymbol{y_{cal}}$	1.0004 ± 0.0025	$\sigma_8/h^{0.5}$	1.013 ± 0.019	k_{eq}	0.01033 ± 0.00016
$\boldsymbol{A_{217}^{CIB}}$	64.4 ± 6.8	$\langle d^2\rangle^{1/2}$	2.498 ± 0.046	$100\theta_{eq}$	0.816 ± 0.010
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	z_{re}	10.3 ± 1.7	$100\theta_{s,eq}$	0.4511 ± 0.0051
$\boldsymbol{A_{143}^{tSZ}}$	5.00 ± 2.0	$10^9 A_s$	$2.220^{+0.076}_{-0.11}$	$r_{drag}/D_V(0.57)$	0.07160 ± 0.00087
$\boldsymbol{A_{100}^{PS}}$	260 ± 29	$10^9 A_s e^{-2\tau}$	1.882 ± 0.015	$H(0.57)$	$93.06^{+0.60}_{-0.68}$
$\boldsymbol{A_{143}^{PS}}$	45 ± 9	D_{40}	1233 ± 21	$D_A(0.57)$	1387 ± 17
$\boldsymbol{A_{143\times217}^{PS}}$	39^{+10}_{-10}	D_{220}	5719 ± 41	$F_{AP}(0.57)$	0.6760 ± 0.0040
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{810}	2535 ± 14	$f\sigma_8(0.57)$	0.4843 ± 0.0093
$\boldsymbol{A^{kSZ}}$	< 4.91	D_{1420}	814.1 ± 5.3	$\sigma_8(0.57)$	$0.620^{+0.012}_{-0.015}$
$\boldsymbol{A_{100}^{dustTT}}$	7.47 ± 1.9	D_{2000}	229.9 ± 2.4	f_{2000}^{143}	31 ± 4
$\boldsymbol{A_{143}^{dustTT}}$	9.05 ± 1.9	$n_{s,0.002}$	0.969 ± 0.012	$f_{2000}^{143\times217}$	33.0 ± 2.9
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.1 ± 4.2	Y_P	0.252 ± 0.021	f_{2000}^{217}	106.5 ± 2.7
$\boldsymbol{A_{217}^{dustTT}}$	81.7 ± 7.5	Y_P^{BBN}	0.254 ± 0.021	χ^2_{lowTEB}	10497.3 ± 2.7
$\boldsymbol{c_{100}}$	0.99788 ± 0.00078	Age/Gyr	13.793 ± 0.065	χ^2_{plik}	778.0 ± 5.9
$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	z_*	1090.22 ± 0.64	χ^2_{prior}	7.44 ± 3.6
H_0	67.6 ± 1.2	r_*	144.61 ± 0.48	χ^2_{CMB}	11275.3 ± 5.6

$\bar{\chi}^2_{eff} = 11282.69$; $R - 1 = 0.01267$

23.8 base_yhe_plikHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022302	0.02230 ± 0.00023	$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1313	0.132 ± 0.029	Y_P^{BBN}	0.2504	0.251 ± 0.014
$\boldsymbol{\Omega_c h^2}$	0.11969	0.1197 ± 0.0015	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.306	0.303 ± 0.085	Age/Gyr	13.8031	13.802 ± 0.042
$\boldsymbol{100\theta_{MC}}$	1.04092	1.04096 ± 0.00060	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	z_*	1090.131	1090.18 ± 0.44
$\boldsymbol{\tau}$	0.0828	0.082 ± 0.018	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.338 ± 0.080	r_*	144.549	144.53 ± 0.33
$\boldsymbol{Y_P}$	0.2491	0.250 ± 0.014	$\boldsymbol{A^{dustTE}_{217}}$	1.664	1.67 ± 0.25	$100\theta_*$	1.041013	1.04102 ± 0.00034
$\boldsymbol{\ln(10^{10}A_s)}$	3.1010	3.099 ± 0.036	$\boldsymbol{c_{100}}$	0.99818	0.99815 ± 0.00078	D_A/Gpc	13.8854	13.884 ± 0.031
$\boldsymbol{n_s}$	0.9668	0.9668 ± 0.0080	$\boldsymbol{c_{217}}$	0.99595	0.9960 ± 0.0014	z_{drag}	1059.89	1059.93 ± 0.87
$\boldsymbol{y_{cal}}$	1.00027	1.0005 ± 0.0025	H_0	67.40	67.41 ± 0.77	r_{drag}	147.235	147.22 ± 0.34
$\boldsymbol{A^{CIB}_{217}}$	66.3	64.2 ± 6.6	Ω_Λ	0.6860	0.6858 ± 0.0098	k_D	0.140513	0.14048 ± 0.00043
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.13	—	Ω_m	0.3140	0.3142 ± 0.0098	$100\theta_D$	0.161018	0.16107 ± 0.00048
$\boldsymbol{A^{tSZ}_{143}}$	7.18	5.27 ± 1.9	$\Omega_m h^2$	0.14264	0.1427 ± 0.0014	z_{eq}	3393.3	3394 ± 33
$\boldsymbol{A^{PS}_{100}}$	255.3	262 ± 28	$\Omega_m h^3$	0.09615	0.09617 ± 0.00057	k_{eq}	0.010357	0.010360 ± 0.000099
$\boldsymbol{A^{PS}_{143}}$	40.8	44 ± 8	σ_8	0.8344	0.834 ± 0.015	$100\theta_{eq}$	0.8147	0.8146 ± 0.0063
$\boldsymbol{A^{PS}_{143\times217}}$	36.9	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4675	0.4672 ± 0.0098	$100\theta_{s,eq}$	0.45017	0.4501 ± 0.0032
$\boldsymbol{A^{PS}_{217}}$	99.2	98 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6245	0.624 ± 0.011	$r_{drag}/D_V(0.57)$	0.07143	0.07144 ± 0.00053
$\boldsymbol{A^{kSZ}}$	0.00	< 4.38	$\sigma_8/h^{0.5}$	1.0163	1.015 ± 0.017	$H(0.57)$	92.948	92.96 ± 0.39
$\boldsymbol{A^{dustTT}_{100}}$	7.46	7.47 ± 1.9	$\langle d^2\rangle^{1/2}$	2.5090	2.507 ± 0.039	$D_A(0.57)$	1390.1	1390 ± 11
$\boldsymbol{A^{dustTT}_{143}}$	8.98	8.99 ± 1.8	z_{re}	10.42	$10.3^{+1.8}_{-1.5}$	$F_{AP}(0.57)$	0.67665	0.6767 ± 0.0025
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.66	17.1 ± 4.1	$10^9 A_s$	2.222	2.219 ± 0.079	$f\sigma_8(0.57)$	0.4857	0.4854 ± 0.0084
$\boldsymbol{A^{dustTT}_{217}}$	82.0	81.7 ± 7.4	$10^9 A_s e^{-2\tau}$	1.8831	1.884 ± 0.013	$\sigma_8(0.57)$	0.6201	0.620 ± 0.012
$\boldsymbol{A^{dustEE}_{100}}$	0.0812	0.0812 ± 0.0057	D_{40}	1237.8	1239 ± 16	f^{143}_{2000}	29.49	30.1 ± 3.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.04878	0.0488 ± 0.0050	D_{220}	5725.6	5728 ± 38	$f^{143\times217}_{2000}$	32.37	32.7 ± 2.2
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0987	0.099 ± 0.033	D_{810}	2535.9	2536 ± 14	f^{217}_{2000}	105.94	106.2 ± 2.1
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.1002 ± 0.0069	D_{1420}	814.58	814.3 ± 4.8	χ^2_{lowTEB}	10496.98	10497.6 ± 2.3
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2238	0.223 ± 0.047	D_{2000}	230.27	230.1 ± 1.8	χ^2_{plik}	2431.5	2451.3 ± 7.0
$\boldsymbol{A^{dustEE}_{217}}$	0.644	0.65 ± 0.13	$n_{s,0.002}$	0.9668	0.9668 ± 0.0080	χ^2_{prior}	6.98	19.4 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.1412	0.141 ± 0.038	Y_P	0.2491	0.250 ± 0.014	χ^2_{CMB}	12928.5	12949.0 ± 6.8

Best-fit $\chi^2_{eff} = 12935.48$; $\bar{\chi}^2_{eff} = 12968.35$; $R - 1 = 0.00815$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.98 plik_dx11dr2_HM_v18_TTTEEE: 2431.52

23.9 base_yhe_plikHM_TTTEEE_lowTEB_post_BAO

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022350	0.02236 ± 0.00019	$\boldsymbol{A_{143}^{dustTE}}$	0.154	0.155 ± 0.054	$100\theta_*$	1.041069	1.04109 ± 0.00030
$\boldsymbol{\Omega_c h^2}$	0.11918	0.1192 ± 0.0011	$\boldsymbol{A_{143\times217}^{dustTE}}$	0.338	0.339 ± 0.079	D_A/Gpc	13.8941	13.890 ± 0.028
$\boldsymbol{100\theta_{MC}}$	1.04098	1.04108 ± 0.00054	$\boldsymbol{A_{217}^{dustTE}}$	1.662	1.66 ± 0.25	z_{drag}	1059.93	1060.07 ± 0.80
$\boldsymbol{\tau}$	0.0871	0.084 ± 0.017	$\boldsymbol{c_{100}}$	0.99820	0.99816 ± 0.00077	r_{drag}	147.322	147.29 ± 0.31
$\boldsymbol{Y_P}$	0.2488	0.252 ± 0.013	$\boldsymbol{c_{217}}$	0.99588	0.9960 ± 0.0014	k_D	0.140469	0.14039 ± 0.00037
$\boldsymbol{\ln(10^{10}A_s)}$	3.1085	3.104 ± 0.034	H_0	67.64	67.66 ± 0.54	$100\theta_D$	0.160968	0.16111 ± 0.00048
$\boldsymbol{n_s}$	0.9685	0.9687 ± 0.0068	Ω_Λ	0.6893	0.6892 ± 0.0067	z_{eq}	3382.0	3384 ± 24
$\boldsymbol{y_{cal}}$	1.00016	1.0005 ± 0.0025	Ω_m	0.3107	0.3108 ± 0.0067	k_{eq}	0.010322	0.010328 ± 0.000074
$\boldsymbol{A_{217}^{CIB}}$	64.7	64.2 ± 6.6	$\Omega_m h^2$	0.14217	0.1423 ± 0.0010	$100\theta_{eq}$	0.81690	0.8167 ± 0.0045
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.33	—	$\Omega_m h^3$	0.09617	0.09625 ± 0.00055	$100\theta_{s,eq}$	0.45128	0.4512 ± 0.0023
$\boldsymbol{A_{143}^{tSZ}}$	7.06	5.28 ± 1.9	σ_8	0.8361	0.835 ± 0.015	$r_{drag}/D_V(0.57)$	0.071610	0.07161 ± 0.00037
$\boldsymbol{A_{100}^{PS}}$	252.3	262 ± 28	$\sigma_8\Omega_m^{0.5}$	0.4660	0.4653 ± 0.0089	$H(0.57)$	93.049	93.08 ± 0.30
$\boldsymbol{A_{143}^{PS}}$	43.3	44 ± 8	$\sigma_8\Omega_m^{0.25}$	0.6242	0.623 ± 0.011	$D_A(0.57)$	1386.9	1386.6 ± 7.6
$\boldsymbol{A_{143\times217}^{PS}}$	42.6	40 ± 10	$\sigma_8/h^{0.5}$	1.0165	1.015 ± 0.017	$F_{AP}(0.57)$	0.67583	0.6758 ± 0.0017
$\boldsymbol{A_{217}^{PS}}$	101.6	98 ± 10	$\langle d^2\rangle^{1/2}$	2.5092	2.504 ± 0.039	$f\sigma_8(0.57)$	0.4859	0.4851 ± 0.0084
$\boldsymbol{A^{kSZ}}$	0.00	< 4.39	z_{re}	10.78	$10.5^{+1.7}_{-1.4}$	$\sigma_8(0.57)$	0.6221	0.621 ± 0.011
$\boldsymbol{A_{100}^{dustTT}}$	7.39	7.48 ± 1.9	$10^9 A_s$	2.239	2.231 ± 0.076	f_{2000}^{143}	28.85	30.1 ± 3.0
$\boldsymbol{A_{143}^{dustTT}}$	8.98	9.00 ± 1.9	$10^9 A_s e^{-2\tau}$	1.8808	1.883 ± 0.012	$f_{2000}^{143\times217}$	31.99	32.7 ± 2.2
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.84	17.1 ± 4.1	D_{40}	1235.9	1236 ± 15	f_{2000}^{217}	105.46	106.2 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.7 ± 7.4	D_{220}	5726.5	5730 ± 38	χ^2_{lowTEB}	10497.21	10497.5 ± 2.4
$\boldsymbol{A_{100}^{dustEE}}$	0.0815	0.0814 ± 0.0057	D_{810}	2535.7	2536 ± 14	χ^2_{plik}	2431.5	2451.0 ± 6.9
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0491	0.0491 ± 0.0050	D_{1420}	815.20	814.5 ± 4.8	χ^2_{6DF}	0.0290	0.059 ± 0.072
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.09997	0.099 ± 0.033	D_{2000}	230.64	230.1 ± 1.9	χ^2_{MGS}	1.217	1.28 ± 0.47
$\boldsymbol{A_{143}^{dustEE}}$	0.1004	0.1004 ± 0.0068	$n_{s,0.002}$	0.9685	0.9687 ± 0.0068	$\chi^2_{DR11CMASS}$	2.496	2.83 ± 0.59
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2232	0.223 ± 0.046	Y_P	0.2488	0.252 ± 0.013	$\chi^2_{DR11LOWZ}$	0.678	0.78 ± 0.55
$\boldsymbol{A_{217}^{dustEE}}$	0.650	0.65 ± 0.13	Y_P^{BBN}	0.2502	0.253 ± 0.013	χ^2_{prior}	6.85	19.4 ± 5.5
$\boldsymbol{A_{100}^{dustTE}}$	0.1419	0.141 ± 0.038	Age/Gyr	13.7945	13.791 ± 0.034	χ^2_{CMB}	12928.8	12948.5 ± 6.7
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1319	0.132 ± 0.029	z_*	1090.012	1090.14 ± 0.43	χ^2_{BAO}	4.420	4.96 ± 0.86
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.305	0.303 ± 0.084	r_*	144.647	144.61 ± 0.29			

Best-fit $\chi^2_{eff} = 12940.03$; $\bar{\chi}^2_{eff} = 12972.84$; $R - 1 = 0.01208$

χ^2_{eff}: BAO - 6DF: 0.03 MGS: 1.22 DR11CMASS: 2.50 DR11LOWZ: 0.68 CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10497.21 plik_dx11dr2_HM_v18_TTTEEE: 2431.55

23.10 base_yhe_plikHM_TTTEEE_lowTEB_post_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022329	0.02233 ± 0.00022	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.307	0.303 ± 0.084	z_*	1090.096	1090.16 ± 0.44
$\boldsymbol{\Omega_c h^2}$	0.11946	0.1195 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	r_*	144.586	144.57 ± 0.32
$\boldsymbol{100\theta_{MC}}$	1.04095	1.04101 ± 0.00059	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339	0.339 ± 0.080	$100\theta_*$	1.041025	1.04105 ± 0.00033
$\boldsymbol{\tau}$	0.0837	0.083 ± 0.018	$\boldsymbol{A^{dustTE}_{217}}$	1.670	1.67 ± 0.25	D_A/Gpc	13.8888	13.887 ± 0.031
$\boldsymbol{Y_P}$	0.2496	0.251 ± 0.014	$\boldsymbol{c_{100}}$	0.99819	0.99816 ± 0.00077	z_{drag}	1059.93	1060.00 ± 0.85
$\boldsymbol{\ln(10^{10}A_s)}$	3.1025	3.102 ± 0.035	$\boldsymbol{c_{217}}$	0.99603	0.9960 ± 0.0014	r_{drag}	147.267	147.25 ± 0.34
$\boldsymbol{n_s}$	0.9676	0.9677 ± 0.0079	H_0	67.52	67.53 ± 0.74	k_D	0.140480	0.14044 ± 0.00042
$\boldsymbol{y_{cal}}$	1.00028	1.0005 ± 0.0025	Ω_Λ	0.6875	0.6874 ± 0.0094	$100\theta_D$	0.161016	0.16109 ± 0.00048
$\boldsymbol{A^{CIB}_{217}}$	66.3	64.2 ± 6.6	Ω_m	0.3125	0.3126 ± 0.0094	z_{eq}	3388.4	3390 ± 32
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.14	—	$\Omega_m h^2$	0.14244	0.1425 ± 0.0013	k_{eq}	0.010342	0.010345 ± 0.000096
$\boldsymbol{A^{tSZ}_{143}}$	7.16	5.27 ± 1.9	$\Omega_m h^3$	0.09617	0.09621 ± 0.00057	$100\theta_{eq}$	0.8157	0.8156 ± 0.0061
$\boldsymbol{A^{PS}_{100}}$	254.8	262 ± 28	σ_8	0.8343	0.834 ± 0.015	$100\theta_{s,eq}$	0.45066	0.4506 ± 0.0031
$\boldsymbol{A^{PS}_{143}}$	40.6	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4664	0.4664 ± 0.0097	$r_{drag}/D_V(0.57)$	0.07151	0.07152 ± 0.00051
$\boldsymbol{A^{PS}_{143\times217}}$	36.9	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6238	0.624 ± 0.011	$H(0.57)$	92.998	93.02 ± 0.38
$\boldsymbol{A^{PS}_{217}}$	99.0	98 ± 10	$\sigma_8/h^{0.5}$	1.0154	1.015 ± 0.017	$D_A(0.57)$	1388.6	1388 ± 10
$\boldsymbol{A^{kSZ}}$	0.00	< 4.37	$\langle d^2\rangle^{1/2}$	2.5068	2.506 ± 0.039	$F_{AP}(0.57)$	0.67627	0.6763 ± 0.0024
$\boldsymbol{A^{dustTT}_{100}}$	7.44	7.47 ± 1.9	z_{re}	10.49	$10.4^{+1.8}_{-1.5}$	$f\sigma_8(0.57)$	0.4853	0.4853 ± 0.0084
$\boldsymbol{A^{dustTT}_{143}}$	9.01	9.00 ± 1.9	$10^9 A_s$	2.225	2.225 ± 0.079	$\sigma_8(0.57)$	0.6204	0.620 ± 0.012
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.81	17.1 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8823	1.883 ± 0.013	f^{143}_{2000}	29.32	30.1 ± 3.0
$\boldsymbol{A^{dustTT}_{217}}$	82.3	81.7 ± 7.4	D_{40}	1236.6	1237 ± 16	$f^{143\times217}_{2000}$	32.30	32.7 ± 2.2
$\boldsymbol{A^{dustEE}_{100}}$	0.0815	0.0813 ± 0.0057	D_{220}	5727.2	5729 ± 38	f^{217}_{2000}	105.89	106.2 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0488	0.0490 ± 0.0050	D_{810}	2535.8	2536 ± 14	χ^2_{lowTEB}	10496.93	10497.6 ± 2.4
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0983	0.099 ± 0.032	D_{1420}	814.70	814.4 ± 4.8	χ^2_{plik}	2431.5	2451.3 ± 7.0
$\boldsymbol{A^{dustEE}_{143}}$	0.1004	0.1003 ± 0.0068	D_{2000}	230.32	230.1 ± 1.8	χ^2_{JLA}	706.777	706.85 ± 0.31
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2208	0.223 ± 0.047	$n_{s,0.002}$	0.9676	0.9677 ± 0.0079	χ^2_{prior}	7.09	19.4 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.652	0.65 ± 0.13	Y_P	0.2496	0.251 ± 0.014	χ^2_{CMB}	12928.4	12948.9 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1410	0.141 ± 0.038	Y_P^{BBN}	0.2509	0.252 ± 0.014			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1321	0.132 ± 0.029	Age/Gyr	13.7986	13.797 ± 0.041			

Best-fit $\chi^2_{eff} = 13642.28$; $\bar{\chi}^2_{eff} = 13675.08$; $R-1 = 0.01066$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.93 plik_dx11dr2_HM_v18_TTTEEE: 2431.48 SN - JLA December_2013: 706.78

23.11 base_yhe_plikHM_TTTEEE_lowTEB_post_lensing

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022271	0.02228 ± 0.00023	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.306	0.302 ± 0.083	z_*	1090.006	1090.04 ± 0.44
$\boldsymbol{\Omega_c h^2}$	0.11924	0.1192 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.154	0.155 ± 0.054	r_*	144.701	144.70 ± 0.31
$\boldsymbol{100\theta_{MC}}$	1.04087	1.04093 ± 0.00059	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.340	0.340 ± 0.082	$100\theta_*$	1.041049	1.04108 ± 0.00033
$\boldsymbol{\tau}$	0.0629	0.063 ± 0.014	$\boldsymbol{A^{dustTE}_{217}}$	1.665	1.66 ± 0.25	D_A/Gpc	13.8995	13.899 ± 0.030
$\boldsymbol{Y_P}$	0.2460	0.247 ± 0.014	$\boldsymbol{c_{100}}$	0.99818	0.99816 ± 0.00077	z_{drag}	1059.67	1059.71 ± 0.87
$\boldsymbol{\ln(10^{10}A_s)}$	3.0584	3.060 ± 0.027	$\boldsymbol{c_{217}}$	0.99604	0.9960 ± 0.0015	r_{drag}	147.401	147.40 ± 0.32
$\boldsymbol{n_s}$	0.9659	0.9662 ± 0.0080	H_0	67.52	67.56 ± 0.76	k_D	0.140440	0.14041 ± 0.00042
$\boldsymbol{y_{cal}}$	0.99999	1.0001 ± 0.0024	Ω_Λ	0.6882	0.6884 ± 0.0096	$100\theta_D$	0.160939	0.16098 ± 0.00048
$\boldsymbol{A^{CIB}_{217}}$	67.8	64.6 ± 6.6	Ω_m	0.3118	0.3116 ± 0.0096	z_{eq}	3381.7	3381 ± 32
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	$\Omega_m h^2$	0.14216	0.1421 ± 0.0013	k_{eq}	0.010321	0.010320 ± 0.000096
$\boldsymbol{A^{tSZ}_{143}}$	7.34	5.17 ± 2.0	$\Omega_m h^3$	0.09599	0.09602 ± 0.00056	$100\theta_{eq}$	0.8167	0.8168 ± 0.0062
$\boldsymbol{A^{PS}_{100}}$	258.6	264 ± 28	σ_8	0.8150	0.8156 ± 0.0099	$100\theta_{s,eq}$	0.45121	0.4513 ± 0.0031
$\boldsymbol{A^{PS}_{143}}$	39.1	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4551	0.4552 ± 0.0070	$r_{drag}/D_V(0.57)$	0.07156	0.07158 ± 0.00053
$\boldsymbol{A^{PS}_{143\times217}}$	32.9	39^{+9}_{-10}	$\sigma_8\Omega_m^{0.25}$	0.6090	0.6093 ± 0.0070	$H(0.57)$	92.958	92.98 ± 0.39
$\boldsymbol{A^{PS}_{217}}$	96.9	97 ± 10	$\sigma_8/h^{0.5}$	0.9919	0.992 ± 0.011	$D_A(0.57)$	1388.8	1388 ± 11
$\boldsymbol{A^{kSZ}}$	0.00	< 4.93	$\langle d^2\rangle^{1/2}$	2.4539	2.455 ± 0.025	$F_{AP}(0.57)$	0.67611	0.6760 ± 0.0024
$\boldsymbol{A^{dustTT}_{100}}$	7.46	7.58 ± 1.9	z_{re}	8.55	8.55 ± 1.4	$f\sigma_8(0.57)$	0.4740	0.4742 ± 0.0053
$\boldsymbol{A^{dustTT}_{143}}$	9.09	9.10 ± 1.9	$10^9 A_s$	2.129	$2.133^{+0.054}_{-0.062}$	$\sigma_8(0.57)$	0.6062	0.6068 ± 0.0086
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.68	17.3 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8779	1.879 ± 0.012	f^{143}_{2000}	30.07	30.4 ± 3.0
$\boldsymbol{A^{dustTT}_{217}}$	81.9	81.7 ± 7.3	D_{40}	1229.8	1230 ± 15	$f^{143\times217}_{2000}$	32.73	32.9 ± 2.2
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0814 ± 0.0057	D_{220}	5723.1	5725 ± 38	f^{217}_{2000}	106.22	106.3 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0490	0.0492 ± 0.0051	D_{810}	2533.7	2534 ± 13	$\chi^2_{lensing}$	9.77	10.4 ± 1.9
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.1002	0.099 ± 0.033	D_{1420}	814.56	814.5 ± 4.8	χ^2_{lowTEB}	10495.28	10495.8 ± 1.5
$\boldsymbol{A^{dustEE}_{143}}$	0.1005	0.1004 ± 0.0068	D_{2000}	229.96	229.9 ± 1.8	χ^2_{plik}	2435.0	2454.4 ± 6.9
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2241	0.225 ± 0.048	$n_{s,0.002}$	0.9659	0.9662 ± 0.0080	χ^2_{prior}	7.10	19.6 ± 5.6
$\boldsymbol{A^{dustEE}_{217}}$	0.650	0.66 ± 0.13	Y_P	0.2460	0.247 ± 0.014	χ^2_{CMB}	12940.1	12960.7 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1410	0.142 ± 0.038	Y_P^{BBN}	0.2473	0.248 ± 0.014			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1311	0.132 ± 0.030	Age/Gyr	13.8057	13.803 ± 0.042			

Best-fit $\chi^2_{eff} = 12947.17$; $\bar{\chi}^2_{eff} = 12980.28$; $R - 1 = 0.03526$

χ^2_{eff}: CMB - smica_g30_ftl_full_pp: 9.77 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.28 plik_dx11dr2_HM_v18_TTTEEE: 2435.02

23.12 base_yhe_plikHM_TTTEEE_lowTEB_post_H070p6

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022358	0.02234 ± 0.00022	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.302	0.303 ± 0.084	z_*	1090.126	1090.16 ± 0.44
$\boldsymbol{\Omega_c h^2}$	0.11943	0.1194 ± 0.0014	$\boldsymbol{A^{dustTE}_{143}}$	0.153	0.155 ± 0.054	r_*	144.567	144.57 ± 0.33
$\boldsymbol{100\theta_{MC}}$	1.04105	1.04104 ± 0.00059	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.338	0.339 ± 0.080	$100\theta_*$	1.041077	1.04107 ± 0.00033
$\boldsymbol{\tau}$	0.0835	0.083 ± 0.018	$\boldsymbol{A^{dustTE}_{217}}$	1.677	1.67 ± 0.25	D_A/Gpc	13.8863	13.887 ± 0.031
$\boldsymbol{Y_P}$	0.2513	0.252 ± 0.014	$\boldsymbol{c_{100}}$	0.99817	0.99816 ± 0.00077	z_{drag}	1060.05	1060.05 ± 0.85
$\boldsymbol{\ln(10^{10}A_s)}$	3.1022	3.103 ± 0.036	$\boldsymbol{c_{217}}$	0.99602	0.9960 ± 0.0014	r_{drag}	147.240	147.25 ± 0.34
$\boldsymbol{n_s}$	0.9682	0.9682 ± 0.0079	H_0	67.59	67.57 ± 0.75	k_D	0.140462	0.14042 ± 0.00042
$\boldsymbol{y_{cal}}$	1.00030	1.0005 ± 0.0025	Ω_Λ	0.6882	0.6879 ± 0.0095	$100\theta_D$	0.161066	0.16110 ± 0.00048
$\boldsymbol{A^{CIB}_{217}}$	67.6	64.2 ± 6.6	Ω_m	0.3118	0.3121 ± 0.0095	z_{eq}	3388.3	3388 ± 32
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.04	—	$\Omega_m h^2$	0.14243	0.1424 ± 0.0013	k_{eq}	0.010341	0.010342 ± 0.000098
$\boldsymbol{A^{tSZ}_{143}}$	7.23	5.27 ± 1.9	$\Omega_m h^3$	0.09626	0.09624 ± 0.00057	$100\theta_{eq}$	0.8159	0.8158 ± 0.0062
$\boldsymbol{A^{PS}_{100}}$	258.0	262 ± 28	σ_8	0.8342	0.835 ± 0.015	$100\theta_{s,eq}$	0.45073	0.4507 ± 0.0032
$\boldsymbol{A^{PS}_{143}}$	39.5	44 ± 8	$\sigma_8\Omega_m^{0.5}$	0.4659	0.4662 ± 0.0097	$r_{drag}/D_V(0.57)$	0.07155	0.07154 ± 0.00052
$\boldsymbol{A^{PS}_{143\times217}}$	34.1	40 ± 10	$\sigma_8\Omega_m^{0.25}$	0.6234	0.624 ± 0.011	$H(0.57)$	93.046	93.04 ± 0.38
$\boldsymbol{A^{PS}_{217}}$	97.4	98 ± 10	$\sigma_8/h^{0.5}$	1.0148	1.015 ± 0.017	$D_A(0.57)$	1387.5	1388 ± 10
$\boldsymbol{A^{kSZ}}$	0.00	< 4.38	$\langle d^2\rangle^{1/2}$	2.5043	2.505 ± 0.039	$F_{AP}(0.57)$	0.67611	0.6762 ± 0.0024
$\boldsymbol{A^{dustTT}_{100}}$	7.40	7.48 ± 1.9	z_{re}	10.47	$10.4^{+1.8}_{-1.5}$	$f\sigma_8(0.57)$	0.4851	0.4853 ± 0.0084
$\boldsymbol{A^{dustTT}_{143}}$	9.05	9.01 ± 1.9	$10^9 A_s$	2.225	2.227 ± 0.079	$\sigma_8(0.57)$	0.6205	0.621 ± 0.012
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.42	17.1 ± 4.1	$10^9 A_s e^{-2\tau}$	1.8827	1.884 ± 0.013	f^{143}_{2000}	29.80	30.1 ± 3.0
$\boldsymbol{A^{dustTT}_{217}}$	81.5	81.7 ± 7.4	D_{40}	1235.5	1237 ± 16	$f^{143\times217}_{2000}$	32.60	32.7 ± 2.2
$\boldsymbol{A^{dustEE}_{100}}$	0.0813	0.0814 ± 0.0057	D_{220}	5728.0	5729 ± 38	f^{217}_{2000}	106.15	106.3 ± 2.1
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0489	0.0490 ± 0.0050	D_{810}	2535.7	2536 ± 14	χ^2_{lowTEB}	10496.76	10497.6 ± 2.4
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0988	0.099 ± 0.032	D_{1420}	814.45	814.4 ± 4.8	χ^2_{plik}	2431.7	2451.3 ± 7.0
$\boldsymbol{A^{dustEE}_{143}}$	0.1002	0.1004 ± 0.0068	D_{2000}	230.15	230.1 ± 1.8	χ^2_{H070p6}	0.820	0.88 ± 0.41
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.2242	0.223 ± 0.047	$n_{s,0.002}$	0.9682	0.9682 ± 0.0079	χ^2_{prior}	7.11	19.4 ± 5.5
$\boldsymbol{A^{dustEE}_{217}}$	0.645	0.65 ± 0.13	Y_P	0.2513	0.252 ± 0.014	χ^2_{CMB}	12928.5	12948.9 ± 6.8
$\boldsymbol{A^{dustTE}_{100}}$	0.1401	0.141 ± 0.038	Y_P^{BBN}	0.2526	0.253 ± 0.014			
$\boldsymbol{A^{dustTE}_{100\times143}}$	0.1313	0.132 ± 0.029	Age/Gyr	13.7926	13.794 ± 0.041			

Best-fit $\chi^2_{eff} = 12936.39$; $\bar{\chi}^2_{eff} = 12969.14$; $R - 1 = 0.01089$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10496.76 plik_dx11dr2_HM_v18_TTTEEE: 2431.70 Hubble - H070p6: 0.82

23.13 base_yhe_plikHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022340	0.02234 ± 0.00019	$\boldsymbol{A^{\mathrm{dust}TE}_{143\times217}}$	0.335	0.339 ± 0.082	z_{drag}	1059.89	1059.91 ± 0.79
$\boldsymbol{\Omega_c h^2}$	0.11875	0.1188 ± 0.0010	$\boldsymbol{A^{\mathrm{dust}TE}_{217}}$	1.655	1.66 ± 0.25	r_{drag}	147.446	147.44 ± 0.30
$\boldsymbol{100\theta_{\mathrm{MC}}}$	1.04106	$1.04107^{+0.00058}_{-0.00052}$	$\boldsymbol{c_{100}}$	0.99816	0.99816 ± 0.00076	k_{D}	0.140314	0.14031 ± 0.00037
$\boldsymbol{\tau}$	0.0669	0.067 ± 0.012	$\boldsymbol{c_{217}}$	0.99607	0.9960 ± 0.0015	$100\theta_{\mathrm{D}}$	0.161026	0.16104 ± 0.00048
$\boldsymbol{Y_{\mathrm{P}}}$	0.2492	$0.249^{+0.014}_{-0.013}$	H_0	67.82	67.81 ± 0.53	z_{eq}	3371.5	3372 ± 23
$\boldsymbol{\ln(10^{10}A_{\mathrm{s}})}$	3.0663	3.066 ± 0.024	Ω_Λ	0.6918	0.6916 ± 0.0065	k_{eq}	0.010290	0.010292 ± 0.000071
$\boldsymbol{n_{\mathrm{s}}}$	0.9686	$0.9683^{+0.0063}_{-0.0075}$	Ω_{m}	0.3082	0.3084 ± 0.0065	$100\theta_{\mathrm{eq}}$	0.81883	$0.8188^{+0.0042}_{-0.0047}$
$\boldsymbol{y_{\mathrm{cal}}}$	1.00007	1.0001 ± 0.0025	$\Omega_{\mathrm{m}}h^2$	0.14173	0.14176 ± 0.00097	$100\theta_{\mathrm{s,eq}}$	0.45230	0.4523 ± 0.0022
$\boldsymbol{A^{\mathrm{CIB}}_{217}}$	68.1	64.6 ± 6.5	$\Omega_{\mathrm{m}}h^3$	0.09612	0.09612 ± 0.00054	$r_{\mathrm{drag}}/D_{\mathrm{V}}(0.57)$	0.071760	0.07176 ± 0.00036
$\boldsymbol{\xi^{\mathrm{tSZ}\times\mathrm{CIB}}}$	0.00	—	σ_8	0.8173	0.8170 ± 0.0096	$H(0.57)$	93.106	93.11 ± 0.30
$\boldsymbol{A^{\mathrm{tSZ}}_{143}}$	7.32	5.16 ± 2.0	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4537	0.4537 ± 0.0060	$D_{\mathrm{A}}(0.57)$	1384.7	1384.8 ± 7.5
$\boldsymbol{A^{\mathrm{PS}}_{100}}$	258.1	264 ± 28	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6090	0.6088 ± 0.0069	$F_{\mathrm{AP}}(0.57)$	0.67519	0.6752 ± 0.0017
$\boldsymbol{A^{\mathrm{PS}}_{143}}$	39.1	44 ± 8	$\sigma_8/h^{0.5}$	0.9925	0.992 ± 0.011	$f\sigma_8(0.57)$	0.4743	0.4742 ± 0.0053
$\boldsymbol{A^{PS}_{143\times217}}$	32.8	39^{+9}_{-10}	$\langle d^2\rangle^{1/2}$	2.4521	2.452 ± 0.025	$\sigma_8(0.57)$	0.6088	0.6086 ± 0.0078
$\boldsymbol{A^{\mathrm{PS}}_{217}}$	96.5	96.5^{+10}_{-12}	z_{re}	8.93	8.85 ± 1.2	f^{143}_{2000}	30.08	$30.5^{+3.0}_{-3.4}$
$\boldsymbol{A^{\mathrm{kSZ}}}$	0.00	< 5.05	10^9A_{s}	2.146	2.145 ± 0.051	$f^{143\times217}_{2000}$	32.78	32.9 ± 2.2
$\boldsymbol{A^{\mathrm{dust}TT}_{100}}$	7.49	7.60 ± 1.9	$10^9A_{\mathrm{s}}e^{-2\tau}$	1.8774	1.878 ± 0.012	f^{217}_{2000}	106.26	$106.4^{+2.0}_{-2.3}$
$\boldsymbol{A^{\mathrm{dust}TT}_{143}}$	9.10	9.12 ± 1.9	D_{40}	1225.8	1227 ± 14	$\chi^2_{\mathrm{lensing}}$	9.74	10.4 ± 1.8
$\boldsymbol{A^{\mathrm{dust}TT}_{143\times217}}$	17.68	17.3 ± 4.1	D_{220}	5724.1	5726 ± 38	χ^2_{lowTEB}	10494.92	10495.4 ± 1.3
$\boldsymbol{A^{\mathrm{dust}TT}_{217}}$	81.7	81.7 ± 7.2	D_{810}	2534.1	2534 ± 13	χ^2_{plik}	2435.4	2454.4 ± 6.8
$\boldsymbol{A^{\mathrm{dust}EE}_{100}}$	0.0816	0.0817 ± 0.0056	D_{1420}	814.76	814.5 ± 4.8	χ^2_{H070p6}	0.702	0.73 ± 0.27
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times143}}$	0.0492	0.0494 ± 0.0050	D_{2000}	229.96	229.8 ± 1.9	χ^2_{JLA}	706.661	706.70 ± 0.16
$\boldsymbol{A^{\mathrm{dust}EE}_{100\times217}}$	0.0998	0.099 ± 0.032	$n_{\mathrm{s},0.002}$	0.9686	$0.9683^{+0.0063}_{-0.0075}$	χ^2_{6DF}	0.0102	0.040 ± 0.053
$\boldsymbol{A^{\mathrm{dust}EE}_{143}}$	0.1008	0.1005 ± 0.0068	Y_{P}	0.2492	$0.249^{+0.014}_{-0.013}$	χ^2_{MGS}	1.407	1.46 ± 0.48
$\boldsymbol{A^{\mathrm{dust}EE}_{143\times217}}$	0.2227	0.225 ± 0.047	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2506	$0.251^{+0.014}_{-0.013}$	$\chi^2_{\mathrm{DR11CMASS}}$	2.412	2.74 ± 0.46
$\boldsymbol{A^{\mathrm{dust}EE}_{217}}$	0.652	0.66 ± 0.13	Age/Gyr	13.7912	13.791 ± 0.034	$\chi^2_{\mathrm{DR11LOWZ}}$	0.483	0.59 ± 0.45
$\boldsymbol{A^{\mathrm{dust}TE}_{100}}$	0.1411	0.142 ± 0.039	z_*	1090.003	1090.02 ± 0.43	χ^2_{prior}	7.27	19.7 ± 5.6
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times143}}$	0.1318	0.133 ± 0.030	r_*	144.765	144.76 ± 0.27	χ^2_{CMB}	12940.0	12960.2 ± 6.6
$\boldsymbol{A^{\mathrm{dust}TE}_{100\times217}}$	0.304	0.303 ± 0.083	$100\theta_*$	1.041144	1.04115 ± 0.00029	χ^2_{BAO}	4.312	4.83 ± 0.68
$\boldsymbol{A^{\mathrm{dust}TE}_{143}}$	0.152	0.156 ± 0.054	$D_{\mathrm{A}}/\mathrm{Gpc}$	13.9044	13.904 ± 0.027			

Best-fit $\chi^2_{\mathrm{eff}} = 13658.97$; $\bar{\chi}^2_{\mathrm{eff}} = 13692.15$; $R-1 = 0.04496$

χ^2_{eff}: BAO - 6DF: 0.01 MGS: 1.41 DR11CMASS: 2.41 DR11LOWZ: 0.48 CMB - smica_g30_ftl_full_pp: 9.74 lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10494.92 plik_dx11dr2_HM_v18_TTT

23.14 base_yhe_plikHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02231 ± 0.00022	$\boldsymbol{A^{dustTE}_{100\times143}}$	0.132 ± 0.029	Y_P^{BBN}	0.252 ± 0.014
$\boldsymbol{\Omega_c h^2}$	0.1197 ± 0.0015	$\boldsymbol{A^{dustTE}_{100\times217}}$	0.303 ± 0.084	Age/Gyr	13.801 ± 0.041
$\boldsymbol{100\theta_{MC}}$	1.04096 ± 0.00059	$\boldsymbol{A^{dustTE}_{143}}$	0.155 ± 0.054	z_*	1090.18 ± 0.44
$\boldsymbol{\tau}$	0.082 ± 0.017	$\boldsymbol{A^{dustTE}_{143\times217}}$	0.339 ± 0.080	r_*	144.54 ± 0.33
$\boldsymbol{Y_P}$	0.250 ± 0.014	$\boldsymbol{A^{dustTE}_{217}}$	1.67 ± 0.25	$100\theta_*$	1.04103 ± 0.00034
$\boldsymbol{\ln(10^{10}A_s)}$	3.100 ± 0.034	$\boldsymbol{c_{100}}$	0.99816 ± 0.00077	D_A/Gpc	13.884 ± 0.031
$\boldsymbol{n_s}$	0.9670 ± 0.0080	$\boldsymbol{c_{217}}$	0.9960 ± 0.0014	z_{drag}	1059.94 ± 0.86
$\boldsymbol{y_{cal}}$	1.0005 ± 0.0025	H_0	67.43 ± 0.76	r_{drag}	147.22 ± 0.34
$\boldsymbol{A^{CIB}_{217}}$	64.1 ± 6.6	Ω_Λ	0.6860 ± 0.0098	k_D	0.14048 ± 0.00043
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	Ω_m	0.3140 ± 0.0098	$100\theta_D$	0.16108 ± 0.00048
$\boldsymbol{A^{tSZ}_{143}}$	5.27 ± 1.9	$\Omega_m h^2$	0.1427 ± 0.0014	z_{eq}	3394 ± 32
$\boldsymbol{A^{PS}_{100}}$	262 ± 28	$\Omega_m h^3$	0.09618 ± 0.00057	k_{eq}	0.010358 ± 0.000099
$\boldsymbol{A^{PS}_{143}}$	44 ± 8	σ_8	0.834 ± 0.014	$100\theta_{eq}$	0.8147 ± 0.0063
$\boldsymbol{A^{PS}_{143\times217}}$	40 ± 10	$\sigma_8\Omega_m^{0.5}$	0.4674 ± 0.0097	$100\theta_{s,eq}$	0.4502 ± 0.0032
$\boldsymbol{A^{PS}_{217}}$	98 ± 10	$\sigma_8\Omega_m^{0.25}$	0.624 ± 0.011	$r_{drag}/D_V(0.57)$	0.07144 ± 0.00053
$\boldsymbol{A^{kSZ}}$	< 4.35	$\sigma_8/h^{0.5}$	1.016 ± 0.017	$H(0.57)$	92.97 ± 0.39
$\boldsymbol{A^{dustTT}_{100}}$	7.46 ± 1.9	$\langle d^2\rangle^{1/2}$	2.508 ± 0.038	$D_A(0.57)$	1390 ± 11
$\boldsymbol{A^{dustTT}_{143}}$	9.00 ± 1.9	z_{re}	10.3 ± 1.5	$F_{AP}(0.57)$	0.6766 ± 0.0025
$\boldsymbol{A^{dustTT}_{143\times217}}$	17.1 ± 4.1	$10^9 A_s$	$2.222^{+0.074}_{-0.086}$	$f\sigma_8(0.57)$	0.4856 ± 0.0082
$\boldsymbol{A^{dustTT}_{217}}$	81.8 ± 7.4	$10^9 A_s e^{-2\tau}$	1.884 ± 0.013	$\sigma_8(0.57)$	$0.620^{+0.011}_{-0.013}$
$\boldsymbol{A^{dustEE}_{100}}$	0.0812 ± 0.0057	D_{40}	1239 ± 16	f^{143}_{2000}	30.1 ± 3.0
$\boldsymbol{A^{dustEE}_{100\times143}}$	0.0489 ± 0.0050	D_{220}	5728 ± 38	$f^{143\times217}_{2000}$	32.7 ± 2.2
$\boldsymbol{A^{dustEE}_{100\times217}}$	0.0995 ± 0.032	D_{810}	2536 ± 14	f^{217}_{2000}	106.2 ± 2.1
$\boldsymbol{A^{dustEE}_{143}}$	0.1002 ± 0.0069	D_{1420}	814.3 ± 4.8	χ^2_{lowTEB}	10497.6 ± 2.4
$\boldsymbol{A^{dustEE}_{143\times217}}$	0.223 ± 0.047	D_{2000}	230.1 ± 1.8	χ^2_{plik}	2451.2 ± 7.0
$\boldsymbol{A^{dustEE}_{217}}$	0.65 ± 0.13	$n_{s,0.002}$	0.9670 ± 0.0080	χ^2_{prior}	19.3 ± 5.5
$\boldsymbol{A^{dustTE}_{100}}$	0.141 ± 0.038	Y_P	0.250 ± 0.014	χ^2_{CMB}	12948.9 ± 6.8

$\bar{\chi}^2_{eff} = 12968.22$; $R - 1 = 0.01017$

23.15 base_yhe_CamSpecHM_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022316	0.02230 ± 0.00034 (-0.0σ)	$\boldsymbol{\beta_1^1}$	0.03	-0.1 ± 1.0	r_*	144.621	144.66 ± 0.48 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11930	0.1193 ± 0.0023 (-0.1σ)	H_0	67.66	67.6 ± 1.2 $(+0.0\sigma)$	$100\theta_*$	1.04120	1.04119 ± 0.00052 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04125	1.04113 ± 0.00094 $(+0.0\sigma)$	Ω_Λ	0.6893	0.689 ± 0.016 $(+0.1\sigma)$	$z_{\rm drag}$	1060.05	1059.9 ± 1.3 (-0.1σ)
$\boldsymbol{\tau}$	0.0794	0.082 ± 0.021 $(+0.0\sigma)$	$\Omega_{\rm m}$	0.3107	0.311 ± 0.016 (-0.1σ)	$r_{\rm drag}$	147.310	147.36 ± 0.49 $(+0.1\sigma)$
$\boldsymbol{Y_P}$	0.2542	0.250 ± 0.021 (-0.1σ)	$\Omega_{\rm m}h^2$	0.14226	0.1422 ± 0.0021 (-0.1σ)	$k_{\rm D}$	0.14024	0.14032 ± 0.00076 (-0.0σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.0908	3.095 ± 0.042 (-0.0σ)	$\Omega_{\rm m}h^3$	0.09626	0.09616 ± 0.00082 (-0.0σ)	$100\theta_{\rm D}$	0.16129	0.16115 ± 0.00077 (-0.1σ)
$\boldsymbol{n_s}$	0.9712	0.971 ± 0.012 $(+0.1\sigma)$	σ_8	0.8305	$0.832^{+0.016}_{-0.018}$ (-0.0σ)	$z_{\rm eq}$	3384	3383 ± 51 (-0.1σ)
$\boldsymbol{y_{cal}}$	0.99989	1.0003 ± 0.0025 (-0.1σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4629	0.464 ± 0.013 (-0.1σ)	$100\theta_{\rm eq}$	0.8166	0.817 ± 0.010 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	251.5	247 ± 23 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6201	0.621 ± 0.013 (-0.1σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07163	0.07163 ± 0.00087 $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	37.1	40 ± 9 (-0.6σ)	$\sigma_8/h^{0.5}$	1.0096	1.011 ± 0.020 (-0.0σ)	$H(0.57)$	93.08	$93.06^{+0.61}_{-0.68}$ $(+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	95.3	98 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.4821	2.488 ± 0.047 (-0.1σ)	$D_{\rm A}(0.57)$	1386.5	1387 ± 17 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	48.4	46 ± 7 (-2.7σ)	$z_{\rm re}$	10.13	10.2 ± 1.9 $(+0.0\sigma)$	$F_{\rm AP}(0.57)$	0.67584	0.6759 ± 0.0040 (-0.1σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.20	$3.19^{+1.3}_{-2.7}$ (-0.9σ)	$10^9A_{\rm s}$	2.200	$2.211^{+0.086}_{-0.10}$ (-0.0σ)	$f\sigma_8(0.57)$	0.4827	0.4834 ± 0.0097 (-0.0σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.422	$0.52^{+0.10}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.8767	1.877 ± 0.015 (-0.4σ)	$\sigma_8(0.57)$	0.6180	$0.619^{+0.013}_{-0.015}$ (-0.0σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.000	< 0.584 (-0.2σ)	D_{40}	1222.1	1225 ± 21 (-0.4σ)	f_{2000}^{143}	30.37	29 ± 4 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	5.40	$5.40^{+4.3}_{-1.8}$ $(+0.6\sigma)$	D_{220}	5692.7	5696 ± 41 (-0.6σ)	f_{2000}^{217}	107.49	106.8 ± 2.7 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.993	0.99 ± 0.19	D_{810}	2528.7	2531 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	32.80	32.1 ± 2.9 (-0.3σ)
$\boldsymbol{A_{143}^{dust}}$	1.025	1.03 ± 0.18	D_{1420}	812.3	813.8 ± 5.4 (-0.1σ)	$\chi^2_{\rm lowTEB}$	10495.28	10496.7 ± 2.6 (-0.2σ)
$\boldsymbol{A_{217}^{dust}}$	1.214	1.22 ± 0.12	$n_{\rm s,0.002}$	0.9712	0.971 ± 0.012 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8045.5	8060.4 ± 6.0
$\boldsymbol{A_{143\times217}^{dust}}$	0.971	0.98 ± 0.18	$Y_{\rm P}$	0.2542	0.250 ± 0.021 (-0.1σ)	$\chi^2_{\rm prior}$	3.53	8.47 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{c_{100}}$	0.99670	0.99677 ± 0.00096 (-1.4σ)	Age/Gyr	13.790	13.795 ± 0.065 (-0.0σ)	$\chi^2_{\rm CMB}$	18540.7	18557.1 ± 5.8 $(+1282.4\sigma)$
$\boldsymbol{c_{217}}$	0.99754	0.9973 ± 0.0018 $(+0.9\sigma)$	z_*	1090.29	1090.16 ± 0.65 (-0.1σ)			

Best-fit $\chi^2_{\rm eff} = 18544.26$; $\Delta\chi^2_{\rm eff} = 7282.35$; $\bar{\chi}^2_{\rm eff} = 18565.54$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.70$; $R - 1 = 0.00828$

$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.28 (Δ -0.95) CamSpec like_v9.10CMH_unified: 8045.45

23.16 base_yhe_CamSpecHM_TT_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02233 \pm 0.00026 \quad (-0.1\sigma)$	Ω_Λ	$0.6911 \pm 0.0080 \quad (+0.0\sigma)$	k_D	$0.14023 \pm 0.00058 \quad (+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0013 \quad (-0.0\sigma)$	Ω_m	$0.3089 \pm 0.0080 \quad (-0.0\sigma)$	$100\theta_D$	$0.16119 \pm 0.00072 \quad (-0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04122 \pm 0.00073 \quad (-0.0\sigma)$	$\Omega_m h^2$	$0.1419 \pm 0.0012 \quad (-0.1\sigma)$	z_{eq}	$3376 \pm 30 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.083 \pm 0.018 \quad (+0.0\sigma)$	$\Omega_m h^3$	$0.09620 \pm 0.00074 \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.8182 \pm 0.0054 \quad (+0.0\sigma)$
$\boldsymbol{Y_P}$	$0.252^{+0.020}_{-0.018} \quad (-0.1\sigma)$	σ_8	$0.832 \pm 0.016 \quad (-0.0\sigma)$	$r_{drag}/D_V(0.57)$	$0.07174 \pm 0.00044 \quad (+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.097 \pm 0.037 \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.462 \pm 0.010 \quad (-0.0\sigma)$	$H(0.57)$	$93.12 \pm 0.38 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.9720 \pm 0.0085 \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.620 \pm 0.012 \quad (-0.1\sigma)$	$D_A(0.57)$	$1384.9 \pm 9.3 \quad (+0.0\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.011 \pm 0.019 \quad (-0.0\sigma)$	$F_{AP}(0.57)$	$0.6754 \pm 0.0020 \quad (-0.0\sigma)$
$\boldsymbol{A^{PS}_{100}}$	$247 \pm 24 \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.485 \pm 0.042 \quad (-0.2\sigma)$	$f\sigma_8(0.57)$	$0.4830 \pm 0.0096 \quad (-0.1\sigma)$
$\boldsymbol{A^{PS}_{143}}$	$40 \pm 8 \quad (-0.6\sigma)$	z_{re}	$10.3^{+1.8}_{-1.6} \quad (+0.0\sigma)$	$\sigma_8(0.57)$	$0.620 \pm 0.013 \quad (-0.0\sigma)$
$\boldsymbol{A^{PS}_{217}}$	$98 \pm 10 \quad (+0.1\sigma)$	$10^9 A_s$	$2.215 \pm 0.082 \quad (-0.1\sigma)$	f^{143}_{2000}	$29 \pm 4 \quad (-0.4\sigma)$
$\boldsymbol{A^{CIB}_{217}}$	$46 \pm 7 \quad (-2.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.876 \pm 0.015 \quad (-0.4\sigma)$	f^{217}_{2000}	$106.8 \pm 2.6 \quad (+0.1\sigma)$
$\boldsymbol{A^{tSZ}_{143}}$	$3.16^{+1.2}_{-2.7} \quad (-0.9\sigma)$	D_{40}	$1223 \pm 17 \quad (-0.4\sigma)$	$f^{143\times217}_{2000}$	$32.2 \pm 2.9 \quad (-0.3\sigma)$
$\boldsymbol{r^{PS}_{143\times217}}$	$0.52^{+0.10}_{-0.12}$	D_{220}	$5696 \pm 41 \quad (-0.6\sigma)$	χ^2_{lowTEB}	$10496.3 \pm 2.4 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.583 \quad (-0.2\sigma)$	D_{810}	$2530 \pm 14 \quad (-0.4\sigma)$	$\chi^2_{CamSpec}$	8060.1 ± 6.0
$\boldsymbol{A^{kSZ}}$	$5.40^{+4.3}_{-1.8} \quad (+0.6\sigma)$	D_{1420}	$813.8 \pm 5.4 \quad (-0.1\sigma)$	χ^2_{6DF}	$0.057 \pm 0.077 \quad (-0.0\sigma)$
$\boldsymbol{A^{dust}_{100}}$	0.99 ± 0.19	$n_{s,0.002}$	$0.9720 \pm 0.0085 \quad (+0.1\sigma)$	χ^2_{MGS}	$1.45 \pm 0.58 \quad (+0.0\sigma)$
$\boldsymbol{A^{dust}_{143}}$	1.03 ± 0.18	Y_P	$0.252^{+0.020}_{-0.018} \quad (-0.1\sigma)$	$\chi^2_{DR11CMASS}$	$2.90 \pm 0.71 \quad (-0.0\sigma)$
$\boldsymbol{A^{dust}_{217}}$	1.22 ± 0.12	Age/Gyr	$13.788 \pm 0.044 \quad (+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.66 \pm 0.59 \quad (-0.0\sigma)$
$\boldsymbol{A^{dust}_{143\times217}}$	0.98 ± 0.18	z_*	$1090.16 \pm 0.65 \quad (-0.1\sigma)$	χ^2_{prior}	$8.47 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99678 \pm 0.00096 \quad (-1.4\sigma)$	r_*	$144.72 \pm 0.37 \quad (+0.1\sigma)$	χ^2_{CMB}	$18556.4 \pm 5.7 \quad (+1313.9\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	$100\theta_*$	$1.04123 \pm 0.00042 \quad (+0.1\sigma)$	χ^2_{BAO}	$5.07 \pm 1.1 \quad (-0.0\sigma)$
$\boldsymbol{\beta^1_1}$	0.0 ± 1.0	z_{drag}	$1060.0 \pm 1.1 \quad (-0.1\sigma)$		
H_0	$67.80 \pm 0.65 \quad (-0.0\sigma)$	r_{drag}	$147.40 \pm 0.42 \quad (+0.1\sigma)$		

$\bar{\chi}^2_{eff} = 18569.94$; $\Delta\bar{\chi}^2_{eff} = 7282.55$; $R - 1 = 0.01217$

23.17 base_yhe_CamSpecHM_TT_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02235 \pm 0.00032 \quad (-0.0\sigma)$	$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	$144.73 \pm 0.46 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1188 \pm 0.0021 \quad (-0.1\sigma)$	H_0	$67.9 \pm 1.1 \quad (+0.0\sigma)$	$100\theta_*$	$1.04125 \pm 0.00050 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04126 \pm 0.00090 \quad (+0.0\sigma)$	Ω_Λ	$0.692 \pm 0.014 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1060.0 \pm 1.3 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.084 \pm 0.021 \quad (+0.0\sigma)$	$\Omega_{\rm m}$	$0.308 \pm 0.014 \quad (-0.1\sigma)$	$r_{\rm drag}$	$147.41 \pm 0.47 \quad (+0.1\sigma)$
$\boldsymbol{Y_P}$	$0.252 \pm 0.021 \quad (-0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1418 \pm 0.0019 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14021 \pm 0.00072 \quad (-0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.099 \pm 0.041 \quad (-0.0\sigma)$	$\Omega_{\rm m}h^3$	$0.09624 \pm 0.00081 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16120 \pm 0.00077 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.973 \pm 0.011 \quad (+0.1\sigma)$	σ_8	$0.832 \pm 0.017 \quad (-0.0\sigma)$	$z_{\rm eq}$	$3374 \pm 47 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.462 \pm 0.013 \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8187 \pm 0.0092 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 24 \quad (-0.5\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.620 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07179 \pm 0.00080 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 8 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.011 \pm 0.020 \quad (-0.0\sigma)$	$H(0.57)$	$93.16^{+0.56}_{-0.63} \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	$2.484 \pm 0.046 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1384 \pm 16 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$z_{\rm re}$	$10.4 \pm 1.8 \quad (+0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6752 \pm 0.0036 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.17^{+1.3}_{-2.7} \quad (-0.9\sigma)$	$10^9 A_{\rm s}$	$2.219^{+0.086}_{-0.10} \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.4830 \pm 0.0098 \quad (-0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.10}_{-0.12}$	$10^9 A_{\rm s}e^{-2\tau}$	$1.876 \pm 0.015 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.620^{+0.013}_{-0.015} \quad (-0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.585 \quad (-0.2\sigma)$	D_{40}	$1223 \pm 20 \quad (-0.4\sigma)$	f_{2000}^{143}	$29 \pm 4 \quad (-0.4\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.42^{+4.4}_{-1.7} \quad (+0.6\sigma)$	D_{220}	$5697 \pm 41 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.9 \pm 2.7 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	$2531 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.2 \pm 2.9 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{1420}	$813.9 \pm 5.4 \quad (-0.1\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.5 \pm 2.6 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	$0.973 \pm 0.011 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8060.5 ± 6.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.252 \pm 0.021 \quad (-0.1\sigma)$	$\chi^2_{\rm JLA}$	$706.83 \pm 0.42 \quad (-0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00096 \quad (-1.4\sigma)$	Age/Gyr	$13.785 \pm 0.061 \quad (+0.0\sigma)$	$\chi^2_{\rm prior}$	$8.45 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	z_*	$1090.15 \pm 0.65 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18557.0 \pm 5.9 \quad (+1293.8\sigma)$

$\bar{\chi}^2_{\rm eff} = 19272.28$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.68$; $R - 1 = 0.00796$

23.18 base_yhe_CamSpecHM_TT_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02231^{+0.00032}_{-0.00036}$ (-0.0σ)	$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	144.92 ± 0.44 $(+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1183 ± 0.0021 (-0.0σ)	H_0	68.0 ± 1.2 $(+0.0\sigma)$	$100\theta_*$	1.04130 ± 0.00051 $(+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04121 ± 0.00092 (-0.0σ)	Ω_Λ	0.694 ± 0.014 $(+0.0\sigma)$	$z_{\rm drag}$	1059.8 ± 1.3 (-0.1σ)
$\boldsymbol{\tau}$	0.071 ± 0.018 $(+0.1\sigma)$	$\Omega_{\rm m}$	0.306 ± 0.014 (-0.0σ)	$r_{\rm drag}$	147.61 ± 0.45 $(+0.1\sigma)$
$\boldsymbol{Y_P}$	0.249 ± 0.021 (-0.1σ)	$\Omega_{\rm m}h^2$	0.1412 ± 0.0019 (-0.0σ)	$k_{\rm D}$	0.14011 ± 0.00071 $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.070^{+0.032}_{-0.037}$ $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09604 ± 0.00082 (-0.0σ)	$100\theta_{\rm D}$	0.16112 ± 0.00077 (-0.1σ)
$\boldsymbol{n_s}$	$0.972^{+0.011}_{-0.013}$ $(+0.1\sigma)$	σ_8	0.819 ± 0.012 $(+0.1\sigma)$	$z_{\rm eq}$	3359 ± 46 (-0.0σ)
$\boldsymbol{y_{cal}}$	1.0000 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4523 ± 0.0090 $(+0.1\sigma)$	$100\theta_{\rm eq}$	0.8212 ± 0.0093 $(+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	248 ± 24 (-0.5σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.6084 ± 0.0078 $(+0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07195 ± 0.00082 $(+0.0\sigma)$
$\boldsymbol{A_{143}^{PS}}$	40 ± 9 (-0.6σ)	$\sigma_8/h^{0.5}$	0.992 ± 0.012 $(+0.1\sigma)$	$H(0.57)$	$93.18^{+0.58}_{-0.68}$ (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	97 ± 10 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.445 ± 0.028 (-0.0σ)	$D_{\rm A}(0.57)$	1382 ± 16 (-0.0σ)
$\boldsymbol{A_{217}^{CIB}}$	47 ± 7 (-2.7σ)	$z_{\rm re}$	$9.21^{+1.7}_{-1.6}$ $(+0.1\sigma)$	$F_{\rm AP}(0.57)$	0.6745 ± 0.0037 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.16^{+1.2}_{-2.7}$ (-0.9σ)	$10^9A_{\rm s}$	$2.156^{+0.066}_{-0.082}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4742 ± 0.0058 $(+0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.10}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	1.871 ± 0.014 (-0.3σ)	$\sigma_8(0.57)$	$0.610^{+0.011}_{-0.012}$ $(+0.1\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.581 (-0.2σ)	D_{40}	1217 ± 19 (-0.3σ)	f_{2000}^{143}	30 ± 4 (-0.4σ)
$\boldsymbol{A^{kSZ}}$	> 4.14 $(+0.6\sigma)$	D_{220}	5695 ± 41 (-0.5σ)	f_{2000}^{217}	106.9 ± 2.6 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	2529 ± 14 (-0.3σ)	$f_{2000}^{143\times217}$	32.4 ± 2.9 (-0.3σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{1420}	813.9 ± 5.3 (-0.0σ)	$\chi^2_{\rm lensing}$	9.86 ± 1.5 (-0.1σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.11	$n_{\rm s,0.002}$	$0.972^{+0.011}_{-0.013}$ $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10495.1 ± 1.8 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	$Y_{\rm P}$	0.249 ± 0.021 (-0.1σ)	$\chi^2_{\rm CamSpec}$	8062.1 ± 6.0
$\boldsymbol{c_{100}}$	0.99676 ± 0.00097 (-1.4σ)	Age/Gyr	13.788 ± 0.065 $(+0.0\sigma)$	$\chi^2_{\rm prior}$	8.41 ± 3.5 $(+0.2\sigma)$
$\boldsymbol{c_{217}}$	0.9974 ± 0.0018 $(+0.9\sigma)$	z_*	1090.02 ± 0.64 (-0.1σ)	$\chi^2_{\rm CMB}$	18567.1 ± 6.0 $(+1247.3\sigma)$

$\bar{\chi}^2_{\rm eff} = 18575.53$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.07$; $R - 1 = 0.02011$

23.19 base_yhe_CamSpecHM_TT_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00033 \quad (-0.0\sigma)$	$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	$144.75 \pm 0.47 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1186 \pm 0.0022 \quad (-0.1\sigma)$	H_0	$68.0 \pm 1.2 \quad (+0.0\sigma)$	$100\theta_*$	$1.04129 \pm 0.00051 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04135 \pm 0.00091 \quad (+0.0\sigma)$	Ω_Λ	$0.693^{+0.016}_{-0.014} \quad (+0.1\sigma)$	$z_{\rm drag}$	$1060.2 \pm 1.3 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.085 \pm 0.021 \quad (+0.0\sigma)$	$\Omega_{\rm m}$	$0.307^{+0.014}_{-0.016} \quad (-0.1\sigma)$	$r_{\rm drag}$	$147.42 \pm 0.48 \quad (+0.1\sigma)$
$\boldsymbol{Y_P}$	$0.254 \pm 0.021 \quad (-0.1\sigma)$	$\Omega_{\rm m}h^2$	$0.1417 \pm 0.0020 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14016 \pm 0.00074 \quad (-0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.102 \pm 0.042 \quad (-0.0\sigma)$	$\Omega_{\rm m}h^3$	$0.09630 \pm 0.00081 \quad (-0.1\sigma)$	$100\theta_{\rm D}$	$0.16125 \pm 0.00077 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.974 \pm 0.012 \quad (+0.1\sigma)$	σ_8	$0.833 \pm 0.017 \quad (-0.0\sigma)$	$z_{\rm eq}$	$3370 \pm 48 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8\Omega_{\rm m}^{0.5}$	$0.461 \pm 0.013 \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.8196 \pm 0.0096 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 24 \quad (-0.5\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	$0.620 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07188 \pm 0.00083 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 9 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.011 \pm 0.020 \quad (-0.0\sigma)$	$H(0.57)$	$93.23^{+0.58}_{-0.65} \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	$2.483 \pm 0.046 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1382 \pm 16 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$z_{\rm re}$	$10.5 \pm 1.8 \quad (+0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6748 \pm 0.0037 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.16^{+1.3}_{-2.7} \quad (-0.9\sigma)$	$10^9A_{\rm s}$	$2.225^{+0.086}_{-0.10} \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.4830 \pm 0.0098 \quad (-0.0\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.518^{+0.099}_{-0.12}$	$10^9A_{\rm s}e^{-2\tau}$	$1.876 \pm 0.015 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.621^{+0.013}_{-0.015} \quad (-0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.583 \quad (-0.2\sigma)$	D_{40}	$1221 \pm 20 \quad (-0.4\sigma)$	f_{2000}^{143}	$30 \pm 4 \quad (-0.4\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.44^{+4.4}_{-1.6} \quad (+0.6\sigma)$	D_{220}	$5698 \pm 41 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.9 \pm 2.7 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	$2531 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.3 \pm 3.0 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{1420}	$813.9 \pm 5.4 \quad (-0.1\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.5 \pm 2.7 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	$0.974 \pm 0.012 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	8060.6 ± 6.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.254 \pm 0.021 \quad (-0.1\sigma)$	$\chi^2_{\rm H070p6}$	$0.74 \pm 0.56 \quad (-0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00096 \quad (-1.4\sigma)$	Age/Gyr	$13.778 \pm 0.063 \quad (+0.0\sigma)$	$\chi^2_{\rm prior}$	$8.45 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	z_*	$1090.16 \pm 0.65 \quad (-0.1\sigma)$	$\chi^2_{\rm CMB}$	$18557.1 \pm 5.9 \quad (+1286.5\sigma)$

$\bar{\chi}^2_{\rm eff} = 18566.28$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.66$; $R - 1 = 0.00827$

23.20 base_yhe_CamSpecHM_TT_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02230 \pm 0.00025 \quad (-0.1\sigma)$	Ω_m	$0.3056 \pm 0.0076 \quad (-0.0\sigma)$	z_{eq}	$3360 \pm 28 \quad (-0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1183 \pm 0.0012 \quad (-0.1\sigma)$	$\Omega_m h^2$	$0.1413 \pm 0.0012 \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.8210 \pm 0.0052 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04120 \pm 0.00073 \quad (-0.1\sigma)$	$\Omega_m h^3$	$0.09604 \pm 0.00073 \quad (-0.1\sigma)$	$r_{drag}/D_V(0.57)$	$0.07193 \pm 0.00043 \quad (+0.0\sigma)$
$\boldsymbol{\tau}$	$0.070 \pm 0.013 \quad (+0.2\sigma)$	σ_8	$0.819 \pm 0.011 \quad (+0.1\sigma)$	$H(0.57)$	$93.16 \pm 0.38 \quad (-0.0\sigma)$
$\boldsymbol{Y_P}$	$0.249 \pm 0.019 \quad (-0.1\sigma)$	$\sigma_8\Omega_m^{0.5}$	$0.4525 \pm 0.0067 \quad (+0.1\sigma)$	$D_A(0.57)$	$1382.6 \pm 9.1 \quad (+0.0\sigma)$
$\boldsymbol{\ln(10^{10}A_s)}$	$3.070 \pm 0.025 \quad (+0.1\sigma)$	$\sigma_8\Omega_m^{0.25}$	$0.6086 \pm 0.0076 \quad (+0.1\sigma)$	$F_{AP}(0.57)$	$0.6745 \pm 0.0019 \quad (-0.0\sigma)$
$\boldsymbol{n_s}$	$0.9717 \pm 0.0083 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.993 \pm 0.012 \quad (+0.2\sigma)$	$f\sigma_8(0.57)$	$0.4743 \pm 0.0058 \quad (+0.1\sigma)$
$\boldsymbol{y_{cal}}$	$0.99996 \pm 0.0025 \quad (-0.1\sigma)$	$\langle d^2\rangle^{1/2}$	$2.445 \pm 0.027 \quad (+0.0\sigma)$	$\sigma_8(0.57)$	$0.6104 \pm 0.0086 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$248 \pm 24 \quad (-0.5\sigma)$	z_{re}	$9.23^{+1.3}_{-1.1} \quad (+0.2\sigma)$	f_{2000}^{143}	$30 \pm 4 \quad (-0.4\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 9 \quad (-0.6\sigma)$	$10^9 A_s$	$2.154 \pm 0.054 \quad (+0.1\sigma)$	f_{2000}^{217}	$106.8 \pm 2.6 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$97 \pm 10 \quad (+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.870 \pm 0.014 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$32.3 \pm 2.9 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$47 \pm 7 \quad (-2.7\sigma)$	D_{40}	$1216 \pm 16 \quad (-0.4\sigma)$	$\chi^2_{lensing}$	$9.85 \pm 1.4 \quad (-0.0\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.15^{+1.1}_{-2.8} \quad (-0.9\sigma)$	D_{220}	$5694 \pm 40 \quad (-0.6\sigma)$	χ^2_{lowTEB}	$10494.8 \pm 1.5 \quad (-0.2\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.51^{+0.10}_{-0.12}$	D_{810}	$2528 \pm 14 \quad (-0.3\sigma)$	$\chi^2_{CamSpec}$	8061.8 ± 5.9
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.583 \quad (-0.2\sigma)$	D_{1420}	$813.8 \pm 5.3 \quad (-0.0\sigma)$	χ^2_{H070p6}	$0.65 \pm 0.30 \quad (+0.0\sigma)$
$\boldsymbol{A^{kSZ}}$	$> 4.11 \quad (+0.5\sigma)$	$n_{s,0.002}$	$0.9717 \pm 0.0083 \quad (+0.2\sigma)$	χ^2_{JLA}	$706.65 \pm 0.16 \quad (-0.0\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	Y_P	$0.249 \pm 0.019 \quad (-0.1\sigma)$	χ^2_{6DF}	$0.041 \pm 0.058 \quad (+0.0\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	Age/Gyr	$13.789 \pm 0.044 \quad (+0.1\sigma)$	χ^2_{MGS}	$1.70 \pm 0.60 \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	z_*	$1090.02 \pm 0.64 \quad (-0.1\sigma)$	$\chi^2_{DR11CMASS}$	$2.89 \pm 0.68 \quad (+0.0\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	r_*	$144.91 \pm 0.36 \quad (+0.1\sigma)$	$\chi^2_{DR11LOWZ}$	$0.44 \pm 0.45 \quad (-0.0\sigma)$
$\boldsymbol{c_{100}}$	$0.99677 \pm 0.00097 \quad (-1.4\sigma)$	$100\theta_*$	$1.04130 \pm 0.00042 \quad (+0.1\sigma)$	χ^2_{prior}	$8.43 \pm 3.4 \quad (+0.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9974 \pm 0.0018 \quad (+0.9\sigma)$	z_{drag}	$1059.8 \pm 1.1 \quad (-0.1\sigma)$	χ^2_{CMB}	$18566.5 \pm 5.8 \quad (+1277.6\sigma)$
$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_{drag}	$147.61 \pm 0.41 \quad (+0.1\sigma)$	χ^2_{BAO}	$5.08 \pm 1.0 \quad (+0.0\sigma)$
H_0	$67.99 \pm 0.64 \quad (-0.0\sigma)$	k_D	$0.14012 \pm 0.00057 \quad (+0.1\sigma)$		
Ω_Λ	$0.6944 \pm 0.0076 \quad (+0.0\sigma)$	$100\theta_D$	$0.16112 \pm 0.00072 \quad (-0.1\sigma)$		

$\bar{\chi}^2_{eff} = 19287.29$; $\Delta\bar{\chi}^2_{eff} = 7282.14$; $R - 1 = 0.02400$

23.21 base_yhe_CamSpecHM_TT_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02231 \pm 0.00033 \quad (-0.0\sigma)$	$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	$144.67 \pm 0.48 \quad (+0.1\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1192 \pm 0.0023 \quad (-0.1\sigma)$	H_0	$67.7 \pm 1.2 \quad (+0.0\sigma)$	$100\theta_*$	$1.04120 \pm 0.00052 \quad (+0.1\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04116 \pm 0.00094 \quad (+0.0\sigma)$	Ω_Λ	$0.689 \pm 0.015 \quad (+0.1\sigma)$	$z_{\rm drag}$	$1059.9 \pm 1.3 \quad (-0.1\sigma)$
$\boldsymbol{\tau}$	$0.083^{+0.018}_{-0.022} \quad (+0.0\sigma)$	$\Omega_{\rm m}$	$0.311 \pm 0.015 \quad (-0.1\sigma)$	$r_{\rm drag}$	$147.36 \pm 0.48 \quad (+0.1\sigma)$
$\boldsymbol{Y_P}$	$0.251 \pm 0.021 \quad (-0.1\sigma)$	$\Omega_{\rm m} h^2$	$0.1421 \pm 0.0021 \quad (-0.1\sigma)$	$k_{\rm D}$	$0.14030 \pm 0.00076 \quad (-0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.097^{+0.037}_{-0.045} \quad (-0.0\sigma)$	$\Omega_{\rm m} h^3$	$0.09618 \pm 0.00082 \quad (-0.0\sigma)$	$100\theta_{\rm D}$	$0.16116 \pm 0.00078 \quad (-0.1\sigma)$
$\boldsymbol{n_s}$	$0.971 \pm 0.012 \quad (+0.2\sigma)$	σ_8	$0.833^{+0.015}_{-0.018} \quad (-0.0\sigma)$	$z_{\rm eq}$	$3381 \pm 50 \quad (-0.1\sigma)$
$\boldsymbol{y_{cal}}$	$1.0002 \pm 0.0025 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.464 \pm 0.013 \quad (-0.1\sigma)$	$100\theta_{\rm eq}$	$0.817 \pm 0.010 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$247 \pm 24 \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.622 \pm 0.013 \quad (-0.1\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07166 \pm 0.00086 \quad (+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$40 \pm 9 \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$1.012 \pm 0.020 \quad (-0.1\sigma)$	$H(0.57)$	$93.08^{+0.59}_{-0.67} \quad (+0.0\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$98 \pm 10 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.490 \pm 0.046 \quad (-0.2\sigma)$	$D_{\rm A}(0.57)$	$1387 \pm 17 \quad (-0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$46 \pm 7 \quad (-2.7\sigma)$	$z_{\rm re}$	$10.3 \pm 1.7 \quad (+0.0\sigma)$	$F_{\rm AP}(0.57)$	$0.6758 \pm 0.0039 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.18^{+1.3}_{-2.7} \quad (-0.9\sigma)$	$10^9 A_{\rm s}$	$2.216^{+0.077}_{-0.10} \quad (-0.0\sigma)$	$f\sigma_8(0.57)$	$0.4838 \pm 0.0095 \quad (-0.1\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	$0.52^{+0.10}_{-0.12}$	$10^9 A_{\rm s} e^{-2\tau}$	$1.877 \pm 0.015 \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.620^{+0.012}_{-0.015} \quad (-0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.588 \quad (-0.2\sigma)$	D_{40}	$1225 \pm 21 \quad (-0.4\sigma)$	f_{2000}^{143}	$29 \pm 4 \quad (-0.4\sigma)$
$\boldsymbol{A^{kSZ}}$	$5.38^{+4.3}_{-1.8} \quad (+0.6\sigma)$	D_{220}	$5695 \pm 41 \quad (-0.6\sigma)$	f_{2000}^{217}	$106.8 \pm 2.7 \quad (+0.1\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{810}	$2531 \pm 14 \quad (-0.3\sigma)$	$f_{2000}^{143\times217}$	$32.1 \pm 3.0 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{1420}	$813.8 \pm 5.4 \quad (-0.1\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.7 \pm 2.7 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	$n_{\rm s,0.002}$	$0.971 \pm 0.012 \quad (+0.2\sigma)$	$\chi^2_{\rm CamSpec}$	8060.3 ± 6.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.251 \pm 0.021 \quad (-0.1\sigma)$	$\chi^2_{\rm prior}$	$8.47 \pm 3.5 \quad (+0.3\sigma)$
$\boldsymbol{c_{100}}$	$0.99676 \pm 0.00096 \quad (-1.4\sigma)$	Age/Gyr	$13.793 \pm 0.065 \quad (-0.0\sigma)$	$\chi^2_{\rm CMB}$	$18557.0 \pm 5.9 \quad (+1307.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9973 \pm 0.0018 \quad (+0.9\sigma)$	z_*	$1090.16 \pm 0.65 \quad (-0.1\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18565.51$; $\Delta\bar{\chi}^2_{\rm eff} = 7282.82$; $R - 1 = 0.00825$

23.22 base_yhe_CamSpecHM_TTTEEE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022365	0.02235 ± 0.00022 $(+0.2\sigma)$	$\boldsymbol{c_{EE}}$	1.0011	1.0006 ± 0.0055	r_*	144.665	144.69 ± 0.33 $(+0.5\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11911	0.1191 ± 0.0015 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.17	-0.1 ± 1.0	$100\theta_*$	1.041046	1.04102 ± 0.00034 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04087	1.04078 ± 0.00069 (-0.3σ)	H_0	67.64	67.61 ± 0.81 $(+0.3\sigma)$	$z_{\rm drag}$	1059.86	1059.75 ± 0.94 (-0.2σ)
$\boldsymbol{\tau}$	0.0779	0.078 ± 0.018 (-0.2σ)	Ω_Λ	0.6894	0.689 ± 0.010 $(+0.3\sigma)$	$r_{\rm drag}$	147.333	147.36 ± 0.33 $(+0.4\sigma)$
$\boldsymbol{Y_P}$	0.2456	0.243 ± 0.017 (-0.5σ)	$\Omega_{\rm m}$	0.3106	0.311 ± 0.010 (-0.3σ)	$k_{\rm D}$	0.14060	0.14066 ± 0.00056 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0861	3.086 ± 0.036 (-0.4σ)	$\Omega_{\rm m} h^2$	0.14212	0.1421 ± 0.0014 (-0.4σ)	$100\theta_{\rm D}$	0.16079	0.16070 ± 0.00064 (-0.8σ)
$\boldsymbol{n_s}$	0.9679	0.9675 ± 0.0089 $(+0.1\sigma)$	$\Omega_{\rm m} h^3$	0.09614	0.09606 ± 0.00059 (-0.2σ)	$z_{\rm eq}$	3380.8	3381 ± 33 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.00008	1.0003 ± 0.0025 (-0.1σ)	σ_8	0.8263	0.826 ± 0.015 (-0.5σ)	$100\theta_{\rm eq}$	0.8171	0.8171 ± 0.0065 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	245.1	243 ± 23 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4605	0.4606 ± 0.0096 (-0.7σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07161	0.07160 ± 0.00056 $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	35.1	38 ± 8 (-0.8σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6168	0.617 ± 0.011 (-0.7σ)	$H(0.57)$	93.041	93.01 ± 0.42 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	97.7	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.0046	1.005 ± 0.017 (-0.6σ)	$D_{\rm A}(0.57)$	1387.0	1388 ± 11 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	47.4	45 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.4817	2.483 ± 0.040 (-0.6σ)	$F_{\rm AP}(0.57)$	0.67580	0.6759 ± 0.0026 (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	3.96	$3.44^{+1.6}_{-2.6}$ (-1.0σ)	$z_{\rm re}$	9.93	$9.83^{+1.7}_{-1.6}$ (-0.3σ)	$f\sigma_8(0.57)$	0.4802	0.4800 ± 0.0083 (-0.6σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.438	0.52 ± 0.12	$10^9 A_{\rm s}$	2.189	2.190 ± 0.079 (-0.4σ)	$\sigma_8(0.57)$	0.6149	0.615 ± 0.012 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.002	< 0.610 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.8734	1.873 ± 0.013 (-0.9σ)	f_{2000}^{143}	28.66	28 ± 3 (-0.7σ)
$\boldsymbol{A^{kSZ}}$	3.94	—	D_{40}	1228.6	1230 ± 17 (-0.5σ)	f_{2000}^{217}	106.25	105.7 ± 2.4 (-0.2σ)
$\boldsymbol{A_{100}^{dust}}$	1.003	0.98 ± 0.19	D_{220}	5710.4	5711 ± 38 (-0.4σ)	$f_{2000}^{143\times217}$	31.37	30.9 ± 2.6 (-0.8σ)
$\boldsymbol{A_{143}^{dust}}$	1.010	1.02 ± 0.18	D_{810}	2529.1	2530 ± 13 (-0.5σ)	$\chi^2_{\rm lowTEB}$	10495.79	10496.7 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.211	1.22 ± 0.12	D_{1420}	814.25	815.1 ± 4.9 $(+0.2\sigma)$	$\chi^2_{\rm CamSpec}$	12936.2	12953.0 ± 6.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.966	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9679	0.9675 ± 0.0089 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	3.44	9.08 ± 3.6 (-1.9σ)
$\boldsymbol{c_{100}}$	0.99676	0.99680 ± 0.00098 (-1.7σ)	$Y_{\rm P}$	0.2456	0.243 ± 0.017 (-0.5σ)	$\chi^2_{\rm CMB}$	23432.0	23449.7 ± 6.1 $(+1542.1\sigma)$
$\boldsymbol{c_{217}}$	0.99719	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.7959	13.800 ± 0.044 (-0.0σ)			
$\boldsymbol{c_{TE}}$	1.00428	1.0041 ± 0.0047	z_*	1089.86	1089.78 ± 0.53 (-0.9σ)			

Best-fit $\chi^2_{\rm eff} = 23435.47$; $\Delta\chi^2_{\rm eff} = 10499.99$; $\bar{\chi}^2_{\rm eff} = 23458.73$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.38$; $R - 1 = 0.00713$
$\chi^2_{\rm eff}$: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.79 (Δ -1.18) CamSpec like_v9.10CMH_unified: 12936.23

23.23 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02238 \pm 0.00019 \quad (+0.1\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$z_{\rm drag}$	$1059.84 \pm 0.86 \quad (-0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0011 \quad (-0.4\sigma)$	H_0	$67.74 \pm 0.56 \quad (+0.1\sigma)$	$r_{\rm drag}$	$147.39 \pm 0.31 \quad (+0.3\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04085 \pm 0.00061 \quad (-0.4\sigma)$	Ω_Λ	$0.6907 \pm 0.0069 \quad (+0.2\sigma)$	$k_{\rm D}$	$0.14059 \pm 0.00047 \quad (+0.6\sigma)$
$\boldsymbol{\tau}$	$0.079 \pm 0.017 \quad (-0.3\sigma)$	$\Omega_{\rm m}$	$0.3093 \pm 0.0069 \quad (-0.2\sigma)$	$100\theta_{\rm D}$	$0.16074 \pm 0.00061 \quad (-0.8\sigma)$
$\boldsymbol{Y_P}$	$0.244 \pm 0.016 \quad (-0.6\sigma)$	$\Omega_{\rm m} h^2$	$0.1419 \pm 0.0010 \quad (-0.4\sigma)$	$z_{\rm eq}$	$3375 \pm 24 \quad (-0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.088 \pm 0.034 \quad (-0.5\sigma)$	$\Omega_{\rm m} h^3$	$0.09610 \pm 0.00056 \quad (-0.3\sigma)$	$100\theta_{\rm eq}$	$0.8182 \pm 0.0046 \quad (+0.3\sigma)$
$\boldsymbol{n_s}$	$0.9686 \pm 0.0074 \quad (-0.0\sigma)$	σ_8	$0.826 \pm 0.015 \quad (-0.6\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07169 \pm 0.00038 \quad (+0.2\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0024 \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4596 \pm 0.0087 \quad (-0.6\sigma)$	$H(0.57)$	$93.07 \pm 0.31 \quad (-0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$243 \pm 23 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.616 \pm 0.011 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1385.8 \pm 7.9 \quad (-0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.8\sigma)$	$\sigma_8/h^{0.5}$	$1.004 \pm 0.017 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6755 \pm 0.0017 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.480 \pm 0.039 \quad (-0.6\sigma)$	$f\sigma_8(0.57)$	$0.4799 \pm 0.0083 \quad (-0.6\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.9\sigma)$	$z_{\rm re}$	$9.96^{+1.6}_{-1.4} \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.615 \pm 0.011 \quad (-0.5\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.44^{+1.6}_{-2.5} \quad (-1.0\sigma)$	$10^9 A_{\rm s}$	$2.195 \pm 0.075 \quad (-0.5\sigma)$	f_{2000}^{143}	$28 \pm 3 \quad (-0.7\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s} e^{-2\tau}$	$1.873 \pm 0.013 \quad (-0.8\sigma)$	f_{2000}^{217}	$105.8 \pm 2.4 \quad (-0.2\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.608 \quad (-0.2\sigma)$	D_{40}	$1229 \pm 15 \quad (-0.5\sigma)$	$f_{2000}^{143\times217}$	$31.0 \pm 2.6 \quad (-0.8\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{220}	$5712 \pm 38 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.5 \pm 2.1 \quad (-0.4\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	D_{810}	$2530 \pm 13 \quad (-0.4\sigma)$	$\chi^2_{\rm CamSpec}$	12952.7 ± 6.0
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{1420}	$815.1 \pm 4.9 \quad (+0.1\sigma)$	$\chi^2_{\rm 6DF}$	$0.050 \pm 0.065 \quad (-0.1\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	$n_{\rm s,0.002}$	$0.9686 \pm 0.0074 \quad (-0.0\sigma)$	$\chi^2_{\rm MGS}$	$1.39 \pm 0.50 \quad (+0.2\sigma)$
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$Y_{\rm P}$	$0.244 \pm 0.016 \quad (-0.6\sigma)$	$\chi^2_{\rm DR11CMASS}$	$2.80 \pm 0.55 \quad (-0.1\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00098 \quad (-1.8\sigma)$	Age/Gyr	$13.794 \pm 0.036 \quad (+0.1\sigma)$	$\chi^2_{\rm DR11LOWZ}$	$0.68 \pm 0.52 \quad (-0.2\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	z_*	$1089.78 \pm 0.53 \quad (-0.8\sigma)$	$\chi^2_{\rm prior}$	$9.10 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{TE}}$	1.0042 ± 0.0047	r_*	$144.73 \pm 0.28 \quad (+0.4\sigma)$	$\chi^2_{\rm CMB}$	$23449.2 \pm 5.9 \quad (+1571.1\sigma)$
$\boldsymbol{c_{EE}}$	1.0009 ± 0.0053	$100\theta_*$	$1.04106 \pm 0.00031 \quad (-0.1\sigma)$	$\chi^2_{\rm BAO}$	$4.92 \pm 0.80 \quad (-0.0\sigma)$

$\bar{\chi}^2_{\rm eff} = 23463.20$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.37$; $R - 1 = 0.00938$

23.24 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02237 \pm 0.00022 \quad (+0.2\sigma)$	$\boldsymbol{c_{EE}}$	1.0008 ± 0.0055	r_*	$144.71 \pm 0.32 \quad (+0.4\sigma)$
$\boldsymbol{\Omega_c h^2}$	$0.1189 \pm 0.0014 \quad (-0.4\sigma)$	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	$1.04105 \pm 0.00034 \quad (-0.0\sigma)$
$\boldsymbol{100\theta_{MC}}$	$1.04083 \pm 0.00068 \quad (-0.3\sigma)$	H_0	$67.71 \pm 0.78 \quad (+0.2\sigma)$	$z_{\rm drag}$	$1059.82 \pm 0.93 \quad (-0.2\sigma)$
$\boldsymbol{\tau}$	$0.079 \pm 0.018 \quad (-0.2\sigma)$	Ω_Λ	$0.6902 \pm 0.0097 \quad (+0.3\sigma)$	$r_{\rm drag}$	$147.38 \pm 0.33 \quad (+0.4\sigma)$
$\boldsymbol{Y_P}$	$0.244 \pm 0.017 \quad (-0.5\sigma)$	$\Omega_{\rm m}$	$0.3098 \pm 0.0097 \quad (-0.3\sigma)$	$k_{\rm D}$	$0.14061 \pm 0.00055 \quad (+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.088 \pm 0.036 \quad (-0.4\sigma)$	$\Omega_{\rm m} h^2$	$0.1419 \pm 0.0013 \quad (-0.4\sigma)$	$100\theta_{\rm D}$	$0.16073 \pm 0.00064 \quad (-0.7\sigma)$
$\boldsymbol{n_s}$	$0.9684 \pm 0.0087 \quad (+0.1\sigma)$	$\Omega_{\rm m} h^3$	$0.09610 \pm 0.00059 \quad (-0.2\sigma)$	$z_{\rm eq}$	$3376 \pm 32 \quad (-0.4\sigma)$
$\boldsymbol{y_{cal}}$	$1.0003 \pm 0.0024 \quad (-0.1\sigma)$	σ_8	$0.826 \pm 0.015 \quad (-0.5\sigma)$	$100\theta_{\rm eq}$	$0.8179 \pm 0.0063 \quad (+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	$243 \pm 23 \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.4599 \pm 0.0095 \quad (-0.7\sigma)$	$r_{\rm drag}/D_{\rm V}(0.57)$	$0.07167 \pm 0.00054 \quad (+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	$38 \pm 8 \quad (-0.8\sigma)$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.616 \pm 0.011 \quad (-0.7\sigma)$	$H(0.57)$	$93.06 \pm 0.41 \quad (+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	$99 \pm 10 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.004 \pm 0.017 \quad (-0.6\sigma)$	$D_{\rm A}(0.57)$	$1386 \pm 11 \quad (-0.2\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	$45 \pm 7 \quad (-2.9\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.481 \pm 0.040 \quad (-0.6\sigma)$	$F_{\rm AP}(0.57)$	$0.6756 \pm 0.0025 \quad (-0.3\sigma)$
$\boldsymbol{A_{143}^{tSZ}}$	$3.45^{+1.6}_{-2.5} \quad (-0.9\sigma)$	$z_{\rm re}$	$9.94 \pm 1.6 \quad (-0.3\sigma)$	$f\sigma_8(0.57)$	$0.4800 \pm 0.0083 \quad (-0.6\sigma)$
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s}$	$2.194^{+0.076}_{-0.085} \quad (-0.4\sigma)$	$\sigma_8(0.57)$	$0.615 \pm 0.012 \quad (-0.4\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	$< 0.608 \quad (-0.2\sigma)$	$10^9 A_{\rm s} e^{-2\tau}$	$1.873 \pm 0.013 \quad (-0.8\sigma)$	f_{2000}^{143}	$28 \pm 3 \quad (-0.7\sigma)$
$\boldsymbol{A^{kSZ}}$	—	D_{40}	$1229 \pm 17 \quad (-0.5\sigma)$	f_{2000}^{217}	$105.8 \pm 2.4 \quad (-0.2\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	$5712 \pm 38 \quad (-0.4\sigma)$	$f_{2000}^{143\times217}$	$31.0 \pm 2.6 \quad (-0.8\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	$2530 \pm 13 \quad (-0.5\sigma)$	$\chi^2_{\rm lowTEB}$	$10496.6 \pm 2.2 \quad (-0.4\sigma)$
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	$815.1 \pm 4.9 \quad (+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	12953.0 ± 6.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	$0.9684 \pm 0.0087 \quad (+0.1\sigma)$	$\chi^2_{\rm JLA}$	$706.78 \pm 0.28 \quad (-0.2\sigma)$
$\boldsymbol{c_{100}}$	$0.99679 \pm 0.00098 \quad (-1.8\sigma)$	$Y_{\rm P}$	$0.244 \pm 0.017 \quad (-0.5\sigma)$	$\chi^2_{\rm prior}$	$9.09 \pm 3.5 \quad (-1.9\sigma)$
$\boldsymbol{c_{217}}$	$0.9970 \pm 0.0018 \quad (+0.7\sigma)$	Age/Gyr	$13.795 \pm 0.043 \quad (-0.0\sigma)$	$\chi^2_{\rm CMB}$	$23449.6 \pm 6.1 \quad (+1550.7\sigma)$
$\boldsymbol{c_{TE}}$	1.0042 ± 0.0047	z_*	$1089.78 \pm 0.53 \quad (-0.9\sigma)$		

$\bar{\chi}^2_{\rm eff} = 24165.51$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.44$; $R - 1 = 0.00815$

23.25 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02233 ± 0.00022 $(+0.2\sigma)$	$\boldsymbol{c_{EE}}$	1.0006 ± 0.0055	r_*	144.79 ± 0.31 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1188 ± 0.0014 (-0.3σ)	$\boldsymbol{\beta_1^1}$	-0.07 ± 0.99	$100\theta_*$	1.04106 ± 0.00034 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04077 ± 0.00068 (-0.3σ)	H_0	67.71 ± 0.79 $(+0.2\sigma)$	$z_{\rm drag}$	1059.63 ± 0.91 (-0.1σ)
$\boldsymbol{\tau}$	0.065 ± 0.014 $(+0.1\sigma)$	Ω_Λ	0.6906 ± 0.0098 $(+0.2\sigma)$	$r_{\rm drag}$	147.47 ± 0.32 $(+0.2\sigma)$
$\boldsymbol{Y_P}$	0.241 ± 0.017 (-0.4σ)	$\Omega_{\rm m}$	0.3094 ± 0.0098 (-0.2σ)	$k_{\rm D}$	0.14060 ± 0.00054 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.059 ± 0.028 (-0.0σ)	$\Omega_{\rm m} h^2$	0.1418 ± 0.0013 (-0.3σ)	$100\theta_{\rm D}$	0.16067 ± 0.00063 (-0.7σ)
$\boldsymbol{n_s}$	0.9672 ± 0.0086 $(+0.1\sigma)$	$\Omega_{\rm m} h^3$	0.09597 ± 0.00057 (-0.1σ)	$z_{\rm eq}$	3372 ± 32 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.0σ)	σ_8	0.814 ± 0.010 (-0.2σ)	$100\theta_{\rm eq}$	0.8185 ± 0.0063 $(+0.3\sigma)$
$\boldsymbol{A_{100}^{PS}}$	244 ± 23 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4526 ± 0.0069 (-0.4σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07170 ± 0.00054 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.8σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.6069 ± 0.0070 (-0.3σ)	$H(0.57)$	93.03 ± 0.41 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.989 ± 0.011 (-0.3σ)	$D_{\rm A}(0.57)$	1386 ± 11 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.447 ± 0.026 (-0.3σ)	$F_{\rm AP}(0.57)$	0.6755 ± 0.0025 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.38^{+1.5}_{-2.5}$ (-0.9σ)	$z_{\rm re}$	$8.69^{+1.5}_{-1.3}$ $(+0.1\sigma)$	$f\sigma_8(0.57)$	0.4726 ± 0.0053 (-0.3σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.12	$10^9 A_{\rm s}$	2.132 ± 0.059 (-0.0σ)	$\sigma_8(0.57)$	0.6060 ± 0.0090 (-0.1σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.586 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.870 ± 0.013 (-0.7σ)	f_{2000}^{143}	28 ± 3 (-0.7σ)
$\boldsymbol{A^{kSZ}}$	$5.29^{+4.0}_{-2.2}$ $(+0.6\sigma)$	D_{40}	1225 ± 16 (-0.4σ)	f_{2000}^{217}	105.9 ± 2.4 (-0.2σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	D_{220}	5709 ± 38 (-0.4σ)	$f_{2000}^{143\times217}$	31.2 ± 2.6 (-0.8σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	D_{810}	2529 ± 13 (-0.4σ)	$\chi^2_{\rm lensing}$	9.86 ± 1.4 (-0.3σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	D_{1420}	815.1 ± 4.9 $(+0.1\sigma)$	$\chi^2_{\rm lowTEB}$	10495.5 ± 1.6 (-0.2σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9672 ± 0.0086 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	12954.2 ± 6.1
$\boldsymbol{c_{100}}$	0.99675 ± 0.00097 (-1.8σ)	$Y_{\rm P}$	0.241 ± 0.017 (-0.4σ)	$\chi^2_{\rm prior}$	9.24 ± 3.6 (-1.8σ)
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.800 ± 0.043 (-0.1σ)	$\chi^2_{\rm CMB}$	23459.5 ± 6.1 $(+1554.2\sigma)$
$\boldsymbol{c_{TE}}$	1.0049 ± 0.0046	z_*	1089.71 ± 0.53 (-0.7σ)		

$\bar{\chi}^2_{\rm eff} = 23468.77$; $\Delta\bar{\chi}^2_{\rm eff} = 10488.50$; $R - 1 = 0.01091$

23.26 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_H070p6

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02239 ± 0.00022 $(+0.2\sigma)$	$\boldsymbol{c_{EE}}$	1.0009 ± 0.0055	r_*	144.72 ± 0.32 $(+0.5\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1188 ± 0.0015 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04106 ± 0.00034 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04088 ± 0.00068 (-0.3σ)	H_0	67.77 ± 0.79 $(+0.3\sigma)$	$z_{\rm drag}$	1059.88 ± 0.93 (-0.2σ)
$\boldsymbol{\tau}$	0.080 ± 0.018 (-0.2σ)	Ω_Λ	0.6909 ± 0.0098 $(+0.3\sigma)$	$r_{\rm drag}$	147.38 ± 0.33 $(+0.4\sigma)$
$\boldsymbol{Y_P}$	0.245 ± 0.017 (-0.5σ)	$\Omega_{\rm m}$	0.3091 ± 0.0098 (-0.3σ)	$k_{\rm D}$	0.14058 ± 0.00055 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.089 ± 0.036 (-0.4σ)	$\Omega_{\rm m} h^2$	0.1419 ± 0.0014 (-0.4σ)	$100\theta_{\rm D}$	0.16076 ± 0.00063 (-0.7σ)
$\boldsymbol{n_s}$	0.9689 ± 0.0088 $(+0.1\sigma)$	$\Omega_{\rm m} h^3$	0.09613 ± 0.00059 (-0.2σ)	$z_{\rm eq}$	3375 ± 32 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0024 (-0.1σ)	σ_8	0.827 ± 0.015 (-0.5σ)	$100\theta_{\rm eq}$	0.8183 ± 0.0064 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	243 ± 23 (-0.7σ)	$\sigma_8 \Omega_{\rm m}^{0.5}$	0.4596 ± 0.0095 (-0.7σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07171 ± 0.00055 $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.8σ)	$\sigma_8 \Omega_{\rm m}^{0.25}$	0.616 ± 0.011 (-0.7σ)	$H(0.57)$	93.09 ± 0.41 $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.004 ± 0.017 (-0.6σ)	$D_{\rm A}(0.57)$	1385 ± 11 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.481 ± 0.040 (-0.6σ)	$F_{\rm AP}(0.57)$	0.6754 ± 0.0025 (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.43^{+1.6}_{-2.5}$ (-1.0σ)	$z_{\rm re}$	10.0 ± 1.6 (-0.3σ)	$f\sigma_8(0.57)$	0.4800 ± 0.0083 (-0.6σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s}$	$2.197^{+0.077}_{-0.086}$ (-0.4σ)	$\sigma_8(0.57)$	0.616 ± 0.012 (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.607 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.873 ± 0.013 (-0.8σ)	f_{2000}^{143}	28 ± 3 (-0.7σ)
$\boldsymbol{A^{kSZ}}$	—	D_{40}	1228 ± 17 (-0.5σ)	f_{2000}^{217}	105.8 ± 2.4 (-0.2σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.19	D_{220}	5712 ± 38 (-0.4σ)	$f_{2000}^{143\times217}$	31.0 ± 2.6 (-0.8σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2530 ± 13 (-0.4σ)	$\chi^2_{\rm lowTEB}$	10496.6 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	815.1 ± 4.9 $(+0.1\sigma)$	$\chi^2_{\rm CamSpec}$	12953.1 ± 6.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9689 ± 0.0088 $(+0.1\sigma)$	$\chi^2_{\rm H070p6}$	0.78 ± 0.40 (-0.2σ)
$\boldsymbol{c_{100}}$	0.99679 ± 0.00098 (-1.8σ)	$Y_{\rm P}$	0.245 ± 0.017 (-0.5σ)	$\chi^2_{\rm prior}$	9.09 ± 3.5 (-1.9σ)
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.792 ± 0.044 (-0.0σ)	$\chi^2_{\rm CMB}$	23449.7 ± 6.1 $(+1548.8\sigma)$
$\boldsymbol{c_{TE}}$	1.0042 ± 0.0047	z_*	1089.79 ± 0.53 (-0.8σ)		

$\bar{\chi}^2_{\rm eff} = 23459.55$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.41$; $R - 1 = 0.00875$

23.27 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_lensing_BAO_H070p6_JLA

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02237 ± 0.00018 $(+0.2\sigma)$	H_0	67.88 ± 0.53 $(+0.1\sigma)$	k_D	0.14051 ± 0.00046 $(+0.6\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1185 ± 0.0010 (-0.3σ)	Ω_Λ	0.6928 ± 0.0065 $(+0.2\sigma)$	$100\theta_D$	0.16073 ± 0.00061 (-0.7σ)
$\boldsymbol{100\theta_{MC}}$	1.04088 ± 0.00060 (-0.4σ)	Ω_m	0.3072 ± 0.0065 (-0.2σ)	z_{eq}	3366 ± 23 (-0.3σ)
$\boldsymbol{\tau}$	0.068 ± 0.012 $(+0.1\sigma)$	$\Omega_m h^2$	0.14150 ± 0.00096 (-0.3σ)	$100\theta_{eq}$	0.8198 ± 0.0044 $(+0.2\sigma)$
$\boldsymbol{Y_P}$	0.244 ± 0.015 (-0.4σ)	$\Omega_m h^3$	0.09605 ± 0.00054 (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07181 ± 0.00036 $(+0.2\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.063 ± 0.024 (-0.1σ)	σ_8	0.8150 ± 0.0097 (-0.2σ)	$H(0.57)$	93.12 ± 0.30 $(+0.0\sigma)$
$\boldsymbol{n_s}$	0.9688 ± 0.0071 $(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4517 ± 0.0060 (-0.3σ)	$D_A(0.57)$	1384.0 ± 7.6 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0001 ± 0.0025 (-0.0σ)	$\sigma_8 \Omega_m^{0.25}$	0.6067 ± 0.0069 (-0.3σ)	$F_{AP}(0.57)$	0.6749 ± 0.0017 (-0.2σ)
$\boldsymbol{A_{100}^{PS}}$	244 ± 23 (-0.7σ)	$\sigma_8/h^{0.5}$	0.989 ± 0.011 (-0.3σ)	$f\sigma_8(0.57)$	0.4727 ± 0.0053 (-0.3σ)
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.8σ)	$\langle d^2 \rangle^{1/2}$	2.446 ± 0.025 (-0.3σ)	$\sigma_8(0.57)$	0.6074 ± 0.0079 (-0.2σ)
$\boldsymbol{A_{217}^{PS}}$	98 ± 10 $(+0.1\sigma)$	z_{re}	$8.91^{+1.2}_{-1.1}$ $(+0.0\sigma)$	f_{2000}^{143}	28 ± 3 (-0.7σ)
$\boldsymbol{A_{217}^{CIB}}$	46 ± 7 (-2.9σ)	$10^9 A_s$	2.140 ± 0.051 (-0.1σ)	f_{2000}^{217}	106.0 ± 2.4 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.37^{+1.5}_{-2.6}$ (-0.9σ)	$10^9 A_s e^{-2\tau}$	1.869 ± 0.013 (-0.7σ)	$f_{2000}^{143\times217}$	31.3 ± 2.6 (-0.7σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.51 ± 0.11	D_{40}	1222 ± 14 (-0.4σ)	$\chi^2_{lensing}$	9.81 ± 1.4 (-0.3σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.585 (-0.2σ)	D_{220}	5710 ± 37 (-0.4σ)	χ^2_{lowTEB}	10495.1 ± 1.3 (-0.2σ)
$\boldsymbol{A^{kSZ}}$	$5.32^{+4.1}_{-2.1}$ $(+0.6\sigma)$	D_{810}	2529 ± 13 (-0.4σ)	$\chi^2_{CamSpec}$	12954.0 ± 5.9
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	D_{1420}	815.0 ± 4.9 $(+0.1\sigma)$	χ^2_{H070p6}	0.70 ± 0.26 (-0.1σ)
$\boldsymbol{A_{143}^{dust}}$	1.03 ± 0.18	$n_{s,0.002}$	0.9688 ± 0.0071 $(+0.1\sigma)$	χ^2_{JLA}	706.67 ± 0.15 (-0.2σ)
$\boldsymbol{A_{217}^{dust}}$	1.21 ± 0.12	Y_P	0.244 ± 0.015 (-0.4σ)	χ^2_{6DF}	0.035 ± 0.049 (-0.1σ)
$\boldsymbol{A_{143\times217}^{dust}}$	0.99 ± 0.18	Age/Gyr	13.792 ± 0.034 $(+0.0\sigma)$	χ^2_{MGS}	1.54 ± 0.49 $(+0.2\sigma)$
$\boldsymbol{c_{100}}$	0.99675 ± 0.00097 (-1.9σ)	z_*	1089.72 ± 0.53 (-0.7σ)	$\chi^2_{DR11CMASS}$	2.74 ± 0.47 $(+0.0\sigma)$
$\boldsymbol{c_{217}}$	0.9971 ± 0.0018 $(+0.8\sigma)$	r_*	144.83 ± 0.27 $(+0.3\sigma)$	$\chi^2_{DR11LOWZ}$	0.52 ± 0.43 (-0.2σ)
$\boldsymbol{c_{TE}}$	1.0050 ± 0.0046	$100\theta_*$	1.04111 ± 0.00030 (-0.1σ)	χ^2_{prior}	9.23 ± 3.6 (-1.9σ)
$\boldsymbol{c_{EE}}$	1.0011 ± 0.0053	z_{drag}	1059.78 ± 0.82 (-0.2σ)	χ^2_{CMB}	23459.0 ± 6.0 $(+1580.8\sigma)$
$\boldsymbol{\beta_1^1}$	-0.08 ± 0.99	r_{drag}	147.50 ± 0.29 $(+0.2\sigma)$	χ^2_{BAO}	4.84 ± 0.71 $(+0.0\sigma)$

$\bar{\chi}^2_{eff} = 24180.41$; $\Delta\bar{\chi}^2_{eff} = 10488.26$; $R - 1 = 0.01141$

23.28 base_yhe_CamSpecHM_TTTEEE_lowTEB_post_zre6p5

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	$0.02236^{+0.00021}_{-0.00024}$ $(+0.2\sigma)$	$\boldsymbol{c_{EE}}$	1.0005 ± 0.0055	r_*	144.69 ± 0.33 $(+0.5\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0015 (-0.4σ)	$\boldsymbol{\beta_1^1}$	-0.1 ± 1.0	$100\theta_*$	1.04102 ± 0.00034 (-0.0σ)
$\boldsymbol{100\theta_{MC}}$	1.04079 ± 0.00069 (-0.3σ)	H_0	67.63 ± 0.80 $(+0.3\sigma)$	$z_{\rm drag}$	1059.77 ± 0.94 (-0.2σ)
$\boldsymbol{\tau}$	$0.079^{+0.016}_{-0.019}$ (-0.2σ)	Ω_Λ	0.689 ± 0.010 $(+0.3\sigma)$	$r_{\rm drag}$	147.36 ± 0.33 $(+0.4\sigma)$
$\boldsymbol{Y_P}$	0.243 ± 0.017 (-0.5σ)	$\Omega_{\rm m}$	0.311 ± 0.010 (-0.3σ)	$k_{\rm D}$	0.14065 ± 0.00056 $(+0.4\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	$3.088^{+0.032}_{-0.038}$ (-0.4σ)	$\Omega_{\rm m}h^2$	0.1421 ± 0.0014 (-0.4σ)	$100\theta_{\rm D}$	0.16070 ± 0.00064 (-0.8σ)
$\boldsymbol{n_s}$	0.9677 ± 0.0088 $(+0.1\sigma)$	$\Omega_{\rm m}h^3$	0.09607 ± 0.00059 (-0.2σ)	$z_{\rm eq}$	3380 ± 33 (-0.4σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0024 (-0.1σ)	σ_8	$0.827^{+0.013}_{-0.016}$ (-0.5σ)	$100\theta_{\rm eq}$	0.8173 ± 0.0064 $(+0.4\sigma)$
$\boldsymbol{A_{100}^{PS}}$	243 ± 23 (-0.7σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.4608 ± 0.0095 (-0.7σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07161 ± 0.00055 $(+0.3\sigma)$
$\boldsymbol{A_{143}^{PS}}$	38 ± 8 (-0.8σ)	$\sigma_8\Omega_{\rm m}^{0.25}$	0.617 ± 0.011 (-0.7σ)	$H(0.57)$	$93.02^{+0.40}_{-0.45}$ $(+0.1\sigma)$
$\boldsymbol{A_{217}^{PS}}$	99 ± 10 $(+0.1\sigma)$	$\sigma_8/h^{0.5}$	1.005 ± 0.016 (-0.6σ)	$D_{\rm A}(0.57)$	1387 ± 11 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	45 ± 7 (-2.9σ)	$\langle d^2 \rangle^{1/2}$	2.484 ± 0.038 (-0.6σ)	$F_{\rm AP}(0.57)$	0.6758 ± 0.0025 (-0.3σ)
$\boldsymbol{A_{143}^{tSZ}}$	$3.46^{+1.6}_{-2.5}$ (-0.9σ)	$z_{\rm re}$	9.95 ± 1.5 (-0.2σ)	$f\sigma_8(0.57)$	0.4804 ± 0.0080 (-0.6σ)
$\boldsymbol{r_{143\times217}^{PS}}$	0.52 ± 0.12	$10^9 A_{\rm s}$	$2.194^{+0.068}_{-0.086}$ (-0.4σ)	$\sigma_8(0.57)$	$0.615^{+0.010}_{-0.013}$ (-0.4σ)
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.610 (-0.2σ)	$10^9 A_{\rm s} e^{-2\tau}$	1.873 ± 0.013 (-0.9σ)	f_{2000}^{143}	28 ± 3 (-0.7σ)
$\boldsymbol{A^{kSZ}}$	—	D_{40}	1230 ± 17 (-0.5σ)	f_{2000}^{217}	105.7 ± 2.4 (-0.2σ)
$\boldsymbol{A_{100}^{dust}}$	0.99 ± 0.20	D_{220}	5711 ± 38 (-0.4σ)	$f_{2000}^{143\times217}$	30.9 ± 2.6 (-0.8σ)
$\boldsymbol{A_{143}^{dust}}$	1.02 ± 0.18	D_{810}	2530 ± 13 (-0.5σ)	$\chi^2_{\rm lowTEB}$	10496.7 ± 2.2 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.22 ± 0.12	D_{1420}	815.1 ± 4.9 $(+0.2\sigma)$	$\chi^2_{\rm CamSpec}$	12952.9 ± 6.1
$\boldsymbol{A_{143\times217}^{dust}}$	0.98 ± 0.18	$n_{\rm s,0.002}$	0.9677 ± 0.0088 $(+0.1\sigma)$	$\chi^2_{\rm prior}$	9.08 ± 3.5 (-1.9σ)
$\boldsymbol{c_{100}}$	0.99680 ± 0.00098 (-1.8σ)	$Y_{\rm P}$	0.243 ± 0.017 (-0.5σ)	$\chi^2_{\rm CMB}$	23449.6 ± 6.0 $(+1548.1\sigma)$
$\boldsymbol{c_{217}}$	0.9970 ± 0.0018 $(+0.7\sigma)$	Age/Gyr	13.799 ± 0.044 (-0.0σ)		
$\boldsymbol{c_{TE}}$	1.0040 ± 0.0047	z_*	1089.78 ± 0.53 (-0.9σ)		

$\bar{\chi}^2_{\rm eff} = 23458.67$; $\Delta\bar{\chi}^2_{\rm eff} = 10490.45$; $R - 1 = 0.00765$

23.29 base_yhe_plikHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022400	0.02239 ± 0.00032	σ_8	0.8071	$0.807^{+0.019}_{-0.021}$	D_A/Gpc	13.925	13.927 ± 0.052
$\boldsymbol{\Omega_c h^2}$	0.11772	0.1177 ± 0.0020	$\sigma_8\Omega_m^{0.5}$	0.4437	0.444 ± 0.015	z_{drag}	1059.93	1059.8 ± 2.0
$\boldsymbol{100\theta_{MC}}$	1.04111	1.0410 ± 0.0017	$\sigma_8\Omega_m^{0.25}$	0.5984	0.599 ± 0.016	r_{drag}	147.66	147.68 ± 0.55
$\boldsymbol{\tau}$	0.0606	0.061 ± 0.021	$\sigma_8/h^{0.5}$	0.9769	0.978 ± 0.025	k_D	0.14020	0.1404 ± 0.0015
$\boldsymbol{Y_P}$	0.2476	$0.242^{+0.051}_{-0.043}$	$\langle d^2\rangle^{1/2}$	2.405	2.407 ± 0.060	$100\theta_D$	0.16091	0.1607 ± 0.0019
$\boldsymbol{\ln(10^{10}A_s)}$	3.0460	3.047 ± 0.044	z_{re}	8.28	$8.15^{+2.2}_{-1.9}$	z_{eq}	3348.4	3349 ± 45
$\boldsymbol{n_s}$	0.9743	0.974 ± 0.015	$10^9 A_s$	2.103	$2.106^{+0.088}_{-0.10}$	k_{eq}	0.010220	0.01022 ± 0.00014
$\boldsymbol{y_{cal}}$	1.00003	1.0002 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8630	1.864 ± 0.019	$100\theta_{eq}$	0.8233	0.8232 ± 0.0089
$\boldsymbol{A_{100}^{dustTE}}$	0.1352	0.137 ± 0.038	D_{40}	1203.1	1205 ± 32	$100\theta_{s,eq}$	0.45456	0.4545 ± 0.0046
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1330	0.133 ± 0.029	D_{220}	5680	5682 ± 65	$r_{drag}/D_V(0.57)$	0.07210	0.07208 ± 0.00082
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.299	0.304 ± 0.085	D_{810}	2524.5	2528 ± 34	$H(0.57)$	93.27	93.25 ± 0.71
$\boldsymbol{A_{143}^{dustTE}}$	0.155	0.152 ± 0.054	D_{1420}	814.6	817 ± 21	$D_A(0.57)$	1379.1	1380 ± 17
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.335	0.335 ± 0.080	D_{2000}	230.2	231.5 ± 9.9	$F_{AP}(0.57)$	0.67366	0.6738 ± 0.0036
$\boldsymbol{A_{217}^{dustTE}}$	1.636	1.65 ± 0.26	$n_{s,0.002}$	0.9743	0.974 ± 0.015	$f\sigma_8(0.57)$	0.4668	0.467 ± 0.012
$\boldsymbol{c_{100}}$	0.99921	0.99925 ± 0.00099	Y_P	0.2476	$0.242^{+0.051}_{-0.043}$	$\sigma_8(0.57)$	0.6026	$0.603^{+0.014}_{-0.016}$
H_0	68.25	68.2 ± 1.2	Y_P^{BBN}	0.2490	$0.243^{+0.051}_{-0.043}$	χ^2_{lowTEB}	10493.28	10494.8 ± 2.5
Ω_Λ	0.6978	0.697 ± 0.014	Age/Gyr	13.779	13.784 ± 0.080	χ^2_{plikTE}	932.07	939.4 ± 4.5
Ω_m	0.3022	0.303 ± 0.014	z_*	1089.77	1089.6 ± 1.6	χ^2_{prior}	1.82	7.87 ± 3.7
$\Omega_m h^2$	0.14076	0.1408 ± 0.0019	r_*	144.99	145.01 ± 0.52	χ^2_{CMB}	11425.35	11434.2 ± 4.4
$\Omega_m h^3$	0.09607	0.0960 ± 0.0012	$100\theta_*$	1.04123	1.04121 ± 0.00069			

Best-fit $\chi^2_{eff} = 11427.17$; $\bar{\chi}^2_{eff} = 11442.04$; $R - 1 = 0.00935$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10493.28 plik_dx11dr2_HM_v18_TE: 932.07

23.30 base_yhe_plikHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02454	0.0245 ± 0.0014	$\sigma_8\Omega_m^{0.5}$	0.4162	$0.415^{+0.029}_{-0.037}$	z_{drag}	1065.96	1065.6 ± 4.1
$\boldsymbol{\Omega_c h^2}$	0.11331	$0.1131^{+0.0046}_{-0.0052}$	$\sigma_8\Omega_m^{0.25}$	0.5785	$0.577^{+0.030}_{-0.035}$	r_{drag}	146.34	146.5 ± 1.2
$\boldsymbol{100\theta_{MC}}$	1.04184	1.0417 ± 0.0024	$\sigma_8/h^{0.5}$	0.9483	$0.946^{+0.043}_{-0.050}$	k_D	0.14112	0.1413 ± 0.0017
$\boldsymbol{\tau}$	0.0704	0.070 ± 0.023	$\langle d^2\rangle^{1/2}$	2.346	$2.343^{+0.077}_{-0.093}$	$100\theta_D$	0.16049	0.1602 ± 0.0026
$\boldsymbol{Y_P}$	0.295	$0.284^{+0.064}_{-0.054}$	z_{re}	8.85	8.65 ± 2.1	z_{eq}	3294	3288^{+91}_{-100}
$\boldsymbol{\ln(10^{10}A_s)}$	3.0841	3.083 ± 0.048	$10^9 A_s$	2.185	$2.184^{+0.099}_{-0.12}$	k_{eq}	0.010054	$0.01004^{+0.00028}_{-0.00031}$
$\boldsymbol{n_s}$	0.9969	0.997 ± 0.019	$10^9 A_s e^{-2\tau}$	1.8980	1.898 ± 0.026	$100\theta_{eq}$	0.8401	0.842 ± 0.020
$\boldsymbol{y_{cal}}$	0.99985	0.99998 ± 0.0025	D_{40}	1201.1	1203 ± 38	$100\theta_{s,eq}$	0.4617	0.4624 ± 0.0097
$\boldsymbol{A_{100}^{dustEE}}$	0.0826	0.0826 ± 0.0059	D_{220}	5950	5958 ± 210	$r_{drag}/D_V(0.57)$	0.07395	0.0741 ± 0.0018
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0498	0.0499 ± 0.0054	D_{810}	2566	2570 ± 52	$H(0.57)$	95.65	$95.7^{+1.8}_{-2.0}$
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.0998	0.099 ± 0.032	D_{1420}	826.9	831 ± 31	$D_A(0.57)$	1326.7	1327 ± 40
$\boldsymbol{A_{143}^{dustEE}}$	0.1008	0.1013 ± 0.0072	D_{2000}	232.9	235 ± 14	$F_{AP}(0.57)$	0.6646	$0.6646^{+0.0070}_{-0.0087}$
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2244	0.224 ± 0.047	$n_{s,0.002}$	0.9969	0.997 ± 0.019	$f\sigma_8(0.57)$	0.4551	0.453 ± 0.022
$\boldsymbol{A_{217}^{dustEE}}$	0.654	0.65 ± 0.13	Y_P	0.295	$0.284^{+0.064}_{-0.054}$	$\sigma_8(0.57)$	0.6094	$0.608^{+0.018}_{-0.020}$
H_0	71.92	72.0 ± 3.0	Y_P^{BBN}	0.296	$0.285^{+0.064}_{-0.054}$	χ^2_{lowTEB}	10492.43	10494.2 ± 2.3
Ω_Λ	0.7322	$0.732^{+0.033}_{-0.024}$	Age/Gyr	13.522	13.53 ± 0.19	χ^2_{plikEE}	751.75	759.7 ± 4.7
Ω_m	0.2678	$0.268^{+0.024}_{-0.033}$	z_*	1088.78	1088.6 ± 2.6	χ^2_{prior}	3.96	8.32 ± 3.6
$\Omega_m h^2$	0.13849	$0.1382^{+0.0038}_{-0.0043}$	r_*	144.34	144.4 ± 1.1	χ^2_{CMB}	11244.18	11254.0 ± 4.8
$\Omega_m h^3$	0.09960	0.0995 ± 0.0029	$100\theta_*$	1.04059	1.0406 ± 0.0011			
σ_8	0.8042	$0.802^{+0.027}_{-0.031}$	D_A/Gpc	13.871	13.88 ± 0.11			

Best-fit $\chi^2_{eff} = 11248.14$; $\bar{\chi}^2_{eff} = 11262.26$; $R - 1 = 0.00801$

χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.43 plik_dx11dr2_HM_v18_EE: 751.75

23.31 base_yhe_CamSpecHM_TE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\mathbf{\Omega_b h^2}$	0.022537	0.02259 ± 0.00033 $(+0.6\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.5909	0.592 ± 0.017 (-0.5σ)	z_{drag}	1061.04	1061.3 ± 2.0 $(+0.8\sigma)$
$\mathbf{\Omega_c h^2}$	0.11602	0.1159 ± 0.0020 (-0.9σ)	$\sigma_8/h^{0.5}$	0.9674	0.968 ± 0.026 (-0.4σ)	r_{drag}	147.87	147.84 ± 0.56 $(+0.3\sigma)$
$\mathbf{100\theta_{MC}}$	1.04238	1.0426 ± 0.0017 $(+0.9\sigma)$	$\langle d^2\rangle^{1/2}$	2.356	2.354 ± 0.060 (-0.9σ)	k_D	0.13896	0.1389 ± 0.0014 (-1.0σ)
$\boldsymbol{\tau}$	0.0650	0.066 ± 0.022 $(+0.3\sigma)$	z_{re}	8.78	$8.75^{+2.5}_{-1.9}$ $(+0.3\sigma)$	$100\theta_D$	0.16217	0.1623 ± 0.0019 $(+0.8\sigma)$
$\mathbf{Y_P}$	0.2749	$0.277^{+0.046}_{-0.040}$ $(+0.8\sigma)$	$10^9 A_s$	2.102	2.11 ± 0.10 $(+0.1\sigma)$	z_{eq}	3311.1	3310 ± 45 (-0.9σ)
$\mathbf{ln(10^{10} A_s)}$	3.0456	3.049 ± 0.047 $(+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8461	1.849 ± 0.027 (-0.8σ)	$100\theta_{eq}$	0.8316	0.8323 ± 0.0092 $(+1.0\sigma)$
$\boldsymbol{n_s}$	0.9883	0.991 ± 0.015 $(+1.1\sigma)$	D_{40}	1165.2	1164 ± 32 (-1.3σ)	$r_{drag}/D_V(0.57)$	0.07293	0.07303 ± 0.00085 $(+1.2\sigma)$
$\boldsymbol{y_{cal}}$	1.00014	0.9999 ± 0.0025 (-0.1σ)	D_{220}	5603	5604 ± 83 (-1.2σ)	$H(0.57)$	93.89	94.00 ± 0.75 $(+1.1\sigma)$
$\boldsymbol{c_{TE}}$	0.9978	0.999 ± 0.010	D_{810}	2497.0	2500 ± 41 (-0.8σ)	$D_A(0.57)$	1363.1	1361 ± 18 (-1.1σ)
H_0	69.41	69.6 ± 1.3 $(+1.1\sigma)$	D_{1420}	801.9	803 ± 21 (-0.7σ)	$F_{AP}(0.57)$	0.67022	0.6699 ± 0.0035 (-1.1σ)
Ω_Λ	0.7110	$0.712^{+0.014}_{-0.013}$ $(+1.1\sigma)$	$n_{s,0.002}$	0.9883	0.991 ± 0.015 $(+1.1\sigma)$	$f\sigma_8(0.57)$	0.4626	0.463 ± 0.013 (-0.3σ)
Ω_m	0.2890	0.288 ± 0.013 (-1.1σ)	Y_P	0.2749	$0.277^{+0.046}_{-0.040}$ $(+0.8\sigma)$	$\sigma_8(0.57)$	0.6052	0.607 ± 0.016 $(+0.3\sigma)$
$\Omega_m h^2$	0.13921	0.1391 ± 0.0019 (-0.9σ)	Age/Gyr	13.719	13.708 ± 0.081 (-0.9σ)	χ^2_{lowTEB}	10491.61	10493.1 ± 1.6 (-0.7σ)
$\Omega_m h^3$	0.09662	0.0968 ± 0.0012 $(+0.7\sigma)$	z_*	1090.58	1090.7 ± 1.6 $(+0.7\sigma)$	$\chi^2_{CamSpec}$	2694.49	2700.0 ± 3.3
σ_8	0.8060	0.808 ± 0.021 $(+0.0\sigma)$	r_*	145.23	145.22 ± 0.52 $(+0.4\sigma)$	χ^2_{prior}	10.03	12.1 ± 2.0 $(+1.1\sigma)$
$\sigma_8\Omega_m^{0.5}$	0.4333	0.433 ± 0.015 (-0.7σ)	$100\theta_*$	1.04177	1.04187 ± 0.00067 $(+1.0\sigma)$	χ^2_{CMB}	13186.10	13193.1 ± 3.7 $(+402.2\sigma)$

Best-fit $\chi^2_{eff} = 13196.12$; $\Delta\chi^2_{eff} = 1768.95$; $\bar{\chi}^2_{eff} = 13205.16$; $\Delta\bar{\chi}^2_{eff} = 1763.11$; $R - 1 = 0.00900$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10491.61 (Δ -1.67) CamSpec like_v9.10CMH_unified: 2694.49

23.32 base_yhe_CamSpecHM_EE_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02473	0.0248 ± 0.0012 $(+0.2\sigma)$	$\sigma_8\Omega_m^{0.25}$	0.5846	0.583 ± 0.026 $(+0.2\sigma)$	z_{drag}	1066.91	1066.7 ± 3.5 $(+0.3\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11532	0.1151 ± 0.0039 $(+0.4\sigma)$	$\sigma_8/h^{0.5}$	0.9546	0.952 ± 0.038 $(+0.1\sigma)$	r_{drag}	145.57	145.65 ± 0.99 (-0.7σ)
$\boldsymbol{100\theta_{MC}}$	1.04208	1.0419 ± 0.0020 $(+0.1\sigma)$	$\langle d^2\rangle^{1/2}$	2.367	2.365 ± 0.075 $(+0.3\sigma)$	k_D	0.14158	0.1417 ± 0.0014 $(+0.2\sigma)$
$\boldsymbol{\tau}$	0.0664	0.066 ± 0.022 (-0.1σ)	z_{re}	8.54	$8.40^{+2.3}_{-1.9}$ (-0.1σ)	$100\theta_D$	0.16075	0.1606 ± 0.0021 $(+0.1\sigma)$
$\boldsymbol{Y_P}$	0.3062	$0.299^{+0.053}_{-0.045}$ $(+0.3\sigma)$	$10^9 A_s$	2.168	$2.168^{+0.094}_{-0.11}$ (-0.2σ)	z_{eq}	3347	3341 ± 75 $(+0.6\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0766	3.075 ± 0.047 (-0.2σ)	$10^9 A_s e^{-2\tau}$	1.8986	1.896 ± 0.028 (-0.1σ)	$100\theta_{eq}$	0.8309	0.832 ± 0.016 (-0.5σ)
$\boldsymbol{n_s}$	0.9908	0.990 ± 0.017 (-0.4σ)	D_{40}	1210.8	1213^{+34}_{-38} $(+0.3\sigma)$	$r_{drag}/D_V(0.57)$	0.07336	0.0735 ± 0.0015 (-0.3σ)
$\boldsymbol{y_{cal}}$	1.00015	1.0000 ± 0.0025 $(+0.0\sigma)$	D_{220}	5950	5955 ± 180 (-0.0σ)	$H(0.57)$	95.61	95.7 ± 1.6 (-0.0σ)
$\boldsymbol{c_{EE}}$	0.9983	0.9977 ± 0.0097	D_{810}	2546.9	2547 ± 46 (-0.5σ)	$D_A(0.57)$	1331.6	1331 ± 34 $(+0.1\sigma)$
H_0	71.42	71.5 ± 2.5 (-0.2σ)	D_{1420}	815.9	817 ± 24 (-0.5σ)	$F_{AP}(0.57)$	0.6667	$0.6666^{+0.0061}_{-0.0069}$ $(+0.3\sigma)$
Ω_Λ	0.7242	$0.724^{+0.027}_{-0.022}$ (-0.3σ)	$n_{s,0.002}$	0.9908	0.990 ± 0.017 (-0.4σ)	$f\sigma_8(0.57)$	0.4590	0.457 ± 0.019 $(+0.2\sigma)$
Ω_m	0.2758	$0.276^{+0.022}_{-0.027}$ $(+0.3\sigma)$	Y_P	0.3062	$0.299^{+0.053}_{-0.045}$ $(+0.3\sigma)$	$\sigma_8(0.57)$	0.6091	$0.607^{+0.016}_{-0.018}$ (-0.0σ)
$\Omega_m h^2$	0.14070	0.1405 ± 0.0031 $(+0.6\sigma)$	Age/Gyr	13.506	13.51 ± 0.16 (-0.1σ)	χ^2_{lowTEB}	10492.83	10494.5 ± 2.5 $(+0.1\sigma)$
$\Omega_m h^3$	0.10048	0.1004 ± 0.0025 $(+0.3\sigma)$	z_*	1089.22	1089.0 ± 2.0 $(+0.2\sigma)$	$\chi^2_{CamSpec}$	2187.13	2192.4 ± 3.5
σ_8	0.8067	0.804 ± 0.025 $(+0.1\sigma)$	r_*	143.63	143.70 ± 0.84 (-0.7σ)	χ^2_{prior}	10.06	12.0 ± 2.0 $(+1.0\sigma)$
$\sigma_8\Omega_m^{0.5}$	0.4237	$0.422^{+0.025}_{-0.029}$ $(+0.2\sigma)$	$100\theta_*$	1.04050	1.04050 ± 0.00088 (-0.1σ)	χ^2_{CMB}	12679.96	12686.9 ± 3.7 $(+295.6\sigma)$

Best-fit $\chi^2_{eff} = 12690.02$; $\Delta\chi^2_{eff} = 1441.88$; $\bar{\chi}^2_{eff} = 12698.95$; $\Delta\bar{\chi}^2_{eff} = 1436.69$; $R - 1 = 0.00782$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10492.83 (Δ 0.40) CamSpec like_v9.10CMH_unified: 2187.13

23.33 base_yhe_plikHM_TE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.021827	$0.02192^{+0.00032}_{-0.00039}$	σ_8	0.7956	0.798 ± 0.018	D_A/Gpc	13.961	13.942 ± 0.051
$\boldsymbol{\Omega_c h^2}$	0.11973	0.1198 ± 0.0022	$\sigma_8 \Omega_m^{0.5}$	0.4550	0.454 ± 0.017	z_{drag}	1055.85	$1056.8^{+1.4}_{-2.6}$
$\boldsymbol{100\theta_{MC}}$	1.03773	$1.0385^{+0.0012}_{-0.0022}$	$\sigma_8 \Omega_m^{0.25}$	0.6017	0.602 ± 0.016	r_{drag}	148.03	147.85 ± 0.55
$\boldsymbol{\tau}$	0.0519	0.052 ± 0.019	$\sigma_8/h^{0.5}$	0.9798	0.980 ± 0.024	k_D	0.14301	$0.1424^{+0.0019}_{-0.0012}$
$\boldsymbol{Y_P}$	0.1518	< 0.195	$\langle d^2 \rangle^{1/2}$	2.492	2.477 ± 0.071	$100\theta_D$	0.15735	$0.1583^{+0.0012}_{-0.0024}$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0295	3.029 ± 0.040	z_{re}	7.17	$7.10^{+2.2}_{-1.7}$	z_{eq}	3382.9	3386 ± 49
$\boldsymbol{n_s}$	0.9384	$0.945^{+0.015}_{-0.020}$	$10^9 A_s$	2.069	2.069 ± 0.083	k_{eq}	0.010325	0.01034 ± 0.00015
$\boldsymbol{y_{cal}}$	1.00014	0.99998 ± 0.0025	$10^9 A_s e^{-2\tau}$	1.8648	1.865 ± 0.019	$100\theta_{eq}$	0.8128	0.8132 ± 0.0098
$\boldsymbol{A_{100}^{dustTE}}$	0.1342	0.137 ± 0.038	D_{40}	1285.5	1271^{+47}_{-39}	$100\theta_{s,eq}$	0.44945	0.4496 ± 0.0050
$\boldsymbol{A_{100\times143}^{dustTE}}$	0.1398	0.134 ± 0.029	D_{220}	5796	5766 ± 73	$r_{drag}/D_V(0.57)$	0.07072	$0.07089^{+0.00083}_{-0.0010}$
$\boldsymbol{A_{100\times217}^{dustTE}}$	0.299	0.305 ± 0.084	D_{810}	2559.0	2547 ± 33	$H(0.57)$	91.82	$92.09^{+0.59}_{-0.91}$
$\boldsymbol{A_{143}^{dustTE}}$	0.159	0.155 ± 0.054	D_{1420}	839.6	832^{+23}_{-18}	$D_A(0.57)$	1414.0	1409^{+23}_{-17}
$\boldsymbol{A_{143\times217}^{dustTE}}$	0.341	0.336 ± 0.081	D_{2000}	243.8	$240^{+11}_{-8.0}$	$F_{AP}(0.57)$	0.67993	0.6793 ± 0.0043
$\boldsymbol{A_{217}^{dustTE}}$	1.653	1.65 ± 0.26	$n_{s,0.002}$	0.9384	$0.945^{+0.015}_{-0.020}$	$f\sigma_8(0.57)$	0.4663	0.467 ± 0.012
$\boldsymbol{c_{100}}$	0.99935	0.9992 ± 0.0010	Y_P	0.1518	$0.174^{+0.033}_{-0.066}$	$\sigma_8(0.57)$	0.5883	0.591 ± 0.013
H_0	65.94	$66.3^{+1.2}_{-1.5}$	Y_P^{BBN}	0.1527	$0.175^{+0.033}_{-0.066}$	χ^2_{lowEB}	5430.72	5431.7 ± 1.2
Ω_Λ	0.6729	0.675 ± 0.017	Age/Gyr	13.948	$13.91^{+0.10}_{-0.067}$	χ^2_{plikTE}	929.32	937.0 ± 4.1
Ω_m	0.3271	0.325 ± 0.017	z_*	1087.15	$1087.9^{+1.0}_{-1.9}$	χ^2_{prior}	1.83	7.78 ± 3.6
$\Omega_m h^2$	0.14221	0.1424 ± 0.0021	r_*	145.22	145.06 ± 0.52	χ^2_{CMB}	6360.03	6368.7 ± 4.3
$\Omega_m h^3$	0.09377	$0.09432^{+0.00090}_{-0.0015}$	$100\theta_*$	1.04018	$1.04041^{+0.00066}_{-0.00077}$			

Best-fit $\chi^2_{eff} = 6361.86$; $\bar{\chi}^2_{eff} = 6376.48$; $R - 1 = 0.00468$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.72 plik_dx11dr2_HM_v18_TE: 929.32

23.34 base_yhe_plikHM_EE_lowEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02277	$0.0235^{+0.0014}_{-0.0016}$	$\sigma_8\Omega_m^{0.5}$	0.4366	$0.430^{+0.034}_{-0.039}$	z_{drag}	1057.68	$1060.7^{+3.8}_{-5.0}$
$\boldsymbol{\Omega_c h^2}$	0.1159	0.1154 ± 0.0051	$\sigma_8\Omega_m^{0.25}$	0.5878	0.583 ± 0.032	r_{drag}	148.00	$147.2^{+1.2}_{-1.0}$
$\boldsymbol{100\theta_{MC}}$	1.03647	$1.0382^{+0.0019}_{-0.0031}$	$\sigma_8/h^{0.5}$	0.9620	0.955 ± 0.047	k_D	0.14393	$0.1432^{+0.0020}_{-0.0017}$
$\boldsymbol{\tau}$	0.0575	0.058 ± 0.020	$\langle d^2\rangle^{1/2}$	2.478	2.43 ± 0.11	$100\theta_D$	0.15585	$0.1574^{+0.0020}_{-0.0030}$
$\boldsymbol{Y_P}$	0.146	< 0.223	z_{re}	7.42	7.39 ± 1.9	z_{eq}	3314	3318 ± 96
$\boldsymbol{\ln(10^{10}A_s)}$	3.0600	3.062 ± 0.042	$10^9 A_s$	2.133	2.140 ± 0.090	k_{eq}	0.010115	0.01013 ± 0.00029
$\boldsymbol{n_s}$	0.9434	$0.960^{+0.022}_{-0.029}$	$10^9 A_s e^{-2\tau}$	1.9008	1.906 ± 0.026	$100\theta_{eq}$	0.8270	0.830 ± 0.022
$\boldsymbol{y_{cal}}$	0.99975	1.0000 ± 0.0024	D_{40}	1318	1287^{+64}_{-51}	$100\theta_{s,eq}$	0.4561	0.457 ± 0.010
$\boldsymbol{A_{100}^{dustEE}}$	0.0794	0.0799 ± 0.0061	D_{220}	6063	6059 ± 220	$r_{drag}/D_V(0.57)$	0.07171	0.0724 ± 0.0021
$\boldsymbol{A_{100\times143}^{dustEE}}$	0.0463	0.0469 ± 0.0056	D_{810}	2626	2609^{+55}_{-48}	$H(0.57)$	92.61	$93.7^{+1.8}_{-2.3}$
$\boldsymbol{A_{100\times217}^{dustEE}}$	0.1031	0.099 ± 0.033	D_{1420}	866.7	854^{+32}_{-26}	$D_A(0.57)$	1390.2	1369 ± 48
$\boldsymbol{A_{143}^{dustEE}}$	0.0974	0.0979 ± 0.0075	D_{2000}	253.8	247^{+15}_{-12}	$F_{AP}(0.57)$	0.6742	$0.6715^{+0.0088}_{-0.010}$
$\boldsymbol{A_{143\times217}^{dustEE}}$	0.2203	0.223 ± 0.047	$n_{s,0.002}$	0.9434	$0.960^{+0.022}_{-0.029}$	$f\sigma_8(0.57)$	0.4583	0.456 ± 0.022
$\boldsymbol{A_{217}^{dustEE}}$	0.642	0.64 ± 0.13	Y_P	0.146	$0.197^{+0.043}_{-0.087}$	$\sigma_8(0.57)$	0.5903	$0.594^{+0.014}_{-0.017}$
H_0	67.64	69.1 ± 3.4	Y_P^{BBN}	0.147	$0.198^{+0.043}_{-0.087}$	χ^2_{lowEB}	5430.78	5431.8 ± 1.5
Ω_Λ	0.6955	$0.705^{+0.041}_{-0.032}$	Age/Gyr	13.873	$13.74^{+0.24}_{-0.21}$	χ^2_{plikEE}	750.00	758.2 ± 4.4
Ω_m	0.3045	$0.295^{+0.032}_{-0.041}$	z_*	1085.58	$1086.6^{+2.1}_{-2.7}$	χ^2_{prior}	3.17	7.61 ± 3.4
$\Omega_m h^2$	0.13933	0.1395 ± 0.0040	r_*	145.49	$144.93^{+0.98}_{-0.88}$	χ^2_{CMB}	6180.79	6190.0 ± 4.6
$\Omega_m h^3$	0.09425	$0.0963^{+0.0025}_{-0.0035}$	$100\theta_*$	1.03885	$1.0394^{+0.0011}_{-0.0013}$			
σ_8	0.7912	0.792 ± 0.025	D_A/Gpc	14.005	$13.94^{+0.10}_{-0.087}$			

Best-fit $\chi^2_{eff} = 6183.95$; $\bar{\chi}^2_{eff} = 6197.61$; $R - 1 = 0.01270$

χ^2_{eff}: CMB - lowl_QU_70_dx11d_2014_10_03_v5c_Ap: 5430.78 plik_dx11dr2_HM_v18_EE: 750.00

23.35 base_yhe_CamSpecDS_TT_lowTEB

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02239 ± 0.00033 $(+0.3\sigma)$	$\boldsymbol{\beta_1^1}$	0.0 ± 1.0	r_*	144.60 ± 0.48 (-0.0σ)
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0023 (-0.1σ)	H_0	67.9 ± 1.2 $(+0.2\sigma)$	$100\theta_*$	1.04125 ± 0.00052 $(+0.2\sigma)$
$\boldsymbol{100\theta_{MC}}$	1.04141 ± 0.00092 $(+0.3\sigma)$	Ω_Λ	0.691 ± 0.016 $(+0.2\sigma)$	$z_{\rm drag}$	1060.4 ± 1.3 $(+0.3\sigma)$
$\boldsymbol{\tau}$	0.079 ± 0.021 (-0.1σ)	$\Omega_{\rm m}$	0.309 ± 0.016 (-0.2σ)	$r_{\rm drag}$	147.27 ± 0.49 (-0.1σ)
$\boldsymbol{Y_P}$	0.258 ± 0.020 $(+0.3\sigma)$	$\Omega_{\rm m}h^2$	0.1421 ± 0.0021 (-0.1σ)	$k_{\rm D}$	0.14017 ± 0.00075 (-0.2σ)
$\boldsymbol{\ln(10^{10}A_s)}$	3.093 ± 0.041 (-0.1σ)	$\Omega_{\rm m}h^3$	0.09644 ± 0.00080 $(+0.3\sigma)$	$100\theta_{\rm D}$	0.16139 ± 0.00075 $(+0.3\sigma)$
$\boldsymbol{n_s}$	0.973 ± 0.012 $(+0.4\sigma)$	σ_8	0.831 ± 0.017 (-0.1σ)	$z_{\rm eq}$	3381 ± 51 (-0.1σ)
$\boldsymbol{y_{cal}}$	1.0003 ± 0.0025 (-0.0σ)	$\sigma_8\Omega_{\rm m}^{0.5}$	0.462 ± 0.013 (-0.2σ)	$100\theta_{\rm eq}$	0.818 ± 0.010 $(+0.1\sigma)$
$\boldsymbol{A_{100}^{PS}}$	283 ± 23 $(+0.8\sigma)$	$\sigma_8\Omega_{\rm m}^{0.25}$	0.620 ± 0.013 (-0.2σ)	$r_{\rm drag}/D_{\rm V}(0.57)$	0.07175 ± 0.00087 $(+0.2\sigma)$
$\boldsymbol{A_{143}^{PS}}$	48 ± 8 $(+0.4\sigma)$	$\sigma_8/h^{0.5}$	1.009 ± 0.020 (-0.2σ)	$H(0.57)$	93.21 ± 0.62 $(+0.3\sigma)$
$\boldsymbol{A_{217}^{PS}}$	87 ± 10 (-0.9σ)	$\langle d^2\rangle^{1/2}$	2.478 ± 0.046 (-0.4σ)	$D_{\rm A}(0.57)$	1384 ± 17 (-0.2σ)
$\boldsymbol{A_{217}^{CIB}}$	54 ± 7 (-1.5σ)	$z_{\rm re}$	$10.0^{+2.0}_{-1.8}$ (-0.1σ)	$F_{\rm AP}(0.57)$	0.6754 ± 0.0039 (-0.2σ)
$\boldsymbol{A_{143}^{tSZ}}$	< 3.60 (-1.1σ)	$10^9A_{\rm s}$	$2.207^{+0.087}_{-0.10}$ (-0.1σ)	$f\sigma_8(0.57)$	0.4825 ± 0.0096 (-0.1σ)
$\boldsymbol{r_{143\times217}^{PS}}$	$0.549^{+0.088}_{-0.11}$	$10^9A_{\rm s}e^{-2\tau}$	1.882 ± 0.015 $(+0.0\sigma)$	$\sigma_8(0.57)$	$0.619^{+0.013}_{-0.015}$ $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	< 0.596 (-0.2σ)	D_{40}	1223 ± 21 (-0.5σ)	f_{2000}^{143}	33.7 ± 3.4 $(+0.8\sigma)$
$\boldsymbol{A^{kSZ}}$	> 4.38 $(+0.8\sigma)$	D_{220}	5710 ± 41 (-0.2σ)	f_{2000}^{217}	109.0 ± 2.5 $(+0.9\sigma)$
$\boldsymbol{A_{100}^{dust}}$	0.97 ± 0.19	D_{810}	2535 ± 14 $(+0.0\sigma)$	$f_{2000}^{143\times217}$	36.0 ± 2.6 $(+1.1\sigma)$
$\boldsymbol{A_{143}^{dust}}$	1.07 ± 0.18	D_{1420}	814.2 ± 5.2 $(+0.0\sigma)$	$\chi^2_{\rm lowTEB}$	10496.1 ± 2.4 (-0.4σ)
$\boldsymbol{A_{217}^{dust}}$	1.16 ± 0.12	$n_{\rm s,0.002}$	0.973 ± 0.012 $(+0.4\sigma)$	$\chi^2_{\rm CamSpec}$	8155.5 ± 5.9
$\boldsymbol{A_{143\times217}^{dust}}$	0.97 ± 0.18	$Y_{\rm P}$	0.258 ± 0.020 $(+0.3\sigma)$	$\chi^2_{\rm prior}$	7.39 ± 3.3 (-0.0σ)
$\boldsymbol{c_{100}}$	0.99838 ± 0.00096 $(+0.7\sigma)$	Age/Gyr	13.776 ± 0.064 (-0.3σ)	$\chi^2_{\rm CMB}$	18651.7 ± 5.9 $(+1299.1\sigma)$
$\boldsymbol{c_{217}}$	0.9994 ± 0.0018 $(+2.3\sigma)$	z_*	1090.35 ± 0.63 $(+0.2\sigma)$		

$\bar{\chi}^2_{\rm eff} = 18659.07$; $\Delta\bar{\chi}^2_{\rm eff} = 7376.23$; $R-1 = 0.00489$

23.36 base_yhe_plikDS_TT_lowTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022349	0.02236 ± 0.00033 $(+0.1\sigma)$	Ω_Λ	0.6880	0.688 ± 0.016 $(+0.0\sigma)$	$100\theta_*$	1.04109	1.04116 ± 0.00051 $(+0.0\sigma)$
$\boldsymbol{\Omega_c h^2}$	0.11948	0.1194 ± 0.0023 (-0.0σ)	Ω_m	0.3120	0.312 ± 0.016 (-0.0σ)	D_A/Gpc	13.8854	13.885 ± 0.045 (-0.1σ)
$\boldsymbol{100\theta_{MC}}$	1.04107	1.04120 ± 0.00091 $(+0.1\sigma)$	$\Omega_m h^2$	0.14247	0.1424 ± 0.0022 $(+0.0\sigma)$	z_{drag}	1060.05	1060.2 ± 1.3 $(+0.1\sigma)$
$\boldsymbol{\tau}$	0.0774	0.078 ± 0.021 (-0.1σ)	$\Omega_m h^3$	0.09627	0.09633 ± 0.00080 $(+0.2\sigma)$	r_{drag}	147.236	147.24 ± 0.49 (-0.1σ)
$\boldsymbol{Y_P}$	0.2517	0.254 ± 0.021 $(+0.1\sigma)$	σ_8	0.8295	0.830 ± 0.016 (-0.1σ)	k_D	0.14044	0.14034 ± 0.00076 $(+0.0\sigma)$
$\boldsymbol{\ln(10^{10} A_s)}$	3.0898	3.092 ± 0.041 (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.4634	0.463 ± 0.013 (-0.1σ)	$100\theta_D$	0.16110	0.16122 ± 0.00075 $(+0.0\sigma)$
$\boldsymbol{n_s}$	0.9689	0.970 ± 0.012 $(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6200	0.620 ± 0.013 (-0.1σ)	z_{eq}	3389	3388 ± 51 $(+0.0\sigma)$
$\boldsymbol{y_{cal}}$	1.00030	1.0004 ± 0.0025 (-0.0σ)	$\sigma_8/h^{0.5}$	1.0092	1.010 ± 0.019 (-0.1σ)	k_{eq}	0.010344	0.01034 ± 0.00016 $(+0.0\sigma)$
$\boldsymbol{A_{217}^{CIB}}$	71.3	68.0 ± 6.6 $(+0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	2.4876	2.487 ± 0.046 (-0.2σ)	$100\theta_{eq}$	0.8157	0.816 ± 0.010 $(+0.0\sigma)$
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	z_{re}	9.93	9.92 ± 1.9 (-0.1σ)	$100\theta_{s,eq}$	0.4506	0.4509 ± 0.0052 (-0.0σ)
$\boldsymbol{A_{143}^{tSZ}}$	6.78	4.54 ± 2.0 (-0.2σ)	$10^9 A_s$	2.197	$2.203^{+0.085}_{-0.10}$ (-0.1σ)	$r_{drag}/D_V(0.57)$	0.07154	0.07160 ± 0.00087 $(+0.0\sigma)$
$\boldsymbol{A_{100}^{PS}}$	279.0	285 ± 28 $(+0.9\sigma)$	$10^9 A_s e^{-2\tau}$	1.8822	1.883 ± 0.015 $(+0.1\sigma)$	$H(0.57)$	93.04	$93.10^{+0.61}_{-0.68}$ $(+0.1\sigma)$
$\boldsymbol{A_{143}^{PS}}$	45.0	50 ± 8 $(+0.6\sigma)$	D_{40}	1230.3	1230 ± 21 (-0.1σ)	$D_A(0.57)$	1387.7	1387 ± 17 (-0.1σ)
$\boldsymbol{A_{143\times217}^{PS}}$	35.0	41^{+9}_{-10} $(+0.1\sigma)$	D_{220}	5720.1	5720 ± 41 $(+0.0\sigma)$	$F_{AP}(0.57)$	0.67617	0.6760 ± 0.0040 (-0.0σ)
$\boldsymbol{A_{217}^{PS}}$	93.6	93 ± 10 (-0.4σ)	D_{810}	2535.7	2536 ± 14 $(+0.0\sigma)$	$f\sigma_8(0.57)$	0.4824	0.4826 ± 0.0094 (-0.1σ)
$\boldsymbol{A^{kSZ}}$	0.03	< 5.33 $(+0.1\sigma)$	D_{1420}	814.7	814.3 ± 5.2 $(+0.0\sigma)$	$\sigma_8(0.57)$	0.6170	$0.618^{+0.013}_{-0.015}$ (-0.1σ)
$\boldsymbol{A_{100}^{dustTT}}$	7.42	7.38 ± 1.9 (-0.0σ)	D_{2000}	230.10	229.8 ± 2.4 (-0.0σ)	f_{2000}^{143}	33.35	34.0 ± 3.4 $(+0.9\sigma)$
$\boldsymbol{A_{143}^{dustTT}}$	9.19	9.09 ± 1.8 $(+0.0\sigma)$	$n_{s,0.002}$	0.9689	0.970 ± 0.012 $(+0.1\sigma)$	$f_{2000}^{143\times217}$	33.43	33.8 ± 2.6 $(+0.3\sigma)$
$\boldsymbol{A_{143\times217}^{dustTT}}$	18.00	17.3 ± 4.2 $(+0.0\sigma)$	Y_P	0.2517	0.254 ± 0.021 $(+0.1\sigma)$	f_{2000}^{217}	114.16	114.5 ± 2.4 $(+3.0\sigma)$
$\boldsymbol{A_{217}^{dustTT}}$	80.9	80.5 ± 7.4 (-0.2σ)	Y_P^{BBN}	0.2531	0.255 ± 0.021 $(+0.1\sigma)$	χ^2_{lowTEB}	10495.75	10496.8 ± 2.6 (-0.2σ)
$\boldsymbol{c_{100}}$	0.99793	0.99789 ± 0.00078 $(+0.0\sigma)$	Age/Gyr	13.793	13.788 ± 0.064 (-0.1σ)	χ^2_{plik}	748.2	762.4 ± 5.8 (-2.7σ)
$\boldsymbol{c_{217}}$	0.99640	0.9964 ± 0.0015 $(+0.3\sigma)$	z_*	1090.16	1090.25 ± 0.63 $(+0.0\sigma)$	χ^2_{prior}	2.03	7.32 ± 3.5 (-0.0σ)
H_0	67.57	67.7 ± 1.2 $(+0.1\sigma)$	r_*	144.560	144.57 ± 0.49 (-0.1σ)	χ^2_{CMB}	11244.0	11259.2 ± 5.6 (-2.9σ)

Best-fit $\chi^2_{eff} = 11246.03$; $\Delta\chi^2_{eff} = -15.88$; $\bar{\chi}^2_{eff} = 11266.48$; $\Delta\bar{\chi}^2_{eff} = -16.36$; $R - 1 = 0.01104$
χ^2_{eff}: CMB - lowl_SMW_70_dx11d_2014_10_03_v5c_Ap: 10495.75 (Δ -0.48) plik_dx11dr2_DS_v18_TT: 748.25

23.37 base_yhe_plikHM_TT_WMAPTEB

Parameter	Best fit	68% limits	Parameter	Best fit	68% limits	Parameter	Best fit	68% limits
$\boldsymbol{\Omega_b h^2}$	0.022226	0.02226 ± 0.00030	Ω_Λ	0.6844	0.685 ± 0.014	$100\theta_*$	1.041071	1.04112 ± 0.00050
$\boldsymbol{\Omega_c h^2}$	0.11992	0.1198 ± 0.0022	Ω_m	0.3156	0.315 ± 0.014	D_A/Gpc	13.8851	13.884 ± 0.045
$\boldsymbol{100\theta_{MC}}$	1.04093	1.04106 ± 0.00087	$\Omega_m h^2$	0.14279	0.1427 ± 0.0020	z_{drag}	1059.67	1059.9 ± 1.2
$\boldsymbol{\tau}$	0.0726	$0.074^{+0.012}_{-0.013}$	$\Omega_m h^3$	0.09605	0.09616 ± 0.00077	r_{drag}	147.27	147.25 ± 0.50
$\boldsymbol{Y_P}$	0.2474	0.250 ± 0.020	σ_8	0.8267	0.828 ± 0.012	k_D	0.14049	0.14041 ± 0.00073
$\boldsymbol{\ln(10^{10} A_s)}$	3.0804	3.084 ± 0.025	$\sigma_8 \Omega_m^{0.5}$	0.4644	0.464 ± 0.013	$100\theta_D$	0.16105	0.16117 ± 0.00075
$\boldsymbol{n_s}$	0.9660	0.967 ± 0.011	$\sigma_8 \Omega_m^{0.25}$	0.6196	0.620 ± 0.012	z_{eq}	3396.9	3395 ± 48
$\boldsymbol{y_{cal}}$	1.00048	1.0004 ± 0.0025	$\sigma_8/h^{0.5}$	1.0079	1.009 ± 0.017	k_{eq}	0.010368	0.01036 ± 0.00015
$\boldsymbol{A_{217}^{CIB}}$	67.4	64.4 ± 6.8	$\langle d^2 \rangle^{1/2}$	2.4878	2.488 ± 0.042	$100\theta_{eq}$	0.8138	0.8145 ± 0.0094
$\boldsymbol{\xi^{tSZ\times CIB}}$	0.00	—	z_{re}	9.50	9.63 ± 1.1	$100\theta_{s,eq}$	0.44977	0.4501 ± 0.0048
$\boldsymbol{A_{143}^{tSZ}}$	7.12	5.00 ± 2.0	$10^9 A_s$	2.177	$2.186^{+0.052}_{-0.060}$	$r_{drag}/D_V(0.57)$	0.07136	0.07144 ± 0.00079
$\boldsymbol{A_{100}^{PS}}$	254.0	260 ± 29	$10^9 A_s e^{-2\tau}$	1.8828	1.884 ± 0.015	$H(0.57)$	92.87	92.95 ± 0.55
$\boldsymbol{A_{143}^{PS}}$	39.8	45 ± 9	D_{40}	1234.0	1233 ± 21	$D_A(0.57)$	1392.2	1390 ± 15
$\boldsymbol{A_{143\times217}^{PS}}$	33.1	40^{+10}_{-10}	D_{220}	5716.7	5718 ± 41	$F_{AP}(0.57)$	0.67707	0.6768 ± 0.0036
$\boldsymbol{A_{217}^{PS}}$	97.6	97 ± 10	D_{810}	2536.1	2536 ± 14	$f\sigma_8(0.57)$	0.4817	0.4821 ± 0.0082
$\boldsymbol{A^{kSZ}}$	0.01	< 4.89	D_{1420}	814.9	814.3 ± 5.3	$\sigma_8(0.57)$	0.6140	$0.6153^{+0.0085}_{-0.0096}$
$\boldsymbol{A_{100}^{dustTT}}$	7.48	7.50 ± 1.9	D_{2000}	230.18	229.8 ± 2.4	f_{2000}^{143}	30.14	31 ± 4
$\boldsymbol{A_{143}^{dustTT}}$	9.08	9.04 ± 1.9	$n_{s,0.002}$	0.9660	0.967 ± 0.011	$f_{2000}^{143\times217}$	32.69	33.0 ± 2.8
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.64	17.2 ± 4.1	Y_P	0.2474	0.250 ± 0.020	f_{2000}^{217}	106.28	106.6 ± 2.6
$\boldsymbol{A_{217}^{dustTT}}$	82.1	81.8 ± 7.4	Y_P^{BBN}	0.2487	0.252 ± 0.020	$\chi^2_{WMAPTEB}$	19733.98	19735.2 ± 2.6
$\boldsymbol{c_{100}}$	0.99792	0.99789 ± 0.00079	Age/Gyr	13.812	13.803 ± 0.058	χ^2_{plik}	764.1	778.5 ± 5.8
$\boldsymbol{c_{217}}$	0.99597	0.9960 ± 0.0015	z_*	1090.18	1090.26 ± 0.66	χ^2_{prior}	2.07	7.42 ± 3.6
H_0	67.26	67.4 ± 1.1	r_*	144.554	144.54 ± 0.49	χ^2_{CMB}	20498.1	20513.7 ± 5.7

Best-fit $\chi^2_{eff} = 20500.13$; $\bar{\chi}^2_{eff} = 20521.09$; $R - 1 = 0.01182$

χ^2_{eff}: CMB - bflike_WMAP353ggf_LFI312_nw8: 19733.98 plik_dx11dr2_HM_v18_TT: 764.09

23.38 base_yhe_plikHM_TT_WMAPTEB_post_lensing

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02235 ± 0.00029	Ω_m	0.304 ± 0.011	z_{drag}	1060.0 ± 1.2
$\boldsymbol{\Omega_c h^2}$	0.1181 ± 0.0017	$\Omega_m h^2$	0.1411 ± 0.0016	r_{drag}	147.59 ± 0.42
$\boldsymbol{100\theta_{MC}}$	1.04134 ± 0.00083	$\Omega_m h^3$	0.09616 ± 0.00076	k_D	0.14005 ± 0.00067
$\boldsymbol{\tau}$	$0.070^{+0.011}_{-0.013}$	σ_8	0.8185 ± 0.0092	$100\theta_D$	$0.16121^{+0.00073}_{-0.00082}$
$\boldsymbol{Y_P}$	0.252 ± 0.020	$\sigma_8\Omega_m^{0.5}$	0.4514 ± 0.0087	z_{eq}	3357 ± 38
$\boldsymbol{\ln(10^{10} A_s)}$	$3.072^{+0.022}_{-0.025}$	$\sigma_8\Omega_m^{0.25}$	0.6078 ± 0.0077	k_{eq}	0.01025 ± 0.00012
$\boldsymbol{n_s}$	0.971 ± 0.010	$\sigma_8/h^{0.5}$	0.992 ± 0.011	$100\theta_{eq}$	0.8217 ± 0.0075
$\boldsymbol{y_{cal}}$	$1.0001^{+0.0025}_{-0.0028}$	$\langle d^2\rangle^{1/2}$	2.446 ± 0.027	$100\theta_{s,eq}$	0.4538 ± 0.0038
$\boldsymbol{A_{217}^{CIB}}$	64.8 ± 6.8	z_{re}	9.22 ± 1.1	$r_{drag}/D_V(0.57)$	0.07202 ± 0.00065
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s$	$2.159^{+0.046}_{-0.054}$	$H(0.57)$	93.25 ± 0.51
$\boldsymbol{A_{143}^{tSZ}}$	4.99 ± 2.0	$10^9 A_s e^{-2\tau}$	1.875 ± 0.014	$D_A(0.57)$	1380 ± 13
$\boldsymbol{A_{100}^{PS}}$	261 ± 28	D_{40}	1221 ± 18	$F_{AP}(0.57)$	0.6742 ± 0.0029
$\boldsymbol{A_{143}^{PS}}$	45 ± 9	D_{220}	5717 ± 41	$f\sigma_8(0.57)$	0.4739 ± 0.0054
$\boldsymbol{A_{143\times217}^{PS}}$	39 ± 10	D_{810}	2533 ± 14	$\sigma_8(0.57)$	0.6108 ± 0.0081
$\boldsymbol{A_{217}^{PS}}$	96 ± 10	D_{1420}	814.2 ± 5.3	f_{2000}^{143}	31 ± 4
$\boldsymbol{A^{kSZ}}$	< 5.27	D_{2000}	229.6 ± 2.4	$f_{2000}^{143\times217}$	33.3 ± 2.9
$\boldsymbol{A_{100}^{dustTT}}$	7.60 ± 1.9	$n_{s,0.002}$	0.971 ± 0.010	f_{2000}^{217}	106.7 ± 2.6
$\boldsymbol{A_{143}^{dustTT}}$	9.17 ± 1.9	Y_P	0.252 ± 0.020	$\chi^2_{lensing}$	9.91 ± 1.5
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.3 ± 4.2	Y_P^{BBN}	0.253 ± 0.020	$\chi^2_{WMAPTEB}$	19733.7 ± 2.1
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.4	Age/Gyr	13.779 ± 0.054	χ^2_{plik}	780.3 ± 7.6
$\boldsymbol{c_{100}}$	0.99786 ± 0.00078	z_*	1090.06 ± 0.64	χ^2_{prior}	7.61 ± 3.6
$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	r_*	144.91 ± 0.39	χ^2_{CMB}	20523.9 ± 7.7
H_0	68.14 ± 0.94	$100\theta_*$	1.04135 ± 0.00045		
Ω_Λ	0.696 ± 0.011	D_A/Gpc	13.915 ± 0.038		

$\bar{\chi}^2_{eff} = 20531.55$; $R - 1 = 0.02408$

23.39 base_yhe_plikHM_TT_WMAPTEB_post_BAO

Parameter	68% limits	Parameter	68% limits	Parameter	68% limits
$\boldsymbol{\Omega_b h^2}$	0.02232 ± 0.00025	$\Omega_m h^2$	0.1421 ± 0.0012	k_D	0.14024 ± 0.00058
$\boldsymbol{\Omega_c h^2}$	0.1191 ± 0.0013	$\Omega_m h^3$	0.09624 ± 0.00073	$100\theta_D$	0.16124 ± 0.00073
$\boldsymbol{100\theta_{MC}}$	1.04124 ± 0.00073	σ_8	0.827 ± 0.012	z_{eq}	3380 ± 30
$\boldsymbol{\tau}$	0.076 ± 0.012	$\sigma_8\Omega_m^{0.5}$	0.4605 ± 0.0090	k_{eq}	0.010317 ± 0.000091
$\boldsymbol{Y_P}$	0.253 ± 0.019	$\sigma_8\Omega_m^{0.25}$	0.6173 ± 0.0098	$100\theta_{eq}$	0.8174 ± 0.0054
$\boldsymbol{\ln(10^{10} A_s)}$	3.086 ± 0.024	$\sigma_8/h^{0.5}$	1.005 ± 0.015	$100\theta_{s,eq}$	0.4516 ± 0.0028
$\boldsymbol{n_s}$	0.9698 ± 0.0083	$\langle d^2\rangle^{1/2}$	2.478 ± 0.033	$r_{drag}/D_V(0.57)$	0.07168 ± 0.00043
$\boldsymbol{y_{cal}}$	1.0005 ± 0.0026	z_{re}	9.75 ± 1.1	$H(0.57)$	93.10 ± 0.37
$\boldsymbol{A_{217}^{CIB}}$	64.6 ± 6.8	$10^9 A_s$	2.190 ± 0.054	$D_A(0.57)$	1385.7 ± 9.0
$\boldsymbol{\xi^{tSZ\times CIB}}$	—	$10^9 A_s e^{-2\tau}$	1.882 ± 0.015	$F_{AP}(0.57)$	0.6756 ± 0.0020
$\boldsymbol{A_{143}^{tSZ}}$	4.97 ± 2.0	D_{40}	1228 ± 17	$f\sigma_8(0.57)$	0.4806 ± 0.0072
$\boldsymbol{A_{100}^{PS}}$	261 ± 29	D_{220}	5721 ± 41	$\sigma_8(0.57)$	0.6159 ± 0.0088
$\boldsymbol{A_{143}^{PS}}$	45 ± 9	D_{810}	2536 ± 14	f_{2000}^{143}	31 ± 4
$\boldsymbol{A_{143\times217}^{PS}}$	40^{+10}_{-10}	D_{1420}	814.4 ± 5.3	$f_{2000}^{143\times217}$	33.2 ± 2.8
$\boldsymbol{A_{217}^{PS}}$	97 ± 10	D_{2000}	229.8 ± 2.4	f_{2000}^{217}	106.8 ± 2.6
$\boldsymbol{A^{kSZ}}$	< 5.06	$n_{s,0.002}$	0.9698 ± 0.0083	$\chi^2_{WMAPTEB}$	19734.6 ± 2.4
$\boldsymbol{A_{100}^{dustTT}}$	7.51 ± 1.9	Y_P	0.253 ± 0.019	χ^2_{plik}	778.5 ± 7.3
$\boldsymbol{A_{143}^{dustTT}}$	9.07 ± 1.9	Y_P^{BBN}	0.254 ± 0.019	χ^2_{6DF}	0.061 ± 0.082
$\boldsymbol{A_{143\times217}^{dustTT}}$	17.2 ± 4.2	Age/Gyr	13.789 ± 0.043	χ^2_{MGS}	1.38 ± 0.56
$\boldsymbol{A_{217}^{dustTT}}$	81.8 ± 7.4	z_*	1090.23 ± 0.65	$\chi^2_{DR11CMASS}$	2.90 ± 0.71
$\boldsymbol{c_{100}}$	0.99789 ± 0.00078	r_*	144.66 ± 0.38	$\chi^2_{DR11LOWZ}$	0.73 ± 0.61
$\boldsymbol{c_{217}}$	0.9960 ± 0.0015	$100\theta_*$	1.04123 ± 0.00042	χ^2_{prior}	7.46 ± 3.6
H_0	67.73 ± 0.63	D_A/Gpc	13.894 ± 0.037	χ^2_{CMB}	20513.1 ± 7.3
Ω_Λ	0.6901 ± 0.0078	z_{drag}	1060.0 ± 1.1	χ^2_{BAO}	5.07 ± 1.0
Ω_m	0.3099 ± 0.0078	r_{drag}	147.35 ± 0.43		

$\bar{\chi}^2_{eff} = 20525.63$; $R - 1 = 0.01591$