

Planck Collaboration: Cosmological Parameter Tables with 95% limits

February 7, 2013

Abstract

These tables summarize the results of *Planck* parameter estimation exploration results. They include Planck data in combination with WMAP polarization, *Planck* lensing, and high- l CMB experiments, as well as additional non-CMB data as detailed in the main parameter papers.

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
planck_CAMspec	high- l Planck temperature
lowl	low- l Planck temperature
lowLike	low- l WMAP polarization
lensing	Planck lensing power spectrum reconstruction
BAO	Baryon oscillation data from DR7, DR9 and 6DF
SNLS	Supernova data from the Supernova Legacy Survey
Union2	Supernova data from the Union compilation
HST	Hubble parameter constraint from HST (Riess et al)
WMAP	WMAP 9 year data

Data combinations 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.

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1.1 base_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02202	$0.02210^{+0.00056}_{-0.00055}$	β_3^1	0.26	$0.0^{+2.0}_{-1.9}$	z_{re}	11.56	$11.1^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1207	$0.1194^{+0.0054}_{-0.0051}$	β_4^1	0.24	$0.0^{+2.0}_{-2.0}$	H_0	66.94	$67.5^{+2.4}_{-2.4}$
θ	1.04126	$1.0414^{+0.0012}_{-0.0013}$	β_5^1	-0.75	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.222	$2.20^{+0.12}_{-0.10}$
τ	0.0945	$0.090^{+0.027}_{-0.025}$	β_1^2	-0.37	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14336	$0.1421^{+0.0051}_{-0.0048}$
n_s	0.9587	$0.962^{+0.015}_{-0.015}$	β_2^2	0.31	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09596	$0.0959^{+0.0011}_{-0.0011}$
$\log[10^{10} A_s]$	3.101	$3.088^{+0.052}_{-0.048}$	β_3^2	0.50	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247688	$0.24772^{+0.00024}_{-0.00024}$
A_{100}^{PS}	179	148^{+100}_{-100}	β_4^2	0.32	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8393	$1.832^{+0.025}_{-0.025}$
A_{143}^{PS}	50.3	53^{+30}_{-30}	β_5^2	-0.44	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.825	$13.808^{+0.095}_{-0.095}$
A_{217}^{PS}	110.8	119^{+30}_{-30}	β_1^3	-0.18	$-0.1^{+1.9}_{-1.9}$	z_*	1090.54	$1090.3^{+1.0}_{-1.0}$
A_{143}^{CIB}	11.8	—	β_2^3	-0.15	$-0.1^{+2.0}_{-1.9}$	r_*	144.51	$144.8^{+1.2}_{-1.2}$
A_{217}^{CIB}	28.5	21^{+10}_{-10}	β_3^3	-0.17	$0.0^{+2.0}_{-2.0}$	θ_*	1.04142	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	3.58	—	β_4^3	-0.22	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.25	$1059.3^{+1.2}_{-1.1}$
$r_{PS143/217}$	0.914	> 0.671	β_5^3	-0.26	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.29	$147.6^{+1.2}_{-1.2}$
r_{CIB}	0.357	—	β_1^4	-0.60	$-0.1^{+1.9}_{-2.0}$	k_D	0.14027	$0.1401^{+0.0012}_{-0.0012}$
n^{CIB}	0.471	$0.24^{+0.27}_{-0.30}$	β_2^4	0.43	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16140	$0.16135^{+0.00066}_{-0.00065}$
$c_{100/143}$	1.00060	$1.00061^{+0.00078}_{-0.00077}$	β_3^4	0.14	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3410	3380^{+120}_{-120}
$c_{217/143}$	0.99604	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.16	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8111	$0.817^{+0.023}_{-0.022}$
$\xi^{tSZ-CIB}$	0.23	—	β_5^4	0.42	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07118	$0.0716^{+0.0018}_{-0.0018}$
A^{kSZ}	1.65	—	Ω_Λ	0.6800	$0.688^{+0.031}_{-0.034}$	$H(0.57)$	0.00030928	$0.0003101^{+0.0000035}_{-0.0000033}$
β_1^1	0.45	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3200	$0.312^{+0.034}_{-0.031}$	$DA(0.57)$	1396.6	1389^{+32}_{-31}
β_2^1	0.25	$0.1^{+1.9}_{-1.9}$	σ_8	0.8362	$0.827^{+0.025}_{-0.025}$			

Best-fit $\chi_{\text{eff}}^2 = 9808.02$; R-1 = 0.01313

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.66 commander_v3.light.clik: -6.19 CAMspec_v6.2TN_2013_01_18.clik: 7799.55

1.2 base_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02211^{+0.00055}_{-0.00053}$	β_3^1	-0.08	$0.0^{+2.0}_{-1.9}$	z_{re}	11.43	$11.3^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.11912	$0.1196^{+0.0044}_{-0.0043}$	β_4^1	-0.07	$0.0^{+2.0}_{-1.9}$	H_0	67.68	$67.4^{+2.1}_{-2.0}$
θ	1.04137	$1.0413^{+0.0012}_{-0.0012}$	β_5^1	-0.01	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.212	$2.21^{+0.11}_{-0.097}$
τ	0.0941	$0.092^{+0.027}_{-0.024}$	β_1^2	-0.02	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14196	$0.1424^{+0.0041}_{-0.0041}$
n_s	0.9634	$0.961^{+0.014}_{-0.014}$	β_2^2	0.02	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09607	$0.0960^{+0.0011}_{-0.0011}$
$\log[10^{10} A_s]$	3.0964	$3.093^{+0.049}_{-0.045}$	β_3^2	-0.13	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247764	$0.24773^{+0.00023}_{-0.00023}$
A_{100}^{PS}	146	147^{+100}_{-100}	β_4^2	0.06	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8323	$1.834^{+0.021}_{-0.021}$
A_{143}^{PS}	47.3	53^{+30}_{-30}	β_5^2	-0.095	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.797	$13.810^{+0.087}_{-0.090}$
A_{217}^{PS}	124.0	119^{+30}_{-30}	β_1^3	-0.11	$-0.1^{+1.9}_{-1.9}$	z_*	1090.17	$1090.33^{+0.95}_{-0.95}$
A_{143}^{CIB}	7.41	—	β_2^3	0.00	$-0.2^{+1.9}_{-1.9}$	r_*	144.78	$144.71^{+0.99}_{-0.98}$
A_{217}^{CIB}	21.6	21^{+10}_{-10}	β_3^3	-0.05	$0.0^{+2.0}_{-2.0}$	θ_*	1.04152	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	7.27	—	β_4^3	-0.17	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.55	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.783	> 0.673	β_5^3	-0.14	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.51	$147.47^{+0.98}_{-0.98}$
r_{CIB}	0.548	—	β_1^4	-0.06	$-0.1^{+1.9}_{-2.0}$	k_D	0.14018	$0.1402^{+0.0011}_{-0.0011}$
n^{CIB}	0.207	$0.24^{+0.26}_{-0.30}$	β_2^4	-0.08	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16121	$0.16131^{+0.00066}_{-0.00065}$
$c_{100/143}$	1.00061	$1.00062^{+0.00078}_{-0.00077}$	β_3^4	-0.05	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3377	3387^{+98}_{-98}
$c_{217/143}$	0.99659	$0.9965^{+0.0026}_{-0.0025}$	β_4^4	0.09	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8178	$0.816^{+0.019}_{-0.018}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.07	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07171	$0.0715^{+0.0015}_{-0.0015}$
A^{kSZ}	0.0	—	Ω_Λ	0.6901	$0.686^{+0.027}_{-0.028}$	$H(0.57)$	0.00031034	$0.0003099^{+0.0000032}_{-0.0000029}$
β_1^1	0.55	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3099	$0.314^{+0.028}_{-0.027}$	$DA(0.57)$	1386.7	1390^{+27}_{-28}
β_2^1	0.16	$0.1^{+1.9}_{-1.9}$	σ_8	0.0689	$0.830^{+0.020}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 9814.38$; R-1 = 0.01206

χ_{eff}^2 : CMB - lowlike.v22.light.cli: 2014.47 lensing_likelihood_v3.ref.cli: 11.15 commander_v3.light.cli: -7.42 CAMspec_v6.2TN_2013_01_18.cli
7796.18

1.3 base_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022162	$0.02215^{+0.00050}_{-0.00048}$	β_3^1	0.11	$0.0^{+2.0}_{-1.9}$	z_{re}	11.39	$11.2^{+2.2}_{-2.1}$
$\Omega_c h^2$	0.11847	$0.1185^{+0.0034}_{-0.0034}$	β_4^1	0.04	$0.0^{+2.0}_{-2.0}$	H_0	67.92	$67.9^{+1.6}_{-1.5}$
θ	1.04149	$1.0415^{+0.0011}_{-0.0011}$	β_5^1	0.06	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.205	$2.20^{+0.12}_{-0.11}$
τ	0.0937	$0.092^{+0.027}_{-0.024}$	β_1^2	-0.15	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14127	$0.1413^{+0.0033}_{-0.0032}$
n_s	0.9643	$0.964^{+0.012}_{-0.012}$	β_2^2	-0.06	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09596	$0.0959^{+0.0011}_{-0.0011}$
$\log[10^{10} A_s]$	3.093	$3.089^{+0.053}_{-0.049}$	β_3^2	-0.17	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247751	$0.24774^{+0.00021}_{-0.00021}$
A_{100}^{PS}	153	148^{+100}_{-100}	β_4^2	-0.01	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8279	$1.828^{+0.018}_{-0.018}$
A_{143}^{PS}	48.6	52^{+30}_{-30}	β_5^2	-0.09	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.794	$13.796^{+0.074}_{-0.075}$
A_{217}^{PS}	122.4	119^{+30}_{-30}	β_1^3	0.00	$-0.1^{+1.9}_{-1.9}$	z_*	1090.15	$1090.18^{+0.79}_{-0.78}$
A_{143}^{CIB}	8.38	—	β_2^3	-0.07	$-0.1^{+2.0}_{-1.9}$	r_*	144.98	$144.97^{+0.83}_{-0.84}$
A_{217}^{CIB}	22.9	21^{+10}_{-10}	β_3^3	0.02	$0.0^{+2.0}_{-2.0}$	θ_*	1.04164	$1.0416^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	6.67	—	β_4^3	-0.14	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.44	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.783	> 0.672	β_5^3	0.02	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.72	$147.72^{+0.89}_{-0.89}$
r_{CIB}	0.552	—	β_1^4	-0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.13994	$0.1399^{+0.0011}_{-0.0011}$
n^{CIB}	0.228	$0.24^{+0.27}_{-0.30}$	β_2^4	-0.16	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16130	$0.16131^{+0.00064}_{-0.00063}$
$c_{100/143}$	1.00061	$1.00062^{+0.00078}_{-0.00078}$	β_3^4	-0.11	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3360	3362^{+79}_{-77}
$c_{217/143}$	0.99653	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.07	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8207	$0.820^{+0.015}_{-0.015}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.03	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07193	$0.0719^{+0.0012}_{-0.0012}$
A^{kSZ}	0.1	—	Ω_Λ	0.6938	$0.693^{+0.020}_{-0.021}$	$H(0.57)$	0.00031059	$0.0003105^{+0.0000025}_{-0.0000024}$
β_1^1	0.33	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3062	$0.307^{+0.021}_{-0.020}$	$DA(0.57)$	1383.6	1384^{+21}_{-21}
β_2^1	0.08	$0.1^{+1.9}_{-1.9}$	σ_8	0.8266	$0.825^{+0.024}_{-0.023}$			

Best-fit $\chi_{\text{eff}}^2 = 9804.81$; R-1 = 0.00957

χ_{eff}^2 : BAO - DR7: 0.90 6DF: 0.02 DR9: 0.41 CMB - lowlike.v22.light.clik: 2014.41 commander.v3.light.clik: -7.76 CAMspec.v6.2TN.2013_01_18.clik: 7796.83

1.4 base_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02230	$0.02230^{+0.00053}_{-0.00053}$	β_3^1	0.07	$0.0^{+1.9}_{-1.9}$	z_{re}	11.81	$11.4^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.11655	$0.1168^{+0.0047}_{-0.0043}$	β_4^1	0.01	$0.0^{+2.0}_{-2.0}$	H_0	68.82	$68.8^{+2.1}_{-2.1}$
θ	1.04177	$1.0418^{+0.0012}_{-0.0012}$	β_5^1	-0.17	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.223	$2.20^{+0.12}_{-0.11}$
τ	0.0999	$0.095^{+0.027}_{-0.025}$	β_1^2	0.07	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.13950	$0.1397^{+0.0045}_{-0.0041}$
n_s	0.9688	$0.968^{+0.014}_{-0.014}$	β_2^2	-0.24	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09601	$0.0960^{+0.0011}_{-0.0011}$
$\log[10^{10} A_s]$	3.101	$3.091^{+0.053}_{-0.050}$	β_3^2	-0.13	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247811	$0.24781^{+0.0022}_{-0.00023}$
A_{100}^{PS}	174	147^{+100}_{-100}	β_4^2	0.16	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8201	$1.821^{+0.023}_{-0.022}$
A_{143}^{PS}	51.1	51^{+30}_{-30}	β_5^2	-0.13	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.763	$13.764^{+0.088}_{-0.086}$
A_{217}^{PS}	120.2	118^{+30}_{-30}	β_1^3	-0.26	$-0.1^{+1.8}_{-1.9}$	z_*	1089.80	$1089.82^{+0.95}_{-0.89}$
A_{143}^{CIB}	10.1	—	β_2^3	-0.06	$-0.1^{+2.0}_{-1.9}$	r_*	145.37	$145.3^{+1.0}_{-1.1}$
A_{217}^{CIB}	23.0	21^{+10}_{-10}	β_3^3	-0.18	$0.0^{+2.0}_{-2.0}$	θ_*	1.04191	$1.0419^{+0.0011}_{-0.0012}$
A_{143}^{tSZ}	4.85	—	β_4^3	-0.16	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.63	$1059.6^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.798	> 0.669	β_5^3	-0.10	$-0.1^{+1.9}_{-2.0}$	r_{drag}	148.08	$148.0^{+1.1}_{-1.1}$
r_{CIB}	0.497	—	β_1^4	-0.09	$-0.1^{+1.9}_{-1.9}$	k_D	0.13968	$0.1397^{+0.0012}_{-0.0012}$
n^{CIB}	0.266	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.10	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16120	$0.16120^{+0.00064}_{-0.00063}$
$c_{100/143}$	1.00062	$1.00061^{+0.00077}_{-0.00078}$	β_3^4	-0.36	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3318	3323^{+110}_{-99}
$c_{217/143}$	0.99649	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.02	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8292	$0.828^{+0.020}_{-0.021}$
$\xi^{tSZ-CIB}$	0.25	—	β_5^4	0.19	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07262	$0.0726^{+0.0016}_{-0.0016}$
A^{kSZ}	0.9	—	Ω_Λ	0.7055	$0.704^{+0.025}_{-0.029}$	$H(0.57)$	0.00031188	$0.0003118^{+0.0000032}_{-0.0000032}$
β_1^1	0.40	$0.4^{+1.6}_{-1.7}$	Ω_m	0.2945	$0.296^{+0.029}_{-0.025}$	$DA(0.57)$	1371.7	1373^{+28}_{-27}
β_2^1	0.00	$0.1^{+1.9}_{-1.9}$	σ_8	0.8242	$0.820^{+0.026}_{-0.025}$			

Best-fit $\chi_{\text{eff}}^2 = 9809.62$; R-1 = 0.01405

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.79 commander.v3.light.clik: -8.34 CAMspec.v6.2TN_2013_01_18.clik: 7798.86 Hubble - HST: 4.32

1.5 base_planck_CAMspec_lowl_lowLike_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02221^{+0.00055}_{-0.00054}$	β_3^1	0.08	$0.0^{+1.9}_{-1.9}$	z_{re}	11.54	$11.3^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.11806	$0.1177^{+0.0049}_{-0.0047}$	β_4^1	-0.14	$0.0^{+2.0}_{-2.0}$	H_0	68.10	$68.3^{+2.2}_{-2.2}$
θ	1.04152	$1.0416^{+0.0012}_{-0.0012}$	β_5^1	-0.01	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.213	$2.20^{+0.12}_{-0.11}$
τ	0.0957	$0.093^{+0.027}_{-0.025}$	β_1^2	-0.20	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.14089	$0.1405^{+0.0046}_{-0.0044}$
n_s	0.9655	$0.966^{+0.014}_{-0.014}$	β_2^2	0.04	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09595	$0.0959^{+0.0011}_{-0.0011}$
$\log[10^{10} A_s]$	3.097	$3.090^{+0.053}_{-0.049}$	β_3^2	0.19	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247763	$0.24777^{+0.00023}_{-0.00023}$
A_{100}^{PS}	187	148^{+100}_{-100}	β_4^2	0.04	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8273	$1.825^{+0.024}_{-0.023}$
A_{143}^{PS}	54.6	52^{+30}_{-30}	β_5^2	-0.21	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.789	$13.782^{+0.091}_{-0.092}$
A_{217}^{PS}	121.3	119^{+30}_{-30}	β_1^3	-0.10	$-0.1^{+1.8}_{-1.9}$	z_*	1090.08	$1090.02^{+0.99}_{-0.97}$
A_{143}^{CIB}	10.6	—	β_2^3	-0.33	$-0.1^{+2.0}_{-1.9}$	r_*	145.06	$145.2^{+1.1}_{-1.1}$
A_{217}^{CIB}	23.7	21^{+10}_{-10}	β_3^3	0.07	$0.0^{+2.0}_{-2.0}$	θ_*	1.04167	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	3.54	—	β_4^3	-0.07	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.47	$1059.5^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.800	> 0.670	β_5^3	-0.18	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.80	$147.9^{+1.1}_{-1.1}$
r_{CIB}	0.458	—	β_1^4	-0.29	$-0.1^{+1.9}_{-1.9}$	k_D	0.13988	$0.1398^{+0.0012}_{-0.0012}$
n^{CIB}	0.299	$0.24^{+0.26}_{-0.30}$	β_2^4	0.09	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16127	$0.16127^{+0.00065}_{-0.00064}$
$c_{100/143}$	1.00058	$1.00061^{+0.00077}_{-0.00078}$	β_3^4	-0.04	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3351	3342^{+110}_{-110}
$c_{217/143}$	0.99629	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.14	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8225	$0.824^{+0.021}_{-0.021}$
$\xi^{tSZ-CIB}$	0.24	—	β_5^4	0.03	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07207	$0.0722^{+0.0017}_{-0.0017}$
A^{kSZ}	0.0	—	Ω_Λ	0.6962	$0.698^{+0.027}_{-0.030}$	$H(0.57)$	0.00031083	$0.0003111^{+0.0000034}_{-0.0000032}$
β_1^1	0.39	$0.5^{+1.6}_{-1.7}$	Ω_m	0.3038	$0.302^{+0.030}_{-0.027}$	$DA(0.57)$	1381.3	1379^{+29}_{-29}
β_2^1	0.03	$0.1^{+1.9}_{-1.9}$	σ_8	0.8270	$0.823^{+0.026}_{-0.025}$			

Best-fit $\chi_{\text{eff}}^2 = 10233.15$; R-1 = 0.01022

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.51 commander_v3.light.clik: -7.88 CAMspec_v6.2TN_2013_01_18.clik: 7797.67 SN - SNLS April_2012: 428.85

1.6 base_planck_CAMspec_lowl_lowLike_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02212	$0.02213^{+0.00056}_{-0.00054}$	β_3^1	0.10	$0.0^{+2.0}_{-1.9}$	z_{re}	11.62	$11.2^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.11856	$0.1188^{+0.0050}_{-0.0049}$	β_4^1	-0.06	$0.0^{+2.0}_{-2.0}$	H_0	67.83	$67.8^{+2.3}_{-2.2}$
θ	1.04144	$1.0414^{+0.0012}_{-0.0012}$	β_5^1	-0.097	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.215	$2.20^{+0.12}_{-0.10}$
τ	0.0962	$0.091^{+0.027}_{-0.025}$	β_1^2	0.40	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14133	$0.1416^{+0.0047}_{-0.0046}$
n_s	0.9630	$0.963^{+0.015}_{-0.014}$	β_2^2	-0.26	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09587	$0.0959^{+0.0011}_{-0.0011}$
$\log[10^{10} A_s]$	3.098	$3.089^{+0.052}_{-0.049}$	β_3^2	-0.07	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247732	$0.24774^{+0.00024}_{-0.00023}$
A_{100}^{PS}	218	148^{+100}_{-100}	β_4^2	0.04	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8277	$1.829^{+0.024}_{-0.024}$
A_{143}^{PS}	40	53^{+30}_{-30}	β_5^2	-0.28	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.800	$13.800^{+0.091}_{-0.093}$
A_{217}^{PS}	112.6	119^{+30}_{-30}	β_1^3	-0.09	$-0.1^{+1.9}_{-1.9}$	z_*	1090.21	$1090.2^{+1.0}_{-0.99}$
A_{143}^{CIB}	16.2	—	β_2^3	-0.03	$-0.1^{+2.0}_{-1.9}$	r_*	144.98	$144.9^{+1.1}_{-1.1}$
A_{217}^{CIB}	27.8	21^{+10}_{-10}	β_3^3	-0.098	$0.0^{+2.0}_{-2.0}$	θ_*	1.04160	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	1.95	—	β_4^3	-0.31	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.32	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.811	> 0.672	β_5^3	-0.13	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.74	$147.7^{+1.1}_{-1.1}$
r_{CIB}	0.492	—	β_1^4	0.24	$-0.1^{+1.9}_{-2.0}$	k_D	0.13989	$0.1400^{+0.0012}_{-0.0012}$
n^{CIB}	0.348	$0.24^{+0.27}_{-0.30}$	β_2^4	0.11	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16134	$0.16132^{+0.00066}_{-0.00065}$
$c_{100/143}$	1.00060	$1.00061^{+0.00078}_{-0.00078}$	β_3^4	-0.47	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3362	3368^{+110}_{-110}
$c_{217/143}$	0.99634	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.02	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8203	$0.819^{+0.022}_{-0.021}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.07	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07189	$0.0718^{+0.0018}_{-0.0017}$
A^{kSZ}	0.5	—	Ω_Λ	0.6929	$0.691^{+0.029}_{-0.031}$	$H(0.57)$	0.00031041	$0.0003104^{+0.0000034}_{-0.0000032}$
β_1^1	0.18	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3071	$0.309^{+0.031}_{-0.029}$	$DA(0.57)$	1384.9	1386^{+30}_{-30}
β_2^1	-0.21	$0.1^{+1.9}_{-1.9}$	σ_8	0.8287	$0.825^{+0.025}_{-0.025}$			

Best-fit $\chi_{\text{eff}}^2 = 9935.53$; R-1 = 0.00889

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.62 commander.v3.light.clik: -7.34 CAMspec.v6.2TN_2013_01_18.clik: 7797.92 SN - Union2.1: 130.33

1.7 base_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.02213^{+0.00064}_{-0.00063}$	β_3^1	-0.04	$0.0^{+2.0}_{-2.0}$	z_{re}	11.7	$11.7^{+5.7}_{-7.3}$
$\Omega_c h^2$	0.1192	$0.1191^{+0.0061}_{-0.0060}$	β_4^1	-0.01	$0.0^{+2.0}_{-2.0}$	H_0	67.61	$67.7^{+2.8}_{-2.8}$
θ	1.04139	$1.0414^{+0.0013}_{-0.0013}$	β_5^1	-0.03	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.221	$2.24^{+0.34}_{-0.31}$
τ	0.097	$0.100^{+0.076}_{-0.076}$	β_1^2	0.099	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1420	$0.1418^{+0.0057}_{-0.0056}$
n_s	0.9629	$0.963^{+0.019}_{-0.019}$	β_2^2	0.01	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09599	$0.0960^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.101	$3.11^{+0.14}_{-0.15}$	β_3^2	-0.09	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247740	$0.24774^{+0.00027}_{-0.00027}$
A_{100}^{PS}	158	146^{+100}_{-100}	β_4^2	0.07	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8307	$1.830^{+0.028}_{-0.028}$
A_{143}^{PS}	44	52^{+30}_{-30}	β_5^2	-0.13	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.803	$13.80^{+0.11}_{-0.11}$
A_{217}^{PS}	122.3	119^{+30}_{-30}	β_1^3	-0.06	$-0.1^{+1.9}_{-1.9}$	z_*	1090.25	$1090.3^{+1.3}_{-1.2}$
A_{143}^{CIB}	9.18	—	β_2^3	-0.02	$-0.1^{+1.9}_{-1.9}$	r_*	144.81	$144.9^{+1.3}_{-1.3}$
A_{217}^{CIB}	23.2	21^{+10}_{-9}	β_3^3	0.03	$0.0^{+2.0}_{-1.9}$	θ_*	1.04155	$1.0416^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	7.26	—	β_4^3	-0.15	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.40	$1059.4^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.808	> 0.673	β_5^3	-0.15	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.56	$147.6^{+1.3}_{-1.2}$
r_{CIB}	0.553	—	β_1^4	0.04	$-0.1^{+1.9}_{-1.9}$	k_D	0.14009	$0.1400^{+0.0012}_{-0.0013}$
n^{CIB}	0.242	$0.24^{+0.26}_{-0.31}$	β_2^4	0.02	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16130	$0.16132^{+0.00071}_{-0.00069}$
$c_{100/143}$	1.00060	$1.00061^{+0.00078}_{-0.00078}$	β_3^4	-0.06	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3377	3374^{+140}_{-130}
$c_{217/143}$	0.99640	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.10	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8176	$0.818^{+0.027}_{-0.026}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.12	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07169	$0.0718^{+0.0022}_{-0.0021}$
A^{kSZ}	0.0	—	Ω_Λ	0.6895	$0.690^{+0.036}_{-0.039}$	$H(0.57)$	0.00031020	$0.0003103^{+0.0000043}_{-0.0000039}$
β_1^1	0.55	$0.5^{+1.6}_{-1.7}$	Ω_m	0.3105	$0.310^{+0.039}_{-0.036}$	$DA(0.57)$	1387.6	1387^{+37}_{-38}
β_2^1	-0.03	$0.1^{+1.9}_{-1.9}$	σ_8	0.832	$0.835^{+0.055}_{-0.054}$			

Best-fit $\chi_{\text{eff}}^2 = 7789.01$; R-1 = 0.01588

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.25 CAMspec.v6.2TN_2013_01_18.clik: 7796.26

1.8 base_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02218	$0.02220^{+0.00065}_{-0.00063}$	β_3^1	-0.04	$0.0^{+2.0}_{-1.9}$	z_{re}	11.48	$12.4^{+4.3}_{-5.2}$
$\Omega_c h^2$	0.1189	$0.1185^{+0.0060}_{-0.0059}$	β_4^1	0.03	$0.0^{+1.9}_{-2.0}$	H_0	67.73	$68.0^{+2.8}_{-2.8}$
θ	1.04138	$1.0415^{+0.0013}_{-0.0013}$	β_5^1	-0.02	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.216	$2.27^{+0.25}_{-0.24}$
τ	0.095	$0.108^{+0.059}_{-0.060}$	β_1^2	-0.11	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1417	$0.1413^{+0.0057}_{-0.0055}$
n_s	0.9650	$0.965^{+0.019}_{-0.019}$	β_2^2	0.15	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09601	$0.0960^{+0.0011}_{-0.0011}$
$\log[10^{10} A_s]$	3.098	$3.12^{+0.11}_{-0.11}$	β_3^2	-0.11	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247758	$0.24777^{+0.00027}_{-0.00027}$
A_{100}^{PS}	190	144^{+100}_{-100}	β_4^2	0.03	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8333	$1.828^{+0.028}_{-0.028}$
A_{143}^{PS}	57.8	52^{+30}_{-30}	β_5^2	-0.25	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.798	$13.79^{+0.11}_{-0.11}$
A_{217}^{PS}	124.0	119^{+30}_{-30}	β_1^3	-0.05	$-0.1^{+1.9}_{-1.8}$	z_*	1090.17	$1090.1^{+1.2}_{-1.2}$
A_{143}^{CIB}	8.28	—	β_2^3	-0.06	$-0.1^{+1.9}_{-1.9}$	r_*	144.85	$145.0^{+1.3}_{-1.3}$
A_{217}^{CIB}	22.1	21^{+10}_{-9}	β_3^3	0.05	$0.0^{+1.9}_{-2.0}$	θ_*	1.04153	$1.0416^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	1.79	—	β_4^3	-0.19	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.47	$1059.5^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.790	> 0.672	β_5^3	-0.09	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.58	$147.7^{+1.2}_{-1.2}$
r_{CIB}	0.317	—	β_1^4	-0.14	$-0.1^{+1.9}_{-1.9}$	k_D	0.14010	$0.1400^{+0.0012}_{-0.0012}$
n^{CIB}	0.321	$0.24^{+0.26}_{-0.31}$	β_2^4	0.03	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16124	$0.16125^{+0.00070}_{-0.00067}$
$c_{100/143}$	1.00061	$1.00061^{+0.00078}_{-0.00078}$	β_3^4	0.01	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3372	3362^{+140}_{-130}
$c_{217/143}$	0.99637	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.19	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8186	$0.821^{+0.026}_{-0.026}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.00	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07177	$0.0720^{+0.0022}_{-0.0021}$
A^{kSZ}	0.0	—	Ω_Λ	0.6910	$0.693^{+0.035}_{-0.039}$	$H(0.57)$	0.00031038	$0.0003107^{+0.000043}_{-0.000040}$
β_1^1	0.43	$0.5^{+1.6}_{-1.7}$	Ω_m	0.3090	$0.307^{+0.039}_{-0.035}$	$DA(0.57)$	1386.0	1383^{+38}_{-37}
β_2^1	0.12	$0.1^{+1.8}_{-1.9}$	σ_8	0.0690	$0.838^{+0.035}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 7800.48$; R-1 = 0.01793

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik.lensing: 11.15 commander.v3.light.clik: -7.68 CAMspec.v6.2TN.2013.01.18.clik: 7797.01

1.9 base_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.02218^{+0.00052}_{-0.00051}$	β_3^1	0.01	$0.0^{+2.0}_{-2.0}$	z_{re}	11.6	$12.1^{+5.0}_{-6.7}$
$\Omega_c h^2$	0.11856	$0.1183^{+0.0036}_{-0.0035}$	β_4^1	-0.11	$0.0^{+1.9}_{-2.0}$	H_0	67.88	$68.0^{+1.6}_{-1.7}$
θ	1.04147	$1.0415^{+0.0011}_{-0.0012}$	β_5^1	-0.07	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.217	$2.26^{+0.30}_{-0.30}$
τ	0.096	$0.105^{+0.066}_{-0.072}$	β_1^2	-0.05	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14136	$0.1412^{+0.0035}_{-0.0034}$
n_s	0.9640	$0.965^{+0.014}_{-0.014}$	β_2^2	-0.12	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09595	$0.0960^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.099	$3.12^{+0.13}_{-0.14}$	β_3^2	-0.01	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247749	$0.24776^{+0.00022}_{-0.00022}$
A_{100}^{PS}	147	145^{+100}_{-100}	β_4^2	0.03	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8279	$1.827^{+0.019}_{-0.019}$
A_{143}^{PS}	46	52^{+30}_{-30}	β_5^2	-0.19	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.796	$13.791^{+0.079}_{-0.078}$
A_{217}^{PS}	124.0	119^{+30}_{-30}	β_1^3	-0.04	$-0.1^{+1.9}_{-1.9}$	z_*	1090.16	$1090.12^{+0.85}_{-0.83}$
A_{143}^{CIB}	8.12	—	β_2^3	-0.02	$-0.1^{+1.9}_{-1.9}$	r_*	144.96	$145.00^{+0.86}_{-0.86}$
A_{217}^{CIB}	22.3	21^{+10}_{-9}	β_3^3	-0.01	$0.0^{+1.9}_{-2.0}$	θ_*	1.04163	$1.0417^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	7.90	—	β_4^3	-0.13	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.40	$1059.5^{+1.1}_{-1.2}$
$r_{PS143/217}$	0.791	> 0.672	β_5^3	-0.03	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.70	$147.73^{+0.91}_{-0.90}$
r_{CIB}	0.585	—	β_1^4	-0.07	$-0.1^{+1.9}_{-2.0}$	k_D	0.13996	$0.1399^{+0.0011}_{-0.0011}$
n^{CIB}	0.199	$0.24^{+0.26}_{-0.31}$	β_2^4	0.03	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16130	$0.16128^{+0.00066}_{-0.00064}$
$c_{100/143}$	1.00062	$1.00061^{+0.00078}_{-0.00078}$	β_3^4	-0.20	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3363	3358^{+83}_{-80}
$c_{217/143}$	0.99650	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.01	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8203	$0.821^{+0.016}_{-0.015}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.098	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07190	$0.0720^{+0.0012}_{-0.0012}$
A^{kSZ}	0.0	—	Ω_Λ	0.6932	$0.694^{+0.021}_{-0.022}$	$H(0.57)$	0.00031053	$0.0003107^{+0.0000027}_{-0.0000026}$
β_1^1	0.41	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3068	$0.306^{+0.022}_{-0.021}$	$DA(0.57)$	1384.2	1383^{+23}_{-22}
β_2^1	0.00	$0.1^{+1.9}_{-1.9}$	σ_8	0.829	$0.836^{+0.053}_{-0.056}$			

Best-fit $\chi_{\text{eff}}^2 = 7790.18$; R-1 = 0.01788

χ_{eff}^2 : BAO - DR7: 0.96 6DF: 0.02 DR9: 0.37 CMB - commander.v3.light.clik: -7.55 CAMspec.v6.2TN_2013_01_18.clik: 7796.38

1.10 base_planck_CAMspec_low1_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02232	$0.02242^{+0.00060}_{-0.00060}$	β_3^1	-0.08	$0.0^{+2.0}_{-2.0}$	z_{re}	11.9	$13.8^{+4.9}_{-6.5}$
$\Omega_c h^2$	0.1166	$0.1157^{+0.0053}_{-0.0049}$	β_4^1	0.06	$0.0^{+1.9}_{-1.9}$	H_0	68.83	$69.3^{+2.5}_{-2.5}$
θ	1.04179	$1.0419^{+0.0013}_{-0.0012}$	β_5^1	-0.02	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.226	$2.35^{+0.33}_{-0.33}$
τ	0.101	$0.127^{+0.070}_{-0.077}$	β_1^2	-0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.13953	$0.1388^{+0.0050}_{-0.0047}$
n_s	0.9691	$0.973^{+0.017}_{-0.018}$	β_2^2	-0.03	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09605	$0.0961^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.103	$3.15^{+0.13}_{-0.15}$	β_3^2	0.01	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247818	$0.24786^{+0.00025}_{-0.00026}$
A_{100}^{PS}	147	138^{+100}_{-100}	β_4^2	-0.03	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8198	$1.816^{+0.025}_{-0.024}$
A_{143}^{PS}	45	50^{+30}_{-30}	β_5^2	0.01	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.761	$13.74^{+0.10}_{-0.11}$
A_{217}^{PS}	122.9	119^{+20}_{-30}	β_1^3	-0.03	$-0.1^{+1.9}_{-1.9}$	z_*	1089.78	$1089.6^{+1.1}_{-1.0}$
A_{143}^{CIB}	7.98	—	β_2^3	-0.02	$-0.1^{+1.9}_{-1.9}$	r_*	145.35	$145.5^{+1.1}_{-1.2}$
A_{217}^{CIB}	22.2	$20.0^{+12}_{-9.2}$	β_3^3	-0.04	$0.0^{+2.0}_{-2.0}$	θ_*	1.04193	$1.0421^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	7.62	—	β_4^3	0.11	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.67	$1059.8^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.787	> 0.673	β_5^3	-0.16	$-0.1^{+2.0}_{-1.9}$	r_{drag}	148.05	$148.2^{+1.1}_{-1.2}$
r_{CIB}	0.575	—	β_1^4	-0.03	$-0.1^{+1.9}_{-2.0}$	k_D	0.13971	$0.1397^{+0.0012}_{-0.0012}$
n^{CIB}	0.201	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.05	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16118	$0.16111^{+0.00068}_{-0.00065}$
$c_{100/143}$	1.00062	$1.00061^{+0.00077}_{-0.00077}$	β_3^4	-0.01	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3319	3301^{+120}_{-110}
$c_{217/143}$	0.99659	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.11	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8291	$0.833^{+0.023}_{-0.023}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.07	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07262	$0.0730^{+0.0019}_{-0.0019}$
A^{kSZ}	0.0	—	Ω_Λ	0.7055	$0.710^{+0.029}_{-0.032}$	$H(0.57)$	0.00031193	$0.0003127^{+0.000040}_{-0.000037}$
β_1^1	0.40	$0.4^{+1.6}_{-1.7}$	Ω_m	0.2945	$0.290^{+0.032}_{-0.029}$	$DA(0.57)$	1371.5	1366^{+33}_{-32}
β_2^1	0.04	$0.1^{+1.9}_{-1.9}$	σ_8	0.825	$0.844^{+0.053}_{-0.056}$			

Best-fit $\chi_{\text{eff}}^2 = 7794.13$; R-1 = 0.03247

χ_{eff}^2 : CMB - commander.v3.light.clik: -8.37 CAMspec.v6.2TN_2013_01_18.clik: 7798.21 Hubble - HST: 4.30

1.11 base_planck_CAMspec_low1_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02221	$0.02230^{+0.00063}_{-0.00061}$	β_3^1	0.06	$0.0^{+2.0}_{-2.0}$	z_{re}	11.7	$13.0^{+5.1}_{-7.0}$
$\Omega_c h^2$	0.1178	$0.1168^{+0.0055}_{-0.0054}$	β_4^1	0.05	$0.0^{+1.9}_{-1.9}$	H_0	68.24	$68.7^{+2.6}_{-2.5}$
θ	1.04156	$1.0417^{+0.0013}_{-0.0013}$	β_5^1	-0.02	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.220	$2.31^{+0.33}_{-0.33}$
τ	0.098	$0.117^{+0.072}_{-0.079}$	β_1^2	-0.01	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1406	$0.1398^{+0.0052}_{-0.0050}$
n_s	0.9663	$0.970^{+0.018}_{-0.018}$	β_2^2	-0.03	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09596	$0.0960^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.14^{+0.14}_{-0.15}$	β_3^2	-0.09	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247773	$0.24781^{+0.00027}_{-0.00026}$
A_{100}^{PS}	155	142^{+100}_{-100}	β_4^2	-0.06	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8254	$1.821^{+0.026}_{-0.026}$
A_{143}^{PS}	48.7	51^{+30}_{-30}	β_5^2	-0.02	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.784	$13.77^{+0.10}_{-0.11}$
A_{217}^{PS}	123.5	119^{+20}_{-30}	β_1^3	-0.13	$-0.1^{+1.9}_{-1.9}$	z_*	1090.02	$1089.8^{+1.1}_{-1.1}$
A_{143}^{CIB}	8.21	—	β_2^3	0.03	$-0.1^{+1.9}_{-1.9}$	r_*	145.12	$145.3^{+1.2}_{-1.2}$
A_{217}^{CIB}	22.4	20^{+10}_{-9}	β_3^3	-0.12	$0.0^{+2.0}_{-2.0}$	θ_*	1.04171	$1.0419^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.46	—	β_4^3	-0.10	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.47	$1059.6^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.787	> 0.672	β_5^3	-0.12	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.85	$148.0^{+1.2}_{-1.2}$
r_{CIB}	0.528	—	β_1^4	-0.05	$-0.1^{+1.9}_{-2.0}$	k_D	0.13985	$0.1398^{+0.0012}_{-0.0013}$
n^{CIB}	0.230	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.12	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16125	$0.16120^{+0.00070}_{-0.00067}$
$c_{100/143}$	1.00059	$1.00061^{+0.00078}_{-0.00078}$	β_3^4	-0.07	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3345	3325^{+120}_{-120}
$c_{217/143}$	0.99657	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.07	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8238	$0.828^{+0.024}_{-0.024}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.00	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07218	$0.0725^{+0.0020}_{-0.0019}$
A^{kSZ}	0.0	—	Ω_Λ	0.6980	$0.703^{+0.032}_{-0.034}$	$H(0.57)$	0.00031103	$0.0003118^{+0.000041}_{-0.000038}$
β_1^1	0.45	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3020	$0.297^{+0.034}_{-0.032}$	$DA(0.57)$	1379.4	1373^{+34}_{-34}
β_2^1	0.15	$0.1^{+1.9}_{-1.9}$	σ_8	0.827	$0.840^{+0.053}_{-0.057}$			

Best-fit $\chi_{\text{eff}}^2 = 8217.91$; R-1 = 0.02366

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.94 CAMspec.v6.2TN_2013_01_18.clik: 7797.15 SN - SNLS April_2012: 428.70

1.12 base_planck_CAMspec_low1_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02217	$0.02219^{+0.00062}_{-0.00061}$	β_3^1	-0.01	$0.0^{+2.0}_{-2.0}$	z_{re}	11.7	$12.2^{+5.5}_{-7.2}$
$\Omega_c h^2$	0.1187	$0.1183^{+0.0056}_{-0.0056}$	β_4^1	0.00	$0.0^{+1.9}_{-2.0}$	H_0	67.84	$68.0^{+2.7}_{-2.6}$
θ	1.04146	$1.0415^{+0.0013}_{-0.0013}$	β_5^1	-0.13	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.223	$2.26^{+0.33}_{-0.32}$
τ	0.098	$0.106^{+0.073}_{-0.077}$	β_1^2	-0.14	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1415	$0.1412^{+0.0052}_{-0.0053}$
n_s	0.9647	$0.965^{+0.018}_{-0.018}$	β_2^2	-0.13	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09599	$0.0960^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.102	$3.12^{+0.14}_{-0.15}$	β_3^2	-0.07	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247754	$0.24776^{+0.00026}_{-0.00027}$
A_{100}^{PS}	134	145^{+100}_{-100}	β_4^2	0.01	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8294	$1.827^{+0.027}_{-0.027}$
A_{143}^{PS}	56.0	52^{+30}_{-30}	β_5^2	-0.19	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.795	$13.79^{+0.11}_{-0.11}$
A_{217}^{PS}	129.7	119^{+30}_{-30}	β_1^3	-0.11	$-0.1^{+1.9}_{-1.9}$	z_*	1090.16	$1090.1^{+1.2}_{-1.2}$
A_{143}^{CIB}	6.08	—	β_2^3	-0.05	$-0.1^{+1.9}_{-1.9}$	r_*	144.92	$145.0^{+1.2}_{-1.2}$
A_{217}^{CIB}	19.6	21^{+10}_{-9}	β_3^3	-0.098	$0.0^{+2.0}_{-2.0}$	θ_*	1.04161	$1.0417^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	8.15	—	β_4^3	-0.13	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.44	$1059.5^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.800	> 0.672	β_5^3	-0.22	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.66	$147.7^{+1.2}_{-1.2}$
r_{CIB}	0.578	—	β_1^4	-0.16	$-0.1^{+1.9}_{-1.9}$	k_D	0.14001	$0.1399^{+0.0012}_{-0.0012}$
n^{CIB}	0.157	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.06	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16127	$0.16128^{+0.00070}_{-0.00068}$
$c_{100/143}$	1.00063	$1.00060^{+0.00078}_{-0.00078}$	β_3^4	-0.21	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3365	3357^{+130}_{-130}
$c_{217/143}$	0.99658	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.01	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8198	$0.822^{+0.025}_{-0.024}$
$\xi^{tSZ-CIB}$	0.27	—	β_5^4	0.03	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07187	$0.0720^{+0.0020}_{-0.0019}$
A^{kSZ}	0.0	—	Ω_Λ	0.6926	$0.694^{+0.033}_{-0.036}$	$H(0.57)$	0.00031051	$0.0003108^{+0.0000041}_{-0.0000038}$
β_1^1	0.54	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3074	$0.306^{+0.036}_{-0.033}$	$DA(0.57)$	1384.6	1382^{+35}_{-35}
β_2^1	0.15	$0.1^{+1.9}_{-1.9}$	σ_8	0.831	$0.836^{+0.054}_{-0.055}$			

Best-fit $\chi_{\text{eff}}^2 = 7919.05$; R-1 = 0.01762

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.61 CAMspec.v6.2TN_2013_01_18.clik: 7796.33 SN - Union2.1: 130.34

1.13 base_planck_CAMspec_lowL_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02207	$0.02205^{+0.00054}_{-0.00053}$	β_4^2	0.19	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9842	$0.988^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.1198	$0.1197^{+0.0053}_{-0.0053}$	β_5^2	-0.32	$-0.4^{+2.0}_{-1.9}$	c_{SPT}^{220}	1.0145	$1.021^{+0.047}_{-0.044}$
θ	1.04128	$1.0413^{+0.0013}_{-0.0012}$	β_1^3	0.77	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6852	$0.686^{+0.031}_{-0.034}$
τ	0.0957	$0.090^{+0.026}_{-0.024}$	β_2^3	-0.51	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3148	$0.314^{+0.034}_{-0.031}$
n_s	0.9588	$0.959^{+0.015}_{-0.014}$	β_3^3	0.00	$0.2^{+2.0}_{-1.9}$	σ_8	0.8328	$0.827^{+0.025}_{-0.025}$
$\log[10^{10} A_s]$	3.1006	$3.089^{+0.050}_{-0.046}$	β_4^3	-0.45	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.63	$11.1^{+2.1}_{-2.1}$
A_{100}^{PS}	180	187^{+80}_{-80}	β_5^3	-0.36	$-0.3^{+1.9}_{-1.9}$	H_0	67.30	$67.3^{+2.4}_{-2.3}$
A_{143}^{PS}	75.8	76^{+20}_{-20}	β_1^4	-0.33	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.221	$2.20^{+0.11}_{-0.10}$
A_{217}^{PS}	64.1	64^{+20}_{-20}	β_2^4	-0.25	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1425	$0.1424^{+0.0051}_{-0.0050}$
A_{143}^{CIB}	3.07	—	β_3^4	0.15	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09592	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	47.8	44^{+9}_{-9}	β_4^4	-0.01	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247711	$0.24770^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	4.75	—	β_5^4	0.26	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8340	$1.833^{+0.025}_{-0.025}$
$r_{PS143/217}$	0.823	> 0.712	$A_{\text{PS,ACT}}^{148}$	10.48	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.816	$13.815^{+0.091}_{-0.094}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.6	$81.4^{+7.8}_{-7.9}$	z_*	1090.39	$1090.4^{+1.0}_{-1.0}$
n^{CIB}	0.518	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.36	$7.56^{+3.1}_{-2.7}$	r_*	144.69	$144.7^{+1.2}_{-1.2}$
$c_{100/143}$	1.00065	$1.00062^{+0.00077}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.05	$10.33^{+0.98}_{-0.94}$	θ_*	1.04144	$1.0415^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99941	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.3	$78.0^{+8.1}_{-7.9}$	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.783	> 0.665	r_{drag}	147.46	$147.5^{+1.2}_{-1.2}$
A^{kSZ}	1.72	—	$r_{\text{PS}}^{95/220}$	0.534	$0.56^{+0.25}_{-0.21}$	k_D	0.14014	$0.1401^{+0.0013}_{-0.0013}$
β_1^1	0.73	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9128	> 0.904	θ_D	0.16135	$0.16139^{+0.00065}_{-0.00062}$
β_2^1	-0.12	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.401	< 0.756	z_{EQ}	3391	3387^{+120}_{-120}
β_3^1	0.16	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.834	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8148	$0.816^{+0.023}_{-0.022}$
β_4^1	-0.02	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9914	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07145	$0.0715^{+0.0018}_{-0.0017}$
β_5^1	0.25	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0027	$1.005^{+0.027}_{-0.025}$	$H(0.57)$	0.00030972	$0.0003098^{+0.000035}_{-0.000032}$
β_1^2	-1.12	$-1.15^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9878	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1391.9	1391^{+31}_{-32}
β_2^2	-0.01	$-0.3^{+1.9}_{-2.0}$	c_{ACTe}^{217}	0.9612	$0.963^{+0.020}_{-0.020}$			
β_3^2	0.09	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9817	$0.984^{+0.040}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.98$; R-1 = 0.01004

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.70 commander.v3.light.clik: -6.20 CAMspec.v6.2TN_2013_01_18.clik: 7817.93 actspt_2013_01.clik: 693.52

1.14 base_planck_CAMspec_lowL_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02211	$0.02206^{+0.00052}_{-0.00052}$	β_4^2	0.33	$0.3^{+2.0}_{-1.9}$	c_{SPT}^{150}	0.9871	$0.988^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.11957	$0.1200^{+0.0043}_{-0.0043}$	β_5^2	-0.57	$-0.4^{+2.0}_{-1.9}$	c_{SPT}^{220}	1.0192	$1.022^{+0.047}_{-0.043}$
θ	1.04134	$1.0413^{+0.0012}_{-0.0012}$	β_1^3	0.93	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6871	$0.684^{+0.027}_{-0.027}$
τ	0.0948	$0.092^{+0.026}_{-0.024}$	β_2^3	-0.66	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3129	$0.316^{+0.027}_{-0.027}$
n_s	0.9601	$0.958^{+0.013}_{-0.012}$	β_3^3	0.04	$0.2^{+2.0}_{-2.0}$	σ_8	0.0688	$0.830^{+0.019}_{-0.019}$
$\log[10^{10} A_s]$	3.0987	$3.093^{+0.046}_{-0.043}$	β_4^3	-0.44	$-0.5^{+2.0}_{-2.0}$	z_{re}	11.52	$11.3^{+2.1}_{-2.1}$
A_{100}^{PS}	178	187^{+80}_{-80}	β_5^3	-0.45	$-0.3^{+1.9}_{-2.0}$	H_0	67.44	$67.3^{+2.0}_{-1.9}$
A_{143}^{PS}	75.3	76^{+20}_{-20}	β_1^4	0.01	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.217	$2.20^{+0.10}_{-0.094}$
A_{217}^{PS}	62.7	64^{+20}_{-20}	β_2^4	-0.17	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14232	$0.1427^{+0.0041}_{-0.0041}$
A_{143}^{CIB}	3.06	—	β_3^4	-0.34	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09598	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	48.1	44^{+9}_{-9}	β_4^4	0.14	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247729	$0.24771^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	4.71	—	β_5^4	0.36	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8341	$1.834^{+0.021}_{-0.021}$
$r_{PS143/217}$	0.824	> 0.712	$A_{\text{PS,ACT}}^{148}$	10.60	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.809	$13.816^{+0.084}_{-0.088}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.4	$81.5^{+7.8}_{-7.9}$	z_*	1090.31	$1090.41^{+0.93}_{-0.92}$
n^{CIB}	0.525	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.35	$7.59^{+3.1}_{-2.7}$	r_*	144.73	$144.67^{+0.99}_{-0.98}$
$c_{100/143}$	1.00065	$1.00062^{+0.00076}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.22	$10.3^{+1.0}_{-0.93}$	θ_*	1.04149	$1.0414^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99938	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.9	$78.0^{+8.0}_{-7.9}$	z_{drag}	1059.40	$1059.3^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.791	> 0.663	r_{drag}	147.48	$147.4^{+1.0}_{-1.0}$
A^{kSZ}	1.24	—	$r_{\text{PS}}^{95/220}$	0.535	$0.56^{+0.25}_{-0.21}$	k_D	0.14015	$0.1402^{+0.0011}_{-0.0011}$
β_1^1	0.77	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9105	> 0.903	θ_D	0.16131	$0.16136^{+0.00065}_{-0.00062}$
β_2^1	-0.36	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.424	< 0.757	z_{EQ}	3385	3394^{+97}_{-98}
β_3^1	0.07	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.851	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8159	$0.814^{+0.019}_{-0.018}$
β_4^1	0.08	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9920	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07155	$0.0714^{+0.0015}_{-0.0014}$
β_5^1	-0.02	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{217}	1.0036	$1.005^{+0.026}_{-0.025}$	$H(0.57)$	0.00030996	$0.0003097^{+0.0000031}_{-0.0000028}$
β_1^2	-0.82	$-1.13^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9883	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1390.0	1392^{+26}_{-27}
β_2^2	-0.48	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9615	$0.963^{+0.020}_{-0.019}$			
β_3^2	-0.04	$0.0^{+2.0}_{-1.9}$	c_{SPT}^{95}	0.9857	$0.984^{+0.040}_{-0.036}$			

Best-fit $\chi_{\text{eff}}^2 = 10529.58$; R-1 = 0.01567

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.58 lensing_likelihood.v3.ref.clik.lensing: 11.15 commander.v3.light.clik: -6.54 CAMspec.v6.2TN_2013_01_18.clik: 7818.34 actspt.2013_01.clik: 691.96

1.15 base_planck_CAMspec_lowL_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022142	$0.02211^{+0.00048}_{-0.00046}$	β_4^2	0.27	$0.3^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9850	$0.989^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.11864	$0.1187^{+0.0034}_{-0.0034}$	β_5^2	-0.37	$-0.4^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0148	$1.022^{+0.047}_{-0.043}$
θ	1.04153	$1.0415^{+0.0011}_{-0.0011}$	β_1^3	0.74	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6928	$0.692^{+0.020}_{-0.021}$
τ	0.0961	$0.092^{+0.026}_{-0.024}$	β_2^3	-0.51	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3072	$0.308^{+0.021}_{-0.020}$
n_s	0.9623	$0.961^{+0.011}_{-0.011}$	β_3^3	0.16	$0.2^{+2.0}_{-2.0}$	σ_8	0.8288	$0.825^{+0.023}_{-0.022}$
$\log[10^{10} A_s]$	3.0983	$3.089^{+0.050}_{-0.047}$	β_4^3	-0.56	$-0.5^{+2.0}_{-2.0}$	z_{re}	11.60	$11.2^{+2.1}_{-2.1}$
A_{100}^{PS}	173	187^{+80}_{-80}	β_5^3	-0.39	$-0.3^{+2.0}_{-2.0}$	H_0	67.86	$67.8^{+1.6}_{-1.5}$
A_{143}^{PS}	74.5	76^{+20}_{-20}	β_1^4	-0.33	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.216	$2.20^{+0.11}_{-0.10}$
A_{217}^{PS}	64.4	64^{+20}_{-20}	β_2^4	-0.39	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14143	$0.1415^{+0.0033}_{-0.0032}$
A_{143}^{CIB}	3.19	—	β_3^4	-0.07	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09597	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	47.4	44^{+9}_{-9}	β_4^4	0.25	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247742	$0.24773^{+0.00021}_{-0.00020}$
A_{143}^{tSZ}	5.07	—	β_5^4	0.22	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8285	$1.828^{+0.018}_{-0.018}$
$r_{PS143/217}$	0.813	> 0.711	$A_{\text{PS,ACT}}^{148}$	10.42	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.796	$13.801^{+0.072}_{-0.074}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.0	$81.5^{+7.9}_{-7.9}$	z_*	1090.19	$1090.24^{+0.76}_{-0.76}$
n^{CIB}	0.511	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	6.82	$7.57^{+3.1}_{-2.7}$	r_*	144.95	$144.96^{+0.84}_{-0.84}$
$c_{100/143}$	1.00061	$1.00063^{+0.00076}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.03	$10.34^{+0.99}_{-0.92}$	θ_*	1.04168	$1.0416^{+0.0011}_{-0.0011}$
$c_{217/143}$	0.99930	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.4	$78.0^{+8.0}_{-7.9}$	z_{drag}	1059.40	$1059.3^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.807	> 0.665	r_{drag}	147.70	$147.72^{+0.90}_{-0.88}$
A^{kSZ}	1.45	—	$r_{\text{PS}}^{95/220}$	0.557	$0.56^{+0.25}_{-0.21}$	k_D	0.13995	$0.1399^{+0.0011}_{-0.0011}$
β_1^1	0.56	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9140	> 0.903	θ_D	0.16132	$0.16136^{+0.00062}_{-0.00061}$
β_2^1	-0.05	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.431	< 0.760	z_{EQ}	3364	3365^{+79}_{-78}
β_3^1	0.01	$0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.857	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8200	$0.820^{+0.015}_{-0.015}$
β_4^1	-0.04	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9925	$0.993^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07189	$0.0719^{+0.0012}_{-0.0011}$
β_5^1	-0.05	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0032	$1.006^{+0.026}_{-0.025}$	$H(0.57)$	0.00031051	$0.0003104^{+0.0000024}_{-0.0000023}$
β_1^2	-1.16	$-1.13^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9891	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1384.5	1386^{+20}_{-21}
β_2^2	-0.22	$-0.3^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9607	$0.963^{+0.020}_{-0.019}$			
β_3^2	-0.16	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9847	$0.985^{+0.040}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10521.30$; R-1 = 0.01749

χ_{eff}^2 : BAO - DR9: 0.36 DR7: 0.99 6DF: 0.01 CMB - lowlike.v22.light.clik: 2014.62 commander.v3.light.clik: -7.12 CAMspec.v6.2TN_2013.01.18.clik: 7818.15 actspt_2013.01.clik: 694.18

1.16 base_planck_CAMspec_lowL_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02226^{+0.00055}_{-0.00052}$	β_4^2	0.44	$0.3^{+2.0}_{-1.9}$	c_{SPT}^{150}	0.9870	$0.990^{+0.020}_{-0.018}$
$\Omega_c h^2$	0.11706	$0.1170^{+0.0048}_{-0.0050}$	β_5^2	-0.21	$-0.4^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0161	$1.023^{+0.048}_{-0.043}$
θ	1.04171	$1.0417^{+0.0012}_{-0.0012}$	β_1^3	0.84	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.7024	$0.703^{+0.029}_{-0.029}$
τ	0.1001	$0.095^{+0.028}_{-0.025}$	β_2^3	-0.56	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.2976	$0.297^{+0.029}_{-0.029}$
n_s	0.9652	$0.965^{+0.014}_{-0.014}$	β_3^3	0.26	$0.2^{+2.0}_{-2.0}$	σ_8	0.8256	$0.820^{+0.025}_{-0.025}$
$\log[10^{10} A_s]$	3.103	$3.091^{+0.053}_{-0.049}$	β_4^3	-0.27	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.86	$11.4^{+2.2}_{-2.2}$
A_{100}^{PS}	177	186^{+80}_{-80}	β_5^3	-0.36	$-0.3^{+1.9}_{-1.9}$	H_0	68.58	$68.6^{+2.5}_{-2.2}$
A_{143}^{PS}	75.3	74^{+20}_{-20}	β_1^4	-0.14	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.226	$2.20^{+0.12}_{-0.11}$
A_{217}^{PS}	62.8	63^{+20}_{-20}	β_2^4	-0.26	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.13997	$0.1399^{+0.0046}_{-0.0047}$
A_{143}^{CIB}	2.66	—	β_3^4	-0.22	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09599	$0.0960^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	46.7	44^{+9}_{-9}	β_4^4	-0.01	$0.2^{+2.0}_{-1.9}$	Y_{He}	0.247792	$0.24779^{+0.00023}_{-0.00022}$
A_{143}^{tSZ}	4.07	—	β_5^4	0.58	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8218	$1.821^{+0.023}_{-0.022}$
$r_{PS143/217}$	0.816	> 0.703	$A_{\text{PS,ACT}}^{148}$	10.46	$10.7^{+1.3}_{-1.1}$	Age/Gyr	13.771	$13.770^{+0.089}_{-0.093}$
r_{CIB}	0.9997	—	$A_{\text{PS,ACT}}^{218}$	80.8	$81.7^{+8.0}_{-8.0}$	z_*	1089.90	$1089.90^{+0.94}_{-1.0}$
n^{CIB}	0.516	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.52	$7.62^{+3.1}_{-2.7}$	r_*	145.27	$145.3^{+1.1}_{-1.1}$
$c_{100/143}$	1.00067	$1.00063^{+0.00075}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.13	$10.38^{+0.98}_{-0.94}$	θ_*	1.04186	$1.0419^{+0.0011}_{-0.0012}$
$c_{217/143}$	0.99937	$0.9994^{+0.0020}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.0	$78.3^{+8.0}_{-8.1}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.753	> 0.666	r_{drag}	147.99	$148.0^{+1.1}_{-1.1}$
A^{kSZ}	2.97	—	$r_{\text{PS}}^{95/220}$	0.500	$0.56^{+0.25}_{-0.21}$	k_D	0.13974	$0.1397^{+0.0012}_{-0.0012}$
β_1^1	0.48	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9165	> 0.903	θ_D	0.16124	$0.16126^{+0.00064}_{-0.00063}$
β_2^1	-0.18	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.419	< 0.760	z_{EQ}	3329	3326^{+110}_{-110}
β_3^1	0.05	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.827	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8269	$0.828^{+0.023}_{-0.021}$
β_4^1	0.05	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{148}	0.9926	$0.993^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07244	$0.0725^{+0.0019}_{-0.0017}$
β_5^1	-0.14	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0038	$1.006^{+0.026}_{-0.026}$	$H(0.57)$	0.00031153	$0.0003116^{+0.000037}_{-0.000032}$
β_1^2	-0.93	$-1.16^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9891	$0.990^{+0.014}_{-0.014}$	$DA(0.57)$	1374.9	1374^{+29}_{-32}
β_2^2	-0.47	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9623	$0.964^{+0.020}_{-0.019}$			
β_3^2	0.13	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9862	$0.987^{+0.042}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10525.53$; R-1 = 0.03929

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.89 commander.v3.light.clik: -7.54 CAMspec.v6.2TN_2013_01_18.clik: 7820.14 actspt_2013_01.clik: 693.27 Hubble - HST: 4.73

1.17 base_planck_CAMspec_lowL_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02217	$0.02217^{+0.00055}_{-0.00052}$	β_4^2	0.42	$0.3^{+2.0}_{-1.9}$	c_{SPT}^{150}	0.9867	$0.989^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.11784	$0.1179^{+0.0049}_{-0.0049}$	β_5^2	-0.32	$-0.4^{+1.9}_{-2.0}$	c_{SPT}^{220}	1.0162	$1.023^{+0.047}_{-0.043}$
θ	1.04159	$1.0416^{+0.0012}_{-0.0012}$	β_1^3	0.93	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6975	$0.697^{+0.029}_{-0.030}$
τ	0.0961	$0.093^{+0.027}_{-0.025}$	β_2^3	-0.66	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3025	$0.303^{+0.030}_{-0.029}$
n_s	0.9637	$0.963^{+0.015}_{-0.014}$	β_3^3	0.05	$0.2^{+2.0}_{-2.0}$	σ_8	0.8256	$0.823^{+0.025}_{-0.025}$
$\log[10^{10} A_s]$	3.0965	$3.090^{+0.051}_{-0.048}$	β_4^3	-0.36	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.57	$11.3^{+2.1}_{-2.1}$
A_{100}^{PS}	179	187^{+80}_{-80}	β_5^3	-0.36	$-0.3^{+2.0}_{-2.0}$	H_0	68.19	$68.2^{+2.3}_{-2.2}$
A_{143}^{PS}	75.6	75^{+20}_{-20}	β_1^4	0.17	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.212	$2.20^{+0.11}_{-0.10}$
A_{217}^{PS}	64.6	63^{+20}_{-20}	β_2^4	-0.39	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14066	$0.1407^{+0.0047}_{-0.0047}$
A_{143}^{CIB}	2.91	—	β_3^4	-0.28	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09591	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	46.6	44^{+9}_{-9}	β_4^4	0.18	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247755	$0.24775^{+0.00024}_{-0.00022}$
A_{143}^{tSZ}	4.49	—	β_5^4	0.42	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8252	$1.825^{+0.023}_{-0.023}$
$r_{PS143/217}$	0.807	> 0.707	$A_{\text{PS,ACT}}^{148}$	10.47	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.788	$13.789^{+0.088}_{-0.095}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.3	$81.6^{+7.9}_{-8.0}$	z_*	1090.08	$1090.10^{+0.97}_{-0.98}$
n^{CIB}	0.508	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.46	$7.59^{+3.1}_{-2.7}$	r_*	145.13	$145.1^{+1.1}_{-1.1}$
$c_{100/143}$	1.00065	$1.00063^{+0.00076}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.11	$10.36^{+0.99}_{-0.93}$	θ_*	1.04174	$1.0417^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99944	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.1	$78.2^{+7.9}_{-8.0}$	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.003	—	$r_{\text{PS}}^{95/150}$	0.767	> 0.665	r_{drag}	147.88	$147.9^{+1.2}_{-1.1}$
A^{kSZ}	2.31	—	$r_{\text{PS}}^{95/220}$	0.520	$0.56^{+0.25}_{-0.21}$	k_D	0.13979	$0.1398^{+0.0012}_{-0.0012}$
β_1^1	0.69	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9145	> 0.903	θ_D	0.16132	$0.16132^{+0.00064}_{-0.00062}$
β_2^1	-0.33	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.418	< 0.760	z_{EQ}	3346	3348^{+110}_{-110}
β_3^1	-0.17	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.850	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8235	$0.823^{+0.022}_{-0.021}$
β_4^1	0.09	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9923	$0.993^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07215	$0.0721^{+0.0018}_{-0.0017}$
β_5^1	-0.18	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0043	$1.006^{+0.026}_{-0.025}$	$H(0.57)$	0.00031092	$0.0003109^{+0.0000035}_{-0.0000031}$
β_1^2	-0.70	$-1.14^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9892	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1380.2	1381^{+29}_{-30}
β_2^2	-0.46	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9618	$0.964^{+0.020}_{-0.019}$			
β_3^2	-0.22	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9864	$0.985^{+0.041}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10949.15$; R-1 = 0.02386

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.55 commander.v3.light.clik: -7.45 CAMspec.v6.2TN_2013_01_18.clik: 7819.24 actspt_2013_01.clik: 693.99 SN - SNLS April.2012: 428.75

1.18 base_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02212	$0.02209^{+0.00053}_{-0.00053}$	β_4^2	0.21	$0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9853	$0.988^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.1190	$0.1191^{+0.0049}_{-0.0051}$	β_5^2	-0.41	$-0.4^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0140	$1.022^{+0.047}_{-0.043}$
θ	1.04146	$1.0414^{+0.0012}_{-0.0012}$	β_1^3	0.88	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6904	$0.689^{+0.030}_{-0.031}$
τ	0.0961	$0.091^{+0.026}_{-0.024}$	β_2^3	-0.73	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3096	$0.311^{+0.031}_{-0.030}$
n_s	0.9609	$0.960^{+0.014}_{-0.013}$	β_3^3	0.13	$0.2^{+2.0}_{-2.0}$	σ_8	0.8303	$0.826^{+0.025}_{-0.024}$
$\log[10^{10} A_s]$	3.0995	$3.089^{+0.050}_{-0.046}$	β_4^3	-0.36	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.62	$11.2^{+2.1}_{-2.1}$
A_{100}^{PS}	177	187^{+80}_{-80}	β_5^3	-0.48	$-0.3^{+1.9}_{-2.0}$	H_0	67.67	$67.6^{+2.3}_{-2.2}$
A_{143}^{PS}	75.8	76^{+20}_{-20}	β_1^4	-0.097	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.10}$
A_{217}^{PS}	65.0	64^{+20}_{-20}	β_2^4	-0.18	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14179	$0.1418^{+0.0047}_{-0.0048}$
A_{143}^{CIB}	3.02	—	β_3^4	-0.10	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09595	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	47.1	44^{+9}_{-9}	β_4^4	-0.06	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247731	$0.24772^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	4.80	—	β_5^4	0.30	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8306	$1.830^{+0.024}_{-0.023}$
$r_{PS143/217}$	0.814	> 0.711	$A_{\text{PS,ACT}}^{148}$	10.45	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.802	$13.807^{+0.089}_{-0.092}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.5	$81.5^{+7.9}_{-7.9}$	z_*	1090.26	$1090.30^{+0.98}_{-0.98}$
n^{CIB}	0.514	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.15	$7.57^{+3.1}_{-2.7}$	r_*	144.87	$144.9^{+1.2}_{-1.1}$
$c_{100/143}$	1.00060	$1.00063^{+0.00076}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.04	$10.33^{+0.99}_{-0.92}$	θ_*	1.04161	$1.0416^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99931	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.6	$78.0^{+8.0}_{-7.9}$	z_{drag}	1059.36	$1059.3^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.785	> 0.664	r_{drag}	147.62	$147.6^{+1.2}_{-1.1}$
A^{kSZ}	1.85	—	$r_{\text{PS}}^{95/220}$	0.539	$0.56^{+0.25}_{-0.21}$	k_D	0.14001	$0.1400^{+0.0012}_{-0.0012}$
β_1^1	0.74	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9148	> 0.903	θ_D	0.16134	$0.16137^{+0.00065}_{-0.00062}$
β_2^1	-0.19	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.429	< 0.760	z_{EQ}	3373	3374^{+110}_{-110}
β_3^1	0.13	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.848	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8183	$0.818^{+0.023}_{-0.021}$
β_4^1	-0.14	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9918	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07175	$0.0717^{+0.0018}_{-0.0017}$
β_5^1	0.06	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{217}	1.0015	$1.006^{+0.026}_{-0.025}$	$H(0.57)$	0.00031025	$0.0003102^{+0.0000034}_{-0.0000031}$
β_1^2	-0.89	$-1.14^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9880	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1386.9	1388^{+30}_{-30}
β_2^2	-0.29	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9596	$0.963^{+0.020}_{-0.019}$			
β_3^2	0.14	$0.0^{+2.0}_{-1.9}$	c_{SPT}^{95}	0.9835	$0.985^{+0.040}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10650.21$; R-1 = 0.01529

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.66 commander.v3.light.clik: -6.73 CAMspec.v6.2TN_2013_01_18.clik: 7817.79 actspt_2013_01.clik: 694.02 SN - Union2.1: 130.40

1.19 base_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02254	$0.0226^{+0.0010}_{-0.00097}$	z_{re}	10.77	$10.7^{+2.3}_{-2.2}$	θ_*	1.04002	$1.0403^{+0.0044}_{-0.0044}$
$\Omega_c h^2$	0.1152	$0.1137^{+0.0089}_{-0.0089}$	H_0	68.87	$69.7^{+4.4}_{-4.2}$	z_{drag}	1060.09	$1060.2^{+2.2}_{-2.2}$
θ	1.03990	$1.0402^{+0.0044}_{-0.0045}$	$10^9 A_s$	2.218	$2.20^{+0.14}_{-0.13}$	r_{drag}	148.16	$148.5^{+2.4}_{-2.3}$
τ	0.0888	$0.089^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1384	$0.1370^{+0.0086}_{-0.0087}$	k_D	0.13976	$0.1395^{+0.0027}_{-0.0027}$
n_s	0.9723	$0.974^{+0.026}_{-0.025}$	$\Omega_m h^3$	0.09533	$0.0954^{+0.0035}_{-0.0035}$	θ_D	0.16063	$0.1606^{+0.0010}_{-0.00097}$
$\log[10^{10} A_s]$	3.099	$3.092^{+0.062}_{-0.059}$	Y_{He}	0.247913	$0.24796^{+0.00042}_{-0.00041}$	z_{EQ}	3292	3258^{+210}_{-210}
A_{SZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.857	$1.844^{+0.060}_{-0.060}$	θ_{EQ}	0.8332	$0.841^{+0.043}_{-0.040}$
Ω_Λ	0.708	$0.717^{+0.047}_{-0.053}$	Age/Gyr	13.788	$13.76^{+0.22}_{-0.22}$	$r_s/D_v(0.57)$	0.07262	$0.0733^{+0.0034}_{-0.0032}$
Ω_m	0.292	$0.283^{+0.053}_{-0.047}$	z_*	1089.39	$1089.1^{+1.6}_{-1.6}$	$H(0.57)$	0.0003114	$0.0003128^{+0.0000078}_{-0.0000070}$
σ_8	0.8169	$0.808^{+0.045}_{-0.046}$	r_*	145.53	$145.9^{+2.3}_{-2.2}$	$DA(0.57)$	1372	1362^{+56}_{-57}

Best-fit $\chi_{\text{eff}}^2 = 7557.87$; R-1 = 0.01082
 χ_{eff}^2 : CMB - WMAP: 7557.87

1.20 base_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02247	$0.02249^{+0.00087}_{-0.00087}$	z_{re}	10.84	$10.5^{+2.2}_{-2.2}$	θ_*	1.03955	$1.0397^{+0.0041}_{-0.0041}$
$\Omega_c h^2$	0.11604	$0.1160^{+0.0049}_{-0.0048}$	H_0	68.35	$68.5^{+1.9}_{-1.8}$	z_{drag}	1059.97	$1060.0^{+2.1}_{-2.2}$
θ	1.03942	$1.0396^{+0.0041}_{-0.0041}$	$10^9 A_s$	2.223	$2.21^{+0.13}_{-0.12}$	r_{drag}	148.03	$148.0^{+1.8}_{-1.8}$
τ	0.0893	$0.086^{+0.026}_{-0.025}$	$\Omega_m h^2$	0.1392	$0.1391^{+0.0051}_{-0.0051}$	k_D	0.13985	$0.1399^{+0.0024}_{-0.0024}$
n_s	0.9699	$0.969^{+0.020}_{-0.021}$	$\Omega_m h^3$	0.09512	$0.0952^{+0.0036}_{-0.0035}$	θ_D	0.16063	$0.1606^{+0.0010}_{-0.00097}$
$\log[10^{10} A_s]$	3.101	$3.093^{+0.059}_{-0.056}$	Y_{He}	0.247882	$0.24789^{+0.00036}_{-0.00037}$	z_{EQ}	3310	3309^{+120}_{-120}
A_{SZ}	0.31	—	$10^9 A_s e^{-2\tau}$	1.8593	$1.856^{+0.044}_{-0.045}$	θ_{EQ}	0.8293	$0.830^{+0.021}_{-0.020}$
Ω_Λ	0.7022	$0.703^{+0.022}_{-0.023}$	Age/Gyr	13.814	$13.81^{+0.18}_{-0.18}$	$r_s/D_v(0.57)$	0.07223	$0.0723^{+0.0014}_{-0.0014}$
Ω_m	0.2978	$0.297^{+0.023}_{-0.022}$	z_*	1089.55	$1089.5^{+1.1}_{-1.0}$	$H(0.57)$	0.00031056	$0.0003108^{+0.0000044}_{-0.0000044}$
σ_8	0.8198	$0.816^{+0.036}_{-0.036}$	r_*	145.38	$145.4^{+1.6}_{-1.6}$	$DA(0.57)$	1379.3	1378^{+27}_{-27}

Best-fit $\chi_{\text{eff}}^2 = 7559.42$; R-1 = 0.01246
 χ_{eff}^2 : BAO - 6DF: 0.05 DR7: 0.40 DR9: 0.79 CMB - WMAP: 7558.18

1.21 base_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02292	$0.02293^{+0.00092}_{-0.00091}$	z_{re}	11.06	$10.8^{+2.3}_{-2.2}$	θ_*	1.04150	$1.0414^{+0.0040}_{-0.0041}$
$\Omega_c h^2$	0.1108	$0.1103^{+0.0073}_{-0.0072}$	H_0	71.38	$71.6^{+3.3}_{-3.2}$	z_{drag}	1060.62	$1060.6^{+2.1}_{-2.1}$
θ	1.04141	$1.0413^{+0.0041}_{-0.0041}$	$10^9 A_s$	2.218	$2.20^{+0.15}_{-0.13}$	r_{drag}	148.96	$149.1^{+2.3}_{-2.2}$
τ	0.0950	$0.093^{+0.030}_{-0.027}$	$\Omega_m h^2$	0.1343	$0.1339^{+0.0073}_{-0.0071}$	k_D	0.13919	$0.1391^{+0.0026}_{-0.0026}$
n_s	0.9827	$0.982^{+0.023}_{-0.022}$	$\Omega_m h^3$	0.09589	$0.0958^{+0.0035}_{-0.0034}$	θ_D	0.16052	$0.1605^{+0.0010}_{-0.00095}$
$\log[10^{10} A_s]$	3.099	$3.091^{+0.066}_{-0.061}$	Y_{He}	0.248071	$0.24807^{+0.00038}_{-0.00038}$	z_{EQ}	3195	3183^{+170}_{-170}
A_{sz}	0.45	—	$10^9 A_s e^{-2\tau}$	1.834	$1.827^{+0.054}_{-0.054}$	θ_{EQ}	0.8546	$0.857^{+0.035}_{-0.034}$
Ω_Λ	0.7363	$0.738^{+0.033}_{-0.038}$	Age/Gyr	13.682	$13.68^{+0.19}_{-0.19}$	$r_s/D_v(0.57)$	0.07454	$0.0747^{+0.0027}_{-0.0026}$
Ω_m	0.2637	$0.262^{+0.038}_{-0.033}$	z_*	1088.54	$1088.5^{+1.3}_{-1.3}$	$H(0.57)$	0.0003156	$0.0003159^{+0.0000063}_{-0.0000060}$
σ_8	0.8024	$0.797^{+0.043}_{-0.043}$	r_*	146.44	$146.6^{+2.1}_{-2.0}$	$DA(0.57)$	1339.0	1337^{+43}_{-42}

Best-fit $\chi^2_{\text{eff}} = 7559.82$; R-1 = 0.01304

χ^2_{eff} : CMB - WMAP: 7558.73 Hubble - HST: 1.08

1.22 base_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02275	$0.0228^{+0.0010}_{-0.00096}$	z_{re}	10.95	$10.8^{+2.3}_{-2.2}$	θ_*	1.04083	$1.0409^{+0.0042}_{-0.0044}$
$\Omega_c h^2$	0.1118	$0.1111^{+0.0078}_{-0.0077}$	H_0	70.61	$71.0^{+3.8}_{-3.6}$	z_{drag}	1060.31	$1060.3^{+2.2}_{-2.2}$
θ	1.04073	$1.0408^{+0.0042}_{-0.0044}$	$10^9 A_s$	2.214	$2.20^{+0.14}_{-0.13}$	r_{drag}	148.86	$149.0^{+2.2}_{-2.2}$
τ	0.0927	$0.091^{+0.029}_{-0.027}$	$\Omega_m h^2$	0.1352	$0.1345^{+0.0076}_{-0.0076}$	k_D	0.13918	$0.1390^{+0.0026}_{-0.0026}$
n_s	0.9793	$0.979^{+0.025}_{-0.024}$	$\Omega_m h^3$	0.09547	$0.0954^{+0.0035}_{-0.0035}$	θ_D	0.16060	$0.1606^{+0.0010}_{-0.00098}$
$\log[10^{10} A_s]$	3.098	$3.090^{+0.064}_{-0.060}$	Y_{He}	0.248003	$0.24802^{+0.00041}_{-0.00041}$	z_{EQ}	3215	3199^{+180}_{-180}
A_{sz}	0.00	—	$10^9 A_s e^{-2\tau}$	1.839	$1.830^{+0.055}_{-0.055}$	θ_{EQ}	0.8494	$0.853^{+0.038}_{-0.036}$
Ω_Λ	0.7289	$0.732^{+0.039}_{-0.043}$	Age/Gyr	13.724	$13.71^{+0.21}_{-0.21}$	$r_s/D_v(0.57)$	0.07399	$0.0743^{+0.0031}_{-0.0028}$
Ω_m	0.2711	$0.268^{+0.043}_{-0.039}$	z_*	1088.83	$1088.7^{+1.5}_{-1.5}$	$H(0.57)$	0.0003141	$0.0003147^{+0.0000072}_{-0.0000067}$
σ_8	0.8050	$0.798^{+0.043}_{-0.044}$	r_*	146.29	$146.5^{+2.1}_{-2.1}$	$DA(0.57)$	1349.3	1345^{+49}_{-50}

Best-fit $\chi^2_{\text{eff}} = 7984.80$; R-1 = 0.00993

χ^2_{eff} : CMB - WMAP: 7558.22 SN - SNLS April_2012: 426.57

1.23 base_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02268	$0.02266^{+0.00099}_{-0.00096}$	z_{re}	10.92	$10.7^{+2.2}_{-2.2}$	θ_*	1.04056	$1.0404^{+0.0043}_{-0.0044}$
$\Omega_c h^2$	0.1138	$0.1133^{+0.0079}_{-0.0078}$	H_0	69.69	$69.8^{+3.9}_{-3.6}$	z_{drag}	1060.28	$1060.2^{+2.2}_{-2.2}$
θ	1.04045	$1.0403^{+0.0043}_{-0.0044}$	$10^9 A_s$	2.218	$2.20^{+0.14}_{-0.13}$	r_{drag}	148.39	$148.6^{+2.2}_{-2.2}$
τ	0.0915	$0.089^{+0.028}_{-0.026}$	$\Omega_m h^2$	0.1372	$0.1366^{+0.0077}_{-0.0077}$	k_D	0.13963	$0.1394^{+0.0026}_{-0.0025}$
n_s	0.9746	$0.974^{+0.025}_{-0.025}$	$\Omega_m h^3$	0.09558	$0.0954^{+0.0035}_{-0.0035}$	θ_D	0.16058	$0.1606^{+0.0010}_{-0.00097}$
$\log[10^{10} A_s]$	3.099	$3.092^{+0.062}_{-0.059}$	Y_{He}	0.247971	$0.24796^{+0.00041}_{-0.00041}$	z_{EQ}	3262	3250^{+190}_{-180}
A_{sz}	0.79	—	$10^9 A_s e^{-2\tau}$	1.847	$1.842^{+0.055}_{-0.056}$	θ_{EQ}	0.8398	$0.843^{+0.038}_{-0.035}$
Ω_Λ	0.7175	$0.719^{+0.042}_{-0.046}$	Age/Gyr	13.751	$13.75^{+0.21}_{-0.21}$	$r_s/D_v(0.57)$	0.07323	$0.0734^{+0.0031}_{-0.0028}$
Ω_m	0.2825	$0.281^{+0.046}_{-0.042}$	z_*	1089.10	$1089.1^{+1.5}_{-1.5}$	$H(0.57)$	0.0003128	$0.0003130^{+0.0000072}_{-0.0000065}$
σ_8	0.8123	$0.807^{+0.043}_{-0.043}$	r_*	145.80	$146.0^{+2.1}_{-2.1}$	$DA(0.57)$	1361	1360^{+50}_{-51}

Best-fit $\chi^2_{\text{eff}} = 7687.91$; R-1 = 0.00835

χ^2_{eff} : CMB - WMAP: 7558.00 SN - Union2.1: 129.90

2 Alens

2.1 base_Alens_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02264	$0.02255^{+0.00074}_{-0.00072}$	β_2^1	0.07	$0.1^{+1.9}_{-1.9}$	σ_8	0.8206	$0.811^{+0.029}_{-0.029}$
$\Omega_c h^2$	0.1155	$0.1158^{+0.0062}_{-0.0060}$	β_3^1	0.00	$0.0^{+1.9}_{-1.9}$	z_{re}	11.55	$10.6^{+2.2}_{-2.2}$
θ	1.04204	$1.0419^{+0.0014}_{-0.0014}$	β_4^1	-0.13	$-0.1^{+2.0}_{-2.0}$	H_0	69.57	$69.4^{+3.0}_{-2.9}$
τ	0.0984	$0.088^{+0.027}_{-0.025}$	β_5^1	-0.08	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.218	$2.17^{+0.11}_{-0.10}$
A_L	1.258	$1.25^{+0.26}_{-0.23}$	β_1^2	0.04	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1388	$0.1390^{+0.0057}_{-0.0055}$
n_s	0.9763	$0.972^{+0.018}_{-0.018}$	β_2^2	0.19	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09656	$0.0964^{+0.0013}_{-0.0013}$
$\log[10^{10} A_s]$	3.099	$3.076^{+0.051}_{-0.048}$	β_3^2	-0.04	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247954	$0.24792^{+0.00031}_{-0.00031}$
A_{100}^{PS}	160	131^{+100}_{-100}	β_4^2	0.10	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8218	$1.819^{+0.027}_{-0.026}$
A_{143}^{PS}	56.3	48^{+30}_{-20}	β_5^2	0.01	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.716	$13.73^{+0.12}_{-0.13}$
A_{217}^{PS}	129.7	119^{+20}_{-30}	β_1^3	-0.08	$-0.1^{+1.9}_{-1.9}$	z_*	1089.29	$1089.4^{+1.3}_{-1.3}$
A_{143}^{CIB}	4.58	—	β_2^3	-0.04	$-0.1^{+1.9}_{-1.9}$	r_*	145.39	$145.4^{+1.3}_{-1.3}$
A_{217}^{CIB}	17.1	$19.0^{+12}_{-8.6}$	β_3^3	-0.06	$-0.1^{+2.0}_{-2.0}$	θ_*	1.04214	$1.0421^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	2.03	—	β_4^3	-0.19	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.31	$1060.1^{+1.4}_{-1.4}$
$r_{PS143/217}$	0.815	> 0.674	β_5^3	-0.16	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.98	$148.0^{+1.2}_{-1.2}$
r_{CIB}	0.000	—	β_1^4	-0.02	$-0.1^{+1.9}_{-1.9}$	k_D	0.14003	$0.1399^{+0.0012}_{-0.0012}$
n^{CIB}	0.321	$0.23^{+0.26}_{-0.30}$	β_2^4	-0.03	$0.0^{+2.0}_{-2.0}$	θ_D	0.16082	$0.16092^{+0.00079}_{-0.00074}$
$c_{100/143}$	1.00060	$1.00062^{+0.00079}_{-0.00078}$	β_3^4	0.16	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3301	3306^{+140}_{-130}
$c_{217/143}$	0.99610	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.04	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8335	$0.832^{+0.027}_{-0.027}$
$\xi^{tSZ-CIB}$	0.07	—	β_5^4	0.11	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07307	$0.0730^{+0.0023}_{-0.0022}$
A^{kSZ}	0.0	—	Ω_Λ	0.7133	$0.710^{+0.034}_{-0.038}$	$H(0.57)$	0.00031337	$0.0003130^{+0.000049}_{-0.000045}$
β_1^1	0.52	$0.4^{+1.6}_{-1.6}$	Ω_m	0.2867	$0.290^{+0.038}_{-0.034}$	$DA(0.57)$	1361.1	1364^{+40}_{-39}

Best-fit $\chi_{\text{eff}}^2 = 9798.63$; R-1 = 0.01856

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.43 commander_v3.light.clik: -9.56 CAMspec_v6.2TN_2013_01_18.clik: 7793.76

2.2 base_Alens_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02243	$0.02241^{+0.00066}_{-0.00065}$	β_2^1	-0.07	$0.1^{+1.9}_{-1.8}$	σ_8	0.0692	$0.811^{+0.027}_{-0.029}$
$\Omega_c h^2$	0.1164	$0.1161^{+0.0059}_{-0.0060}$	β_3^1	-0.07	$0.0^{+1.8}_{-1.9}$	z_{re}	11.69	$10.7^{+2.2}_{-2.3}$
θ	1.04178	$1.0418^{+0.0014}_{-0.0013}$	β_4^1	-0.18	$-0.1^{+2.0}_{-2.0}$	H_0	68.98	$69.1^{+3.0}_{-2.8}$
τ	0.0990	$0.087^{+0.027}_{-0.025}$	β_5^1	-0.04	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.219	$2.17^{+0.11}_{-0.11}$
A_L	1.072	$1.12^{+0.15}_{-0.14}$	β_1^2	-0.05	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.1395	$0.1391^{+0.0055}_{-0.0056}$
n_s	0.9704	$0.970^{+0.018}_{-0.017}$	β_2^2	0.08	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09620	$0.0961^{+0.0011}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.075^{+0.051}_{-0.050}$	β_3^2	-0.13	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247863	$0.24786^{+0.00028}_{-0.00028}$
A_{100}^{PS}	158	140^{+100}_{-100}	β_4^2	0.24	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8204	$1.818^{+0.026}_{-0.027}$
A_{143}^{PS}	51.0	49^{+30}_{-30}	β_5^2	-0.13	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.750	$13.75^{+0.12}_{-0.12}$
A_{217}^{PS}	118.8	118^{+30}_{-30}	β_1^3	-0.04	$-0.1^{+2.0}_{-1.9}$	z_*	1089.63	$1089.6^{+1.3}_{-1.2}$
A_{143}^{CIB}	10.7	—	β_2^3	-0.20	$-0.1^{+2.0}_{-1.9}$	r_*	145.32	$145.4^{+1.3}_{-1.3}$
A_{217}^{CIB}	21.9	20^{+10}_{-9}	β_3^3	-0.01	$0.0^{+2.0}_{-2.0}$	θ_*	1.04190	$1.0419^{+0.0014}_{-0.0013}$
A_{143}^{tSZ}	4.96	—	β_4^3	-0.29	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.89	$1059.8^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.816	> 0.665	β_5^3	-0.11	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.98	$148.1^{+1.2}_{-1.2}$
r_{CIB}	0.485	—	β_1^4	-0.05	$-0.1^{+1.9}_{-1.9}$	k_D	0.13987	$0.1397^{+0.0012}_{-0.0012}$
n^{CIB}	0.269	$0.24^{+0.27}_{-0.31}$	β_2^4	-0.06	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16104	$0.16109^{+0.00073}_{-0.00068}$
$c_{100/143}$	1.00065	$1.00062^{+0.00077}_{-0.00079}$	β_3^4	-0.05	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3317	3309^{+130}_{-130}
$c_{217/143}$	0.99605	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.13	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8297	$0.831^{+0.028}_{-0.026}$
$\xi^{tSZ-CIB}$	0.61	—	β_5^4	0.12	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07269	$0.0728^{+0.0023}_{-0.0021}$
A^{kSZ}	1.36	—	Ω_Λ	0.7069	$0.708^{+0.035}_{-0.036}$	$H(0.57)$	0.00031225	$0.0003124^{+0.0000047}_{-0.0000042}$
β_1^1	0.18	$0.4^{+1.6}_{-1.6}$	Ω_m	0.2931	$0.292^{+0.036}_{-0.035}$	$DA(0.57)$	1369.3	1368^{+37}_{-39}

Best-fit $\chi_{\text{eff}}^2 = 9813.76$; R-1 = 0.04115

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.62 lensing_likelihood.v3.ref.clik.lensing: 11.02 commander.v3.light.clik: -8.65 CAMspec.v6.2TN_2013_01_18.clik
7796.77

2.3 base_Alens_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02246	$0.02241^{+0.00056}_{-0.00056}$	β_2^1	0.24	$0.1^{+1.9}_{-1.9}$	σ_8	0.8256	$0.816^{+0.024}_{-0.023}$
$\Omega_c h^2$	0.11732	$0.1174^{+0.0035}_{-0.0035}$	β_3^1	0.11	$0.0^{+1.9}_{-2.0}$	z_{re}	11.48	$10.6^{+2.2}_{-2.2}$
θ	1.04172	$1.0417^{+0.0011}_{-0.0011}$	β_4^1	-0.11	$0.0^{+1.9}_{-2.0}$	H_0	68.65	$68.6^{+1.7}_{-1.7}$
τ	0.0963	$0.086^{+0.026}_{-0.024}$	β_5^1	-0.05	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.216	$2.17^{+0.11}_{-0.10}$
A_L	1.201	$1.21^{+0.22}_{-0.21}$	β_1^2	-0.14	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14043	$0.1404^{+0.0034}_{-0.0033}$
n_s	0.9709	$0.968^{+0.012}_{-0.012}$	β_2^2	-0.02	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09641	$0.0963^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.0982	$3.076^{+0.050}_{-0.048}$	β_3^2	0.02	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247879	$0.24786^{+0.00024}_{-0.00024}$
A_{100}^{PS}	137	134^{+100}_{-100}	β_4^2	0.01	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8274	$1.825^{+0.018}_{-0.018}$
A_{143}^{PS}	58.5	50^{+20}_{-30}	β_5^2	-0.10	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.752	$13.758^{+0.084}_{-0.084}$
A_{217}^{PS}	130.9	120^{+20}_{-30}	β_1^3	-0.23	$-0.1^{+1.9}_{-1.9}$	z_*	1089.67	$1089.74^{+0.89}_{-0.87}$
A_{143}^{CIB}	4.37	—	β_2^3	-0.09	$-0.1^{+2.0}_{-1.9}$	r_*	145.05	$145.08^{+0.84}_{-0.85}$
A_{217}^{CIB}	17.1	$19.4^{+12}_{-9.0}$	β_3^3	-0.03	$0.0^{+1.9}_{-2.0}$	θ_*	1.04184	$1.0418^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	4.78	—	β_4^3	-0.15	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.05	$1059.9^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.796	> 0.677	β_5^3	0.05	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.69	$147.75^{+0.88}_{-0.89}$
r_{CIB}	0.303	—	β_1^4	-0.27	$-0.1^{+1.9}_{-1.9}$	k_D	0.14020	$0.1401^{+0.0011}_{-0.0011}$
n^{CIB}	0.216	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.04	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16095	$0.16102^{+0.00071}_{-0.00067}$
$c_{100/143}$	1.00065	$1.00062^{+0.00077}_{-0.00079}$	β_3^4	-0.10	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3340	3340^{+80}_{-79}
$c_{217/143}$	0.99638	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	-0.03	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8254	$0.825^{+0.016}_{-0.015}$
$\xi^{tSZ-CIB}$	0.33	—	β_5^4	0.03	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07239	$0.0724^{+0.0013}_{-0.0012}$
A^{kSZ}	0.0	—	Ω_Λ	0.7021	$0.701^{+0.021}_{-0.022}$	$H(0.57)$	0.00031195	$0.0003118^{+0.000029}_{-0.000027}$
β_1^1	0.38	$0.4^{+1.6}_{-1.6}$	Ω_m	0.2979	$0.299^{+0.022}_{-0.021}$	$DA(0.57)$	1373.3	1374^{+23}_{-23}

Best-fit $\chi_{\text{eff}}^2 = 9800.42$; R-1 = 0.01420

χ_{eff}^2 : BAO - DR7: 0.26 6DF: 0.09 DR9: 1.05 CMB - lowlike.v22.light.clik: 2014.45 commander.v3.light.clik: -8.78 CAMspec.v6.2TN.2013_01_18.clik: 7793.36

2.4 base_Alens_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02287	$0.02280^{+0.00067}_{-0.00066}$	β_2^1	0.35	$0.1^{+1.9}_{-1.8}$	σ_8	0.8133	$0.803^{+0.028}_{-0.027}$
$\Omega_c h^2$	0.1133	$0.1133^{+0.0052}_{-0.0051}$	β_3^1	-0.02	$0.0^{+1.9}_{-1.9}$	z_{re}	11.66	$10.7^{+2.2}_{-2.1}$
θ	1.04240	$1.0423^{+0.0013}_{-0.0013}$	β_4^1	-0.02	$0.0^{+1.9}_{-1.9}$	H_0	70.72	$70.6^{+2.6}_{-2.6}$
τ	0.1014	$0.090^{+0.027}_{-0.024}$	β_5^1	0.08	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.17^{+0.12}_{-0.10}$
A_L	1.303	$1.31^{+0.25}_{-0.24}$	β_1^2	-0.07	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.13678	$0.1368^{+0.0048}_{-0.0047}$
n_s	0.9818	$0.979^{+0.016}_{-0.016}$	β_2^2	0.16	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09672	$0.0966^{+0.0013}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.075^{+0.053}_{-0.048}$	β_3^2	-0.04	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.248050	$0.24802^{+0.00028}_{-0.00028}$
A_{100}^{PS}	128	127^{+100}_{-100}	β_4^2	0.00	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8122	$1.809^{+0.024}_{-0.023}$
A_{143}^{PS}	54.5	46^{+20}_{-20}	β_5^2	-0.05	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.672	$13.68^{+0.11}_{-0.11}$
A_{217}^{PS}	129.5	119^{+20}_{-30}	β_1^3	-0.10	$-0.1^{+1.9}_{-1.9}$	z_*	1088.82	$1088.9^{+1.1}_{-1.1}$
A_{143}^{CIB}	2.99	—	β_2^3	-0.24	$-0.1^{+1.9}_{-2.0}$	r_*	145.81	$145.8^{+1.1}_{-1.1}$
A_{217}^{CIB}	15.9	$18.3^{+12}_{-8.3}$	β_3^3	-0.10	$0.0^{+1.9}_{-2.0}$	θ_*	1.04248	$1.0424^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.73	—	β_4^3	-0.03	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.66	$1060.5^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.783	> 0.670	β_5^3	-0.05	$-0.1^{+1.9}_{-2.0}$	r_{drag}	148.34	$148.4^{+1.1}_{-1.1}$
r_{CIB}	0.204	—	β_1^4	-0.12	$-0.1^{+1.9}_{-1.9}$	k_D	0.13982	$0.1397^{+0.0012}_{-0.0012}$
n^{CIB}	0.208	$0.22^{+0.26}_{-0.31}$	β_2^4	-0.04	$0.0^{+1.9}_{-2.0}$	θ_D	0.16065	$0.16074^{+0.00071}_{-0.00069}$
$c_{100/143}$	1.00062	$1.00062^{+0.00077}_{-0.00078}$	β_3^4	0.05	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3253	3253^{+120}_{-110}
$c_{217/143}$	0.99644	$0.9963^{+0.0025}_{-0.0025}$	β_4^4	-0.01	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8437	$0.844^{+0.024}_{-0.023}$
$\xi^{tSZ-CIB}$	0.21	—	β_5^4	-0.13	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07393	$0.0739^{+0.0020}_{-0.0019}$
A^{kSZ}	0.0	—	Ω_Λ	0.7265	$0.725^{+0.028}_{-0.031}$	$H(0.57)$	0.00031518	$0.0003150^{+0.000043}_{-0.000041}$
β_1^1	0.42	$0.4^{+1.6}_{-1.6}$	Ω_m	0.2735	$0.275^{+0.031}_{-0.028}$	$DA(0.57)$	1346.1	1347^{+34}_{-33}

Best-fit $\chi_{\text{eff}}^2 = 9800.91$; R-1 = 0.01681

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.46 commander_v3.light.clik: -10.20 CAMspec_v6.2TN_2013.01.18.clik: 7794.95 Hubble - HST: 1.71

2.5 base_Alens_planck_CAMspec_lowl_lowLike_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02270	$0.02271^{+0.00071}_{-0.00069}$	β_2^1	0.15	$0.1^{+1.9}_{-1.8}$	σ_8	0.8165	$0.805^{+0.028}_{-0.028}$
$\Omega_c h^2$	0.1147	$0.1141^{+0.0055}_{-0.0055}$	β_3^1	-0.02	$0.0^{+1.9}_{-1.9}$	z_{re}	11.54	$10.7^{+2.2}_{-2.1}$
θ	1.04215	$1.0422^{+0.0013}_{-0.0013}$	β_4^1	0.15	$0.0^{+1.9}_{-2.0}$	H_0	69.97	$70.2^{+2.8}_{-2.7}$
τ	0.0988	$0.089^{+0.027}_{-0.024}$	β_5^1	-0.17	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.213	$2.17^{+0.12}_{-0.10}$
A_L	1.249	$1.29^{+0.26}_{-0.24}$	β_1^2	0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1380	$0.1375^{+0.0051}_{-0.0051}$
n_s	0.9771	$0.977^{+0.017}_{-0.017}$	β_2^2	-0.27	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09657	$0.0965^{+0.0013}_{-0.0012}$
$\log[10^{10} A_s]$	3.097	$3.075^{+0.052}_{-0.048}$	β_3^2	-0.03	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247980	$0.24798^{+0.00029}_{-0.00029}$
A_{100}^{PS}	134	129^{+100}_{-100}	β_4^2	0.23	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8162	$1.812^{+0.025}_{-0.024}$
A_{143}^{PS}	48.8	47^{+30}_{-20}	β_5^2	-0.13	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.703	$13.70^{+0.12}_{-0.12}$
A_{217}^{PS}	126.6	119^{+20}_{-30}	β_1^3	-0.08	$-0.1^{+1.9}_{-1.9}$	z_*	1089.14	$1089.1^{+1.2}_{-1.2}$
A_{143}^{CIB}	4.91	—	β_2^3	-0.11	$-0.1^{+2.0}_{-2.0}$	r_*	145.56	$145.7^{+1.2}_{-1.2}$
A_{217}^{CIB}	18.2	$18.6^{+12}_{-8.5}$	β_3^3	-0.15	$0.0^{+1.9}_{-2.0}$	θ_*	1.04225	$1.0423^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	5.58	—	β_4^3	-0.18	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.39	$1060.4^{+1.4}_{-1.3}$
$r_{PS143/217}$	0.801	> 0.672	β_5^3	0.03	$-0.1^{+1.9}_{-2.0}$	r_{drag}	148.14	$148.3^{+1.2}_{-1.1}$
r_{CIB}	0.332	—	β_1^4	-0.01	$-0.1^{+1.9}_{-1.9}$	k_D	0.13990	$0.1398^{+0.0012}_{-0.0012}$
n^{CIB}	0.235	$0.23^{+0.26}_{-0.31}$	β_2^4	-0.04	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16078	$0.16081^{+0.00074}_{-0.00072}$
$c_{100/143}$	1.00066	$1.00062^{+0.00077}_{-0.00078}$	β_3^4	-0.37	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3282	3270^{+120}_{-120}
$c_{217/143}$	0.99631	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	-0.03	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8373	$0.840^{+0.026}_{-0.025}$
$\xi^{tSZ-CIB}$	0.08	—	β_5^4	0.21	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07338	$0.0736^{+0.0021}_{-0.0020}$
A^{kSZ}	0.0	—	Ω_Λ	0.7181	$0.721^{+0.031}_{-0.033}$	$H(0.57)$	0.00031395	$0.0003143^{+0.000047}_{-0.000043}$
β_1^1	0.41	$0.4^{+1.6}_{-1.6}$	Ω_m	0.2819	$0.279^{+0.033}_{-0.031}$	$DA(0.57)$	1355.9	1353^{+36}_{-36}

Best-fit $\chi_{\text{eff}}^2 = 10226.35$; R-1 = 0.01507

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.39 commander_v3.light.clik: -9.71 CAMspec_v6.2TN_2013_01_18.clik: 7794.46 SN - SNLS
 April_2012: 427.21

2.6 base_Alens_planck_CAMspec_lowl_lowLike_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02265	$0.02258^{+0.00071}_{-0.00069}$	β_2^1	0.15	$0.1^{+1.9}_{-1.9}$	σ_8	0.8197	$0.810^{+0.028}_{-0.028}$
$\Omega_c h^2$	0.1154	$0.1155^{+0.0057}_{-0.0057}$	β_3^1	0.08	$0.0^{+1.9}_{-2.0}$	z_{re}	11.52	$10.6^{+2.2}_{-2.1}$
θ	1.04201	$1.0420^{+0.0013}_{-0.0014}$	β_4^1	0.11	$0.0^{+1.9}_{-2.0}$	H_0	69.61	$69.5^{+2.8}_{-2.8}$
τ	0.0981	$0.088^{+0.027}_{-0.024}$	β_5^1	0.00	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.215	$2.17^{+0.11}_{-0.10}$
A_L	1.254	$1.25^{+0.25}_{-0.23}$	β_1^2	-0.02	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1387	$0.1387^{+0.0053}_{-0.0052}$
n_s	0.9766	$0.973^{+0.017}_{-0.017}$	β_2^2	-0.07	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09655	$0.0964^{+0.0013}_{-0.0012}$
$\log[10^{10} A_s]$	3.0979	$3.076^{+0.052}_{-0.048}$	β_3^2	-0.05	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247959	$0.24793^{+0.00030}_{-0.00029}$
A_{100}^{PS}	144	131^{+100}_{-100}	β_4^2	0.02	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8207	$1.818^{+0.025}_{-0.025}$
A_{143}^{PS}	58.7	48^{+30}_{-20}	β_5^2	-0.09	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.716	$13.72^{+0.12}_{-0.12}$
A_{217}^{PS}	129.7	119^{+20}_{-30}	β_1^3	-0.11	$-0.1^{+1.9}_{-1.9}$	z_*	1089.27	$1089.4^{+1.3}_{-1.2}$
A_{143}^{CIB}	3.59	—	β_2^3	-0.01	$-0.1^{+2.0}_{-1.9}$	r_*	145.40	$145.4^{+1.2}_{-1.2}$
A_{217}^{CIB}	16.6	$18.9^{+12}_{-8.7}$	β_3^3	-0.01	$0.0^{+1.9}_{-2.0}$	θ_*	1.04211	$1.0421^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	3.35	—	β_4^3	-0.07	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.31	$1060.2^{+1.4}_{-1.3}$
$r_{PS143/217}$	0.783	> 0.674	β_5^3	-0.01	$-0.1^{+1.9}_{-2.0}$	r_{drag}	148.00	$148.1^{+1.2}_{-1.2}$
r_{CIB}	0.153	—	β_1^4	-0.08	$-0.1^{+1.9}_{-1.9}$	k_D	0.14002	$0.1399^{+0.0012}_{-0.0012}$
n^{CIB}	0.242	$0.23^{+0.26}_{-0.31}$	β_2^4	-0.03	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16080	$0.16090^{+0.00076}_{-0.00072}$
$c_{100/143}$	1.00064	$1.00062^{+0.00077}_{-0.00078}$	β_3^4	-0.12	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3299	3300^{+130}_{-120}
$c_{217/143}$	0.99641	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.00	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8339	$0.834^{+0.026}_{-0.025}$
$\xi^{tSZ-CIB}$	0.22	—	β_5^4	0.05	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07310	$0.0731^{+0.0022}_{-0.0020}$
A^{kSZ}	0.0	—	Ω_Λ	0.7137	$0.712^{+0.032}_{-0.035}$	$H(0.57)$	0.00031341	$0.0003132^{+0.000047}_{-0.000042}$
β_1^1	0.42	$0.4^{+1.6}_{-1.6}$	Ω_m	0.2863	$0.288^{+0.035}_{-0.032}$	$DA(0.57)$	1360.6	1362^{+37}_{-37}

Best-fit $\chi_{\text{eff}}^2 = 9928.41$; R-1 = 0.01377

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.38 commander.v3.light.clik: -9.64 CAMspec.v6.2TN_2013_01_18.clik: 7793.72 SN - Union2.1: 129.94

2.7 base_Alens_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02260	$0.02251^{+0.00073}_{-0.00071}$	β_2^1	0.19	$0.1^{+1.9}_{-1.9}$	σ_8	0.822	$0.789^{+0.064}_{-0.044}$
$\Omega_c h^2$	0.1158	$0.1163^{+0.0062}_{-0.0059}$	β_3^1	-0.11	$0.0^{+2.0}_{-1.9}$	z_{re}	11.6	$7.58^{+7.2}_{-5.2}$
θ	1.04195	$1.0419^{+0.0014}_{-0.0014}$	β_4^1	0.04	$0.0^{+2.0}_{-2.0}$	H_0	69.39	$69.1^{+3.0}_{-3.0}$
τ	0.099	$0.058^{+0.083}_{-0.048}$	β_5^1	0.04	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.05^{+0.35}_{-0.18}$
A_L	1.235	$1.31^{+0.31}_{-0.28}$	β_1^2	-0.06	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1391	$0.1395^{+0.0057}_{-0.0054}$
n_s	0.9753	$0.970^{+0.018}_{-0.018}$	β_2^2	-0.08	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09650	$0.0964^{+0.0013}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.02^{+0.16}_{-0.092}$	β_3^2	-0.07	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247936	$0.24790^{+0.00031}_{-0.00031}$
A_{100}^{PS}	141	135^{+100}_{-100}	β_4^2	0.06	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8221	$1.822^{+0.027}_{-0.027}$
A_{143}^{PS}	56.7	49^{+30}_{-30}	β_5^2	-0.02	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.725	$13.74^{+0.12}_{-0.13}$
A_{217}^{PS}	130.0	119^{+20}_{-30}	β_1^3	-0.07	$-0.1^{+1.9}_{-1.9}$	z_*	1089.37	$1089.5^{+1.4}_{-1.3}$
A_{143}^{CIB}	3.28	—	β_2^3	-0.02	$-0.1^{+1.9}_{-1.9}$	r_*	145.34	$145.3^{+1.2}_{-1.3}$
A_{217}^{CIB}	16.9	$19.3^{+12}_{-8.7}$	β_3^3	0.02	$0.0^{+2.0}_{-2.0}$	θ_*	1.04205	$1.0420^{+0.0014}_{-0.0013}$
A_{143}^{tSZ}	3.88	—	β_4^3	-0.04	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.24	$1060.1^{+1.4}_{-1.4}$
$r_{PS143/217}$	0.797	> 0.675	β_5^3	-0.16	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.94	$147.9^{+1.2}_{-1.2}$
r_{CIB}	0.107	—	β_1^4	-0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.14004	$0.1400^{+0.0012}_{-0.0012}$
n^{CIB}	0.265	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.10	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16085	$0.16095^{+0.00077}_{-0.00073}$
$c_{100/143}$	1.00063	$1.00062^{+0.00077}_{-0.00077}$	β_3^4	-0.099	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3307	3318^{+140}_{-130}
$c_{217/143}$	0.99627	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.00	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8321	$0.830^{+0.027}_{-0.027}$
$\xi^{tSZ-CIB}$	0.05	—	β_5^4	0.08	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07294	$0.0728^{+0.0023}_{-0.0022}$
A^{kSZ}	0.0	—	Ω_Λ	0.7112	$0.707^{+0.035}_{-0.039}$	$H(0.57)$	0.00031306	$0.0003127^{+0.000049}_{-0.000045}$
β_1^1	0.48	$0.4^{+1.6}_{-1.6}$	Ω_m	0.2888	$0.293^{+0.039}_{-0.035}$	$DA(0.57)$	1363.5	1367^{+40}_{-39}

Best-fit $\chi_{\text{eff}}^2 = 7784.08$; R-1 = 0.01604

χ_{eff}^2 : CMB - commander.v3.light.clik: -9.42 CAMspec.v6.2TN_2013_01_18.clik: 7793.50

2.8 base_Alens_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02251	$0.02239^{+0.00065}_{-0.00065}$	β_2^1	0.15	$0.1^{+1.9}_{-1.9}$	σ_8	0.069	$0.789^{+0.065}_{-0.044}$
$\Omega_c h^2$	0.1157	$0.1164^{+0.0061}_{-0.0058}$	β_3^1	0.03	$0.0^{+2.0}_{-1.9}$	z_{re}	11.5	$7.56^{+7.4}_{-5.1}$
θ	1.04187	$1.0418^{+0.0014}_{-0.0014}$	β_4^1	-0.03	$0.0^{+2.0}_{-1.9}$	H_0	69.35	$69.0^{+2.9}_{-2.9}$
τ	0.097	$0.057^{+0.084}_{-0.047}$	β_5^1	-0.03	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.209	$2.05^{+0.36}_{-0.18}$
A_L	1.093	$1.18^{+0.20}_{-0.20}$	β_1^2	-0.17	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1388	$0.1394^{+0.0057}_{-0.0053}$
n_s	0.9738	$0.969^{+0.018}_{-0.018}$	β_2^2	0.05	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09627	$0.0961^{+0.0011}_{-0.0011}$
$\log[10^{10} A_s]$	3.095	$3.02^{+0.16}_{-0.092}$	β_3^2	-0.03	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247898	$0.24785^{+0.00027}_{-0.00028}$
A_{100}^{PS}	144	143^{+100}_{-100}	β_4^2	0.06	$0.0^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8191	$1.820^{+0.028}_{-0.027}$
A_{143}^{PS}	57.7	49^{+30}_{-30}	β_5^2	-0.15	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.735	$13.75^{+0.12}_{-0.12}$
A_{217}^{PS}	127.5	118^{+30}_{-30}	β_1^3	-0.11	$-0.1^{+1.9}_{-1.9}$	z_*	1089.47	$1089.7^{+1.3}_{-1.2}$
A_{143}^{CIB}	5.72	—	β_2^3	-0.09	$-0.1^{+1.9}_{-1.9}$	r_*	145.45	$145.4^{+1.2}_{-1.3}$
A_{217}^{CIB}	18.6	21^{+10}_{-9}	β_3^3	-0.02	$0.0^{+2.0}_{-1.9}$	θ_*	1.04199	$1.0419^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	5.69	—	β_4^3	-0.16	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1060.01	$1059.8^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.796	> 0.664	β_5^3	-0.05	$-0.1^{+2.0}_{-2.0}$	r_{drag}	148.09	$148.0^{+1.2}_{-1.2}$
r_{CIB}	0.444	—	β_1^4	-0.21	$-0.1^{+2.0}_{-1.9}$	k_D	0.13982	$0.1398^{+0.0012}_{-0.0011}$
n^{CIB}	0.201	$0.24^{+0.27}_{-0.30}$	β_2^4	-0.02	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16097	$0.16110^{+0.00069}_{-0.00066}$
$c_{100/143}$	1.00061	$1.00062^{+0.00078}_{-0.00077}$	β_3^4	-0.04	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3301	3316^{+140}_{-130}
$c_{217/143}$	0.99646	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.05	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8329	$0.830^{+0.026}_{-0.027}$
$\xi^{tSZ-CIB}$	0.43	—	β_5^4	0.04	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07296	$0.0727^{+0.0022}_{-0.0022}$
A^{kSZ}	0.0	—	Ω_Λ	0.7114	$0.706^{+0.034}_{-0.038}$	$H(0.57)$	0.00031283	$0.0003122^{+0.000044}_{-0.000043}$
β_1^1	0.46	$0.4^{+1.6}_{-1.7}$	Ω_m	0.2886	$0.294^{+0.038}_{-0.034}$	$DA(0.57)$	1364.4	1370^{+39}_{-37}

Best-fit $\chi_{\text{eff}}^2 = 7798.07$; R-1 = 0.06165

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik.lensing: 11.16 commander.v3.light.clik: -9.30 CAMspec.v6.2TN_2013_01_18.clik: 7796.21

2.9 base_Alens_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02248	$0.02240^{+0.00056}_{-0.00055}$	β_2^1	0.15	$0.1^{+1.9}_{-1.9}$	σ_8	0.8258	$0.791^{+0.062}_{-0.037}$
$\Omega_c h^2$	0.11736	$0.1175^{+0.0036}_{-0.0036}$	β_3^1	-0.04	$0.0^{+2.0}_{-1.9}$	z_{re}	11.5	$7.27^{+6.9}_{-4.9}$
θ	1.04172	$1.0417^{+0.0012}_{-0.0011}$	β_4^1	-0.09	$0.0^{+2.0}_{-2.0}$	H_0	68.65	$68.5^{+1.7}_{-1.7}$
τ	0.097	$0.054^{+0.076}_{-0.044}$	β_5^1	-0.04	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.217	$2.04^{+0.33}_{-0.17}$
A_L	1.194	$1.28^{+0.26}_{-0.25}$	β_1^2	-0.23	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14048	$0.1406^{+0.0034}_{-0.0033}$
n_s	0.9707	$0.967^{+0.013}_{-0.013}$	β_2^2	-0.08	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09645	$0.0963^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.099	$3.01^{+0.15}_{-0.085}$	β_3^2	-0.04	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247885	$0.24785^{+0.00024}_{-0.00024}$
A_{100}^{PS}	90	137^{+100}_{-100}	β_4^2	0.13	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8266	$1.827^{+0.018}_{-0.019}$
A_{143}^{PS}	48.5	50^{+30}_{-30}	β_5^2	-0.09	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.751	$13.760^{+0.083}_{-0.084}$
A_{217}^{PS}	132.7	119^{+20}_{-30}	β_1^3	-0.01	$-0.1^{+1.9}_{-1.9}$	z_*	1089.66	$1089.77^{+0.89}_{-0.87}$
A_{143}^{CIB}	1.81	—	β_2^3	-0.09	$-0.1^{+1.9}_{-1.9}$	r_*	145.03	$145.04^{+0.84}_{-0.83}$
A_{217}^{CIB}	16.1	$19.6^{+12}_{-8.9}$	β_3^3	-0.01	$0.0^{+2.0}_{-2.0}$	θ_*	1.04184	$1.0418^{+0.0012}_{-0.0011}$
A_{143}^{tSZ}	9.72	—	β_4^3	-0.12	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.09	$1059.9^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.792	> 0.679	β_5^3	-0.12	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.66	$147.71^{+0.88}_{-0.87}$
r_{CIB}	0.549	—	β_1^4	-0.17	$-0.1^{+1.9}_{-2.0}$	k_D	0.14024	$0.1401^{+0.0011}_{-0.0011}$
n^{CIB}	0.125	$0.24^{+0.26}_{-0.30}$	β_2^4	-0.11	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16093	$0.16103^{+0.00069}_{-0.00067}$
$c_{100/143}$	1.00065	$1.00062^{+0.00077}_{-0.00077}$	β_3^4	-0.07	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3341	3343^{+80}_{-80}
$c_{217/143}$	0.99649	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.03	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8253	$0.825^{+0.016}_{-0.015}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.17	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07238	$0.0723^{+0.0013}_{-0.0012}$
A^{kSZ}	0.0	—	Ω_Λ	0.7020	$0.700^{+0.021}_{-0.022}$	$H(0.57)$	0.00031197	$0.0003117^{+0.000029}_{-0.000027}$
β_1^1	0.63	$0.5^{+1.6}_{-1.6}$	Ω_m	0.2980	$0.300^{+0.022}_{-0.021}$	$DA(0.57)$	1373.2	1375^{+23}_{-23}

Best-fit $\chi_{\text{eff}}^2 = 7785.90$; R-1 = 0.02049

χ_{eff}^2 : BAO - DR7: 0.26 6DF: 0.09 DR9: 1.03 CMB - commander.v3.light.clik: -8.76 CAMspec.v6.2TN_2013_01_18.clik: 7793.28

2.10 base_Alens_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02288	$0.02277^{+0.00066}_{-0.00065}$	β_2^1	0.09	$0.1^{+1.9}_{-1.9}$	σ_8	0.811	$0.784^{+0.068}_{-0.047}$
$\Omega_c h^2$	0.1130	$0.1137^{+0.0052}_{-0.0051}$	β_3^1	-0.10	$0.0^{+2.0}_{-1.9}$	z_{re}	11.5	$8.11^{+7.3}_{-5.6}$
θ	1.04243	$1.0423^{+0.0013}_{-0.0013}$	β_4^1	0.01	$0.0^{+2.0}_{-1.9}$	H_0	70.83	$70.5^{+2.6}_{-2.5}$
τ	0.100	$0.064^{+0.088}_{-0.054}$	β_5^1	0.08	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.212	$2.07^{+0.38}_{-0.21}$
A_L	1.312	$1.37^{+0.31}_{-0.29}$	β_1^2	0.06	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.13654	$0.1371^{+0.0048}_{-0.0047}$
n_s	0.9828	$0.978^{+0.016}_{-0.016}$	β_2^2	0.02	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09671	$0.0966^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.097	$3.03^{+0.17}_{-0.10}$	β_3^2	-0.17	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.248054	$0.24801^{+0.00027}_{-0.00028}$
A_{100}^{PS}	142	129^{+100}_{-90}	β_4^2	0.08	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8114	$1.811^{+0.024}_{-0.023}$
A_{143}^{PS}	56.2	47^{+30}_{-20}	β_5^2	-0.05	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.669	$13.69^{+0.11}_{-0.11}$
A_{217}^{PS}	128.8	118^{+20}_{-30}	β_1^3	-0.07	$-0.1^{+1.8}_{-1.8}$	z_*	1088.79	$1089.0^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.29	—	β_2^3	-0.05	$-0.1^{+2.0}_{-1.9}$	r_*	145.86	$145.8^{+1.1}_{-1.1}$
A_{217}^{CIB}	16.5	$18.6^{+12}_{-8.4}$	β_3^3	-0.07	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04252	$1.0424^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	3.02	—	β_4^3	-0.16	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.66	$1060.5^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.792	> 0.670	β_5^3	-0.11	$-0.1^{+1.9}_{-1.9}$	r_{drag}	148.39	$148.3^{+1.1}_{-1.1}$
r_{CIB}	0.032	—	β_1^4	0.03	$-0.1^{+2.0}_{-1.9}$	k_D	0.13976	$0.1398^{+0.0012}_{-0.0011}$
n^{CIB}	0.274	$0.23^{+0.27}_{-0.31}$	β_2^4	-0.097	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16065	$0.16075^{+0.00071}_{-0.00068}$
$c_{100/143}$	1.00064	$1.00063^{+0.00077}_{-0.00077}$	β_3^4	-0.05	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3247	3261^{+120}_{-110}
$c_{217/143}$	0.99634	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.07	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8449	$0.842^{+0.024}_{-0.023}$
$\xi^{tSZ-CIB}$	0.10	—	β_5^4	0.05	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07402	$0.0738^{+0.0020}_{-0.0019}$
A^{kSZ}	0.0	—	Ω_Λ	0.7278	$0.723^{+0.028}_{-0.031}$	$H(0.57)$	0.00031535	$0.0003147^{+0.000045}_{-0.000041}$
β_1^1	0.36	$0.4^{+1.6}_{-1.7}$	Ω_m	0.2722	$0.277^{+0.031}_{-0.028}$	$DA(0.57)$	1344.7	1350^{+34}_{-34}

Best-fit $\chi_{\text{eff}}^2 = 7786.27$; R-1 = 0.02803

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.37 CAMspec.v6.2TN.2013.01.18.clik: 7795.06 Hubble - HST: 1.59

2.11 base_Alens_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02279	$0.02267^{+0.00069}_{-0.00068}$	β_2^1	0.25	$0.1^{+1.9}_{-1.9}$	σ_8	0.814	$0.786^{+0.066}_{-0.045}$
$\Omega_c h^2$	0.1138	$0.1146^{+0.0055}_{-0.0054}$	β_3^1	-0.02	$0.0^{+2.0}_{-1.9}$	z_{re}	11.5	$7.92^{+7.3}_{-5.5}$
θ	1.04223	$1.0421^{+0.0014}_{-0.0013}$	β_4^1	0.04	$0.0^{+2.0}_{-1.9}$	H_0	70.38	$70.0^{+2.8}_{-2.7}$
τ	0.099	$0.062^{+0.087}_{-0.052}$	β_5^1	0.01	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.212	$2.06^{+0.37}_{-0.20}$
A_L	1.290	$1.34^{+0.31}_{-0.29}$	β_1^2	-0.25	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1373	$0.1379^{+0.0051}_{-0.0050}$
n_s	0.9804	$0.975^{+0.017}_{-0.017}$	β_2^2	-0.02	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09662	$0.0965^{+0.0013}_{-0.0012}$
$\log[10^{10} A_s]$	3.097	$3.02^{+0.17}_{-0.10}$	β_3^2	-0.21	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.248018	$0.24797^{+0.00029}_{-0.00029}$
A_{100}^{PS}	111	131^{+100}_{-100}	β_4^2	0.03	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8139	$1.814^{+0.025}_{-0.025}$
A_{143}^{PS}	56.7	48^{+30}_{-20}	β_5^2	-0.14	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.687	$13.70^{+0.12}_{-0.12}$
A_{217}^{PS}	130.8	119^{+20}_{-30}	β_1^3	-0.05	$-0.1^{+1.9}_{-1.9}$	z_*	1088.96	$1089.2^{+1.2}_{-1.2}$
A_{143}^{CIB}	1.27	—	β_2^3	0.00	$-0.1^{+1.9}_{-1.9}$	r_*	145.71	$145.6^{+1.1}_{-1.2}$
A_{217}^{CIB}	15.5	$18.9^{+12}_{-8.5}$	β_3^3	0.02	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04232	$1.0422^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.29	—	β_4^3	-0.17	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.54	$1060.3^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.798	> 0.672	β_5^3	-0.06	$-0.1^{+1.9}_{-1.9}$	r_{drag}	148.26	$148.2^{+1.1}_{-1.1}$
r_{CIB}	0.294	—	β_1^4	-0.18	$-0.1^{+1.9}_{-1.9}$	k_D	0.13984	$0.1398^{+0.0012}_{-0.0011}$
n^{CIB}	0.175	$0.23^{+0.27}_{-0.30}$	β_2^4	-0.15	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16071	$0.16083^{+0.00073}_{-0.00070}$
$c_{100/143}$	1.00063	$1.00062^{+0.00077}_{-0.00077}$	β_3^4	-0.08	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3265	3279^{+120}_{-120}
$c_{217/143}$	0.99653	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.18	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8410	$0.838^{+0.025}_{-0.024}$
$\xi^{tSZ-CIB}$	0.29	—	β_5^4	0.00	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07369	$0.0734^{+0.0021}_{-0.0020}$
A^{kSZ}	0.0	—	Ω_Λ	0.7229	$0.718^{+0.031}_{-0.033}$	$H(0.57)$	0.00031461	$0.0003140^{+0.000047}_{-0.000042}$
β_1^1	0.54	$0.4^{+1.6}_{-1.7}$	Ω_m	0.2771	$0.282^{+0.033}_{-0.031}$	$DA(0.57)$	1350.5	1356^{+36}_{-37}

Best-fit $\chi_{\text{eff}}^2 = 8211.16$; R-1 = 0.02275

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.13 CAMspec.v6.2TN.2013.01.18.clik: 7794.37 SN - SNLS April.2012: 426.91

2.12 base_Alens_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02270	$0.02255^{+0.00070}_{-0.00069}$	β_2^1	0.18	$0.1^{+1.9}_{-1.9}$	σ_8	0.820	$0.788^{+0.064}_{-0.043}$
$\Omega_c h^2$	0.1151	$0.1159^{+0.0057}_{-0.0055}$	β_3^1	0.00	$0.0^{+2.0}_{-1.9}$	z_{re}	11.6	$7.63^{+7.2}_{-5.2}$
θ	1.04209	$1.0419^{+0.0014}_{-0.0013}$	β_4^1	-0.08	$0.0^{+2.0}_{-2.0}$	H_0	69.78	$69.3^{+2.8}_{-2.7}$
τ	0.099	$0.058^{+0.083}_{-0.048}$	β_5^1	-0.04	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.220	$2.05^{+0.35}_{-0.19}$
A_L	1.265	$1.31^{+0.30}_{-0.28}$	β_1^2	-0.16	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1385	$0.1391^{+0.0053}_{-0.0050}$
n_s	0.9778	$0.971^{+0.018}_{-0.017}$	β_2^2	-0.03	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09662	$0.0964^{+0.0013}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.02^{+0.16}_{-0.093}$	β_3^2	-0.23	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247979	$0.24791^{+0.00029}_{-0.00029}$
A_{100}^{PS}	103	134^{+100}_{-100}	β_4^2	0.04	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8199	$1.820^{+0.026}_{-0.025}$
A_{143}^{PS}	61.9	49^{+30}_{-30}	β_5^2	-0.06	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.707	$13.73^{+0.12}_{-0.12}$
A_{217}^{PS}	135.4	119^{+20}_{-30}	β_1^3	0.00	$-0.1^{+1.9}_{-1.9}$	z_*	1089.18	$1089.5^{+1.3}_{-1.2}$
A_{143}^{CIB}	1.07	—	β_2^3	0.00	$-0.1^{+1.9}_{-1.9}$	r_*	145.45	$145.4^{+1.2}_{-1.2}$
A_{217}^{CIB}	13.8	$19.2^{+12}_{-8.7}$	β_3^3	-0.06	$-0.1^{+2.0}_{-2.0}$	θ_*	1.04218	$1.0420^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.48	—	β_4^3	-0.11	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.43	$1060.1^{+1.4}_{-1.3}$
$r_{PS143/217}$	0.871	> 0.675	β_5^3	-0.04	$-0.1^{+1.9}_{-1.9}$	r_{drag}	148.02	$148.0^{+1.1}_{-1.2}$
r_{CIB}	0.309	—	β_1^4	-0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.14003	$0.1400^{+0.0012}_{-0.0012}$
n^{CIB}	0.150	$0.24^{+0.26}_{-0.30}$	β_2^4	-0.20	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16076	$0.16093^{+0.00075}_{-0.00071}$
$c_{100/143}$	1.00065	$1.00062^{+0.00077}_{-0.00077}$	β_3^4	-0.08	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3293	3309^{+130}_{-120}
$c_{217/143}$	0.99636	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.14	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8353	$0.832^{+0.025}_{-0.025}$
$\xi^{tSZ-CIB}$	0.97	—	β_5^4	0.04	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07322	$0.0729^{+0.0021}_{-0.0020}$
A^{kSZ}	0.0	—	Ω_Λ	0.7157	$0.710^{+0.032}_{-0.035}$	$H(0.57)$	0.00031372	$0.0003129^{+0.0000046}_{-0.0000042}$
β_1^1	0.60	$0.4^{+1.6}_{-1.7}$	Ω_m	0.2843	$0.290^{+0.035}_{-0.032}$	$DA(0.57)$	1358.3	1365^{+37}_{-37}

Best-fit $\chi_{\text{eff}}^2 = 7913.75$; R-1 = 0.01891

χ_{eff}^2 : CMB - commander.v3.light.cli: -9.74 CAMspec.v6.2TN_2013_01_18.cli: 7793.57 SN - Union2.1: 129.92

2.13 base_Alens_planck_CAMspec_lowL_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02242	$0.02244^{+0.00064}_{-0.00062}$	β_3^2	-0.05	$0.0^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9893	$0.989^{+0.041}_{-0.038}$
$\Omega_c h^2$	0.1171	$0.1164^{+0.0059}_{-0.0058}$	β_4^2	0.28	$0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9904	$0.994^{+0.020}_{-0.019}$
θ	1.04181	$1.0419^{+0.0013}_{-0.0013}$	β_5^2	-0.33	$-0.4^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0203	$1.026^{+0.047}_{-0.043}$
τ	0.0979	$0.086^{+0.026}_{-0.024}$	β_1^3	0.74	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.7034	$0.707^{+0.033}_{-0.036}$
A_L	1.179	$1.22^{+0.23}_{-0.20}$	β_2^3	-0.50	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.2966	$0.293^{+0.036}_{-0.033}$
n_s	0.9666	$0.967^{+0.016}_{-0.016}$	β_3^3	0.21	$0.2^{+2.0}_{-1.9}$	σ_8	0.8240	$0.811^{+0.028}_{-0.027}$
$\log[10^{10} A_s]$	3.0992	$3.073^{+0.051}_{-0.046}$	β_4^3	-0.55	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.62	$10.5^{+2.2}_{-2.1}$
A_{100}^{PS}	164	180^{+80}_{-80}	β_5^3	-0.28	$-0.3^{+2.0}_{-2.0}$	H_0	68.74	$69.0^{+2.8}_{-2.7}$
A_{143}^{PS}	70.2	71^{+20}_{-20}	β_1^4	-0.31	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.218	$2.16^{+0.11}_{-0.099}$
A_{217}^{PS}	58.7	59^{+20}_{-20}	β_2^4	-0.33	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1401	$0.1395^{+0.0055}_{-0.0053}$
A_{143}^{CIB}	3.31	—	β_3^4	-0.09	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09633	$0.0963^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	49.1	45^{+9}_{-9}	β_4^4	0.15	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247861	$0.24787^{+0.00027}_{-0.00027}$
A_{143}^{tSZ}	5.41	—	β_5^4	0.28	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8236	$1.820^{+0.027}_{-0.026}$
$r_{PS143/217}$	0.828	> 0.696	$A_{\text{PS,ACT}}^{148}$	10.62	$10.8^{+1.2}_{-1.1}$	Age/Gyr	13.753	$13.75^{+0.11}_{-0.11}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.5	$81.9^{+7.8}_{-8.0}$	z_*	1089.70	$1089.6^{+1.2}_{-1.2}$
n^{CIB}	0.533	$0.50^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.14	$7.85^{+3.1}_{-2.8}$	r_*	145.14	$145.3^{+1.3}_{-1.3}$
$c_{100/143}$	1.00064	$1.00063^{+0.00078}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.27	$10.55^{+0.98}_{-0.96}$	θ_*	1.04193	$1.0420^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99931	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.4	$78.6^{+8.1}_{-8.0}$	z_{drag}	1059.93	$1059.9^{+1.3}_{-1.2}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.812	> 0.663	r_{drag}	147.81	$148.0^{+1.2}_{-1.2}$
A^{kSZ}	0.46	—	$r_{\text{PS}}^{95/220}$	0.570	$0.55^{+0.24}_{-0.20}$	k_D	0.14005	$0.1399^{+0.0012}_{-0.0012}$
β_1^1	0.45	$0.4^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9125	> 0.901	θ_D	0.16103	$0.16104^{+0.00068}_{-0.00066}$
β_2^1	-0.02	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.401	< 0.750	z_{EQ}	3333	3317^{+130}_{-130}
β_3^1	0.26	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.844	$0.84^{+0.39}_{-0.39}$	θ_{EQ}	0.8267	$0.830^{+0.026}_{-0.026}$
β_4^1	-0.08	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9946	$0.995^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07248	$0.0727^{+0.0022}_{-0.0021}$
β_5^1	0.07	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0047	$1.008^{+0.027}_{-0.026}$	$H(0.57)$	0.00031201	$0.0003124^{+0.0000045}_{-0.0000041}$
β_1^2	-1.10	$-1.16^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9905	$0.991^{+0.014}_{-0.014}$	$DA(0.57)$	1372.2	1369^{+37}_{-37}
β_2^2	-0.23	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9627	$0.966^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10516.02$; R-1 = 0.01319

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.59 commander.v3.light.clik: -7.87 CAMspec.v6.2TN_2013_01_18.clik: 7818.33 actspt_2013_01.clik: 690.93

2.14 base_Alens_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02235	$0.02238^{+0.00061}_{-0.00059}$	β_3^2	0.00	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9898	$0.988^{+0.040}_{-0.038}$
$\Omega_c h^2$	0.1167	$0.1161^{+0.0059}_{-0.0056}$	β_4^2	0.41	$0.4^{+2.2}_{-2.1}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9894	$0.992^{+0.019}_{-0.018}$
θ	1.04175	$1.0418^{+0.0015}_{-0.0013}$	β_5^2	-0.64	$-0.4^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.018	$1.026^{+0.057}_{-0.046}$
τ	0.1006	$0.085^{+0.026}_{-0.023}$	β_1^3	0.78	$0.8^{+1.9}_{-1.8}$	Ω_Λ	0.7048	$0.708^{+0.032}_{-0.036}$
A_L	1.071	$1.13^{+0.15}_{-0.14}$	β_2^3	-0.62	$-0.7^{+2.0}_{-2.4}$	Ω_m	0.2952	$0.292^{+0.036}_{-0.032}$
n_s	0.9674	$0.967^{+0.015}_{-0.016}$	β_3^3	0.12	$0.2^{+2.0}_{-2.0}$	σ_8	0.0692	$0.809^{+0.029}_{-0.027}$
$\log[10^{10} A_s]$	3.1032	$3.071^{+0.052}_{-0.045}$	β_4^3	-0.68	$-0.5^{+2.0}_{-2.3}$	z_{re}	11.86	$10.5^{+2.2}_{-2.0}$
A_{100}^{PS}	170	183^{+80}_{-80}	β_5^3	-0.33	$-0.4^{+2.1}_{-2.4}$	H_0	68.79	$69.1^{+2.8}_{-2.7}$
A_{143}^{PS}	72.3	73^{+20}_{-20}	β_1^4	-0.34	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.227	$2.16^{+0.11}_{-0.096}$
A_{217}^{PS}	61.3	60^{+20}_{-20}	β_2^4	-0.10	$-0.3^{+1.8}_{-1.9}$	$\Omega_m h^2$	0.1397	$0.1392^{+0.0054}_{-0.0053}$
A_{143}^{CIB}	2.89	—	β_3^4	-0.31	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09610	$0.0961^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	47.5	45^{+10}_{-9}	β_4^4	0.29	$0.2^{+2.0}_{-1.9}$	Y_{He}	0.247830	$0.24784^{+0.00026}_{-0.00025}$
A_{143}^{tSZ}	4.64	—	β_5^4	0.26	$0.3^{+2.3}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8211	$1.818^{+0.027}_{-0.024}$
$r_{PS143/217}$	0.817	> 0.704	$A_{\text{PS,ACT}}^{148}$	10.66	$10.8^{+1.4}_{-1.1}$	Age/Gyr	13.760	$13.75^{+0.11}_{-0.11}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.0	$81.2^{+8.3}_{-9.6}$	z_*	1089.76	$1089.7^{+1.1}_{-1.1}$
n^{CIB}	0.524	$0.51^{+0.15}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.64	$7.80^{+3.2}_{-2.8}$	r_*	145.29	$145.4^{+1.3}_{-1.3}$
$c_{100/143}$	1.00063	$1.00063^{+0.00074}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.39	$10.5^{+1.0}_{-0.98}$	θ_*	1.04188	$1.0420^{+0.0015}_{-0.0013}$
$c_{217/143}$	0.99928	$0.9994^{+0.0021}_{-0.0022}$	$A_{\text{PS,SPT}}^{220}$	77.1	$78.2^{+8.4}_{-8.9}$	z_{drag}	1059.74	$1059.8^{+1.2}_{-1.2}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.773	> 0.665	r_{drag}	147.98	$148.1^{+1.2}_{-1.2}$
A^{kSZ}	1.41	—	$r_{\text{PS}}^{95/220}$	0.523	$0.55^{+0.24}_{-0.21}$	k_D	0.13981	$0.1397^{+0.0012}_{-0.0012}$
β_1^1	0.41	$0.4^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9134	> 0.903	θ_D	0.16113	$0.16113^{+0.00063}_{-0.00061}$
β_2^1	-0.02	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.430	< 0.744	z_{EQ}	3323	3310^{+130}_{-130}
β_3^1	0.19	$0.1^{+2.1}_{-2.0}$	$A_{\text{dust,e}}$	0.846	$0.85^{+0.41}_{-0.40}$	θ_{EQ}	0.8283	$0.831^{+0.026}_{-0.026}$
β_4^1	-0.15	$0.0^{+2.0}_{-2.2}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9930	$0.994^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07257	$0.0728^{+0.0021}_{-0.0021}$
β_5^1	0.04	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0046	$1.007^{+0.027}_{-0.025}$	$H(0.57)$	0.00031191	$0.0003123^{+0.000043}_{-0.000040}$
β_1^2	-1.09	$-1.19^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9897	$0.991^{+0.015}_{-0.015}$	$DA(0.57)$	1372.0	1369^{+36}_{-36}
β_2^2	-0.29	$-0.3^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9626	$0.966^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10528.06$; R-1 = 0.28508

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.87 lensing_likelihood_v3.ref.clik.lensing: 11.21 commander_v3.light.clik: -7.96 CAMspec_v6.2TN_2013_01_18.clik: 7818.60 actspt_2013_01.clik: 691.26

2.15 base_Alens_planck_CAMspec_lowL_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022339	$0.02238^{+0.00047}_{-0.00051}$	β_3^2	-0.19	$-0.1^{+1.9}_{-1.8}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9899	$0.989^{+0.039}_{-0.036}$
$\Omega_c h^2$	0.11776	$0.1176^{+0.0038}_{-0.0034}$	β_4^2	0.42	$0.7^{+2.7}_{-2.2}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9901	$0.993^{+0.020}_{-0.019}$
θ	1.04162	$1.0418^{+0.0013}_{-0.0011}$	β_5^2	-0.56	$-0.6^{+2.1}_{-2.8}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.017	$1.037^{+0.089}_{-0.054}$
τ	0.0983	$0.084^{+0.025}_{-0.023}$	β_1^3	0.86	$0.7^{+1.8}_{-1.7}$	Ω_Λ	0.6989	$0.700^{+0.020}_{-0.023}$
A_L	1.169	$1.21^{+0.19}_{-0.18}$	β_2^3	-0.42	$-1.45^{+2.7}_{-5.4}$	Ω_m	0.3011	$0.300^{+0.023}_{-0.020}$
n_s	0.9650	$0.964^{+0.011}_{-0.011}$	β_3^3	0.08	$0.2^{+1.9}_{-1.9}$	σ_8	0.8270	$0.814^{+0.023}_{-0.023}$
$\log[10^{10} A_s]$	3.1013	$3.072^{+0.050}_{-0.047}$	β_4^3	-0.46	$-0.8^{+2.3}_{-2.8}$	z_{re}	11.70	$10.4^{+2.2}_{-2.1}$
A_{100}^{PS}	168	170^{+90}_{-80}	β_5^3	-0.50	$-0.7^{+2.3}_{-2.6}$	H_0	68.36	$68.5^{+1.7}_{-1.6}$
A_{143}^{PS}	70.7	70^{+20}_{-10}	β_1^4	-0.06	$-0.3^{+1.8}_{-1.9}$	$10^9 A_s$	2.223	$2.16^{+0.11}_{-0.099}$
A_{217}^{PS}	59.8	56^{+20}_{-30}	β_2^4	-0.14	$-0.4^{+2.0}_{-1.8}$	$\Omega_m h^2$	0.14075	$0.1406^{+0.0038}_{-0.0033}$
A_{143}^{CIB}	3.03	—	β_3^4	-0.08	$-0.3^{+2.0}_{-2.3}$	$\Omega_m h^3$	0.09622	$0.0963^{+0.0010}_{-0.0012}$
A_{217}^{CIB}	48.3	50^{+30}_{-10}	β_4^4	0.41	$0.4^{+1.7}_{-2.1}$	Y_{He}	0.247827	$0.24784^{+0.00020}_{-0.00022}$
A_{143}^{tSZ}	5.00	—	β_5^4	0.38	$0.6^{+2.4}_{-2.2}$	$10^9 A_s e^{-2\tau}$	1.8261	$1.825^{+0.017}_{-0.018}$
$r_{PS143/217}$	0.820	> 0.705	$A_{\text{PS,ACT}}^{148}$	10.56	$11.1^{+2.4}_{-1.4}$	Age/Gyr	13.769	$13.761^{+0.076}_{-0.078}$
r_{CIB}	0.9997	—	$A_{\text{PS,ACT}}^{218}$	80.4	78^{+10}_{-20}	z_*	1089.86	$1089.81^{+0.81}_{-0.78}$
n^{CIB}	0.534	$0.57^{+0.41}_{-0.21}$	$A_{\text{PS,SPT}}^{95}$	7.31	$8.03^{+3.2}_{-2.9}$	r_*	145.03	$145.05^{+0.85}_{-1.0}$
$c_{100/143}$	1.00061	$1.00063^{+0.00073}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.28	$10.5^{+1.0}_{-0.96}$	θ_*	1.04176	$1.0419^{+0.0012}_{-0.0011}$
$c_{217/143}$	0.99929	$0.9996^{+0.0020}_{-0.0023}$	$A_{\text{PS,SPT}}^{220}$	76.5	77^{+9}_{-10}	z_{drag}	1059.78	$1059.8^{+1.0}_{-1.1}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.785	> 0.661	r_{drag}	147.71	$147.72^{+0.88}_{-1.1}$
A^{kSZ}	1.29	—	$r_{\text{PS}}^{95/220}$	0.545	$0.51^{+0.27}_{-0.25}$	k_D	0.14009	$0.1401^{+0.0012}_{-0.0011}$
β_1^1	0.60	$0.4^{+1.5}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9161	> 0.903	θ_D	0.16109	$0.16107^{+0.00065}_{-0.00057}$
β_2^1	-0.22	$-0.4^{+2.1}_{-2.6}$	$A_{\text{dust,s}}$	0.405	< 0.754	z_{EQ}	3348	3344^{+90}_{-78}
β_3^1	0.04	$-0.1^{+2.1}_{-1.8}$	$A_{\text{dust,e}}$	0.859	$0.84^{+0.40}_{-0.40}$	θ_{EQ}	0.8236	$0.825^{+0.015}_{-0.016}$
β_4^1	0.13	$-0.1^{+2.1}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9941	$0.996^{+0.017}_{-0.015}$	$r_s/D_v(0.57)$	0.07221	$0.0723^{+0.0013}_{-0.0013}$
β_5^1	-0.05	$0.0^{+1.8}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0035	$1.010^{+0.030}_{-0.027}$	$H(0.57)$	0.00031140	$0.0003117^{+0.0000027}_{-0.0000025}$
β_1^2	-0.84	$-0.9^{+1.6}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9903	$0.992^{+0.016}_{-0.015}$	$DA(0.57)$	1377.4	1375^{+22}_{-22}
β_2^2	-0.13	$-0.4^{+1.9}_{-2.1}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9629	$0.967^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10517.53$; R-1 = 1.18640

χ_{eff}^2 : BAO - DR9: 0.77 DR7: 0.46 6DF: 0.06 CMB - lowlike.v22.light.clik: 2014.71 commander.v3.light.clik: -7.53 CAMspec.v6.2TN_2013.01.18.clik: 7817.91 actspt_2013.01.clik: 691.06

2.16 base_Alens_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02266	$0.02266^{+0.00058}_{-0.00057}$	β_3^2	0.18	$-0.1^{+2.0}_{-1.8}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9932	$0.992^{+0.041}_{-0.037}$
$\Omega_c h^2$	0.1146	$0.1141^{+0.0051}_{-0.0053}$	β_4^2	0.61	$0.8^{+3.2}_{-2.3}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9933	$0.996^{+0.021}_{-0.019}$
θ	1.04221	$1.0424^{+0.0012}_{-0.0013}$	β_5^2	-0.50	$-0.6^{+2.1}_{-2.6}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.023	$1.042^{+0.099}_{-0.057}$
τ	0.1015	$0.086^{+0.028}_{-0.024}$	β_1^3	0.88	$0.6^{+1.9}_{-1.6}$	Ω_Λ	0.7184	$0.721^{+0.029}_{-0.030}$
A_L	1.249	$1.29^{+0.21}_{-0.20}$	β_2^3	-0.78	$-1.62^{+2.8}_{-5.7}$	Ω_m	0.2816	$0.279^{+0.030}_{-0.029}$
n_s	0.9730	$0.973^{+0.015}_{-0.014}$	β_3^3	0.06	$0.2^{+1.9}_{-1.8}$	σ_8	0.8169	$0.802^{+0.029}_{-0.025}$
$\log[10^{10} A_s]$	3.1010	$3.068^{+0.054}_{-0.045}$	β_4^3	-0.42	$-0.8^{+2.3}_{-2.7}$	z_{re}	11.78	$10.4^{+2.3}_{-2.1}$
A_{100}^{PS}	165	165^{+90}_{-90}	β_5^3	-0.38	$-0.7^{+2.3}_{-2.6}$	H_0	69.98	$70.2^{+2.5}_{-2.4}$
A_{143}^{PS}	67.3	67^{+20}_{-10}	β_1^4	-0.27	$-0.4^{+1.8}_{-1.9}$	$10^9 A_s$	2.222	$2.15^{+0.12}_{-0.096}$
A_{217}^{PS}	55.5	52^{+20}_{-30}	β_2^4	-0.02	$-0.5^{+2.0}_{-1.8}$	$\Omega_m h^2$	0.13790	$0.1374^{+0.0048}_{-0.0048}$
A_{143}^{CIB}	3.02	—	β_3^4	0.04	$-0.2^{+2.0}_{-2.2}$	$\Omega_m h^3$	0.09651	$0.09647^{+0.00099}_{-0.0012}$
A_{217}^{CIB}	48.8	50^{+30}_{-10}	β_4^4	0.21	$0.4^{+1.7}_{-2.1}$	Y_{He}	0.247962	$0.24796^{+0.00024}_{-0.00024}$
A_{143}^{tSZ}	4.87	—	β_5^4	0.51	$0.7^{+2.5}_{-2.3}$	$10^9 A_s e^{-2\tau}$	1.8135	$1.811^{+0.024}_{-0.023}$
$r_{PS143/217}$	0.814	> 0.693	$A_{\text{PS,ACT}}^{148}$	10.68	$11.1^{+2.1}_{-1.4}$	Age/Gyr	13.705	$13.697^{+0.099}_{-0.099}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.0	78^{+10}_{-20}	z_*	1089.19	$1089.1^{+1.0}_{-1.0}$
n^{CIB}	0.542	$0.58^{+0.41}_{-0.22}$	$A_{\text{PS,SPT}}^{95}$	7.70	$8.17^{+3.2}_{-3.0}$	r_*	145.61	$145.8^{+1.2}_{-1.1}$
$c_{100/143}$	1.00065	$1.00061^{+0.00074}_{-0.00073}$	$A_{\text{PS,SPT}}^{150}$	10.39	$10.5^{+1.0}_{-0.89}$	θ_*	1.04232	$1.0425^{+0.0012}_{-0.0013}$
$c_{217/143}$	0.99924	$0.9996^{+0.0020}_{-0.0023}$	$A_{\text{PS,SPT}}^{220}$	77.1	77^{+9}_{-10}	z_{drag}	1060.28	$1060.3^{+1.1}_{-1.2}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.779	> 0.660	r_{drag}	148.21	$148.3^{+1.1}_{-1.1}$
A^{kSZ}	1.22	—	$r_{\text{PS}}^{95/220}$	0.533	$0.51^{+0.26}_{-0.25}$	k_D	0.13980	$0.1397^{+0.0012}_{-0.0012}$
β_1^1	0.47	$0.3^{+1.5}_{-1.5}$	$r_{\text{PS}}^{150/220}$	0.9125	> 0.904	θ_D	0.16085	$0.16090^{+0.00061}_{-0.00062}$
β_2^1	-0.07	$-0.4^{+2.1}_{-2.3}$	$A_{\text{dust,s}}$	0.408	< 0.732	z_{EQ}	3280	3268^{+110}_{-120}
β_3^1	0.06	$-0.1^{+2.1}_{-1.7}$	$A_{\text{dust,e}}$	0.819	$0.83^{+0.39}_{-0.40}$	θ_{EQ}	0.8378	$0.840^{+0.025}_{-0.023}$
β_4^1	0.03	$-0.2^{+2.2}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9953	$0.997^{+0.016}_{-0.014}$	$r_s/D_v(0.57)$	0.07342	$0.0736^{+0.0020}_{-0.0019}$
β_5^1	0.17	$0.0^{+1.8}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0079	$1.012^{+0.027}_{-0.026}$	$H(0.57)$	0.00031393	$0.0003143^{+0.0000040}_{-0.0000038}$
β_1^2	-1.01	$-0.9^{+1.6}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9917	$0.993^{+0.016}_{-0.014}$	$DA(0.57)$	1355.9	1353^{+32}_{-32}
β_2^2	-0.06	$-0.3^{+1.9}_{-2.1}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9663	$0.970^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.16$; $R-1 = 1.44166$

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.70 commander.v3.light.clik: -8.93 CAMspec.v6.2TN_2013_01_18.clik: 7821.15 actspt_2013_01.clik: 689.67 Hubble - HST: 2.58

2.17 base_Alens_planck_CAMspec_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02256	$0.02258^{+0.00060}_{-0.00060}$	β_3^2	-0.098	$-0.1^{+2.0}_{-1.8}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9915	$0.991^{+0.041}_{-0.037}$
$\Omega_c h^2$	0.1151	$0.1149^{+0.0057}_{-0.0055}$	β_4^2	0.33	$0.8^{+3.2}_{-2.3}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9916	$0.995^{+0.021}_{-0.019}$
θ	1.04208	$1.0422^{+0.0014}_{-0.0013}$	β_5^2	-0.35	$-0.6^{+2.1}_{-2.7}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.020	$1.041^{+0.099}_{-0.056}$
τ	0.1011	$0.085^{+0.027}_{-0.023}$	β_1^3	0.80	$0.6^{+1.8}_{-1.6}$	Ω_Λ	0.7151	$0.716^{+0.031}_{-0.034}$
A_L	1.215	$1.27^{+0.20}_{-0.21}$	β_2^3	-0.62	$-1.57^{+2.8}_{-5.8}$	Ω_m	0.2849	$0.284^{+0.034}_{-0.031}$
n_s	0.9714	$0.971^{+0.016}_{-0.015}$	β_3^3	0.13	$0.2^{+1.9}_{-1.8}$	σ_8	0.8185	$0.804^{+0.029}_{-0.026}$
$\log[10^{10} A_s]$	3.1009	$3.069^{+0.053}_{-0.046}$	β_4^3	-0.59	$-0.8^{+2.3}_{-2.7}$	z_{re}	11.78	$10.4^{+2.3}_{-2.1}$
A_{100}^{PS}	168	166^{+90}_{-90}	β_5^3	-0.35	$-0.7^{+2.3}_{-2.6}$	H_0	69.68	$69.8^{+2.7}_{-2.6}$
A_{143}^{PS}	68.7	68^{+20}_{-10}	β_1^4	-0.18	$-0.3^{+1.8}_{-1.9}$	$10^9 A_s$	2.222	$2.15^{+0.12}_{-0.097}$
A_{217}^{PS}	58.2	53^{+20}_{-30}	β_2^4	-0.35	$-0.5^{+2.0}_{-1.8}$	$\Omega_m h^2$	0.1383	$0.1381^{+0.0054}_{-0.0051}$
A_{143}^{CIB}	2.91	—	β_3^4	-0.16	$-0.3^{+2.0}_{-2.3}$	$\Omega_m h^3$	0.09636	$0.0964^{+0.0010}_{-0.0012}$
A_{217}^{CIB}	47.9	50^{+30}_{-10}	β_4^4	0.18	$0.4^{+1.7}_{-2.1}$	Y_{He}	0.247920	$0.24793^{+0.00025}_{-0.00025}$
A_{143}^{tSZ}	4.72	—	β_5^4	0.35	$0.7^{+2.5}_{-2.3}$	$10^9 A_s e^{-2\tau}$	1.8152	$1.814^{+0.025}_{-0.024}$
$r_{PS143/217}$	0.811	> 0.696	$A_{\text{PS,ACT}}^{148}$	10.66	$11.1^{+2.2}_{-1.4}$	Age/Gyr	13.721	$13.71^{+0.10}_{-0.10}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.0	78^{+10}_{-20}	z_*	1089.35	$1089.3^{+1.1}_{-1.1}$
n^{CIB}	0.530	$0.58^{+0.41}_{-0.22}$	$A_{\text{PS,SPT}}^{95}$	7.44	$8.13^{+3.2}_{-3.0}$	r_*	145.56	$145.6^{+1.2}_{-1.3}$
$c_{100/143}$	1.00062	$1.00062^{+0.00074}_{-0.00074}$	$A_{\text{PS,SPT}}^{150}$	10.38	$10.5^{+1.0}_{-0.91}$	θ_*	1.04220	$1.0423^{+0.0014}_{-0.0013}$
$c_{217/143}$	0.99932	$0.9996^{+0.0020}_{-0.0023}$	$A_{\text{PS,SPT}}^{220}$	77.3	77^{+9}_{-10}	z_{drag}	1060.09	$1060.1^{+1.1}_{-1.2}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.780	> 0.660	r_{drag}	148.19	$148.2^{+1.2}_{-1.2}$
A^{kSZ}	1.58	—	$r_{\text{PS}}^{95/220}$	0.533	$0.51^{+0.26}_{-0.25}$	k_D	0.13976	$0.1397^{+0.0013}_{-0.0012}$
β_1^1	0.52	$0.3^{+1.5}_{-1.5}$	$r_{\text{PS}}^{150/220}$	0.9143	> 0.904	θ_D	0.16095	$0.16095^{+0.00065}_{-0.00063}$
β_2^1	-0.20	$-0.4^{+2.1}_{-2.5}$	$A_{\text{dust,s}}$	0.422	< 0.736	z_{EQ}	3289	3285^{+130}_{-120}
β_3^1	0.11	$-0.1^{+2.1}_{-1.8}$	$A_{\text{dust,e}}$	0.824	$0.83^{+0.40}_{-0.40}$	θ_{EQ}	0.8356	$0.837^{+0.026}_{-0.025}$
β_4^1	0.01	$-0.2^{+2.1}_{-2.1}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9948	$0.997^{+0.016}_{-0.015}$	$r_s/D_v(0.57)$	0.07321	$0.0733^{+0.0021}_{-0.0021}$
β_5^1	-0.08	$0.0^{+1.8}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0064	$1.011^{+0.028}_{-0.026}$	$H(0.57)$	0.00031337	$0.0003137^{+0.0000042}_{-0.0000039}$
β_1^2	-1.01	$-0.9^{+1.6}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9914	$0.993^{+0.016}_{-0.014}$	$DA(0.57)$	1360.1	1358^{+34}_{-34}
β_2^2	-0.33	$-0.3^{+1.9}_{-2.2}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9643	$0.969^{+0.022}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10943.39$; R-1 = 1.36174

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.72 commander.v3.light.clik: -8.68 CAMspec.v6.2TN_2013_01_18.clik: 7819.50 actspt_2013_01.clik: 690.43 SN - SNLS April.2012: 427.40

2.18 base_Alens_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02243	$0.02249^{+0.00057}_{-0.00060}$	β_3^2	-0.06	$-0.1^{+2.0}_{-1.8}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9904	$0.990^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1167	$0.1162^{+0.0058}_{-0.0054}$	β_4^2	0.48	$0.8^{+3.0}_{-2.3}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9902	$0.994^{+0.021}_{-0.019}$
θ	1.04187	$1.0420^{+0.0014}_{-0.0013}$	β_5^2	-0.47	$-0.6^{+2.1}_{-2.7}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.017	$1.041^{+0.099}_{-0.057}$
τ	0.0989	$0.085^{+0.027}_{-0.023}$	β_1^3	0.61	$0.7^{+1.8}_{-1.6}$	Ω_Λ	0.7056	$0.708^{+0.031}_{-0.035}$
A_L	1.192	$1.24^{+0.20}_{-0.20}$	β_2^3	-0.67	$-1.61^{+2.8}_{-5.4}$	Ω_m	0.2944	$0.292^{+0.035}_{-0.031}$
n_s	0.9671	$0.968^{+0.016}_{-0.015}$	β_3^3	0.00	$0.2^{+1.9}_{-1.8}$	σ_8	0.8233	$0.809^{+0.027}_{-0.027}$
$\log[10^{10} A_s]$	3.1005	$3.070^{+0.051}_{-0.047}$	β_4^3	-0.48	$-0.8^{+2.3}_{-2.7}$	z_{re}	11.69	$10.4^{+2.2}_{-2.1}$
A_{100}^{PS}	173	167^{+90}_{-90}	β_5^3	-0.39	$-0.8^{+2.3}_{-2.6}$	H_0	68.90	$69.2^{+2.6}_{-2.6}$
A_{143}^{PS}	71.1	69^{+20}_{-10}	β_1^4	-0.21	$-0.3^{+1.8}_{-1.9}$	$10^9 A_s$	2.221	$2.16^{+0.11}_{-0.099}$
A_{217}^{PS}	59.7	54^{+20}_{-30}	β_2^4	-0.31	$-0.5^{+2.0}_{-1.8}$	$\Omega_m h^2$	0.1398	$0.1393^{+0.0056}_{-0.0050}$
A_{143}^{CIB}	2.98	—	β_3^4	-0.48	$-0.3^{+2.0}_{-2.2}$	$\Omega_m h^3$	0.09631	$0.09637^{+0.00099}_{-0.0012}$
A_{217}^{CIB}	47.8	50^{+30}_{-10}	β_4^4	0.10	$0.4^{+1.7}_{-2.1}$	Y_{He}	0.247865	$0.24789^{+0.00024}_{-0.00025}$
A_{143}^{tSZ}	4.74	—	β_5^4	0.55	$0.7^{+2.5}_{-2.3}$	$10^9 A_s e^{-2\tau}$	1.8221	$1.819^{+0.026}_{-0.024}$
$r_{PS143/217}$	0.810	> 0.700	$A_{\text{PS,ACT}}^{148}$	10.61	$11.1^{+2.2}_{-1.4}$	Age/Gyr	13.748	$13.74^{+0.10}_{-0.10}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.1	78^{+10}_{-20}	z_*	1089.66	$1089.5^{+1.1}_{-1.1}$
n^{CIB}	0.527	$0.58^{+0.41}_{-0.22}$	$A_{\text{PS,SPT}}^{95}$	7.43	$8.11^{+3.1}_{-3.0}$	r_*	145.23	$145.3^{+1.2}_{-1.4}$
$c_{100/143}$	1.00060	$1.00062^{+0.00074}_{-0.00075}$	$A_{\text{PS,SPT}}^{150}$	10.34	$10.5^{+1.0}_{-0.93}$	θ_*	1.04199	$1.0421^{+0.0014}_{-0.0013}$
$c_{217/143}$	0.99952	$0.9996^{+0.0020}_{-0.0023}$	$A_{\text{PS,SPT}}^{220}$	76.9	77^{+9}_{-10}	z_{drag}	1059.93	$1060.0^{+1.1}_{-1.2}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.782	> 0.660	r_{drag}	147.89	$148.0^{+1.2}_{-1.4}$
A^{kSZ}	1.47	—	$r_{\text{PS}}^{95/220}$	0.540	$0.51^{+0.27}_{-0.25}$	k_D	0.13997	$0.1399^{+0.0014}_{-0.0012}$
β_1^1	0.69	$0.4^{+1.5}_{-1.5}$	$r_{\text{PS}}^{150/220}$	0.9137	> 0.904	θ_D	0.16104	$0.16101^{+0.00067}_{-0.00061}$
β_2^1	-0.17	$-0.4^{+2.1}_{-2.4}$	$A_{\text{dust,s}}$	0.429	< 0.739	z_{EQ}	3325	3314^{+130}_{-120}
β_3^1	0.096	$-0.1^{+2.1}_{-1.8}$	$A_{\text{dust,e}}$	0.843	$0.84^{+0.41}_{-0.40}$	θ_{EQ}	0.8284	$0.831^{+0.025}_{-0.025}$
β_4^1	0.16	$-0.2^{+2.1}_{-2.1}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9940	$0.996^{+0.016}_{-0.015}$	$r_s/D_v(0.57)$	0.07262	$0.0728^{+0.0020}_{-0.0020}$
β_5^1	-0.14	$0.0^{+1.8}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0063	$1.011^{+0.029}_{-0.027}$	$H(0.57)$	0.00031222	$0.0003127^{+0.0000040}_{-0.0000037}$
β_1^2	-0.86	$-0.9^{+1.6}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9906	$0.993^{+0.016}_{-0.015}$	$DA(0.57)$	1370.2	1366^{+34}_{-34}
β_2^2	-0.59	$-0.4^{+1.9}_{-2.2}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9642	$0.969^{+0.022}_{-0.022}$			

Best-fit $\chi_{\text{eff}}^2 = 10646.09$; R-1 = 1.37954

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.66 commander.v3.light.clik: -7.91 CAMspec.v6.2TN_2013_01_18.clik: 7818.55 actspt_2013_01.clik: 690.67 SN - Union2.1: 130.05

2.19 base_Alens_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02242	$0.0226^{+0.0011}_{-0.0011}$	z_{re}	10.62	$10.6^{+2.2}_{-2.2}$	z_{drag}	1059.70	$1060.0^{+2.3}_{-2.3}$
$\Omega_c h^2$	0.1143	$0.1134^{+0.0090}_{-0.0087}$	H_0	69.02	$69.7^{+4.4}_{-4.3}$	r_{drag}	148.56	$148.6^{+2.4}_{-2.3}$
θ	1.03959	$1.0401^{+0.0044}_{-0.0045}$	$10^9 A_s$	2.200	$2.20^{+0.14}_{-0.12}$	k_D	0.13926	$0.1393^{+0.0027}_{-0.0027}$
τ	0.0869	$0.088^{+0.029}_{-0.025}$	$\Omega_m h^2$	0.1373	$0.1366^{+0.0087}_{-0.0085}$	θ_D	0.16078	$0.1607^{+0.0011}_{-0.0010}$
A_L	0.50	$0.82^{+1.4}_{-0.78}$	$\Omega_m h^3$	0.09479	$0.0952^{+0.0036}_{-0.0036}$	z_{EQ}	3266	3249^{+210}_{-200}
n_s	0.9708	$0.973^{+0.027}_{-0.026}$	Y_{He}	0.247861	$0.24793^{+0.00044}_{-0.00045}$	θ_{EQ}	0.8375	$0.842^{+0.042}_{-0.040}$
$\log[10^{10} A_s]$	3.091	$3.090^{+0.061}_{-0.056}$	$10^9 A_s e^{-2\tau}$	1.849	$1.841^{+0.060}_{-0.060}$	$r_s/D_v(0.57)$	0.07283	$0.0733^{+0.0035}_{-0.0033}$
A_{SZ}	0.00	—	Age/Gyr	13.805	$13.77^{+0.24}_{-0.23}$	$H(0.57)$	0.0003113	$0.0003127^{+0.0000079}_{-0.0000075}$
Ω_Λ	0.712	$0.717^{+0.047}_{-0.054}$	z_*	1089.45	$1089.2^{+1.8}_{-1.6}$	$DA(0.57)$	1371	1362^{+59}_{-58}
Ω_m	0.288	$0.283^{+0.054}_{-0.047}$	r_*	145.88	$146.0^{+2.3}_{-2.3}$			
σ_8	0.8099	$0.806^{+0.044}_{-0.045}$	θ_*	1.03972	$1.0402^{+0.0043}_{-0.0045}$			

Best-fit $\chi^2_{\text{eff}} = 7557.25$; R-1 = 0.00812

χ^2_{eff} : CMB - WMAP: 7557.25

2.20 base_Alens_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02248	$0.02242^{+0.00091}_{-0.00092}$	z_{re}	10.69	$10.5^{+2.2}_{-2.1}$	z_{drag}	1060.01	$1059.8^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.11622	$0.1158^{+0.0049}_{-0.0047}$	H_0	68.41	$68.4^{+2.0}_{-1.9}$	r_{drag}	147.97	$148.2^{+1.9}_{-1.8}$
θ	1.03976	$1.0394^{+0.0040}_{-0.0041}$	$10^9 A_s$	2.219	$2.20^{+0.13}_{-0.12}$	k_D	0.13993	$0.1397^{+0.0024}_{-0.0025}$
τ	0.0875	$0.086^{+0.026}_{-0.023}$	$\Omega_m h^2$	0.1393	$0.1389^{+0.0051}_{-0.0050}$	θ_D	0.16066	$0.1607^{+0.0011}_{-0.0010}$
A_L	0.84	$0.78^{+1.3}_{-0.74}$	$\Omega_m h^3$	0.09533	$0.0950^{+0.0035}_{-0.0036}$	z_{EQ}	3314	3303^{+120}_{-120}
n_s	0.9705	$0.968^{+0.021}_{-0.021}$	Y_{He}	0.247887	$0.24786^{+0.00038}_{-0.00040}$	θ_{EQ}	0.8287	$0.831^{+0.020}_{-0.020}$
$\log[10^{10} A_s]$	3.100	$3.091^{+0.057}_{-0.054}$	$10^9 A_s e^{-2\tau}$	1.8628	$1.853^{+0.045}_{-0.044}$	$r_s/D_v(0.57)$	0.07226	$0.0723^{+0.0014}_{-0.0014}$
A_{SZ}	0.00	—	Age/Gyr	13.804	$13.82^{+0.19}_{-0.17}$	$H(0.57)$	0.00031079	$0.0003105^{+0.0000045}_{-0.0000046}$
Ω_Λ	0.7022	$0.703^{+0.022}_{-0.024}$	z_*	1089.55	$1089.6^{+1.1}_{-1.1}$	$DA(0.57)$	1378.3	1379^{+29}_{-28}
Ω_m	0.2978	$0.297^{+0.024}_{-0.022}$	r_*	145.32	$145.5^{+1.6}_{-1.6}$			
σ_8	0.8203	$0.814^{+0.036}_{-0.034}$	θ_*	1.03988	$1.0395^{+0.0040}_{-0.0040}$			

Best-fit $\chi^2_{\text{eff}} = 7558.97$; R-1 = 0.01250

χ^2_{eff} : BAO - 6DF: 0.06 DR7: 0.37 DR9: 0.83 CMB - WMAP: 7557.71

2.21 base_Alens_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02291	$0.02290^{+0.00098}_{-0.00093}$	z_{re}	10.83	$10.8^{+2.3}_{-2.1}$	z_{drag}	1060.58	$1060.5^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1107	$0.1100^{+0.0072}_{-0.0067}$	H_0	71.40	$71.6^{+3.3}_{-3.3}$	r_{drag}	149.00	$149.2^{+2.2}_{-2.1}$
θ	1.04140	$1.0412^{+0.0041}_{-0.0041}$	$10^9 A_s$	2.204	$2.20^{+0.15}_{-0.12}$	k_D	0.13914	$0.1389^{+0.0026}_{-0.0026}$
τ	0.0922	$0.092^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1342	$0.1336^{+0.0071}_{-0.0067}$	θ_D	0.16054	$0.1606^{+0.0010}_{-0.0010}$
A_L	0.83	$0.91^{+1.4}_{-0.86}$	$\Omega_m h^3$	0.09584	$0.0956^{+0.0036}_{-0.0035}$	z_{EQ}	3192	3177^{+170}_{-160}
n_s	0.9820	$0.981^{+0.023}_{-0.023}$	Y_{He}	0.248066	$0.24806^{+0.00040}_{-0.00039}$	θ_{EQ}	0.8550	$0.858^{+0.034}_{-0.033}$
$\log[10^{10} A_s]$	3.093	$3.089^{+0.065}_{-0.057}$	$10^9 A_s e^{-2\tau}$	1.833	$1.825^{+0.054}_{-0.054}$	$r_s/D_v(0.57)$	0.07457	$0.0748^{+0.0026}_{-0.0026}$
A_{SZ}	0.56	—	Age/Gyr	13.683	$13.68^{+0.19}_{-0.20}$	$H(0.57)$	0.0003156	$0.0003158^{+0.000063}_{-0.000060}$
Ω_Λ	0.7367	$0.739^{+0.032}_{-0.037}$	z_*	1088.55	$1088.5^{+1.3}_{-1.3}$	$DA(0.57)$	1338.8	1337^{+44}_{-43}
Ω_m	0.2633	$0.261^{+0.037}_{-0.032}$	r_*	146.47	$146.7^{+2.0}_{-2.0}$			
σ_8	0.7993	$0.795^{+0.042}_{-0.041}$	θ_*	1.04148	$1.0413^{+0.0041}_{-0.0041}$			

Best-fit $\chi_{\text{eff}}^2 = 7559.55$; R-1 = 0.01979

χ_{eff}^2 : CMB - WMAP: 7558.49 Hubble - HST: 1.07

2.22 base_Alens_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02270	$0.0228^{+0.0010}_{-0.00099}$	z_{re}	10.90	$10.7^{+2.2}_{-2.1}$	z_{drag}	1060.12	$1060.3^{+2.3}_{-2.3}$
$\Omega_c h^2$	0.1113	$0.1108^{+0.0077}_{-0.0073}$	H_0	70.69	$71.0^{+3.8}_{-3.7}$	r_{drag}	149.06	$149.1^{+2.2}_{-2.2}$
θ	1.04059	$1.0407^{+0.0044}_{-0.0044}$	$10^9 A_s$	2.202	$2.19^{+0.14}_{-0.12}$	k_D	0.13894	$0.1389^{+0.0026}_{-0.0026}$
τ	0.0921	$0.091^{+0.029}_{-0.025}$	$\Omega_m h^2$	0.1347	$0.1342^{+0.0076}_{-0.0072}$	θ_D	0.16067	$0.1606^{+0.0011}_{-0.0010}$
A_L	0.58	$0.87^{+1.4}_{-0.83}$	$\Omega_m h^3$	0.09521	$0.0953^{+0.0036}_{-0.0035}$	z_{EQ}	3203	3192^{+180}_{-170}
n_s	0.9770	$0.978^{+0.025}_{-0.024}$	Y_{He}	0.247978	$0.24801^{+0.00043}_{-0.00042}$	θ_{EQ}	0.8516	$0.855^{+0.036}_{-0.036}$
$\log[10^{10} A_s]$	3.092	$3.087^{+0.064}_{-0.057}$	$10^9 A_s e^{-2\tau}$	1.831	$1.827^{+0.054}_{-0.055}$	$r_s/D_v(0.57)$	0.07410	$0.0744^{+0.0030}_{-0.0028}$
A_{SZ}	0.82	—	Age/Gyr	13.732	$13.72^{+0.22}_{-0.23}$	$H(0.57)$	0.0003141	$0.0003147^{+0.000074}_{-0.000069}$
Ω_Λ	0.7305	$0.733^{+0.038}_{-0.043}$	z_*	1088.86	$1088.7^{+1.5}_{-1.5}$	$DA(0.57)$	1349	1345^{+51}_{-50}
Ω_m	0.2695	$0.267^{+0.043}_{-0.038}$	r_*	146.46	$146.6^{+2.1}_{-2.0}$			
σ_8	0.8004	$0.796^{+0.042}_{-0.042}$	θ_*	1.04069	$1.0408^{+0.0043}_{-0.0043}$			

Best-fit $\chi_{\text{eff}}^2 = 7984.32$; R-1 = 0.01581

χ_{eff}^2 : CMB - WMAP: 7557.83 SN - SNLS April_2012: 426.49

2.23 base_Alens_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02263	$0.0226^{+0.0010}_{-0.0010}$	z_{re}	10.77	$10.6^{+2.2}_{-2.1}$	z_{drag}	1060.20	$1060.1^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1141	$0.1131^{+0.0080}_{-0.0078}$	H_0	69.53	$69.9^{+4.0}_{-3.8}$	r_{drag}	148.38	$148.7^{+2.2}_{-2.2}$
θ	1.04039	$1.0401^{+0.0043}_{-0.0045}$	$10^9 A_s$	2.215	$2.20^{+0.14}_{-0.12}$	k_D	0.13960	$0.1393^{+0.0026}_{-0.0026}$
τ	0.0895	$0.089^{+0.028}_{-0.025}$	$\Omega_m h^2$	0.1374	$0.1363^{+0.0078}_{-0.0076}$	θ_D	0.16063	$0.1607^{+0.0011}_{-0.0010}$
A_L	0.87	$0.83^{+1.3}_{-0.79}$	$\Omega_m h^3$	0.09551	$0.0952^{+0.0036}_{-0.0036}$	z_{EQ}	3267	3242^{+190}_{-180}
n_s	0.9750	$0.974^{+0.026}_{-0.025}$	Y_{He}	0.247950	$0.24794^{+0.00043}_{-0.00043}$	θ_{EQ}	0.8387	$0.844^{+0.038}_{-0.036}$
$\log[10^{10} A_s]$	3.098	$3.089^{+0.061}_{-0.056}$	$10^9 A_s e^{-2\tau}$	1.852	$1.839^{+0.056}_{-0.056}$	$r_s/D_v(0.57)$	0.07313	$0.0734^{+0.0031}_{-0.0029}$
A_{sz}	0.00	—	Age/Gyr	13.759	$13.76^{+0.23}_{-0.22}$	$H(0.57)$	0.0003125	$0.0003129^{+0.0000073}_{-0.0000069}$
Ω_Λ	0.7159	$0.720^{+0.042}_{-0.048}$	z_*	1089.18	$1089.1^{+1.6}_{-1.5}$	$DA(0.57)$	1363	1360^{+53}_{-52}
Ω_m	0.2841	$0.280^{+0.048}_{-0.042}$	r_*	145.77	$146.1^{+2.1}_{-2.0}$			
σ_8	0.8128	$0.805^{+0.041}_{-0.043}$	θ_*	1.04050	$1.0403^{+0.0042}_{-0.0044}$			

Best-fit $\chi^2_{\text{eff}} = 7687.54$; R-1 = 0.01017

χ^2_{eff} : CMB - WMAP: 7557.62 SN - Union2.1: 129.92

3 alpha1

3.1 base_alpha1_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02218	$0.02223^{+0.00058}_{-0.00056}$	β_2^1	0.17	$0.1^{+1.8}_{-1.9}$	σ_8	0.8279	$0.832^{+0.026}_{-0.025}$
$\Omega_c h^2$	0.1206	$0.1209^{+0.0056}_{-0.0054}$	β_3^1	-0.15	$0.0^{+1.9}_{-2.0}$	z_{re}	11.19	$11.7^{+2.4}_{-2.3}$
θ	1.04099	$1.0407^{+0.0014}_{-0.0014}$	β_4^1	-0.08	$0.0^{+2.0}_{-2.0}$	H_0	67.01	$66.9^{+2.4}_{-2.4}$
τ	0.0909	$0.097^{+0.030}_{-0.027}$	β_5^1	0.04	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.209	$2.24^{+0.14}_{-0.12}$
α_{-1}	-0.0014	$-0.0037^{+0.0037}_{-0.0071}$	β_1^2	-0.03	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.1434	$0.1438^{+0.0053}_{-0.0051}$
n_s	0.9545	$0.952^{+0.018}_{-0.017}$	β_2^2	0.25	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09612	$0.0961^{+0.0012}_{-0.0011}$
$\log[10^{10} A_s]$	3.095	$3.109^{+0.059}_{-0.054}$	β_3^2	-0.47	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247757	$0.24778^{+0.00025}_{-0.00024}$
A_{100}^{PS}	169	152^{+100}_{-100}	β_4^2	-0.08	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8415	$1.844^{+0.028}_{-0.028}$
A_{143}^{PS}	48	52^{+30}_{-30}	β_5^2	0.05	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.817	$13.820^{+0.094}_{-0.096}$
A_{217}^{PS}	119.4	118^{+30}_{-30}	β_1^3	-0.08	$-0.1^{+1.9}_{-1.9}$	z_*	1090.32	$1090.3^{+1.1}_{-1.0}$
A_{143}^{CIB}	10.1	—	β_2^3	-0.06	$-0.1^{+1.9}_{-1.9}$	r_*	144.41	$144.3^{+1.3}_{-1.3}$
A_{217}^{CIB}	24.4	22^{+10}_{-10}	β_3^3	-0.16	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04113	$1.0409^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	5.57	—	β_4^3	-0.33	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.63	$1059.7^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.784	> 0.668	β_5^3	0.00	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.13	$147.0^{+1.3}_{-1.3}$
r_{CIB}	0.538	—	β_1^4	0.05	$-0.1^{+1.9}_{-1.9}$	k_D	0.14057	$0.1407^{+0.0014}_{-0.0014}$
n^{CIB}	0.263	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.35	$0.0^{+2.0}_{-2.0}$	θ_D	0.16113	$0.16102^{+0.00073}_{-0.00073}$
$c_{100/143}$	1.00058	$1.00061^{+0.00078}_{-0.00078}$	β_3^4	0.12	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3412	3420^{+130}_{-120}
$c_{217/143}$	0.99653	$0.9965^{+0.0025}_{-0.0026}$	β_4^4	0.24	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8110	$0.810^{+0.023}_{-0.023}$
$\xi^{tSZ-CIB}$	0.01	—	β_5^4	-0.18	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07116	$0.0710^{+0.0019}_{-0.0018}$
A^{kSZ}	0.5	—	Ω_Λ	0.6805	$0.678^{+0.033}_{-0.036}$	$H(0.57)$	0.00030949	$0.0003094^{+0.0000035}_{-0.0000033}$
β_1^1	0.38	$0.6^{+1.7}_{-1.6}$	Ω_m	0.3195	$0.322^{+0.036}_{-0.033}$	$DA(0.57)$	1395.4	1397^{+33}_{-32}

Best-fit $\chi_{\text{eff}}^2 = 9802.08$; R-1 = 0.01488

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.28 commander_v3.light.clik: -10.20 CAMspec_v6.2TN_2013_01_18.clik: 7798.00

3.2 base_alpha1_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02227	$0.02227^{+0.00059}_{-0.00057}$	β_2^1	0.21	$0.1^{+1.9}_{-1.9}$	σ_8	0.0685	$0.831^{+0.020}_{-0.019}$
$\Omega_c h^2$	0.12021	$0.1205^{+0.0046}_{-0.0045}$	β_3^1	-0.05	$0.0^{+1.9}_{-2.0}$	z_{re}	11.45	$11.8^{+2.3}_{-2.2}$
θ	1.04094	$1.0408^{+0.0013}_{-0.0013}$	β_4^1	0.02	$0.0^{+2.0}_{-2.0}$	H_0	67.21	$67.1^{+2.1}_{-2.1}$
τ	0.0944	$0.098^{+0.030}_{-0.026}$	β_5^1	0.08	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.224	$2.24^{+0.13}_{-0.11}$
α_{-1}	-0.0017	$-0.0036^{+0.0036}_{-0.0069}$	β_1^2	-0.19	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.14313	$0.1434^{+0.0044}_{-0.0043}$
n_s	0.9562	$0.953^{+0.016}_{-0.016}$	β_2^2	-0.10	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09620	$0.0962^{+0.0012}_{-0.0011}$
$\log[10^{10} A_s]$	3.102	$3.110^{+0.055}_{-0.049}$	β_3^2	-0.12	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247799	$0.24780^{+0.00025}_{-0.00024}$
A_{100}^{PS}	147	154^{+100}_{-100}	β_4^2	-0.01	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8412	$1.842^{+0.023}_{-0.023}$
A_{143}^{PS}	55.3	52^{+30}_{-30}	β_5^2	-0.16	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.807	$13.812^{+0.089}_{-0.092}$
A_{217}^{PS}	125.9	117^{+30}_{-30}	β_1^3	-0.02	$-0.1^{+1.9}_{-1.9}$	z_*	1090.16	$1090.19^{+0.99}_{-0.99}$
A_{143}^{CIB}	7.13	—	β_2^3	-0.02	$-0.1^{+1.9}_{-2.0}$	r_*	144.44	$144.4^{+1.1}_{-1.0}$
A_{217}^{CIB}	20.8	22^{+10}_{-10}	β_3^3	0.03	$-0.1^{+2.0}_{-2.0}$	θ_*	1.04107	$1.0409^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	7.31	—	β_4^3	-0.15	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.82	$1059.8^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.781	> 0.664	β_5^3	0.00	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.13	$147.1^{+1.1}_{-1.1}$
r_{CIB}	0.587	—	β_1^4	-0.13	$-0.1^{+2.0}_{-1.9}$	k_D	0.14065	$0.1407^{+0.0012}_{-0.0013}$
n^{CIB}	0.165	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.09	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16100	$0.16097^{+0.00074}_{-0.00073}$
$c_{100/143}$	1.00061	$1.00062^{+0.00079}_{-0.00078}$	β_3^4	-0.15	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3405	3411^{+110}_{-100}
$c_{217/143}$	0.99664	$0.9965^{+0.0026}_{-0.0026}$	β_4^4	0.097	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8126	$0.811^{+0.020}_{-0.019}$
$\xi^{tSZ-CIB}$	0.26	—	β_5^4	-0.02	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07128	$0.0712^{+0.0016}_{-0.0015}$
A^{kSZ}	0.0	—	Ω_Λ	0.6832	$0.681^{+0.028}_{-0.030}$	$H(0.57)$	0.00030983	$0.0003097^{+0.0000032}_{-0.0000030}$
β_1^1	0.55	$0.6^{+1.7}_{-1.7}$	Ω_m	0.3168	$0.319^{+0.030}_{-0.028}$	$DA(0.57)$	1392.5	1394^{+28}_{-28}

Best-fit $\chi_{\text{eff}}^2 = 9812.47$; R-1 = 0.00932

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.35 lensing_likelihood_v3.ref.clik.lensing: 11.17 commander_v3.light.clik: -10.53 CAMspec_v6.2TN_2013_01_18.c
7797.48

3.3 base_alpha1_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02225	$0.02233^{+0.00055}_{-0.00054}$	β_2^1	0.13	$0.1^{+1.9}_{-1.9}$	σ_8	0.8263	$0.828^{+0.026}_{-0.024}$
$\Omega_c h^2$	0.11884	$0.1190^{+0.0036}_{-0.0033}$	β_3^1	-0.04	$0.0^{+1.9}_{-2.0}$	z_{re}	11.52	$11.9^{+2.4}_{-2.3}$
θ	1.04114	$1.0411^{+0.0012}_{-0.0012}$	β_4^1	0.10	$0.0^{+2.0}_{-2.0}$	H_0	67.74	$67.7^{+1.5}_{-1.6}$
τ	0.0955	$0.100^{+0.031}_{-0.028}$	β_5^1	-0.07	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.220	$2.24^{+0.14}_{-0.12}$
α_{-1}	-0.0009	$-0.0032^{+0.0035}_{-0.0065}$	β_1^2	0.20	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.14173	$0.1420^{+0.0034}_{-0.0033}$
n_s	0.9605	$0.957^{+0.014}_{-0.014}$	β_2^2	0.00	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09601	$0.0961^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.110^{+0.062}_{-0.056}$	β_3^2	-0.02	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247786	$0.24782^{+0.00023}_{-0.00023}$
A_{100}^{PS}	185	152^{+100}_{-100}	β_4^2	0.10	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8342	$1.835^{+0.020}_{-0.020}$
A_{143}^{PS}	57.5	51^{+30}_{-30}	β_5^2	0.10	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.798	$13.792^{+0.075}_{-0.076}$
A_{217}^{PS}	123.6	117^{+30}_{-30}	β_1^3	-0.05	$-0.1^{+1.9}_{-1.9}$	z_*	1090.08	$1089.98^{+0.83}_{-0.81}$
A_{143}^{CIB}	10.2	—	β_2^3	-0.14	$-0.1^{+1.9}_{-2.0}$	r_*	144.82	$144.72^{+0.87}_{-0.89}$
A_{217}^{CIB}	22.6	22^{+10}_{-10}	β_3^3	0.05	$-0.1^{+2.0}_{-2.0}$	θ_*	1.04128	$1.0412^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	3.23	—	β_4^3	0.03	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.793	> 0.665	β_5^3	-0.13	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.53	$147.40^{+0.95}_{-0.96}$
r_{CIB}	0.447	—	β_1^4	0.14	$-0.1^{+2.0}_{-1.9}$	k_D	0.14021	$0.1404^{+0.0012}_{-0.0012}$
n^{CIB}	0.282	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.08	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16111	$0.16098^{+0.00075}_{-0.00073}$
$c_{100/143}$	1.00061	$1.00062^{+0.00079}_{-0.00078}$	β_3^4	0.03	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3371	3377^{+82}_{-78}
$c_{217/143}$	0.99647	$0.9965^{+0.0025}_{-0.0026}$	β_4^4	-0.06	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8187	$0.818^{+0.015}_{-0.015}$
$\xi^{tSZ-CIB}$	0.34	—	β_5^4	0.21	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07174	$0.0717^{+0.0012}_{-0.0012}$
A^{kSZ}	0.3	—	Ω_Λ	0.6911	$0.690^{+0.020}_{-0.022}$	$H(0.57)$	0.00031038	$0.0003105^{+0.0000025}_{-0.0000024}$
β_1^1	0.47	$0.5^{+1.7}_{-1.6}$	Ω_m	0.3089	$0.310^{+0.022}_{-0.020}$	$DA(0.57)$	1385.9	1386^{+21}_{-21}

Best-fit $\chi_{\text{eff}}^2 = 9804.00$; R-1 = 0.01270

χ_{eff}^2 : BAO - DR7: 1.26 6DF: 0.01 DR9: 0.23 CMB - lowlike.v22.light.clik: 2014.36 commander.v3.light.clik: -10.26 CAMspec.v6.2TN.2013.01.18.clik: 7798.41

3.4 base_alpha1_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02239	$0.02244^{+0.00061}_{-0.00056}$	β_2^1	0.07	$0.1^{+1.9}_{-1.9}$	σ_8	0.8236	$0.825^{+0.027}_{-0.025}$
$\Omega_c h^2$	0.11753	$0.1178^{+0.0049}_{-0.0048}$	β_3^1	-0.02	$0.0^{+1.9}_{-2.0}$	z_{re}	11.75	$12.0^{+2.4}_{-2.3}$
θ	1.04146	$1.0413^{+0.0013}_{-0.0013}$	β_4^1	-0.10	$0.0^{+2.0}_{-2.0}$	H_0	68.43	$68.3^{+2.2}_{-2.2}$
τ	0.0992	$0.103^{+0.032}_{-0.028}$	β_5^1	-0.01	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.228	$2.25^{+0.15}_{-0.12}$
α_{-1}	-0.0010	$-0.0030^{+0.0036}_{-0.0067}$	β_1^2	-0.05	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14057	$0.1409^{+0.0047}_{-0.0046}$
n_s	0.9632	$0.961^{+0.017}_{-0.016}$	β_2^2	0.05	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09620	$0.0962^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.104	$3.113^{+0.064}_{-0.057}$	β_3^2	-0.05	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247850	$0.24787^{+0.00026}_{-0.00024}$
A_{100}^{PS}	158	150^{+100}_{-100}	β_4^2	0.09	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8275	$1.830^{+0.026}_{-0.026}$
A_{143}^{PS}	53.0	50^{+30}_{-30}	β_5^2	-0.12	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.768	$13.769^{+0.090}_{-0.095}$
A_{217}^{PS}	123.6	117^{+30}_{-30}	β_1^3	-0.05	$-0.1^{+1.9}_{-1.9}$	z_*	1089.77	$1089.74^{+0.97}_{-0.98}$
A_{143}^{CIB}	8.80	—	β_2^3	-0.01	$-0.1^{+1.9}_{-2.0}$	r_*	145.04	$144.9^{+1.2}_{-1.2}$
A_{217}^{CIB}	21.7	21^{+10}_{-10}	β_3^3	-0.14	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04158	$1.0414^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.46	—	β_4^3	-0.12	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.89	$1060.0^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.778	> 0.664	β_5^3	-0.07	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.71	$147.6^{+1.2}_{-1.2}$
r_{CIB}	0.574	—	β_1^4	-0.07	$-0.1^{+2.0}_{-2.0}$	k_D	0.14013	$0.1403^{+0.0014}_{-0.0014}$
n^{CIB}	0.188	$0.24^{+0.26}_{-0.31}$	β_2^4	0.00	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16100	$0.16090^{+0.00074}_{-0.00073}$
$c_{100/143}$	1.00062	$1.00062^{+0.00080}_{-0.00079}$	β_3^4	-0.05	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3344	3350^{+110}_{-110}
$c_{217/143}$	0.99660	$0.9965^{+0.0026}_{-0.0026}$	β_4^4	0.06	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8244	$0.823^{+0.021}_{-0.021}$
$\xi^{tSZ-CIB}$	0.29	—	β_5^4	0.10	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07225	$0.0722^{+0.0018}_{-0.0017}$
A^{kSZ}	0.4	—	Ω_Λ	0.6998	$0.698^{+0.028}_{-0.030}$	$H(0.57)$	0.00031148	$0.0003114^{+0.0000035}_{-0.0000032}$
β_1^1	0.39	$0.5^{+1.7}_{-1.6}$	Ω_m	0.3002	$0.302^{+0.030}_{-0.028}$	$DA(0.57)$	1376.5	1378^{+29}_{-29}

Best-fit $\chi_{\text{eff}}^2 = 9807.83$; R-1 = 0.01885

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.48 commander_v3.light.clik: -10.58 CAMspec_v6.2TN_2013.01.18.clik: 7798.94 Hubble - HST: 4.99

3.5 base_alpha1_planck_CAMspec_lowl_lowLike_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02232	$0.02235^{+0.00060}_{-0.00057}$	β_2^1	0.02	$0.1^{+1.9}_{-1.9}$	σ_8	0.8240	$0.827^{+0.027}_{-0.024}$
$\Omega_c h^2$	0.1186	$0.1188^{+0.0051}_{-0.0049}$	β_3^1	0.097	$0.0^{+1.9}_{-2.0}$	z_{re}	11.52	$11.9^{+2.4}_{-2.3}$
θ	1.04120	$1.0411^{+0.0013}_{-0.0013}$	β_4^1	-0.27	$0.0^{+2.0}_{-2.0}$	H_0	67.91	$67.8^{+2.3}_{-2.3}$
τ	0.0959	$0.101^{+0.032}_{-0.028}$	β_5^1	0.00	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.221	$2.24^{+0.14}_{-0.12}$
α_{-1}	-0.0016	$-0.0032^{+0.0036}_{-0.0067}$	β_1^2	-0.15	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14155	$0.1418^{+0.0049}_{-0.0047}$
n_s	0.9592	$0.958^{+0.017}_{-0.017}$	β_2^2	-0.11	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09614	$0.0962^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.111^{+0.062}_{-0.056}$	β_3^2	-0.17	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247820	$0.24783^{+0.00025}_{-0.00024}$
A_{100}^{PS}	183	152^{+100}_{-100}	β_4^2	0.26	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8331	$1.834^{+0.026}_{-0.026}$
A_{143}^{PS}	52.8	51^{+30}_{-30}	β_5^2	-0.09	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.787	$13.789^{+0.091}_{-0.095}$
A_{217}^{PS}	120.3	117^{+30}_{-30}	β_1^3	-0.18	$-0.1^{+1.9}_{-1.9}$	z_*	1089.95	$1089.9^{+1.0}_{-1.0}$
A_{143}^{CIB}	10.8	—	β_2^3	-0.25	$-0.1^{+1.9}_{-2.0}$	r_*	144.82	$144.8^{+1.2}_{-1.2}$
A_{217}^{CIB}	24.1	22^{+10}_{-10}	β_3^3	-0.14	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04133	$1.0412^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.88	—	β_4^3	-0.18	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.82	$1059.9^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.789	> 0.665	β_5^3	-0.03	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.51	$147.4^{+1.2}_{-1.2}$
r_{CIB}	0.529	—	β_1^4	-0.20	$-0.1^{+2.0}_{-2.0}$	k_D	0.14029	$0.1404^{+0.0014}_{-0.0014}$
n^{CIB}	0.266	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.19	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16102	$0.16096^{+0.00075}_{-0.00073}$
$c_{100/143}$	1.00062	$1.00062^{+0.00079}_{-0.00079}$	β_3^4	-0.22	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3367	3372^{+120}_{-110}
$c_{217/143}$	0.99642	$0.9965^{+0.0025}_{-0.0026}$	β_4^4	0.09	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8197	$0.819^{+0.022}_{-0.022}$
$\xi^{tSZ-CIB}$	0.22	—	β_5^4	0.18	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07185	$0.0718^{+0.0018}_{-0.0017}$
A^{kSZ}	0.0	—	Ω_Λ	0.6931	$0.692^{+0.029}_{-0.032}$	$H(0.57)$	0.00031072	$0.0003107^{+0.0000034}_{-0.0000032}$
β_1^1	0.34	$0.5^{+1.7}_{-1.6}$	Ω_m	0.3069	$0.308^{+0.032}_{-0.029}$	$DA(0.57)$	1383.4	1384^{+30}_{-31}

Best-fit $\chi_{\text{eff}}^2 = 10231.69$; R-1 = 0.01117

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.30 commander_v3.light.clik: -10.79 CAMspec_v6.2TN_2013_01_18.clik: 7799.07 SN - SNLS April_2012: 429.12

3.6 base_alpha1_planck_CAMspec_lowl_lowLike_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02227^{+0.00059}_{-0.00057}$	β_2^1	-0.14	$0.1^{+1.9}_{-1.9}$	σ_8	0.8285	$0.830^{+0.026}_{-0.025}$
$\Omega_c h^2$	0.1196	$0.1201^{+0.0052}_{-0.0050}$	β_3^1	-0.08	$0.0^{+1.9}_{-2.0}$	z_{re}	11.54	$11.8^{+2.4}_{-2.3}$
θ	1.04111	$1.0409^{+0.0013}_{-0.0014}$	β_4^1	0.01	$0.0^{+2.0}_{-2.0}$	H_0	67.41	$67.3^{+2.3}_{-2.3}$
τ	0.0953	$0.099^{+0.031}_{-0.028}$	β_5^1	0.14	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.221	$2.24^{+0.14}_{-0.12}$
α_{-1}	-0.0009	$-0.0035^{+0.0036}_{-0.0069}$	β_1^2	0.08	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.14249	$0.1430^{+0.0050}_{-0.0048}$
n_s	0.9576	$0.954^{+0.017}_{-0.017}$	β_2^2	-0.02	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09606	$0.0961^{+0.0012}_{-0.0011}$
$\log[10^{10} A_s]$	3.100	$3.110^{+0.061}_{-0.055}$	β_3^2	-0.25	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247768	$0.24780^{+0.00025}_{-0.00024}$
A_{100}^{PS}	187	153^{+100}_{-100}	β_4^2	0.33	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8354	$1.840^{+0.027}_{-0.026}$
A_{143}^{PS}	57.1	52^{+30}_{-30}	β_5^2	-0.32	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.806	$13.808^{+0.092}_{-0.095}$
A_{217}^{PS}	115.8	118^{+30}_{-30}	β_1^3	-0.02	$-0.1^{+1.9}_{-1.9}$	z_*	1090.20	$1090.2^{+1.0}_{-1.0}$
A_{143}^{CIB}	14.8	—	β_2^3	-0.40	$-0.1^{+1.9}_{-2.0}$	r_*	144.64	$144.5^{+1.2}_{-1.2}$
A_{217}^{CIB}	26.3	22^{+10}_{-10}	β_3^3	-0.02	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04126	$1.0410^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.63	—	β_4^3	-0.08	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.59	$1059.8^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.800	> 0.666	β_5^3	-0.08	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.37	$147.2^{+1.2}_{-1.2}$
r_{CIB}	0.584	—	β_1^4	0.06	$-0.1^{+2.0}_{-1.9}$	k_D	0.14035	$0.1406^{+0.0014}_{-0.0014}$
n^{CIB}	0.280	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.07	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16114	$0.16100^{+0.00075}_{-0.00073}$
$c_{100/143}$	1.00060	$1.00062^{+0.00079}_{-0.00078}$	β_3^4	-0.19	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3389	3401^{+120}_{-120}
$c_{217/143}$	0.99652	$0.9965^{+0.0025}_{-0.0026}$	β_4^4	0.17	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8153	$0.813^{+0.022}_{-0.022}$
$\xi^{tSZ-CIB}$	0.72	—	β_5^4	0.20	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07149	$0.0713^{+0.0018}_{-0.0017}$
A^{kSZ}	0.0	—	Ω_Λ	0.6865	$0.683^{+0.031}_{-0.034}$	$H(0.57)$	0.00030998	$0.0003099^{+0.0000034}_{-0.0000032}$
β_1^1	0.20	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3135	$0.317^{+0.034}_{-0.031}$	$DA(0.57)$	1390.1	1392^{+31}_{-31}

Best-fit $\chi_{\text{eff}}^2 = 9933.33$; R-1 = 0.00878

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.41 commander.v3.light.clik: -9.84 CAMspec.v6.2TN_2013_01_18.clik: 7798.25 SN - Union2.1: 130.51

3.7 base_alpha1_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02218	$0.02243^{+0.00075}_{-0.00072}$	β_2^1	0.31	$0.1^{+1.9}_{-1.9}$	σ_8	0.829	$0.858^{+0.056}_{-0.063}$
$\Omega_c h^2$	0.1200	$0.1194^{+0.0067}_{-0.0064}$	β_3^1	0.10	$0.0^{+1.9}_{-1.9}$	z_{re}	11.5	$14.4^{+5.4}_{-7.6}$
θ	1.04108	$1.0409^{+0.0015}_{-0.0014}$	β_4^1	-0.22	$0.0^{+2.0}_{-2.0}$	H_0	67.27	$67.6^{+3.1}_{-3.0}$
τ	0.095	$0.135^{+0.080}_{-0.090}$	β_5^1	-0.06	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.221	$2.42^{+0.39}_{-0.39}$
α_{-1}	-0.0009	$-0.0050^{+0.0049}_{-0.0099}$	β_1^2	-0.14	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1428	$0.1425^{+0.0063}_{-0.0060}$
n_s	0.9566	$0.958^{+0.022}_{-0.021}$	β_2^2	-0.04	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09606	$0.0963^{+0.0013}_{-0.0012}$
$\log[10^{10} A_s]$	3.101	$3.18^{+0.15}_{-0.17}$	β_3^2	0.24	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247760	$0.24786^{+0.00032}_{-0.00031}$
A_{100}^{PS}	143	144^{+100}_{-100}	β_4^2	-0.01	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8370	$1.838^{+0.033}_{-0.031}$
A_{143}^{PS}	44	50^{+30}_{-30}	β_5^2	-0.46	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.811	$13.79^{+0.12}_{-0.12}$
A_{217}^{PS}	122.4	118^{+30}_{-30}	β_1^3	-0.28	$-0.1^{+1.9}_{-1.9}$	z_*	1090.25	$1089.9^{+1.4}_{-1.3}$
A_{143}^{CIB}	8.65	—	β_2^3	-0.20	$-0.1^{+1.9}_{-2.0}$	r_*	144.57	$144.5^{+1.4}_{-1.4}$
A_{217}^{CIB}	21.9	21^{+10}_{-9}	β_3^3	0.09	$0.0^{+2.0}_{-2.0}$	θ_*	1.04122	$1.0410^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	8.00	—	β_4^3	-0.22	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.59	$1060.1^{+1.5}_{-1.5}$
$r_{PS143/217}$	0.818	> 0.668	β_5^3	-0.18	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.30	$147.2^{+1.4}_{-1.4}$
r_{CIB}	0.567	—	β_1^4	-0.41	$-0.1^{+2.0}_{-1.9}$	k_D	0.14040	$0.1407^{+0.0015}_{-0.0014}$
n^{CIB}	0.214	$0.24^{+0.26}_{-0.31}$	β_2^4	0.29	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16115	$0.16081^{+0.00087}_{-0.00083}$
$c_{100/143}$	1.00056	$1.00062^{+0.00077}_{-0.00078}$	β_3^4	-0.22	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3397	3389^{+150}_{-140}
$c_{217/143}$	0.99636	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.09	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8139	$0.816^{+0.028}_{-0.028}$
$\xi^{tSZ-CIB}$	0.14	—	β_5^4	-0.13	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07138	$0.0716^{+0.0023}_{-0.0022}$
A^{kSZ}	2.02	—	Ω_Λ	0.6845	$0.688^{+0.039}_{-0.043}$	$H(0.57)$	0.00030980	$0.0003106^{+0.000047}_{-0.000042}$
β_1^1	0.60	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3155	$0.312^{+0.043}_{-0.039}$	$DA(0.57)$	1392.0	1387^{+41}_{-41}

Best-fit $\chi_{\text{eff}}^2 = 7787.77$; R-1 = 0.01912

χ_{eff}^2 : CMB - commander.v3.light.clik: -9.68 CAMspec.v6.2TN_2013_01_18.clik: 7797.45

3.8 base_alpha1_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02224	$0.02243^{+0.00072}_{-0.00068}$	β_2^1	0.09	$0.1^{+1.9}_{-1.9}$	σ_8	0.0686	$0.843^{+0.036}_{-0.037}$
$\Omega_c h^2$	0.1199	$0.1187^{+0.0067}_{-0.0064}$	β_3^1	0.03	$0.0^{+2.0}_{-1.9}$	z_{re}	11.53	$13.4^{+4.4}_{-5.4}$
θ	1.04104	$1.0410^{+0.0014}_{-0.0014}$	β_4^1	0.07	$0.0^{+2.0}_{-2.0}$	H_0	67.32	$67.9^{+3.0}_{-3.0}$
τ	0.095	$0.122^{+0.065}_{-0.066}$	β_5^1	-0.09	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.226	$2.34^{+0.29}_{-0.27}$
α_{-1}	-0.0011	$-0.0041^{+0.0040}_{-0.0079}$	β_1^2	0.05	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1428	$0.1418^{+0.0063}_{-0.0059}$
n_s	0.9578	$0.958^{+0.022}_{-0.022}$	β_2^2	-0.07	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09613	$0.0962^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.103	$3.15^{+0.12}_{-0.12}$	β_3^2	-0.05	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247784	$0.24786^{+0.00030}_{-0.00029}$
A_{100}^{PS}	185	149^{+100}_{-100}	β_4^2	0.00	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8397	$1.834^{+0.032}_{-0.031}$
A_{143}^{PS}	54.9	50^{+30}_{-30}	β_5^2	-0.19	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.806	$13.78^{+0.12}_{-0.12}$
A_{217}^{PS}	121.8	117^{+30}_{-30}	β_1^3	-0.14	$-0.1^{+1.9}_{-1.8}$	z_*	1090.18	$1089.8^{+1.3}_{-1.3}$
A_{143}^{CIB}	10.2	—	β_2^3	-0.17	$-0.1^{+1.9}_{-2.0}$	r_*	144.54	$144.7^{+1.4}_{-1.4}$
A_{217}^{CIB}	22.8	21^{+10}_{-10}	β_3^3	0.01	$0.0^{+2.0}_{-1.9}$	θ_*	1.04117	$1.0411^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	3.72	—	β_4^3	-0.14	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.70	$1060.0^{+1.4}_{-1.3}$
$r_{PS143/217}$	0.789	> 0.662	β_5^3	-0.06	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.25	$147.4^{+1.3}_{-1.4}$
r_{CIB}	0.472	—	β_1^4	-0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.14049	$0.1405^{+0.0014}_{-0.0013}$
n^{CIB}	0.270	$0.24^{+0.27}_{-0.31}$	β_2^4	-0.01	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16107	$0.16085^{+0.00079}_{-0.00077}$
$c_{100/143}$	1.00059	$1.00061^{+0.00077}_{-0.00077}$	β_3^4	-0.17	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3397	3373^{+150}_{-140}
$c_{217/143}$	0.99648	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.03	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8140	$0.819^{+0.028}_{-0.028}$
$\xi^{tSZ-CIB}$	0.31	—	β_5^4	0.02	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07139	$0.0718^{+0.0023}_{-0.0023}$
A^{kSZ}	0.3	—	Ω_Λ	0.6849	$0.692^{+0.038}_{-0.043}$	$H(0.57)$	0.00030992	$0.0003109^{+0.000047}_{-0.000043}$
β_1^1	0.50	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3151	$0.308^{+0.043}_{-0.038}$	$DA(0.57)$	1391.2	1384^{+41}_{-40}

Best-fit $\chi_{\text{eff}}^2 = 7798.61$; R-1 = 0.01466

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik.lensing: 11.16 commander.v3.light.clik: -10.11 CAMspec.v6.2TN_2013_01_18.clik: 7797.56

3.9 base_alpha1_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02223	$0.02251^{+0.00060}_{-0.00061}$	β_2^1	-0.09	$0.1^{+1.9}_{-1.9}$	σ_8	0.825	$0.861^{+0.053}_{-0.060}$
$\Omega_c h^2$	0.11881	$0.1183^{+0.0037}_{-0.0036}$	β_3^1	-0.10	$0.0^{+2.0}_{-1.9}$	z_{re}	11.5	$15.1^{+4.7}_{-6.2}$
θ	1.04126	$1.0411^{+0.0012}_{-0.0012}$	β_4^1	-0.12	$0.0^{+2.0}_{-2.0}$	H_0	67.78	$68.1^{+1.7}_{-1.7}$
τ	0.095	$0.144^{+0.069}_{-0.078}$	β_5^1	-0.08	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.214	$2.45^{+0.35}_{-0.36}$
α_{-1}	-0.0008	$-0.0049^{+0.0048}_{-0.0096}$	β_1^2	0.00	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14168	$0.1414^{+0.0035}_{-0.0034}$
n_s	0.9589	$0.961^{+0.015}_{-0.015}$	β_2^2	0.01	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09603	$0.0964^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.097	$3.20^{+0.14}_{-0.15}$	β_3^2	-0.39	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247780	$0.24790^{+0.00025}_{-0.00026}$
A_{100}^{PS}	180	143^{+100}_{-100}	β_4^2	0.08	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8310	$1.833^{+0.020}_{-0.020}$
A_{143}^{PS}	47.9	50^{+30}_{-30}	β_5^2	-0.15	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.796	$13.771^{+0.083}_{-0.083}$
A_{217}^{PS}	117.7	118^{+30}_{-30}	β_1^3	-0.21	$-0.1^{+1.9}_{-1.8}$	z_*	1090.09	$1089.70^{+0.93}_{-0.90}$
A_{143}^{CIB}	12.7	—	β_2^3	-0.14	$-0.1^{+1.9}_{-2.0}$	r_*	144.84	$144.76^{+0.88}_{-0.89}$
A_{217}^{CIB}	25.1	20^{+10}_{-9}	β_3^3	0.10	$0.0^{+2.0}_{-1.9}$	θ_*	1.04140	$1.0412^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	6.03	—	β_4^3	-0.32	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.59	$1060.2^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.786	> 0.668	β_5^3	-0.14	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.56	$147.39^{+0.94}_{-0.95}$
r_{CIB}	0.602	—	β_1^4	-0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.14017	$0.1406^{+0.0012}_{-0.0012}$
n^{CIB}	0.236	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.21	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16115	$0.16076^{+0.00080}_{-0.00076}$
$c_{100/143}$	1.00058	$1.00062^{+0.00077}_{-0.00078}$	β_3^4	-0.14	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3370	3364^{+84}_{-81}
$c_{217/143}$	0.99652	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	0.29	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8190	$0.821^{+0.016}_{-0.016}$
$\xi^{tSZ-CIB}$	0.28	—	β_5^4	-0.04	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07178	$0.0719^{+0.0013}_{-0.0013}$
A^{kSZ}	0.3	—	Ω_Λ	0.6916	$0.695^{+0.021}_{-0.023}$	$H(0.57)$	0.00031045	$0.0003112^{+0.000028}_{-0.000027}$
β_1^1	0.29	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3084	$0.305^{+0.023}_{-0.021}$	$DA(0.57)$	1385.4	1380^{+23}_{-23}

Best-fit $\chi_{\text{eff}}^2 = 7789.68$; R-1 = 0.01531

χ_{eff}^2 : BAO - DR7: 1.18 6DF: 0.01 DR9: 0.26 CMB - commander.v3.light.clik: -10.00 CAMspec.v6.2TN_2013_01_18.clik: 7798.23

3.10 base_alpha1_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02237	$0.02276^{+0.00071}_{-0.00068}$	β_2^1	-0.06	$0.1^{+1.9}_{-1.8}$	σ_8	0.822	$0.870^{+0.054}_{-0.060}$
$\Omega_c h^2$	0.1176	$0.1157^{+0.0055}_{-0.0055}$	β_3^1	0.03	$0.0^{+2.0}_{-2.0}$	z_{re}	11.6	$16.5^{+4.6}_{-6.1}$
θ	1.04136	$1.0415^{+0.0013}_{-0.0013}$	β_4^1	-0.07	$0.0^{+2.0}_{-2.0}$	H_0	68.36	$69.4^{+2.7}_{-2.6}$
τ	0.098	$0.167^{+0.074}_{-0.083}$	β_5^1	-0.03	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.55^{+0.38}_{-0.38}$
α_{-1}	-0.0009	$-0.0054^{+0.0052}_{-0.011}$	β_1^2	0.01	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1406	$0.1391^{+0.0052}_{-0.0052}$
n_s	0.9621	$0.969^{+0.020}_{-0.019}$	β_2^2	-0.11	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09611	$0.0965^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.24^{+0.14}_{-0.16}$	β_3^2	0.08	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247838	$0.24800^{+0.00029}_{-0.00029}$
A_{100}^{PS}	165	136^{+100}_{-100}	β_4^2	0.00	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8262	$1.821^{+0.027}_{-0.027}$
A_{143}^{PS}	42	47^{+30}_{-30}	β_5^2	-0.21	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.774	$13.72^{+0.11}_{-0.11}$
A_{217}^{PS}	118.8	118^{+20}_{-30}	β_1^3	0.03	$-0.1^{+1.9}_{-1.8}$	z_*	1089.81	$1089.2^{+1.2}_{-1.2}$
A_{143}^{CIB}	10.5	—	β_2^3	-0.05	$-0.1^{+1.9}_{-2.0}$	r_*	145.06	$145.3^{+1.2}_{-1.2}$
A_{217}^{CIB}	24.4	$19.4^{+12}_{-9.0}$	β_3^3	-0.02	$0.0^{+2.0}_{-1.9}$	θ_*	1.04149	$1.0415^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	7.29	—	β_4^3	-0.14	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.82	$1060.6^{+1.4}_{-1.4}$
$r_{PS143/217}$	0.786	> 0.667	β_5^3	-0.25	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.74	$147.8^{+1.2}_{-1.2}$
r_{CIB}	0.605	—	β_1^4	0.00	$-0.1^{+1.9}_{-1.9}$	k_D	0.14008	$0.1403^{+0.0013}_{-0.0014}$
n^{CIB}	0.219	$0.23^{+0.27}_{-0.31}$	β_2^4	0.11	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16102	$0.16058^{+0.00082}_{-0.00077}$
$c_{100/143}$	1.00061	$1.00061^{+0.00075}_{-0.00076}$	β_3^4	-0.17	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3344	3308^{+120}_{-120}
$c_{217/143}$	0.99646	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	-0.10	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8242	$0.832^{+0.025}_{-0.024}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.04	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07221	$0.0729^{+0.0021}_{-0.0020}$
A^{kSZ}	0.0	—	Ω_Λ	0.6992	$0.711^{+0.031}_{-0.033}$	$H(0.57)$	0.00031131	$0.0003132^{+0.000044}_{-0.000039}$
β_1^1	0.37	$0.4^{+1.6}_{-1.7}$	Ω_m	0.3008	$0.289^{+0.033}_{-0.031}$	$DA(0.57)$	1377.5	1363^{+34}_{-35}

Best-fit $\chi_{\text{eff}}^2 = 7793.47$; R-1 = 0.02099

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.44 CAMspec.v6.2TN_2013_01_18.clik: 7798.79 Hubble - HST: 5.12

3.11 base_alpha1_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02230	$0.02263^{+0.00072}_{-0.00070}$	β_2^1	0.11	$0.1^{+1.9}_{-1.8}$	σ_8	0.825	$0.865^{+0.055}_{-0.062}$
$\Omega_c h^2$	0.1186	$0.1169^{+0.0058}_{-0.0059}$	β_3^1	0.08	$0.0^{+2.0}_{-2.0}$	z_{re}	11.5	$15.8^{+4.9}_{-6.5}$
θ	1.04124	$1.0413^{+0.0014}_{-0.0014}$	β_4^1	0.02	$0.0^{+2.0}_{-2.0}$	H_0	67.91	$68.8^{+2.8}_{-2.7}$
τ	0.096	$0.156^{+0.077}_{-0.085}$	β_5^1	-0.06	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.221	$2.50^{+0.38}_{-0.39}$
α_{-1}	-0.0010	$-0.0051^{+0.0050}_{-0.010}$	β_1^2	-0.12	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1415	$0.1401^{+0.0055}_{-0.0055}$
n_s	0.9608	$0.965^{+0.021}_{-0.020}$	β_2^2	-0.14	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09611	$0.0964^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.22^{+0.15}_{-0.16}$	β_3^2	-0.03	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247811	$0.24795^{+0.00030}_{-0.00030}$
A_{100}^{PS}	176	139^{+100}_{-100}	β_4^2	-0.13	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8330	$1.826^{+0.029}_{-0.029}$
A_{143}^{PS}	56.7	48^{+30}_{-30}	β_5^2	-0.15	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.788	$13.75^{+0.11}_{-0.12}$
A_{217}^{PS}	122.6	118^{+20}_{-30}	β_1^3	-0.18	$-0.1^{+1.9}_{-1.8}$	z_*	1089.98	$1089.4^{+1.2}_{-1.2}$
A_{143}^{CIB}	9.60	—	β_2^3	-0.18	$-0.1^{+1.9}_{-2.0}$	r_*	144.84	$145.0^{+1.3}_{-1.3}$
A_{217}^{CIB}	22.8	$19.9^{+12}_{-9.2}$	β_3^3	-0.11	$0.0^{+2.0}_{-1.9}$	θ_*	1.04137	$1.0414^{+0.0013}_{-0.0014}$
A_{143}^{tSZ}	4.24	—	β_4^3	-0.03	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.74	$1060.4^{+1.4}_{-1.4}$
$r_{PS143/217}$	0.802	> 0.668	β_5^3	-0.21	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.54	$147.6^{+1.3}_{-1.3}$
r_{CIB}	0.472	—	β_1^4	-0.18	$-0.1^{+1.9}_{-1.9}$	k_D	0.14025	$0.1404^{+0.0014}_{-0.0014}$
n^{CIB}	0.272	$0.23^{+0.27}_{-0.31}$	β_2^4	-0.11	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16106	$0.16068^{+0.00083}_{-0.00079}$
$c_{100/143}$	1.00061	$1.00062^{+0.00076}_{-0.00077}$	β_3^4	-0.22	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3366	3333^{+130}_{-130}
$c_{217/143}$	0.99643	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	-0.19	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8198	$0.827^{+0.027}_{-0.025}$
$\xi^{tSZ-CIB}$	0.32	—	β_5^4	-0.10	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07186	$0.0725^{+0.0022}_{-0.0020}$
A^{kSZ}	0.3	—	Ω_Λ	0.6931	$0.704^{+0.034}_{-0.037}$	$H(0.57)$	0.00031069	$0.0003122^{+0.000045}_{-0.000040}$
β_1^1	0.38	$0.4^{+1.7}_{-1.7}$	Ω_m	0.3069	$0.296^{+0.037}_{-0.034}$	$DA(0.57)$	1383.5	1371^{+37}_{-37}

Best-fit $\chi_{\text{eff}}^2 = 8217.28$; R-1 = 0.01500

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.36 CAMspec.v6.2TN.2013.01.18.clik: 7798.53 SN - SNLS April.2012: 429.12

3.12 base_alpha1_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02250^{+0.00071}_{-0.00070}$	β_2^1	0.29	$0.1^{+1.9}_{-1.9}$	σ_8	0.828	$0.861^{+0.055}_{-0.061}$
$\Omega_c h^2$	0.1198	$0.1185^{+0.0061}_{-0.0059}$	β_3^1	0.20	$0.0^{+2.0}_{-2.0}$	z_{re}	11.5	$15.0^{+5.1}_{-7.0}$
θ	1.04101	$1.0410^{+0.0014}_{-0.0014}$	β_4^1	-0.15	$0.0^{+2.0}_{-2.0}$	H_0	67.30	$68.0^{+2.8}_{-2.8}$
τ	0.095	$0.143^{+0.078}_{-0.087}$	β_5^1	-0.08	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.223	$2.45^{+0.38}_{-0.38}$
α_{-1}	-0.0014	$-0.0050^{+0.0049}_{-0.0096}$	β_1^2	-0.33	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1427	$0.1417^{+0.0057}_{-0.0055}$
n_s	0.9558	$0.960^{+0.021}_{-0.020}$	β_2^2	0.03	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09602	$0.0963^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.101	$3.19^{+0.15}_{-0.17}$	β_3^2	0.35	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247765	$0.24789^{+0.00030}_{-0.00030}$
A_{100}^{PS}	172	143^{+100}_{-100}	β_4^2	0.18	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8377	$1.834^{+0.030}_{-0.029}$
A_{143}^{PS}	48.2	50^{+30}_{-30}	β_5^2	0.03	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.811	$13.77^{+0.11}_{-0.11}$
A_{217}^{PS}	118.8	118^{+30}_{-30}	β_1^3	-0.28	$-0.1^{+1.9}_{-1.8}$	z_*	1090.23	$1089.7^{+1.3}_{-1.2}$
A_{143}^{CIB}	9.17	—	β_2^3	-0.26	$-0.1^{+1.9}_{-2.0}$	r_*	144.60	$144.7^{+1.3}_{-1.3}$
A_{217}^{CIB}	23.3	20^{+10}_{-9}	β_3^3	0.09	$0.0^{+2.0}_{-1.9}$	θ_*	1.04115	$1.0411^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	4.74	—	β_4^3	-0.03	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.59	$1060.2^{+1.4}_{-1.4}$
$r_{PS143/217}$	0.784	> 0.668	β_5^3	0.12	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.32	$147.3^{+1.3}_{-1.3}$
r_{CIB}	0.478	—	β_1^4	-0.51	$-0.1^{+1.9}_{-1.9}$	k_D	0.14039	$0.1406^{+0.0014}_{-0.0014}$
n^{CIB}	0.276	$0.24^{+0.27}_{-0.31}$	β_2^4	0.04	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16113	$0.16077^{+0.00084}_{-0.00080}$
$c_{100/143}$	1.00060	$1.00062^{+0.00077}_{-0.00078}$	β_3^4	0.06	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3394	3370^{+140}_{-130}
$c_{217/143}$	0.99640	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	-0.27	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8144	$0.820^{+0.026}_{-0.026}$
$\xi^{tSZ-CIB}$	0.01	—	β_5^4	0.23	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07140	$0.0719^{+0.0021}_{-0.0021}$
A^{kSZ}	2.37	—	Ω_Λ	0.6850	$0.693^{+0.035}_{-0.039}$	$H(0.57)$	0.00030981	$0.0003111^{+0.000044}_{-0.000040}$
β_1^1	0.42	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3150	$0.307^{+0.039}_{-0.035}$	$DA(0.57)$	1391.7	1381^{+37}_{-37}

Best-fit $\chi_{\text{eff}}^2 = 7918.58$; R-1 = 0.01285

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.28 CAMspec.v6.2TN_2013_01_18.clik: 7798.30 SN - Union2.1: 130.56

3.13 base_alpha1_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02225	$0.02220^{+0.00055}_{-0.00054}$	β_3^2	-0.06	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9879	$0.984^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.1199	$0.1214^{+0.0057}_{-0.0055}$	β_4^2	0.26	$0.3^{+2.0}_{-1.9}$	c_{SPT}^{150}	0.9855	$0.988^{+0.019}_{-0.019}$
θ	1.04104	$1.0407^{+0.0014}_{-0.0014}$	β_5^2	-0.39	$-0.4^{+1.9}_{-2.0}$	c_{SPT}^{220}	1.0178	$1.022^{+0.047}_{-0.043}$
τ	0.0943	$0.098^{+0.030}_{-0.027}$	β_1^3	0.39	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6851	$0.675^{+0.034}_{-0.037}$
α_{-1}	-0.0011	$-0.0042^{+0.0041}_{-0.0075}$	β_2^3	-0.60	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3149	$0.325^{+0.037}_{-0.034}$
n_s	0.9551	$0.948^{+0.017}_{-0.017}$	β_3^3	-0.11	$0.2^{+2.0}_{-1.9}$	σ_8	0.8278	$0.833^{+0.026}_{-0.026}$
$\log[10^{10} A_s]$	3.100	$3.112^{+0.058}_{-0.054}$	β_4^3	-0.45	$-0.5^{+1.9}_{-1.9}$	z_{re}	11.44	$11.8^{+2.4}_{-2.3}$
A_{100}^{PS}	178	190^{+80}_{-80}	β_5^3	-0.44	$-0.3^{+1.9}_{-1.9}$	H_0	67.34	$66.7^{+2.5}_{-2.4}$
A_{143}^{PS}	76.1	77^{+20}_{-20}	β_1^4	-0.45	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.220	$2.25^{+0.13}_{-0.12}$
A_{217}^{PS}	61.8	64^{+20}_{-20}	β_2^4	-0.35	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1428	$0.1442^{+0.0055}_{-0.0053}$
A_{143}^{CIB}	3.39	—	β_3^4	-0.10	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09615	$0.0961^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	49.8	44^{+9}_{-9}	β_4^4	0.01	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247787	$0.24777^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	5.45	—	β_5^4	0.40	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8383	$1.846^{+0.029}_{-0.028}$
$r_{PS143/217}$	0.848	> 0.713	$A_{\text{PS,ACT}}^{148}$	10.48	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.805	$13.827^{+0.091}_{-0.096}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	79.3	$81.4^{+7.8}_{-7.9}$	z_*	1090.17	$1090.4^{+1.0}_{-1.0}$
n^{CIB}	0.542	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	6.94	$7.61^{+3.1}_{-2.7}$	r_*	144.54	$144.2^{+1.3}_{-1.3}$
$c_{100/143}$	1.00061	$1.00063^{+0.00077}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.05	$10.36^{+0.99}_{-0.94}$	θ_*	1.04119	$1.0408^{+0.0014}_{-0.0014}$
$c_{217/143}$	0.99949	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.4	$78.1^{+8.2}_{-7.9}$	z_{drag}	1059.70	$1059.7^{+1.1}_{-1.2}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.820	> 0.664	r_{drag}	147.25	$146.9^{+1.3}_{-1.3}$
A^{kSZ}	0.66	—	$r_{\text{PS}}^{95/220}$	0.578	$0.56^{+0.24}_{-0.21}$	k_D	0.14050	$0.1408^{+0.0014}_{-0.0014}$
β_1^1	0.75	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9122	> 0.903	θ_D	0.16106	$0.16103^{+0.00070}_{-0.00067}$
β_2^1	0.12	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.443	< 0.754	z_{EQ}	3396	3431^{+130}_{-130}
β_3^1	-0.01	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.851	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8141	$0.808^{+0.024}_{-0.023}$
β_4^1	0.25	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9915	$0.992^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07140	$0.0709^{+0.0019}_{-0.0018}$
β_5^1	0.06	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0023	$1.005^{+0.026}_{-0.026}$	$H(0.57)$	0.00030995	$0.0003091^{+0.0000035}_{-0.0000032}$
β_1^2	-0.99	$-1.15^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9873	$0.988^{+0.014}_{-0.014}$	$DA(0.57)$	1391.0	1400^{+33}_{-33}
β_2^2	-0.22	$-0.3^{+1.9}_{-1.9}$	c_{ACTe}^{217}	0.9595	$0.963^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10518.23$; R-1 = 0.01095

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.35 commander.v3.light.clik: -9.82 CAMspec.v6.2TN_2013_01_18.clik: 7820.46 actspt_2013_01.clik: 693.13

3.14 base_alpha1_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02223	$0.02225^{+0.00053}_{-0.00053}$	β_3^2	0.03	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9852	$0.984^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.12039	$0.1208^{+0.0046}_{-0.0045}$	β_4^2	0.18	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9862	$0.988^{+0.019}_{-0.019}$
θ	1.04090	$1.0407^{+0.0013}_{-0.0013}$	β_5^2	-0.41	$-0.4^{+2.0}_{-2.0}$	c_{SPT}^{220}	1.0188	$1.022^{+0.046}_{-0.043}$
τ	0.0953	$0.098^{+0.029}_{-0.026}$	β_1^3	0.93	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6818	$0.679^{+0.028}_{-0.029}$
α_{-1}	-0.0018	$-0.0042^{+0.0039}_{-0.0071}$	β_2^3	-0.48	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.3182	$0.321^{+0.029}_{-0.028}$
n_s	0.9534	$0.950^{+0.015}_{-0.015}$	β_3^3	0.27	$0.2^{+2.0}_{-2.0}$	σ_8	0.0684	$0.831^{+0.020}_{-0.019}$
$\log[10^{10} A_s]$	3.104	$3.111^{+0.054}_{-0.050}$	β_4^3	-0.63	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.55	$11.8^{+2.2}_{-2.2}$
A_{100}^{PS}	178	190^{+80}_{-80}	β_5^3	-0.37	$-0.4^{+2.0}_{-2.0}$	H_0	67.10	$66.9^{+2.1}_{-2.0}$
A_{143}^{PS}	76.3	77^{+20}_{-20}	β_1^4	-0.21	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.229	$2.25^{+0.12}_{-0.11}$
A_{217}^{PS}	63.6	64^{+20}_{-20}	β_2^4	-0.19	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14327	$0.1437^{+0.0044}_{-0.0043}$
A_{143}^{CIB}	2.98	—	β_3^4	-0.01	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09614	$0.0961^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	47.6	44^{+9}_{-9}	β_4^4	0.18	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247780	$0.24779^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	4.59	—	β_5^4	0.21	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8417	$1.844^{+0.023}_{-0.023}$
$r_{PS143/217}$	0.821	> 0.713	$A_{\text{PS,ACT}}^{148}$	10.60	$10.7^{+1.1}_{-1.1}$	Age/Gyr	13.813	$13.818^{+0.084}_{-0.087}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.6	$81.4^{+7.7}_{-7.9}$	z_*	1090.23	$1090.26^{+0.92}_{-0.95}$
n^{CIB}	0.520	$0.49^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.44	$7.63^{+3.1}_{-2.7}$	r_*	144.43	$144.3^{+1.1}_{-1.1}$
$c_{100/143}$	1.00061	$1.00064^{+0.00077}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.26	$10.4^{+1.0}_{-0.94}$	θ_*	1.04104	$1.0409^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99917	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.2	$78.0^{+8.1}_{-8.0}$	z_{drag}	1059.70	$1059.8^{+1.2}_{-1.1}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.785	> 0.663	r_{drag}	147.14	$147.0^{+1.1}_{-1.1}$
A^{kSZ}	1.40	—	$r_{\text{PS}}^{95/220}$	0.527	$0.56^{+0.25}_{-0.21}$	k_D	0.14061	$0.1408^{+0.0012}_{-0.0012}$
β_1^1	0.67	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9108	> 0.903	θ_D	0.16105	$0.16099^{+0.00069}_{-0.00067}$
β_2^1	-0.05	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.426	< 0.759	z_{EQ}	3408	3419^{+100}_{-100}
β_3^1	0.06	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.827	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8119	$0.810^{+0.020}_{-0.019}$
β_4^1	-0.04	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{148}	0.9916	$0.992^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07121	$0.0711^{+0.0016}_{-0.0015}$
β_5^1	0.01	$-0.1^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0034	$1.005^{+0.026}_{-0.026}$	$H(0.57)$	0.00030963	$0.0003094^{+0.0000031}_{-0.0000028}$
β_1^2	-1.09	$-1.17^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9880	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1394.1	1397^{+27}_{-28}
β_2^2	-0.16	$-0.3^{+2.0}_{-1.9}$	c_{ACTe}^{217}	0.9613	$0.963^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10526.52$; R-1 = 0.01984

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.40 lensing_likelihood_v3.ref.clik.lensing: 11.17 commander_v3.light.clik: -10.29 CAMspec_v6.2TN_2013_01_18.c
7819.42 actspt_2013_01.clik: 691.79

3.15 base_alpha1_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02227	$0.02231^{+0.00051}_{-0.00050}$	β_3^2	-0.01	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9867	$0.985^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.11891	$0.1192^{+0.0036}_{-0.0034}$	β_4^2	0.26	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9870	$0.989^{+0.018}_{-0.018}$
θ	1.04120	$1.0410^{+0.0012}_{-0.0012}$	β_5^2	-0.42	$-0.4^{+2.0}_{-2.0}$	c_{SPT}^{220}	1.0157	$1.022^{+0.047}_{-0.043}$
τ	0.0966	$0.101^{+0.030}_{-0.027}$	β_1^3	0.89	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6910	$0.689^{+0.020}_{-0.022}$
α_{-1}	-0.0014	$-0.0037^{+0.0036}_{-0.0070}$	β_2^3	-0.66	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.3090	$0.311^{+0.022}_{-0.020}$
n_s	0.9572	$0.954^{+0.012}_{-0.013}$	β_3^3	0.18	$0.2^{+2.0}_{-1.9}$	σ_8	0.8257	$0.828^{+0.025}_{-0.024}$
$\log[10^{10} A_s]$	3.102	$3.112^{+0.060}_{-0.055}$	β_4^3	-0.38	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.61	$11.9^{+2.4}_{-2.3}$
A_{100}^{PS}	174	189^{+80}_{-80}	β_5^3	-0.37	$-0.3^{+2.0}_{-2.0}$	H_0	67.75	$67.6^{+1.6}_{-1.6}$
A_{143}^{PS}	75.3	76^{+20}_{-20}	β_1^4	-0.20	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.225	$2.25^{+0.14}_{-0.12}$
A_{217}^{PS}	63.7	63^{+20}_{-20}	β_2^4	-0.25	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14183	$0.1421^{+0.0035}_{-0.0033}$
A_{143}^{CIB}	2.91	—	β_3^4	-0.03	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09609	$0.0961^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	47.3	44^{+9}_{-9}	β_4^4	0.12	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247797	$0.24781^{+0.00021}_{-0.00021}$
A_{143}^{tSZ}	4.62	—	β_5^4	0.24	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8337	$1.836^{+0.020}_{-0.019}$
$r_{PS143/217}$	0.821	> 0.710	$A_{\text{PS,ACT}}^{148}$	10.39	$10.7^{+1.1}_{-1.1}$	Age/Gyr	13.794	$13.797^{+0.073}_{-0.072}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.6	$81.6^{+7.7}_{-7.8}$	z_*	1090.05	$1090.03^{+0.78}_{-0.78}$
n^{CIB}	0.519	$0.49^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.26	$7.63^{+3.1}_{-2.7}$	r_*	144.78	$144.68^{+0.89}_{-0.89}$
$c_{100/143}$	1.00063	$1.00064^{+0.00077}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.05	$10.4^{+1.0}_{-0.93}$	θ_*	1.04133	$1.0411^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99924	$0.9993^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.7	$78.1^{+8.0}_{-7.8}$	z_{drag}	1059.70	$1059.8^{+1.2}_{-1.1}$
$\xi^{tSZ-CIB}$	0.001	—	$r_{\text{PS}}^{95/150}$	0.772	> 0.663	r_{drag}	147.48	$147.37^{+0.97}_{-0.94}$
A^{kSZ}	2.27	—	$r_{\text{PS}}^{95/220}$	0.527	$0.56^{+0.24}_{-0.21}$	k_D	0.14028	$0.1404^{+0.0012}_{-0.0012}$
β_1^1	0.63	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9177	> 0.903	θ_D	0.16108	$0.16099^{+0.00070}_{-0.00067}$
β_2^1	-0.13	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.402	< 0.755	z_{EQ}	3374	3381^{+83}_{-78}
β_3^1	0.06	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.837	$0.85^{+0.40}_{-0.39}$	θ_{EQ}	0.8184	$0.817^{+0.015}_{-0.015}$
β_4^1	0.05	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{148}	0.9924	$0.993^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07174	$0.0716^{+0.0012}_{-0.0012}$
β_5^1	0.12	$-0.1^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0032	$1.006^{+0.026}_{-0.026}$	$H(0.57)$	0.00031046	$0.0003104^{+0.0000025}_{-0.0000023}$
β_1^2	-1.06	$-1.19^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9884	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1385.6	1387^{+21}_{-21}
β_2^2	-0.20	$-0.3^{+1.9}_{-1.9}$	c_{ACTe}^{217}	0.9612	$0.964^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10518.80$; R-1 = 0.02879

χ_{eff}^2 : BAO - DR9: 0.22 DR7: 1.27 6DF: 0.01 CMB - lowlike.v22.light.clik: 2014.39 commander.v3.light.clik: -10.31 CAMspec.v6.2TN_2013.01.18.clik: 7819.85 actspt_2013.01.clik: 693.34

3.16 base_alpha1_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02234	$0.02240^{+0.00054}_{-0.00053}$	β_3^2	-0.11	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9879	$0.986^{+0.041}_{-0.037}$
$\Omega_c h^2$	0.11757	$0.1181^{+0.0050}_{-0.0048}$	β_4^2	0.34	$0.3^{+2.0}_{-1.9}$	c_{SPT}^{150}	0.9874	$0.990^{+0.018}_{-0.018}$
θ	1.04145	$1.0412^{+0.0014}_{-0.0013}$	β_5^2	-0.17	$-0.4^{+1.9}_{-2.0}$	c_{SPT}^{220}	1.0147	$1.023^{+0.045}_{-0.042}$
τ	0.0979	$0.103^{+0.031}_{-0.028}$	β_1^3	0.73	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6993	$0.696^{+0.030}_{-0.031}$
α_{-1}	-0.0009	$-0.0035^{+0.0040}_{-0.0072}$	β_2^3	-0.55	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.3007	$0.304^{+0.031}_{-0.029}$
n_s	0.9612	$0.957^{+0.019}_{-0.016}$	β_3^3	0.15	$0.2^{+1.9}_{-1.9}$	σ_8	0.8224	$0.825^{+0.026}_{-0.027}$
$\log[10^{10} A_s]$	3.101	$3.113^{+0.061}_{-0.058}$	β_4^3	-0.37	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.66	$12.0^{+2.4}_{-2.4}$
A_{100}^{PS}	177	188^{+80}_{-80}	β_5^3	-0.18	$-0.3^{+2.0}_{-2.0}$	H_0	68.37	$68.2^{+2.3}_{-2.2}$
A_{143}^{PS}	74.7	75^{+20}_{-20}	β_1^4	-0.40	$-0.4^{+1.9}_{-2.0}$	$10^9 A_s$	2.222	$2.25^{+0.14}_{-0.13}$
A_{217}^{PS}	63.9	63^{+20}_{-20}	β_2^4	-0.44	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14055	$0.1412^{+0.0048}_{-0.0047}$
A_{143}^{CIB}	2.68	—	β_3^4	0.12	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09610	$0.0962^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	46.3	44^{+9}_{-9}	β_4^4	0.22	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247826	$0.24785^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	4.11	—	β_5^4	0.34	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8269	$1.831^{+0.026}_{-0.028}$
$r_{PS143/217}$	0.805	> 0.706	$A_{\text{PS,ACT}}^{148}$	10.49	$10.7^{+1.1}_{-1.1}$	Age/Gyr	13.774	$13.776^{+0.087}_{-0.088}$
r_{CIB}	0.9999	—	$A_{\text{PS,ACT}}^{218}$	81.3	$81.6^{+8.2}_{-7.9}$	z_*	1089.85	$1089.82^{+0.93}_{-0.88}$
n^{CIB}	0.510	$0.49^{+0.14}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.60	$7.66^{+3.1}_{-2.6}$	r_*	145.08	$144.9^{+1.3}_{-1.2}$
$c_{100/143}$	1.00066	$1.00064^{+0.00078}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.16	$10.40^{+0.96}_{-0.93}$	θ_*	1.04158	$1.0413^{+0.0015}_{-0.0013}$
$c_{217/143}$	0.99927	$0.9993^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.3	$78.3^{+8.0}_{-7.8}$	z_{drag}	1059.78	$1060.0^{+1.2}_{-1.2}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.754	> 0.662	r_{drag}	147.76	$147.5^{+1.3}_{-1.2}$
A^{kSZ}	2.87	—	$r_{\text{PS}}^{95/220}$	0.497	$0.56^{+0.24}_{-0.21}$	k_D	0.14003	$0.1403^{+0.0014}_{-0.0014}$
β_1^1	0.50	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9153	> 0.904	θ_D	0.16107	$0.16094^{+0.00071}_{-0.00070}$
β_2^1	0.02	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.432	< 0.753	z_{EQ}	3343	3358^{+110}_{-110}
β_3^1	0.13	$0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.826	$0.85^{+0.41}_{-0.39}$	θ_{EQ}	0.8243	$0.822^{+0.022}_{-0.021}$
β_4^1	-0.14	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{148}	0.9924	$0.993^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07223	$0.0720^{+0.0019}_{-0.0017}$
β_5^1	-0.05	$-0.1^{+2.0}_{-2.1}$	c_{ACTs}^{217}	1.0041	$1.006^{+0.026}_{-0.026}$	$H(0.57)$	0.00031132	$0.0003111^{+0.0000034}_{-0.0000031}$
β_1^2	-1.24	$-1.21^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9887	$0.990^{+0.015}_{-0.014}$	$DA(0.57)$	1377.5	1380^{+29}_{-30}
β_2^2	-0.07	$-0.3^{+2.0}_{-1.9}$	c_{ACTe}^{217}	0.9617	$0.964^{+0.020}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10523.51$; R-1 = 0.04012

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.43 commander.v3.light.clik: -10.16 CAMspec.v6.2TN_2013.01.18.clik: 7820.56 actspt_2013.01.clik: 693.54 Hubble - HST: 5.11

3.17 base_alpha1_planck_CAMspec_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02229	$0.02232^{+0.00054}_{-0.00053}$	β_3^2	-0.08	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9879	$0.985^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1186	$0.1192^{+0.0051}_{-0.0050}$	β_4^2	0.27	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9874	$0.989^{+0.018}_{-0.018}$
θ	1.04126	$1.0410^{+0.0014}_{-0.0013}$	β_5^2	-0.42	$-0.4^{+2.0}_{-2.0}$	c_{SPT}^{220}	1.0181	$1.022^{+0.046}_{-0.043}$
τ	0.0980	$0.101^{+0.031}_{-0.028}$	β_1^3	0.82	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6933	$0.689^{+0.030}_{-0.032}$
α_{-1}	-0.0010	$-0.0037^{+0.0038}_{-0.0071}$	β_2^3	-0.62	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.3067	$0.311^{+0.032}_{-0.030}$
n_s	0.9584	$0.954^{+0.016}_{-0.016}$	β_3^3	0.22	$0.2^{+1.9}_{-1.9}$	σ_8	0.8259	$0.828^{+0.026}_{-0.026}$
$\log[10^{10} A_s]$	3.104	$3.112^{+0.060}_{-0.056}$	β_4^3	-0.64	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.71	$11.9^{+2.4}_{-2.3}$
A_{100}^{PS}	180	189^{+80}_{-80}	β_5^3	-0.44	$-0.3^{+2.0}_{-2.0}$	H_0	67.92	$67.6^{+2.3}_{-2.2}$
A_{143}^{PS}	75.1	75^{+20}_{-20}	β_1^4	-0.15	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.228	$2.25^{+0.14}_{-0.12}$
A_{217}^{PS}	64.3	63^{+20}_{-20}	β_2^4	-0.29	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14148	$0.1421^{+0.0049}_{-0.0048}$
A_{143}^{CIB}	2.81	—	β_3^4	-0.24	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09609	$0.0961^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	46.4	44^{+9}_{-9}	β_4^4	0.17	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247805	$0.24782^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	4.35	—	β_5^4	0.20	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8317	$1.836^{+0.026}_{-0.026}$
$r_{PS143/217}$	0.814	> 0.710	$A_{\text{PS,ACT}}^{148}$	10.49	$10.7^{+1.1}_{-1.1}$	Age/Gyr	13.789	$13.796^{+0.089}_{-0.091}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.9	$81.6^{+7.9}_{-7.9}$	z_*	1089.99	$1090.02^{+0.96}_{-0.92}$
n^{CIB}	0.508	$0.49^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.36	$7.64^{+3.1}_{-2.7}$	r_*	144.86	$144.7^{+1.2}_{-1.2}$
$c_{100/143}$	1.00065	$1.00064^{+0.00077}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.15	$10.38^{+0.98}_{-0.92}$	θ_*	1.04140	$1.0411^{+0.0014}_{-0.0013}$
$c_{217/143}$	0.99937	$0.9993^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.4	$78.2^{+8.1}_{-7.9}$	z_{drag}	1059.70	$1059.8^{+1.1}_{-1.2}$
$\xi^{tSZ-CIB}$	0.019	—	$r_{\text{PS}}^{95/150}$	0.769	> 0.663	r_{drag}	147.56	$147.4^{+1.3}_{-1.2}$
A^{kSZ}	2.66	—	$r_{\text{PS}}^{95/220}$	0.523	$0.56^{+0.24}_{-0.21}$	k_D	0.14021	$0.1404^{+0.0014}_{-0.0014}$
β_1^1	0.68	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9171	> 0.904	θ_D	0.16108	$0.16099^{+0.00071}_{-0.00067}$
β_2^1	-0.08	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.422	< 0.755	z_{EQ}	3365	3381^{+120}_{-110}
β_3^1	0.01	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.832	$0.85^{+0.40}_{-0.39}$	θ_{EQ}	0.8200	$0.817^{+0.022}_{-0.022}$
β_4^1	-0.04	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{148}	0.9920	$0.993^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07187	$0.0716^{+0.0018}_{-0.0017}$
β_5^1	-0.04	$-0.1^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0024	$1.006^{+0.026}_{-0.026}$	$H(0.57)$	0.00031069	$0.0003104^{+0.0000034}_{-0.0000031}$
β_1^2	-0.96	$-1.19^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9884	$0.989^{+0.015}_{-0.014}$	$DA(0.57)$	1383.4	1387^{+30}_{-30}
β_2^2	-0.39	$-0.3^{+2.0}_{-1.9}$	c_{ACTe}^{217}	0.9607	$0.964^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10946.68$; R-1 = 0.02404

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.50 commander.v3.light.clik: -10.03 CAMspec.v6.2TN_2013.01.18.clik: 7819.50 actspt_2013.01.clik: 693.57 SN - SNLS April.2012: 429.10

3.18 base_alpha1_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02225^{+0.00053}_{-0.00053}$	β_3^2	0.16	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9855	$0.984^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1198	$0.1205^{+0.0053}_{-0.0051}$	β_4^2	0.15	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9848	$0.989^{+0.019}_{-0.019}$
θ	1.04121	$1.0408^{+0.0014}_{-0.0014}$	β_5^2	-0.51	$-0.4^{+2.0}_{-2.0}$	c_{SPT}^{220}	1.0169	$1.022^{+0.046}_{-0.043}$
τ	0.0960	$0.099^{+0.030}_{-0.027}$	β_1^3	0.70	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6857	$0.681^{+0.031}_{-0.034}$
α_{-1}	-0.0011	$-0.0040^{+0.0039}_{-0.0073}$	β_2^3	-0.46	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.3143	$0.319^{+0.034}_{-0.031}$
n_s	0.9554	$0.951^{+0.016}_{-0.016}$	β_3^3	0.22	$0.2^{+2.0}_{-1.9}$	σ_8	0.8295	$0.831^{+0.025}_{-0.025}$
$\log[10^{10} A_s]$	3.103	$3.112^{+0.059}_{-0.055}$	β_4^3	-0.61	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.60	$11.8^{+2.4}_{-2.3}$
A_{100}^{PS}	180	189^{+80}_{-80}	β_5^3	-0.61	$-0.3^{+2.0}_{-2.0}$	H_0	67.39	$67.1^{+2.3}_{-2.3}$
A_{143}^{PS}	76.5	76^{+20}_{-20}	β_1^4	-0.17	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.227	$2.25^{+0.13}_{-0.12}$
A_{217}^{PS}	63.0	64^{+20}_{-20}	β_2^4	-0.01	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1427	$0.1434^{+0.0051}_{-0.0049}$
A_{143}^{CIB}	3.35	—	β_3^4	-0.18	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09617	$0.0961^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	49.2	44^{+9}_{-9}	β_4^4	0.05	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247776	$0.24779^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	5.36	—	β_5^4	0.27	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8381	$1.842^{+0.027}_{-0.026}$
$r_{PS143/217}$	0.838	> 0.711	$A_{\text{PS,ACT}}^{148}$	10.39	$10.7^{+1.1}_{-1.1}$	Age/Gyr	13.803	$13.815^{+0.089}_{-0.091}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	79.7	$81.5^{+7.7}_{-7.9}$	z_*	1090.20	$1090.23^{+0.99}_{-0.98}$
n^{CIB}	0.534	$0.49^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	6.91	$7.62^{+3.1}_{-2.7}$	r_*	144.57	$144.4^{+1.2}_{-1.2}$
$c_{100/143}$	1.00064	$1.00064^{+0.00077}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	9.99	$10.4^{+1.0}_{-0.93}$	θ_*	1.04134	$1.0409^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99944	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.5	$78.0^{+8.1}_{-8.0}$	z_{drag}	1059.67	$1059.8^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.813	> 0.663	r_{drag}	147.29	$147.1^{+1.3}_{-1.2}$
A^{kSZ}	0.93	—	$r_{\text{PS}}^{95/220}$	0.570	$0.56^{+0.25}_{-0.21}$	k_D	0.14044	$0.1407^{+0.0014}_{-0.0014}$
β_1^1	0.87	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9136	> 0.903	θ_D	0.16112	$0.16101^{+0.00070}_{-0.00068}$
β_2^1	-0.15	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.390	< 0.757	z_{EQ}	3395	3411^{+120}_{-120}
β_3^1	0.08	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.847	$0.85^{+0.40}_{-0.39}$	θ_{EQ}	0.8144	$0.811^{+0.022}_{-0.022}$
β_4^1	0.12	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{148}	0.9918	$0.992^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07145	$0.0712^{+0.0018}_{-0.0017}$
β_5^1	-0.05	$-0.1^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0019	$1.005^{+0.026}_{-0.026}$	$H(0.57)$	0.00031003	$0.0003096^{+0.0000034}_{-0.0000031}$
β_1^2	-0.78	$-1.17^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9875	$0.989^{+0.015}_{-0.014}$	$DA(0.57)$	1390.3	1395^{+31}_{-31}
β_2^2	-0.29	$-0.3^{+2.0}_{-1.9}$	c_{ACTe}^{217}	0.9602	$0.963^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10648.47$; R-1 = 0.01747

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.46 commander.v3.light.clik: -9.68 CAMspec.v6.2TN_2013_01_18.clik: 7819.81 actspt_2013_01.clik: 693.28 SN - Union2.1: 130.54

3.19 base_alpha1_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02254	$0.0227_{-0.0012}^{+0.0012}$	z_{re}	10.78	$10.6_{-2.2}^{+2.4}$	z_{drag}	1060.12	$1060.3_{-2.4}^{+2.3}$
$\Omega_c h^2$	0.1159	$0.113_{-0.013}^{+0.014}$	H_0	68.6	$70.5_{-8.0}^{+7.8}$	r_{drag}	147.97	$148.7_{-3.3}^{+3.1}$
θ	1.0398	$1.0409_{-0.0084}^{+0.0081}$	$10^9 A_s$	2.223	$2.20_{-0.14}^{+0.16}$	k_D	0.13997	$0.1393_{-0.0031}^{+0.0033}$
τ	0.0888	$0.089_{-0.025}^{+0.029}$	$\Omega_m h^2$	0.1391	$0.136_{-0.012}^{+0.014}$	θ_D	0.16059	$0.1607_{-0.0012}^{+0.0012}$
α_{-1}	-0.0001	$0.0013_{-0.0091}^{+0.013}$	$\Omega_m h^3$	0.09541	$0.0956_{-0.0045}^{+0.0044}$	z_{EQ}	3309	3234_{-290}^{+330}
n_s	0.9699	$0.978_{-0.050}^{+0.047}$	Y_{He}	0.24791	$0.24798_{-0.00051}^{+0.00050}$	θ_{EQ}	0.830	$0.847_{-0.067}^{+0.067}$
$\log[10^{10} A_s]$	3.102	$3.089_{-0.066}^{+0.072}$	$10^9 A_s e^{-2\tau}$	1.862	$1.839_{-0.076}^{+0.084}$	$r_s/D_v(0.57)$	0.0724	$0.0739_{-0.0061}^{+0.0062}$
A_{sz}	0.06	—	Age/Gyr	13.795	$13.73_{-0.39}^{+0.40}$	$H(0.57)$	0.0003111	$0.000314_{-0.000013}^{+0.000015}$
Ω_Λ	0.704	$0.721_{-0.10}^{+0.075}$	z_*	1089.45	$1089.0_{-2.2}^{+2.5}$	$DA(0.57)$	1376	1353_{-100}^{+110}
Ω_m	0.296	$0.279_{-0.075}^{+0.10}$	r_*	145.34	$146.1_{-3.3}^{+3.1}$			
σ_8	0.819	$0.804_{-0.055}^{+0.054}$	θ_*	1.0399	$1.0410_{-0.0083}^{+0.0080}$			

Best-fit $\chi_{\text{eff}}^2 = 7557.90$; R-1 = 0.00585
 χ_{eff}^2 : CMB - WMAP: 7557.90

3.20 base_alpha1_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02248	$0.02249_{-0.00086}^{+0.00085}$	z_{re}	10.70	$10.8_{-2.3}^{+2.3}$	z_{drag}	1060.01	$1060.0_{-2.1}^{+2.1}$
$\Omega_c h^2$	0.11623	$0.1158_{-0.0047}^{+0.0049}$	H_0	68.29	$68.2_{-2.1}^{+2.1}$	r_{drag}	147.96	$148.1_{-1.8}^{+1.8}$
θ	1.0394	$1.0386_{-0.0049}^{+0.0051}$	$10^9 A_s$	2.219	$2.22_{-0.13}^{+0.14}$	k_D	0.13993	$0.1398_{-0.0024}^{+0.0023}$
τ	0.0877	$0.090_{-0.026}^{+0.028}$	$\Omega_m h^2$	0.1394	$0.1389_{-0.0049}^{+0.0052}$	θ_D	0.16060	$0.1605_{-0.0011}^{+0.0011}$
α_{-1}	-0.00016	$-0.0012_{-0.0050}^{+0.0041}$	$\Omega_m h^3$	0.09517	$0.0947_{-0.0038}^{+0.0039}$	z_{EQ}	3314	3304_{-120}^{+120}
n_s	0.9675	$0.964_{-0.024}^{+0.026}$	Y_{He}	0.247887	$0.24789_{-0.00037}^{+0.00036}$	θ_{EQ}	0.8284	$0.830_{-0.021}^{+0.020}$
$\log[10^{10} A_s]$	3.100	$3.099_{-0.058}^{+0.062}$	$10^9 A_s e^{-2\tau}$	1.8623	$1.854_{-0.046}^{+0.044}$	$r_s/D_v(0.57)$	0.07217	$0.0721_{-0.0015}^{+0.0015}$
A_{sz}	0.00	—	Age/Gyr	13.814	$13.83_{-0.20}^{+0.19}$	$H(0.57)$	0.00031051	$0.0003101_{-0.000048}^{+0.000051}$
Ω_Λ	0.7012	$0.701_{-0.025}^{+0.023}$	z_*	1089.55	$1089.5_{-1.0}^{+1.1}$	$DA(0.57)$	1380.1	1382_{-31}^{+31}
Ω_m	0.2988	$0.299_{-0.023}^{+0.025}$	r_*	145.32	$145.4_{-1.5}^{+1.5}$			
σ_8	0.8179	$0.814_{-0.035}^{+0.037}$	θ_*	1.03953	$1.0387_{-0.0048}^{+0.0051}$			

Best-fit $\chi_{\text{eff}}^2 = 7559.13$; R-1 = 0.01112
 χ_{eff}^2 : BAO - 6DF: 0.05 DR7: 0.47 DR9: 0.70 CMB - WMAP: 7557.91

3.21 base_alpha1_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02291	$0.02302^{+0.00092}_{-0.00089}$	z_{re}	10.90	$10.4^{+2.3}_{-2.2}$	z_{drag}	1060.51	$1060.6^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.1100	$0.1082^{+0.0078}_{-0.0072}$	H_0	71.84	$73.3^{+3.9}_{-4.2}$	r_{drag}	149.19	$149.6^{+2.3}_{-2.3}$
θ	1.0420	$1.0436^{+0.0052}_{-0.0058}$	$10^9 A_s$	2.205	$2.17^{+0.14}_{-0.13}$	k_D	0.13895	$0.1386^{+0.0026}_{-0.0026}$
τ	0.0932	$0.089^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1336	$0.1319^{+0.0077}_{-0.0073}$	θ_D	0.16065	$0.1608^{+0.0011}_{-0.0011}$
α_{-1}	0.0003	$0.0037^{+0.010}_{-0.0054}$	$\Omega_m h^3$	0.09597	$0.0966^{+0.0038}_{-0.0037}$	z_{EQ}	3177	3135^{+180}_{-170}
n_s	0.9868	$0.995^{+0.027}_{-0.031}$	Y_{He}	0.248066	$0.24811^{+0.00038}_{-0.00037}$	θ_{EQ}	0.8586	$0.869^{+0.038}_{-0.038}$
$\log[10^{10} A_s]$	3.094	$3.077^{+0.064}_{-0.060}$	$10^9 A_s e^{-2\tau}$	1.830	$1.817^{+0.056}_{-0.054}$	$r_s/D_v(0.57)$	0.07494	$0.0761^{+0.0032}_{-0.0034}$
A_{sz}	0.18	—	Age/Gyr	13.663	$13.59^{+0.24}_{-0.22}$	$H(0.57)$	0.0003164	$0.0003192^{+0.000077}_{-0.000081}$
Ω_Λ	0.7412	$0.754^{+0.035}_{-0.044}$	z_*	1088.49	$1088.2^{+1.3}_{-1.3}$	$DA(0.57)$	1333	1314^{+56}_{-49}
Ω_m	0.2588	$0.246^{+0.044}_{-0.035}$	r_*	146.65	$147.1^{+2.1}_{-2.1}$			
σ_8	0.8003	$0.792^{+0.044}_{-0.042}$	θ_*	1.0421	$1.0437^{+0.0051}_{-0.0057}$			

Best-fit $\chi_{\text{eff}}^2 = 7559.19$; R-1 = 0.00823

χ_{eff}^2 : CMB - WMAP: 7558.47 Hubble - HST: 0.72

3.22 base_alpha1_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02277	$0.0230^{+0.0011}_{-0.0010}$	z_{re}	11.06	$10.5^{+2.3}_{-2.2}$	z_{drag}	1060.31	$1060.6^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1116	$0.1081^{+0.0095}_{-0.0087}$	H_0	70.8	$73.2^{+5.4}_{-5.9}$	r_{drag}	148.91	$149.6^{+2.4}_{-2.4}$
θ	1.0410	$1.0434^{+0.0063}_{-0.0073}$	$10^9 A_s$	2.220	$2.17^{+0.15}_{-0.13}$	k_D	0.13916	$0.1385^{+0.0027}_{-0.0027}$
τ	0.0943	$0.089^{+0.029}_{-0.025}$	$\Omega_m h^2$	0.1350	$0.1318^{+0.0092}_{-0.0085}$	θ_D	0.16063	$0.1608^{+0.0011}_{-0.0011}$
α_{-1}	0.0001	$0.0038^{+0.012}_{-0.0069}$	$\Omega_m h^3$	0.09560	$0.0964^{+0.0040}_{-0.0041}$	z_{EQ}	3210	3133^{+220}_{-200}
n_s	0.9815	$0.994^{+0.035}_{-0.041}$	Y_{He}	0.248010	$0.24810^{+0.00043}_{-0.00043}$	θ_{EQ}	0.8507	$0.870^{+0.047}_{-0.048}$
$\log[10^{10} A_s]$	3.100	$3.077^{+0.066}_{-0.060}$	$10^9 A_s e^{-2\tau}$	1.839	$1.815^{+0.061}_{-0.058}$	$r_s/D_v(0.57)$	0.07415	$0.0761^{+0.0044}_{-0.0046}$
A_{sz}	0.00	—	Age/Gyr	13.712	$13.60^{+0.32}_{-0.28}$	$H(0.57)$	0.0003145	$0.000319^{+0.000011}_{-0.000011}$
Ω_Λ	0.731	$0.753^{+0.047}_{-0.061}$	z_*	1088.79	$1088.2^{+1.7}_{-1.6}$	$DA(0.57)$	1347	1316^{+79}_{-68}
Ω_m	0.269	$0.247^{+0.061}_{-0.047}$	r_*	146.33	$147.1^{+2.3}_{-2.4}$			
σ_8	0.8067	$0.790^{+0.045}_{-0.046}$	θ_*	1.0411	$1.0435^{+0.0062}_{-0.0072}$			

Best-fit $\chi_{\text{eff}}^2 = 7984.69$; R-1 = 0.00639

χ_{eff}^2 : CMB - WMAP: 7558.22 SN - SNLS April_2012: 426.47

3.23 base_alpha1_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02257	$0.0227^{+0.0011}_{-0.0011}$	z_{re}	10.77	$10.6^{+2.3}_{-2.2}$	z_{drag}	1060.09	$1060.3^{+2.2}_{-2.3}$
$\Omega_c h^2$	0.1147	$0.112^{+0.011}_{-0.010}$	H_0	69.1	$70.7^{+6.1}_{-6.1}$	r_{drag}	148.28	$148.8^{+2.6}_{-2.6}$
θ	1.0399	$1.0412^{+0.0071}_{-0.0074}$	$10^9 A_s$	2.216	$2.19^{+0.15}_{-0.13}$	k_D	0.13966	$0.1392^{+0.0028}_{-0.0028}$
τ	0.0891	$0.089^{+0.029}_{-0.025}$	$\Omega_m h^2$	0.1379	$0.135^{+0.010}_{-0.0097}$	θ_D	0.16061	$0.1607^{+0.0011}_{-0.0011}$
α_{-1}	0.0000	$0.0013^{+0.010}_{-0.0074}$	$\Omega_m h^3$	0.09528	$0.0957^{+0.0043}_{-0.0043}$	z_{EQ}	3280	3222^{+250}_{-230}
n_s	0.9720	$0.980^{+0.040}_{-0.042}$	Y_{He}	0.247925	$0.24800^{+0.00045}_{-0.00046}$	θ_{EQ}	0.836	$0.849^{+0.052}_{-0.051}$
$\log[10^{10} A_s]$	3.098	$3.088^{+0.068}_{-0.062}$	$10^9 A_s e^{-2\tau}$	1.854	$1.836^{+0.066}_{-0.063}$	$r_s/D_v(0.57)$	0.07279	$0.0741^{+0.0049}_{-0.0047}$
A_{sz}	0.01	—	Age/Gyr	13.783	$13.71^{+0.34}_{-0.32}$	$H(0.57)$	0.0003117	$0.000315^{+0.000012}_{-0.000011}$
Ω_Λ	0.711	$0.727^{+0.059}_{-0.073}$	z_*	1089.31	$1088.9^{+1.9}_{-1.8}$	$DA(0.57)$	1369	1348^{+85}_{-79}
Ω_m	0.289	$0.273^{+0.073}_{-0.059}$	r_*	145.66	$146.2^{+2.5}_{-2.6}$			
σ_8	0.8137	$0.803^{+0.046}_{-0.047}$	θ_*	1.0400	$1.0413^{+0.0070}_{-0.0074}$			

Best-fit $\chi^2_{\text{eff}} = 7687.79$; R-1 = 0.00469

χ^2_{eff} : CMB - WMAP: 7557.82 SN - Union2.1: 129.97

4 mnu

4.1 base_mnu_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02210	$0.02195^{+0.00062}_{-0.00065}$	β_3^1	0.11	$0.0^{+2.0}_{-2.0}$	H_0	68.0	$64.9^{+4.6}_{-7.2}$
$\Omega_c h^2$	0.1195	$0.1203^{+0.0056}_{-0.0056}$	β_4^1	0.27	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.216	$2.20^{+0.11}_{-0.10}$
θ	1.04134	$1.0411^{+0.0014}_{-0.0014}$	β_5^1	0.23	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1416	$0.146^{+0.011}_{-0.0075}$
τ	0.0946	$0.090^{+0.027}_{-0.024}$	β_1^2	0.02	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09624	$0.0944^{+0.0025}_{-0.0046}$
Σm_ν	0.000	< 0.892	β_2^2	0.03	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.247726	$0.24766^{+0.00027}_{-0.00029}$
n_s	0.9630	$0.958^{+0.016}_{-0.017}$	β_3^2	-0.10	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8342	$1.833^{+0.026}_{-0.025}$
$\log[10^{10} A_s]$	3.0984	$3.089^{+0.051}_{-0.047}$	β_4^2	0.09	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00000	< 0.00959
A_{100}^{PS}	155	155^{+100}_{-100}	β_5^2	0.03	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.781	$13.95^{+0.41}_{-0.23}$
A_{143}^{PS}	52.7	54^{+30}_{-30}	β_1^3	-0.30	$0.0^{+1.9}_{-1.9}$	z_*	1090.31	$1090.7^{+1.4}_{-1.2}$
A_{217}^{PS}	123.6	119^{+30}_{-30}	β_2^3	-0.45	$-0.1^{+2.0}_{-2.0}$	r_*	144.77	$144.6^{+1.3}_{-1.3}$
A_{143}^{CIB}	9.14	—	β_3^3	0.03	$0.0^{+2.0}_{-1.9}$	θ_*	1.04146	$1.0414^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	22.8	22^{+10}_{-10}	β_4^3	-0.24	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.36	$1059.1^{+1.2}_{-1.2}$
A_{143}^{tSZ}	5.72	—	β_5^3	-0.17	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.52	$147.4^{+1.2}_{-1.3}$
$r_{PS143/217}$	0.850	> 0.669	β_1^4	-0.14	$-0.1^{+1.9}_{-2.0}$	k_D	0.14010	$0.1402^{+0.0013}_{-0.0013}$
r_{CIB}	0.441	—	β_2^4	-0.23	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16132	$0.16143^{+0.00069}_{-0.00066}$
n^{CIB}	0.319	$0.24^{+0.26}_{-0.31}$	β_3^4	0.00	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3383	3398^{+130}_{-120}
$c_{100/143}$	1.00060	$1.00060^{+0.00078}_{-0.00078}$	β_4^4	-0.04	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8163	$0.814^{+0.024}_{-0.023}$
$c_{217/143}$	0.99632	$0.9965^{+0.0026}_{-0.0025}$	β_5^4	0.08	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07190	$0.0700^{+0.0032}_{-0.0046}$
$\xi^{tSZ-CIB}$	0.29	—	Ω_Λ	0.694	$0.651^{+0.063}_{-0.12}$	$H(0.57)$	0.0003109	$0.0003058^{+0.000073}_{-0.000011}$
A^{kSZ}	0.1	—	Ω_m	0.306	$0.349^{+0.12}_{-0.063}$	$DA(0.57)$	1382	1427^{+110}_{-65}
β_1^1	0.60	$0.5^{+1.7}_{-1.7}$	σ_8	0.845	$0.777^{+0.073}_{-0.14}$			
β_2^1	0.11	$0.1^{+1.9}_{-1.9}$	z_{re}	11.49	$11.2^{+2.2}_{-2.2}$			

Best-fit $\chi_{\text{eff}}^2 = 9804.04$; R-1 = 0.01435

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.48 commander_v3.light.clik: -7.16 CAMspec_v6.2TN_2013_01_18.clik: 7796.72

4.2 base_mnu_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02217	$0.02196^{+0.00062}_{-0.00068}$	β_3^1	-0.096	$0.0^{+2.0}_{-2.0}$	H_0	68.3	$65.2^{+4.1}_{-6.9}$
$\Omega_c h^2$	0.1188	$0.1211^{+0.0060}_{-0.0052}$	β_4^1	-0.05	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.209	$2.21^{+0.11}_{-0.098}$
θ	1.04144	$1.0410^{+0.0013}_{-0.0014}$	β_5^1	-0.05	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1409	$0.146^{+0.011}_{-0.0068}$
τ	0.0939	$0.093^{+0.027}_{-0.024}$	β_1^2	0.15	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09629	$0.0948^{+0.0022}_{-0.0040}$
Σm_ν	0.000	< 0.747	β_2^2	0.28	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247754	$0.24766^{+0.00027}_{-0.00030}$
n_s	0.9636	$0.957^{+0.016}_{-0.018}$	β_3^2	0.01	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8309	$1.838^{+0.025}_{-0.023}$
$\log[10^{10} A_s]$	3.0953	$3.097^{+0.048}_{-0.045}$	β_4^2	-0.13	$0.1^{+2.0}_{-1.9}$	$\Omega_\nu h^2$	0.00000	< 0.00803
A_{100}^{PS}	161	151^{+100}_{-100}	β_5^2	-0.26	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.768	$13.93^{+0.37}_{-0.20}$
A_{143}^{PS}	43	54^{+30}_{-30}	β_1^3	-0.06	$0.0^{+1.9}_{-1.9}$	z_*	1090.16	$1090.7^{+1.5}_{-1.2}$
A_{217}^{PS}	119.1	120^{+30}_{-30}	β_2^3	-0.08	$-0.1^{+2.0}_{-2.0}$	r_*	144.90	$144.4^{+1.2}_{-1.3}$
A_{143}^{CIB}	9.77	—	β_3^3	-0.06	$0.0^{+2.0}_{-1.9}$	θ_*	1.04156	$1.0413^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	23.1	21^{+10}_{-10}	β_4^3	-0.31	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.47	$1059.2^{+1.2}_{-1.3}$
A_{143}^{tSZ}	5.12	—	β_5^3	0.05	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.64	$147.2^{+1.2}_{-1.3}$
$r_{PS143/217}$	0.813	> 0.676	β_1^4	0.01	$-0.1^{+1.9}_{-1.9}$	k_D	0.14003	$0.1404^{+0.0013}_{-0.0012}$
r_{CIB}	0.458	—	β_2^4	0.21	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16127	$0.16141^{+0.00071}_{-0.00068}$
n^{CIB}	0.293	$0.25^{+0.26}_{-0.31}$	β_3^4	0.05	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3368	3417^{+130}_{-120}
$c_{100/143}$	1.00062	$1.00061^{+0.00078}_{-0.00078}$	β_4^4	0.06	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8193	$0.810^{+0.022}_{-0.023}$
$c_{217/143}$	0.99630	$0.9966^{+0.0025}_{-0.0025}$	β_5^4	-0.20	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07215	$0.0701^{+0.0029}_{-0.0045}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.698	$0.653^{+0.057}_{-0.11}$	$H(0.57)$	0.0003114	$0.0003063^{+0.0000065}_{-0.000010}$
A^{kSZ}	1.49	—	Ω_m	0.302	$0.347^{+0.11}_{-0.057}$	$DA(0.57)$	1378	1423^{+100}_{-58}
β_1^1	0.40	$0.6^{+1.6}_{-1.7}$	σ_8	0.070	$0.794^{+0.055}_{-0.11}$			
β_2^1	0.26	$0.1^{+1.9}_{-1.9}$	z_{re}	11.40	$11.5^{+2.2}_{-2.1}$			

Best-fit $\chi_{\text{eff}}^2 = 9814.98$; R-1 = 0.01397

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.37 lensing_likelihood_v3.ref.clik.lensing: 11.21 commander_v3.light.clik: -7.30 CAMspec_v6.2TN_2013_01_18.clik: 7796.71

4.3 base_mnu_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022134	$0.02216^{+0.00049}_{-0.00049}$	β_3^1	0.12	$0.0^{+1.9}_{-2.0}$	H_0	68.25	$67.7^{+1.7}_{-1.9}$
$\Omega_c h^2$	0.11885	$0.1182^{+0.0037}_{-0.0036}$	β_4^1	-0.15	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.211	$2.20^{+0.11}_{-0.10}$
θ	1.04143	$1.0415^{+0.0011}_{-0.0011}$	β_5^1	0.18	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14099	$0.1414^{+0.0034}_{-0.0032}$
τ	0.0945	$0.092^{+0.026}_{-0.024}$	β_1^2	0.12	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.09623	$0.0958^{+0.0013}_{-0.0016}$
Σm_ν	0.000	< 0.261	β_2^2	0.15	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247739	$0.24775^{+0.00021}_{-0.00021}$
n_s	0.9632	$0.964^{+0.012}_{-0.012}$	β_3^2	-0.16	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8302	$1.826^{+0.019}_{-0.020}$
$\log[10^{10} A_s]$	3.0961	$3.089^{+0.051}_{-0.048}$	β_4^2	-0.27	$0.1^{+2.0}_{-2.0}$	$\Omega_\nu h^2$	0.00000	< 0.00280
A_{100}^{PS}	179	150^{+100}_{-100}	β_5^2	-0.16	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.772	$13.81^{+0.11}_{-0.091}$
A_{143}^{PS}	44	53^{+30}_{-30}	β_1^3	0.18	$-0.1^{+1.9}_{-1.9}$	z_*	1090.21	$1090.13^{+0.80}_{-0.78}$
A_{217}^{PS}	116.0	118^{+30}_{-30}	β_2^3	-0.23	$-0.1^{+2.0}_{-2.0}$	r_*	144.90	$145.05^{+0.89}_{-0.89}$
A_{143}^{CIB}	12.6	—	β_3^3	-0.11	$0.0^{+2.0}_{-1.9}$	θ_*	1.04155	$1.0417^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	26.1	21^{+10}_{-9}	β_4^3	-0.24	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.36	$1059.4^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.87	—	β_5^3	0.21	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.66	$147.80^{+0.95}_{-0.93}$
$r_{PS143/217}$	0.846	> 0.670	β_1^4	0.23	$-0.1^{+1.9}_{-1.9}$	k_D	0.13998	$0.1399^{+0.0011}_{-0.0011}$
r_{CIB}	0.493	—	β_2^4	-0.01	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16131	$0.16132^{+0.00063}_{-0.00063}$
n^{CIB}	0.337	$0.24^{+0.26}_{-0.31}$	β_3^4	-0.04	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3369	3353^{+85}_{-83}
$c_{100/143}$	1.00055	$1.00061^{+0.00078}_{-0.00079}$	β_4^4	0.02	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8190	$0.822^{+0.016}_{-0.016}$
$c_{217/143}$	0.99612	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	-0.26	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07212	$0.0718^{+0.0012}_{-0.0013}$
$\xi^{tSZ-CIB}$	0.14	—	Ω_Λ	0.6973	$0.691^{+0.021}_{-0.024}$	$H(0.57)$	0.00031125	$0.0003102^{+0.0000029}_{-0.0000034}$
A^{kSZ}	0.1	—	Ω_m	0.3027	$0.309^{+0.024}_{-0.021}$	$DA(0.57)$	1378.8	1387^{+27}_{-23}
β_1^1	0.49	$0.5^{+1.7}_{-1.7}$	σ_8	0.8422	$0.816^{+0.037}_{-0.054}$			
β_2^1	-0.20	$0.1^{+1.9}_{-1.9}$	z_{re}	11.46	$11.2^{+2.1}_{-2.1}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.72$; R-1 = 0.01741

χ_{eff}^2 : BAO - DR7: 0.58 6DF: 0.04 DR9: 0.64 CMB - lowlike.v22.light.clik: 2014.43 commander.v3.light.clik: -7.26 CAMspec.v6.2TN_2013_01_18.clik: 7797.29

4.4 base_mnu_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02231	$0.02231^{+0.00052}_{-0.00052}$	β_3^1	0.11	$0.0^{+2.0}_{-1.9}$	H_0	69.31	$68.8^{+2.5}_{-2.6}$
$\Omega_c h^2$	0.11671	$0.1165^{+0.0048}_{-0.0047}$	β_4^1	0.30	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.213	$2.20^{+0.11}_{-0.10}$
θ	1.04182	$1.0418^{+0.0012}_{-0.0012}$	β_5^1	-0.06	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.13903	$0.1396^{+0.0048}_{-0.0047}$
τ	0.0976	$0.095^{+0.026}_{-0.025}$	β_1^2	0.02	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.09636	$0.0961^{+0.0012}_{-0.0015}$
Σm_ν	0.001	< 0.198	β_2^2	-0.30	$0.0^{+1.9}_{-2.0}$	Y_{He}	0.247815	$0.24781^{+0.00022}_{-0.00023}$
n_s	0.9678	$0.969^{+0.014}_{-0.014}$	β_3^2	-0.32	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8206	$1.820^{+0.023}_{-0.023}$
$\log[10^{10} A_s]$	3.097	$3.091^{+0.051}_{-0.049}$	β_4^2	0.18	$0.1^{+2.0}_{-2.0}$	$\Omega_\nu h^2$	0.00001	< 0.00213
A_{100}^{PS}	150	148^{+100}_{-100}	β_5^2	0.01	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.733	$13.76^{+0.13}_{-0.11}$
A_{143}^{PS}	56.6	51^{+30}_{-30}	β_1^3	-0.01	$-0.1^{+1.8}_{-1.9}$	z_*	1089.80	$1089.79^{+0.96}_{-0.95}$
A_{217}^{PS}	116.4	118^{+30}_{-30}	β_2^3	0.12	$-0.1^{+2.0}_{-1.9}$	r_*	145.33	$145.4^{+1.1}_{-1.1}$
A_{143}^{CIB}	11.4	—	β_3^3	-0.02	$0.0^{+1.9}_{-1.9}$	θ_*	1.04192	$1.0420^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	23.1	21^{+10}_{-9}	β_4^3	-0.32	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.63	$1059.6^{+1.1}_{-1.1}$
A_{143}^{tSZ}	6.71	—	β_5^3	-0.21	$-0.1^{+1.9}_{-2.0}$	r_{drag}	148.03	$148.1^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.848	> 0.669	β_1^4	0.12	$-0.1^{+1.9}_{-1.9}$	k_D	0.13973	$0.1397^{+0.0012}_{-0.0012}$
r_{CIB}	0.55	—	β_2^4	-0.29	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16119	$0.16121^{+0.00063}_{-0.00061}$
n^{CIB}	0.270	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.27	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3322	3317^{+110}_{-110}
$c_{100/143}$	1.00062	$1.00061^{+0.00074}_{-0.00080}$	β_4^4	0.15	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8284	$0.829^{+0.022}_{-0.021}$
$c_{217/143}$	0.99619	$0.9965^{+0.0025}_{-0.0026}$	β_5^4	0.32	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07292	$0.0726^{+0.0019}_{-0.0019}$
$\xi^{tSZ-CIB}$	0.89	—	Ω_Λ	0.7106	$0.705^{+0.029}_{-0.033}$	$H(0.57)$	0.00031283	$0.0003120^{+0.0000039}_{-0.0000042}$
A^{kSZ}	2.73	—	Ω_m	0.2894	$0.295^{+0.033}_{-0.029}$	$DA(0.57)$	1364.9	1372^{+36}_{-32}
β_1^1	0.44	$0.5^{+1.7}_{-1.6}$	σ_8	0.8359	$0.819^{+0.033}_{-0.044}$			
β_2^1	-0.06	$0.1^{+1.9}_{-1.9}$	z_{re}	11.60	$11.3^{+2.2}_{-2.1}$			

Best-fit $\chi_{\text{eff}}^2 = 9808.86$; R-1 = 0.03558

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.47 commander.v3.light.clik: -8.10 CAMspec.v6.2TN_2013_01_18.clik: 7798.96 Hubble - HST: 3.54

4.5 base_mnu_planck_CAMspec_lowl_lowLike_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02225	$0.02221^{+0.00055}_{-0.00055}$	β_3^1	-0.44	$0.0^{+2.0}_{-1.9}$	H_0	68.89	$68.1^{+2.8}_{-3.2}$
$\Omega_c h^2$	0.1175	$0.1175^{+0.0050}_{-0.0050}$	β_4^1	-0.01	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.224	$2.20^{+0.11}_{-0.10}$
θ	1.04160	$1.0416^{+0.0012}_{-0.0012}$	β_5^1	0.06	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1398	$0.1408^{+0.0053}_{-0.0050}$
τ	0.0990	$0.093^{+0.027}_{-0.025}$	β_1^2	-0.48	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.09629	$0.0958^{+0.0014}_{-0.0019}$
Σm_ν	0.000	< 0.281	β_2^2	-0.11	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247788	$0.24777^{+0.00023}_{-0.00024}$
n_s	0.9678	$0.966^{+0.014}_{-0.014}$	β_3^2	-0.60	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8246	$1.824^{+0.024}_{-0.023}$
$\log[10^{10} A_s]$	3.1020	$3.090^{+0.051}_{-0.048}$	β_4^2	-0.14	$0.1^{+2.0}_{-2.0}$	$\Omega_\nu h^2$	0.00000	< 0.00302
A_{100}^{PS}	154	150^{+100}_{-100}	β_5^2	0.05	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.749	$13.80^{+0.17}_{-0.12}$
A_{143}^{PS}	60.3	52^{+30}_{-30}	β_1^3	-0.16	$-0.1^{+1.9}_{-1.9}$	z_*	1089.95	$1090.0^{+1.0}_{-0.99}$
A_{217}^{PS}	122.8	118^{+30}_{-30}	β_2^3	-0.33	$-0.1^{+2.0}_{-2.0}$	r_*	145.17	$145.2^{+1.1}_{-1.1}$
A_{143}^{CIB}	8.94	—	β_3^3	0.22	$0.0^{+2.0}_{-1.9}$	θ_*	1.04172	$1.0418^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	21.9	21^{+10}_{-9}	β_4^3	-0.32	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$
A_{143}^{tSZ}	5.85	—	β_5^3	-0.21	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.89	$147.9^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.844	> 0.670	β_1^4	-0.26	$-0.1^{+1.9}_{-1.9}$	k_D	0.13983	$0.1398^{+0.0012}_{-0.0012}$
r_{CIB}	0.494	—	β_2^4	-0.75	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16122	$0.16128^{+0.00065}_{-0.00063}$
n^{CIB}	0.273	$0.24^{+0.26}_{-0.31}$	β_3^4	0.00	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3340	3338^{+110}_{-110}
$c_{100/143}$	1.00059	$1.00061^{+0.00076}_{-0.00079}$	β_4^4	0.20	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8248	$0.825^{+0.022}_{-0.022}$
$c_{217/143}$	0.99612	$0.9965^{+0.0025}_{-0.0026}$	β_5^4	-0.19	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07260	$0.0721^{+0.0020}_{-0.0022}$
$\xi^{tSZ-CIB}$	0.73	—	Ω_Λ	0.7055	$0.696^{+0.033}_{-0.041}$	$H(0.57)$	0.00031219	$0.0003107^{+0.000045}_{-0.000053}$
A^{kSZ}	0.7	—	Ω_m	0.2945	$0.304^{+0.041}_{-0.033}$	$DA(0.57)$	1370.4	1382^{+44}_{-37}
β_1^1	0.37	$0.5^{+1.7}_{-1.7}$	σ_8	0.8411	$0.815^{+0.037}_{-0.058}$			
β_2^1	0.06	$0.1^{+1.9}_{-1.9}$	z_{re}	11.77	$11.3^{+2.2}_{-2.1}$			

Best-fit $\chi_{\text{eff}}^2 = 10233.12$; R-1 = 0.01949

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.69 commander_v3.light.clik: -8.03 CAMspec_v6.2TN_2013_01_18.clik: 7798.36 SN - SNLS April_2012: 428.10

4.6 base_mnu_planck_CAMspec_lowl_lowLike_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02210^{+0.00056}_{-0.00056}$	β_3^1	-0.06	$0.0^{+2.0}_{-2.0}$	H_0	68.27	$67.0^{+3.1}_{-4.2}$
$\Omega_c h^2$	0.1190	$0.1188^{+0.0052}_{-0.0050}$	β_4^1	-0.07	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.224	$2.20^{+0.11}_{-0.10}$
θ	1.04146	$1.0414^{+0.0013}_{-0.0013}$	β_5^1	-0.15	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1412	$0.1425^{+0.0063}_{-0.0055}$
τ	0.0967	$0.091^{+0.027}_{-0.024}$	β_1^2	-0.14	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.09638	$0.0954^{+0.0016}_{-0.0026}$
Σm_ν	0.002	< 0.432	β_2^2	-0.14	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247764	$0.24772^{+0.00024}_{-0.00024}$
n_s	0.9644	$0.963^{+0.015}_{-0.015}$	β_3^2	0.01	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8326	$1.829^{+0.025}_{-0.024}$
$\log[10^{10} A_s]$	3.1017	$3.089^{+0.051}_{-0.047}$	β_4^2	0.33	$0.1^{+2.0}_{-2.0}$	$\Omega_\nu h^2$	0.00002	< 0.00465
A_{100}^{PS}	190	151^{+100}_{-100}	β_5^2	0.04	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.766	$13.85^{+0.23}_{-0.14}$
A_{143}^{PS}	53.6	53^{+30}_{-30}	β_1^3	-0.70	$0.0^{+1.9}_{-1.9}$	z_*	1090.15	$1090.3^{+1.1}_{-1.0}$
A_{217}^{PS}	123.4	119^{+30}_{-30}	β_2^3	-0.24	$-0.1^{+2.0}_{-2.0}$	r_*	144.83	$144.9^{+1.2}_{-1.2}$
A_{143}^{CIB}	10.8	—	β_3^3	0.11	$0.0^{+2.0}_{-1.9}$	θ_*	1.04158	$1.0416^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	22.9	21^{+10}_{-10}	β_4^3	-0.05	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.51	$1059.3^{+1.2}_{-1.1}$
A_{143}^{tSZ}	2.48	—	β_5^3	-0.28	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.56	$147.7^{+1.1}_{-1.2}$
$r_{PS143/217}$	0.824	> 0.671	β_1^4	-0.55	$-0.1^{+1.9}_{-1.9}$	k_D	0.14013	$0.1399^{+0.0012}_{-0.0012}$
r_{CIB}	0.365	—	β_2^4	-0.21	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16123	$0.16135^{+0.00066}_{-0.00064}$
n^{CIB}	0.344	$0.24^{+0.26}_{-0.31}$	β_3^4	-0.11	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3373	3367^{+120}_{-110}
$c_{100/143}$	1.00058	$1.00061^{+0.00077}_{-0.00078}$	β_4^4	-0.09	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8184	$0.819^{+0.022}_{-0.022}$
$c_{217/143}$	0.99631	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.40	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07210	$0.0713^{+0.0022}_{-0.0028}$
$\xi^{tSZ-CIB}$	0.22	—	Ω_Λ	0.6971	$0.681^{+0.039}_{-0.058}$	$H(0.57)$	0.0003114	$0.0003090^{+0.0000050}_{-0.0000070}$
A^{kSZ}	0.0	—	Ω_m	0.3029	$0.319^{+0.058}_{-0.039}$	$DA(0.57)$	1378	1397^{+62}_{-42}
β_1^1	0.37	$0.5^{+1.7}_{-1.7}$	σ_8	0.845	$0.807^{+0.045}_{-0.083}$			
β_2^1	0.01	$0.1^{+1.9}_{-1.9}$	z_{re}	11.63	$11.2^{+2.2}_{-2.2}$			

Best-fit $\chi_{\text{eff}}^2 = 9934.54$; R-1 = 0.01223

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.59 commander.v3.light.clik: -7.32 CAMspec.v6.2TN_2013_01_18.clik: 7797.04 SN - Union2.1: 130.22

4.7 base_mnu_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.02196^{+0.00070}_{-0.00070}$	β_3^1	-0.01	$0.0^{+2.0}_{-1.9}$	H_0	68.2	$63.7^{+5.8}_{-7.2}$
$\Omega_c h^2$	0.1190	$0.1198^{+0.0064}_{-0.0062}$	β_4^1	-0.04	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.219	$2.32^{+0.37}_{-0.34}$
θ	1.04141	$1.0411^{+0.0014}_{-0.0014}$	β_5^1	-0.04	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1411	$0.147^{+0.011}_{-0.0089}$
τ	0.096	$0.116^{+0.080}_{-0.082}$	β_1^2	-0.09	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09625	$0.0934^{+0.0033}_{-0.0047}$
Σm_ν	0.00	< 1.19	β_2^2	-0.08	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.247740	$0.24766^{+0.00030}_{-0.00031}$
n_s	0.9635	$0.960^{+0.020}_{-0.020}$	β_3^2	-0.097	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8308	$1.829^{+0.029}_{-0.029}$
$\log[10^{10} A_s]$	3.099	$3.14^{+0.15}_{-0.16}$	β_4^2	-0.05	$0.1^{+1.9}_{-2.0}$	$\Omega_\nu h^2$	0.0000	< 0.0128
A_{100}^{PS}	150	150^{+100}_{-100}	β_5^2	0.07	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.773	$14.03^{+0.41}_{-0.30}$
A_{143}^{PS}	49.9	53^{+30}_{-30}	β_1^3	-0.07	$0.0^{+1.9}_{-1.9}$	z_*	1090.22	$1090.7^{+1.6}_{-1.4}$
A_{217}^{PS}	125.8	119^{+30}_{-30}	β_2^3	-0.11	$-0.1^{+2.0}_{-2.0}$	r_*	144.87	$144.6^{+1.4}_{-1.4}$
A_{143}^{CIB}	7.32	—	β_3^3	-0.07	$0.0^{+1.9}_{-1.9}$	θ_*	1.04153	$1.0414^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	21.5	21^{+10}_{-10}	β_4^3	-0.18	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.40	$1059.2^{+1.3}_{-1.3}$
A_{143}^{tSZ}	6.88	—	β_5^3	0.00	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.62	$147.4^{+1.3}_{-1.4}$
$r_{PS143/217}$	0.780	> 0.672	β_1^4	-0.05	$-0.1^{+1.9}_{-1.9}$	k_D	0.14003	$0.1402^{+0.0014}_{-0.0013}$
r_{CIB}	0.541	—	β_2^4	-0.22	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16130	$0.16136^{+0.00074}_{-0.00071}$
n^{CIB}	0.203	$0.24^{+0.27}_{-0.30}$	β_3^4	-0.096	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3372	3388^{+140}_{-140}
$c_{100/143}$	1.00062	$1.00061^{+0.00078}_{-0.00077}$	β_4^4	-0.09	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8183	$0.816^{+0.027}_{-0.026}$
$c_{217/143}$	0.99663	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.02	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07207	$0.0692^{+0.0040}_{-0.0046}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.697	$0.633^{+0.082}_{-0.13}$	$H(0.57)$	0.0003112	$0.0003037^{+0.0000095}_{-0.000011}$
A^{kSZ}	0.1	—	Ω_m	0.303	$0.367^{+0.13}_{-0.082}$	$DA(0.57)$	1379	1446^{+110}_{-84}
β_1^1	0.44	$0.5^{+1.6}_{-1.7}$	σ_8	0.844	$0.76^{+0.11}_{-0.14}$			
β_2^1	0.06	$0.1^{+1.9}_{-1.9}$	z_{re}	11.6	$13.3^{+6.1}_{-7.6}$			

Best-fit $\chi_{\text{eff}}^2 = 7788.44$; R-1 = 0.01720

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.24 CAMspec_v6.2TN_2013_01_18.clik: 7795.67

4.8 base_mnu_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02224	$0.02197^{+0.00071}_{-0.00068}$	β_3^1	0.14	$0.0^{+1.9}_{-1.9}$	H_0	68.6	$63.0^{+6.5}_{-6.5}$
$\Omega_c h^2$	0.1182	$0.1199^{+0.0064}_{-0.0064}$	β_4^1	-0.095	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.224	$2.41^{+0.31}_{-0.30}$
θ	1.04162	$1.0410^{+0.0014}_{-0.0014}$	β_5^1	0.06	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1405	$0.148^{+0.010}_{-0.0097}$
τ	0.098	$0.138^{+0.068}_{-0.070}$	β_1^2	-0.24	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09640	$0.0930^{+0.0036}_{-0.0040}$
Σm_ν	0.00	< 1.17	β_2^2	0.02	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.247785	$0.24767^{+0.00031}_{-0.00030}$
n_s	0.9653	$0.961^{+0.021}_{-0.021}$	β_3^2	0.23	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8284	$1.829^{+0.030}_{-0.029}$
$\log[10^{10} A_s]$	3.102	$3.18^{+0.12}_{-0.13}$	β_4^2	-0.11	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.0000	< 0.0126
A_{100}^{PS}	186	144^{+100}_{-100}	β_5^2	0.06	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.753	$14.07^{+0.36}_{-0.34}$
A_{143}^{PS}	50.0	54^{+30}_{-30}	β_1^3	-0.16	$-0.1^{+1.9}_{-1.8}$	z_*	1090.02	$1090.7^{+1.6}_{-1.5}$
A_{217}^{PS}	113.8	121^{+30}_{-30}	β_2^3	-0.13	$-0.1^{+1.9}_{-1.9}$	r_*	144.99	$144.5^{+1.5}_{-1.4}$
A_{143}^{CIB}	11.1	—	β_3^3	0.01	$0.0^{+1.9}_{-2.0}$	θ_*	1.04172	$1.0414^{+0.0013}_{-0.0014}$
A_{217}^{CIB}	24.1	21^{+10}_{-10}	β_4^3	-0.02	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.59	$1059.2^{+1.3}_{-1.2}$
A_{143}^{tSZ}	2.39	—	β_5^3	-0.17	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.71	$147.3^{+1.4}_{-1.4}$
$r_{PS143/217}$	0.798	> 0.680	β_1^4	-0.30	$-0.1^{+1.9}_{-2.0}$	k_D	0.14002	$0.1403^{+0.0014}_{-0.0013}$
r_{CIB}	0.419	—	β_2^4	-0.07	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16121	$0.16130^{+0.00072}_{-0.00069}$
n^{CIB}	0.325	$0.24^{+0.27}_{-0.30}$	β_3^4	0.06	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3356	3390^{+140}_{-140}
$c_{100/143}$	1.00059	$1.00061^{+0.00078}_{-0.00078}$	β_4^4	-0.37	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8217	$0.816^{+0.027}_{-0.026}$
$c_{217/143}$	0.99629	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.01	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07238	$0.0688^{+0.0043}_{-0.0042}$
$\xi^{tSZ-CIB}$	0.33	—	Ω_Λ	0.702	$0.622^{+0.091}_{-0.12}$	$H(0.57)$	0.0003119	$0.000302^{+0.000010}_{-0.0000094}$
A^{kSZ}	2.37	—	Ω_m	0.298	$0.378^{+0.12}_{-0.091}$	$DA(0.57)$	1374	1457^{+100}_{-94}
β_1^1	0.21	$0.5^{+1.6}_{-1.7}$	σ_8	0.070	$0.757^{+0.098}_{-0.11}$			
β_2^1	0.22	$0.1^{+1.9}_{-1.9}$	z_{re}	11.7	$15.1^{+4.9}_{-5.9}$			

Best-fit $\chi_{\text{eff}}^2 = 7801.09$; R-1 = 0.02217

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik_lensing: 11.13 commander.v3.light.clik: -7.47 CAMspec.v6.2TN_2013.01.18.clik: 7797.43

4.9 base_mnu_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02212	$0.02222^{+0.00054}_{-0.00052}$	β_3^1	-0.01	$0.0^{+2.0}_{-1.9}$	H_0	68.24	$67.7^{+1.8}_{-2.0}$
$\Omega_c h^2$	0.11895	$0.1176^{+0.0040}_{-0.0044}$	β_4^1	0.15	$-0.1^{+1.9}_{-2.0}$	$10^9 A_s$	2.213	$2.30^{+0.34}_{-0.33}$
θ	1.04153	$1.0415^{+0.0011}_{-0.0012}$	β_5^1	-0.14	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14107	$0.1413^{+0.0035}_{-0.0034}$
τ	0.095	$0.114^{+0.073}_{-0.077}$	β_1^2	0.06	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09626	$0.0956^{+0.0015}_{-0.0019}$
Σm_ν	0.000	< 0.337	β_2^2	-0.05	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247732	$0.24778^{+0.00023}_{-0.00023}$
n_s	0.9624	$0.967^{+0.016}_{-0.015}$	β_3^2	-0.11	$-0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8297	$1.824^{+0.021}_{-0.023}$
$\log[10^{10} A_s]$	3.097	$3.13^{+0.14}_{-0.15}$	β_4^2	0.36	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00000	< 0.00363
A_{100}^{PS}	175	143^{+100}_{-100}	β_5^2	-0.23	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.771	$13.82^{+0.13}_{-0.10}$
A_{143}^{PS}	49.5	52^{+30}_{-30}	β_1^3	-0.04	$-0.1^{+1.8}_{-1.9}$	z_*	1090.24	$1090.01^{+0.89}_{-0.93}$
A_{217}^{PS}	113.8	119^{+30}_{-30}	β_2^3	-0.47	$-0.1^{+2.0}_{-2.0}$	r_*	144.89	$145.14^{+0.99}_{-0.95}$
A_{143}^{CIB}	13.4	—	β_3^3	-0.14	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04165	$1.0417^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	27.1	21^{+10}_{-10}	β_4^3	-0.18	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.36	$1059.5^{+1.1}_{-1.1}$
A_{143}^{tSZ}	5.74	—	β_5^3	-0.19	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.65	$147.9^{+1.0}_{-0.98}$
$r_{PS143/217}$	0.819	> 0.674	β_1^4	0.01	$-0.1^{+1.9}_{-1.9}$	k_D	0.13998	$0.1398^{+0.0011}_{-0.0011}$
r_{CIB}	0.580	—	β_2^4	-0.02	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16135	$0.16125^{+0.00066}_{-0.00063}$
n^{CIB}	0.303	$0.24^{+0.26}_{-0.31}$	β_3^4	-0.22	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3371	3342^{+92}_{-99}
$c_{100/143}$	1.00059	$1.00061^{+0.00076}_{-0.00076}$	β_4^4	0.15	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8187	$0.824^{+0.020}_{-0.017}$
$c_{217/143}$	0.99658	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.24	$0.0^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07211	$0.0718^{+0.0013}_{-0.0013}$
$\xi^{tSZ-CIB}$	0.39	—	Ω_Λ	0.6970	$0.691^{+0.023}_{-0.025}$	$H(0.57)$	0.00031126	$0.0003100^{+0.0000033}_{-0.0000036}$
A^{kSZ}	0.0	—	Ω_m	0.3030	$0.309^{+0.025}_{-0.023}$	$DA(0.57)$	1379.0	1387^{+28}_{-25}
β_1^1	0.35	$0.5^{+1.6}_{-1.7}$	σ_8	0.843	$0.825^{+0.061}_{-0.065}$			
β_2^1	-0.14	$0.1^{+1.8}_{-1.8}$	z_{re}	11.5	$12.8^{+5.4}_{-7.0}$			

Best-fit $\chi_{\text{eff}}^2 = 7791.11$; R-1 = 0.03726

χ_{eff}^2 : BAO - DR7: 0.60 6DF: 0.04 DR9: 0.63 CMB - commander_v3.light.clik: -7.04 CAMspec_v6.2TN_2013_01_18.clik: 7796.88

4.10 base_mnu_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02232	$0.02242^{+0.00061}_{-0.00060}$	β_3^1	0.39	$0.0^{+2.0}_{-1.9}$	H_0	69.24	$69.1^{+2.8}_{-2.9}$
$\Omega_c h^2$	0.1169	$0.1156^{+0.0054}_{-0.0053}$	β_4^1	-0.20	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.220	$2.36^{+0.34}_{-0.34}$
θ	1.04181	$1.0419^{+0.0014}_{-0.0013}$	β_5^1	0.44	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1392	$0.1390^{+0.0052}_{-0.0050}$
τ	0.099	$0.130^{+0.074}_{-0.080}$	β_1^2	-0.52	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.09641	$0.0960^{+0.0014}_{-0.0017}$
Σm_ν	0.000	< 0.248	β_2^2	-0.07	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247820	$0.24786^{+0.00026}_{-0.00026}$
n_s	0.9676	$0.973^{+0.018}_{-0.018}$	β_3^2	-0.01	$-0.1^{+2.0}_{-2.1}$	$10^9 A_s e^{-2\tau}$	1.8207	$1.816^{+0.025}_{-0.025}$
$\log[10^{10} A_s]$	3.100	$3.16^{+0.14}_{-0.15}$	β_4^2	0.09	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00001	< 0.00266
A_{100}^{PS}	133	138^{+100}_{-100}	β_5^2	0.14	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.732	$13.75^{+0.14}_{-0.13}$
A_{143}^{PS}	42	49^{+30}_{-30}	β_1^3	-0.01	$-0.1^{+1.9}_{-1.9}$	z_*	1089.80	$1089.6^{+1.1}_{-1.1}$
A_{217}^{PS}	117.9	119^{+30}_{-30}	β_2^3	-0.58	$-0.2^{+2.0}_{-1.9}$	r_*	145.27	$145.5^{+1.2}_{-1.2}$
A_{143}^{CIB}	9.03	—	β_3^3	-0.02	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04192	$1.0421^{+0.0013}_{-0.0012}$
A_{217}^{CIB}	23.1	$20.0^{+13}_{-9.2}$	β_4^3	-0.38	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.67	$1059.8^{+1.2}_{-1.2}$
A_{143}^{tSZ}	8.14	—	β_5^3	-0.19	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.97	$148.2^{+1.1}_{-1.2}$
$r_{PS143/217}$	0.856	> 0.671	β_1^4	-0.32	$-0.1^{+2.0}_{-2.0}$	k_D	0.13981	$0.1396^{+0.0012}_{-0.0012}$
r_{CIB}	0.548	—	β_2^4	-0.43	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16117	$0.16110^{+0.00066}_{-0.00062}$
n^{CIB}	0.263	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.03	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3327	3298^{+120}_{-120}
$c_{100/143}$	1.00066	$1.00061^{+0.00075}_{-0.00073}$	β_4^4	-0.25	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8275	$0.834^{+0.024}_{-0.024}$
$c_{217/143}$	0.99592	$0.9964^{+0.0024}_{-0.0025}$	β_5^4	-0.12	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07286	$0.0729^{+0.0020}_{-0.0021}$
$\xi^{tSZ-CIB}$	0.21	—	Ω_Λ	0.7096	$0.709^{+0.031}_{-0.036}$	$H(0.57)$	0.00031278	$0.0003124^{+0.0000048}_{-0.0000048}$
A^{kSZ}	1.91	—	Ω_m	0.2904	$0.291^{+0.036}_{-0.031}$	$DA(0.57)$	1365.6	1368^{+39}_{-37}
β_1^1	0.22	$0.4^{+1.7}_{-1.7}$	σ_8	0.838	$0.840^{+0.057}_{-0.064}$			
β_2^1	0.18	$0.1^{+1.8}_{-1.8}$	z_{re}	11.7	$13.9^{+5.1}_{-6.8}$			

Best-fit $\chi_{\text{eff}}^2 = 7794.60$; R-1 = 0.07873

χ_{eff}^2 : CMB - commander.v3.light.clik: -8.00 CAMspec.v6.2TN_2013_01_18.clik: 7798.96 Hubble - HST: 3.64

4.11 base_mnu_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02230^{+0.00063}_{-0.00061}$	β_3^1	-0.13	$0.0^{+2.0}_{-1.9}$	H_0	68.99	$68.2^{+3.1}_{-3.6}$
$\Omega_c h^2$	0.1172	$0.1167^{+0.0056}_{-0.0056}$	β_4^1	0.16	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.217	$2.33^{+0.36}_{-0.34}$
θ	1.04163	$1.0417^{+0.0013}_{-0.0013}$	β_5^1	-0.24	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1394	$0.1404^{+0.0058}_{-0.0055}$
τ	0.099	$0.122^{+0.078}_{-0.081}$	β_1^2	-0.29	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09618	$0.0957^{+0.0016}_{-0.0022}$
Σm_ν	0.000	< 0.367	β_2^2	0.30	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247775	$0.24781^{+0.00027}_{-0.00026}$
n_s	0.9648	$0.970^{+0.019}_{-0.018}$	β_3^2	-0.48	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8198	$1.820^{+0.026}_{-0.027}$
$\log[10^{10} A_s]$	3.099	$3.14^{+0.15}_{-0.16}$	β_4^2	-0.33	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00000	< 0.00395
A_{100}^{PS}	164	141^{+100}_{-100}	β_5^2	-0.24	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.750	$13.80^{+0.19}_{-0.14}$
A_{143}^{PS}	43	50^{+30}_{-30}	β_1^3	0.03	$-0.1^{+1.9}_{-1.9}$	z_*	1089.96	$1089.8^{+1.2}_{-1.1}$
A_{217}^{PS}	107.7	119^{+30}_{-30}	β_2^3	-0.32	$-0.2^{+2.0}_{-2.0}$	r_*	145.28	$145.3^{+1.2}_{-1.2}$
A_{143}^{CIB}	14.3	—	β_3^3	-0.22	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04174	$1.0418^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	27.6	20^{+10}_{-9}	β_4^3	-0.32	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.47	$1059.6^{+1.2}_{-1.2}$
A_{143}^{tSZ}	7.85	—	β_5^3	0.07	$-0.1^{+2.0}_{-2.0}$	r_{drag}	148.01	$148.0^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.863	> 0.672	β_1^4	-0.09	$-0.1^{+1.9}_{-2.0}$	k_D	0.13968	$0.1397^{+0.0012}_{-0.0012}$
r_{CIB}	0.615	—	β_2^4	-0.34	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16128	$0.16119^{+0.00069}_{-0.00065}$
n^{CIB}	0.309	$0.24^{+0.26}_{-0.30}$	β_3^4	0.09	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3331	3322^{+120}_{-130}
$c_{100/143}$	1.00063	$1.00061^{+0.00075}_{-0.00075}$	β_4^4	0.20	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8263	$0.829^{+0.025}_{-0.024}$
$c_{217/143}$	0.99599	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	-0.40	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07271	$0.0722^{+0.0023}_{-0.0025}$
$\xi^{tSZ-CIB}$	0.52	—	Ω_Λ	0.7071	$0.697^{+0.037}_{-0.047}$	$H(0.57)$	0.0003123	$0.0003108^{+0.0000049}_{-0.0000061}$
A^{kSZ}	2.67	—	Ω_m	0.2929	$0.303^{+0.047}_{-0.037}$	$DA(0.57)$	1369.2	1381^{+51}_{-41}
β_1^1	0.41	$0.4^{+1.6}_{-1.7}$	σ_8	0.838	$0.829^{+0.063}_{-0.077}$			
β_2^1	-0.17	$0.1^{+1.8}_{-1.8}$	z_{re}	11.7	$13.4^{+5.4}_{-7.0}$			

Best-fit $\chi_{\text{eff}}^2 = 8219.82$; R-1 = 0.04253

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.51 CAMspec.v6.2TN_2013_01_18.clik: 7799.35 SN - SNLS April_2012: 427.98

4.12 base_mnu_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02215	$0.02216^{+0.00063}_{-0.00062}$	β_3^1	0.16	$0.0^{+2.0}_{-1.9}$	H_0	68.32	$66.7^{+3.6}_{-4.9}$
$\Omega_c h^2$	0.1188	$0.1182^{+0.0058}_{-0.0058}$	β_4^1	-0.05	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.220	$2.30^{+0.36}_{-0.34}$
θ	1.04149	$1.0414^{+0.0013}_{-0.0013}$	β_5^1	-0.15	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1409	$0.1426^{+0.0069}_{-0.0061}$
τ	0.097	$0.114^{+0.078}_{-0.080}$	β_1^2	0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09628	$0.0951^{+0.0019}_{-0.0033}$
Σm_ν	0.001	< 0.605	β_2^2	-0.08	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247746	$0.24775^{+0.00027}_{-0.00027}$
n_s	0.9637	$0.966^{+0.019}_{-0.018}$	β_3^2	0.29	$-0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8303	$1.825^{+0.028}_{-0.027}$
$\log[10^{10} A_s]$	3.100	$3.13^{+0.15}_{-0.16}$	β_4^2	0.09	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00001	< 0.00651
A_{100}^{PS}	180	145^{+100}_{-100}	β_5^2	-0.25	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.768	$13.87^{+0.28}_{-0.17}$
A_{143}^{PS}	60.7	52^{+30}_{-30}	β_1^3	-0.15	$-0.1^{+1.9}_{-1.9}$	z_*	1090.18	$1090.2^{+1.2}_{-1.2}$
A_{217}^{PS}	117.3	119^{+30}_{-30}	β_2^3	-0.17	$-0.1^{+2.0}_{-2.0}$	r_*	144.92	$145.0^{+1.2}_{-1.2}$
A_{143}^{CIB}	12.0	—	β_3^3	0.34	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04161	$1.0416^{+0.0012}_{-0.0013}$
A_{217}^{CIB}	24.2	21^{+10}_{-10}	β_4^3	0.01	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.40	$1059.4^{+1.2}_{-1.2}$
A_{143}^{tSZ}	3.61	—	β_5^3	-0.30	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.67	$147.7^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.837	> 0.672	β_1^4	-0.18	$-0.1^{+1.9}_{-1.9}$	k_D	0.13999	$0.1399^{+0.0012}_{-0.0012}$
r_{CIB}	0.462	—	β_2^4	0.25	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16130	$0.16128^{+0.00071}_{-0.00067}$
n^{CIB}	0.330	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.097	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3367	3355^{+130}_{-130}
$c_{100/143}$	1.00060	$1.00061^{+0.00077}_{-0.00077}$	β_4^4	-0.13	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8194	$0.822^{+0.026}_{-0.025}$
$c_{217/143}$	0.99635	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.17	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07217	$0.0712^{+0.0026}_{-0.0032}$
$\xi^{tSZ-CIB}$	0.86	—	Ω_Λ	0.698	$0.678^{+0.046}_{-0.068}$	$H(0.57)$	0.0003114	$0.0003085^{+0.0000059}_{-0.0000082}$
A^{kSZ}	1.62	—	Ω_m	0.302	$0.322^{+0.068}_{-0.046}$	$DA(0.57)$	1378	1401^{+72}_{-50}
β_1^1	0.42	$0.5^{+1.6}_{-1.7}$	σ_8	0.844	$0.810^{+0.074}_{-0.10}$			
β_2^1	0.02	$0.1^{+1.9}_{-1.8}$	z_{re}	11.6	$12.9^{+5.8}_{-7.4}$			

Best-fit $\chi_{\text{eff}}^2 = 7920.12$; R-1 = 0.02024

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.23 CAMspec.v6.2TN_2013_01_18.clik: 7797.15 SN - Union2.1: 130.20

4.13 base_mnu_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.02197^{+0.00057}_{-0.00057}$	β_3^2	0.04	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9838	$0.983^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1192	$0.1203^{+0.0055}_{-0.0053}$	β_4^2	0.20	$0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9859	$0.987^{+0.019}_{-0.019}$
θ	1.04141	$1.0412^{+0.0013}_{-0.0013}$	β_5^2	-0.39	$-0.4^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0137	$1.021^{+0.047}_{-0.044}$
τ	0.0948	$0.091^{+0.027}_{-0.024}$	β_1^3	0.81	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.695	$0.661^{+0.052}_{-0.099}$
Σm_ν	0.009	< 0.717	β_2^3	-0.50	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.305	$0.339^{+0.099}_{-0.052}$
n_s	0.9606	$0.957^{+0.015}_{-0.015}$	β_3^3	0.27	$0.2^{+1.9}_{-1.9}$	σ_8	0.842	$0.792^{+0.060}_{-0.12}$
$\log[10^{10} A_s]$	3.0974	$3.090^{+0.051}_{-0.047}$	β_4^3	-0.31	$-0.4^{+1.9}_{-2.0}$	z_{re}	11.49	$11.2^{+2.2}_{-2.2}$
A_{100}^{PS}	173	189^{+80}_{-80}	β_5^3	-0.54	$-0.3^{+1.9}_{-2.0}$	H_0	68.1	$65.6^{+3.8}_{-6.3}$
A_{143}^{PS}	75.2	77^{+20}_{-20}	β_1^4	-0.04	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.214	$2.20^{+0.11}_{-0.10}$
A_{217}^{PS}	63.7	65^{+20}_{-20}	β_2^4	-0.16	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1414	$0.1448^{+0.0094}_{-0.0065}$
A_{143}^{CIB}	3.07	—	β_3^4	-0.18	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09630	$0.0949^{+0.0021}_{-0.0038}$
A_{217}^{CIB}	47.5	44^{+9}_{-9}	β_4^4	0.05	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247739	$0.24767^{+0.00024}_{-0.00025}$
A_{143}^{tSZ}	4.80	—	β_5^4	0.35	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8316	$1.834^{+0.025}_{-0.024}$
$r_{PS143/217}$	0.817	> 0.714	$A_{\text{PS,ACT}}^{148}$	10.48	$10.6^{+1.2}_{-1.1}$	$\Omega_\nu h^2$	0.000099	< 0.00771
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.8	$81.3^{+7.7}_{-7.8}$	Age/Gyr	13.776	$13.91^{+0.35}_{-0.18}$
n^{CIB}	0.516	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	6.90	$7.49^{+3.1}_{-2.7}$	z_*	1090.25	$1090.6^{+1.2}_{-1.1}$
$c_{100/143}$	1.00063	$1.00062^{+0.00078}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.10	$10.27^{+0.99}_{-0.96}$	r_*	144.81	$144.6^{+1.2}_{-1.3}$
$c_{217/143}$	0.99943	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.7	$77.8^{+8.1}_{-7.9}$	θ_*	1.04153	$1.0414^{+0.0012}_{-0.0012}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.804	> 0.664	z_{drag}	1059.40	$1059.1^{+1.1}_{-1.1}$
A^{kSZ}	1.75	—	$r_{\text{PS}}^{95/220}$	0.548	$0.56^{+0.25}_{-0.21}$	r_{drag}	147.56	$147.4^{+1.2}_{-1.2}$
β_1^1	0.63	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9131	> 0.904	k_D	0.14008	$0.1401^{+0.0013}_{-0.0013}$
β_2^1	-0.18	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.428	< 0.757	θ_D	0.16130	$0.16144^{+0.00064}_{-0.00063}$
β_3^1	0.23	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.843	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3377	3399^{+120}_{-120}
β_4^1	0.01	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{148}	0.9921	$0.992^{+0.014}_{-0.014}$	θ_{EQ}	0.8174	$0.813^{+0.023}_{-0.023}$
β_5^1	-0.02	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{217}	1.0042	$1.004^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07199	$0.0704^{+0.0027}_{-0.0041}$
β_1^2	-0.76	$-1.15^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9884	$0.988^{+0.014}_{-0.014}$	$H(0.57)$	0.0003111	$0.0003069^{+0.0000060}_{-0.0000098}$
β_2^2	-0.38	$-0.3^{+2.0}_{-1.9}$	c_{ACTe}^{217}	0.9606	$0.963^{+0.020}_{-0.020}$	$DA(0.57)$	1381	1417^{+95}_{-54}

Best-fit $\chi_{\text{eff}}^2 = 10519.34$; R-1 = 0.01597

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.48 commander.v3.light.clik: -6.55 CAMspec.v6.2TN_2013_01_18.clik: 7817.86 actspt_2013_01.clik: 693.49

4.14 base_mnu_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02218	$0.02198^{+0.00057}_{-0.00058}$	β_3^2	0.02	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9872	$0.983^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1188	$0.1209^{+0.0056}_{-0.0049}$	β_4^2	-0.02	$0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9881	$0.987^{+0.019}_{-0.019}$
θ	1.04149	$1.0411^{+0.0012}_{-0.0013}$	β_5^2	-0.12	$-0.4^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0167	$1.021^{+0.046}_{-0.043}$
τ	0.0983	$0.093^{+0.027}_{-0.025}$	β_1^3	0.74	$0.8^{+1.9}_{-1.8}$	Ω_Λ	0.698	$0.662^{+0.048}_{-0.097}$
Σm_ν	0.000	< 0.582	β_2^3	-0.19	$-0.6^{+1.9}_{-2.0}$	Ω_m	0.302	$0.338^{+0.097}_{-0.048}$
n_s	0.9625	$0.956^{+0.014}_{-0.016}$	β_3^3	0.13	$0.2^{+1.9}_{-1.9}$	σ_8	0.070	$0.805^{+0.045}_{-0.096}$
$\log[10^{10} A_s]$	3.1038	$3.097^{+0.049}_{-0.045}$	β_4^3	-0.25	$-0.4^{+1.9}_{-2.0}$	z_{re}	11.77	$11.5^{+2.2}_{-2.1}$
A_{100}^{PS}	176	187^{+80}_{-80}	β_5^3	-0.44	$-0.3^{+1.9}_{-2.0}$	H_0	68.34	$65.7^{+3.5}_{-6.0}$
A_{143}^{PS}	74.2	77^{+20}_{-20}	β_1^4	-0.13	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.228	$2.21^{+0.11}_{-0.098}$
A_{217}^{PS}	62.0	65^{+20}_{-20}	β_2^4	-0.24	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1409	$0.1449^{+0.0095}_{-0.0061}$
A_{143}^{CIB}	3.11	—	β_3^4	0.23	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09632	$0.0951^{+0.0018}_{-0.0034}$
A_{217}^{CIB}	48.1	44^{+9}_{-9}	β_4^4	0.01	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247757	$0.24767^{+0.00025}_{-0.00026}$
A_{143}^{tSZ}	4.98	—	β_5^4	0.22	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8305	$1.837^{+0.023}_{-0.022}$
$r_{PS143/217}$	0.828	> 0.713	$A_{\text{PS,ACT}}^{148}$	10.60	$10.7^{+1.2}_{-1.1}$	$\Omega_\nu h^2$	0.00000	< 0.00626
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.4	$81.4^{+7.7}_{-7.8}$	Age/Gyr	13.765	$13.90^{+0.32}_{-0.17}$
n^{CIB}	0.522	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.27	$7.51^{+3.1}_{-2.7}$	z_*	1090.15	$1090.6^{+1.3}_{-1.1}$
$c_{100/143}$	1.00057	$1.00062^{+0.00080}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.21	$10.30^{+0.98}_{-0.95}$	r_*	144.90	$144.5^{+1.1}_{-1.3}$
$c_{217/143}$	0.99949	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.6	$77.9^{+8.0}_{-7.9}$	θ_*	1.04160	$1.0413^{+0.0012}_{-0.0012}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.794	> 0.664	z_{drag}	1059.47	$1059.2^{+1.2}_{-1.1}$
A^{kSZ}	0.95	—	$r_{\text{PS}}^{95/220}$	0.550	$0.56^{+0.25}_{-0.21}$	r_{drag}	147.64	$147.3^{+1.1}_{-1.2}$
β_1^1	0.69	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9128	> 0.904	k_D	0.14004	$0.1403^{+0.0013}_{-0.0012}$
β_2^1	-0.12	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.442	< 0.755	θ_D	0.16127	$0.16141^{+0.00064}_{-0.00064}$
β_3^1	0.17	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.854	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3368	3413^{+120}_{-110}
β_4^1	0.17	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9926	$0.992^{+0.015}_{-0.014}$	θ_{EQ}	0.8194	$0.811^{+0.021}_{-0.022}$
β_5^1	-0.04	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0029	$1.004^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07217	$0.0704^{+0.0025}_{-0.0040}$
β_1^2	-0.86	$-1.14^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9895	$0.988^{+0.014}_{-0.014}$	$H(0.57)$	0.0003114	$0.0003072^{+0.0000056}_{-0.0000093}$
β_2^2	0.00	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9611	$0.963^{+0.020}_{-0.020}$	$DA(0.57)$	1377	1415^{+90}_{-49}

Best-fit $\chi_{\text{eff}}^2 = 10529.98$; R-1 = 0.01429

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.77 lensing_likelihood_v3.ref.clik.lensing: 11.19 commander_v3.light.clik: -6.74 CAMspec_v6.2TN_2013_01_18.clik: 7818.68 actspt_2013_01.clik: 691.96

4.15 base_mnu_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022156	$0.02212^{+0.00049}_{-0.00047}$	β_3^2	-0.096	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9837	$0.984^{+0.039}_{-0.036}$
$\Omega_c h^2$	0.11899	$0.1184^{+0.0037}_{-0.0036}$	β_4^2	0.13	$0.3^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9859	$0.988^{+0.019}_{-0.018}$
θ	1.04149	$1.0415^{+0.0011}_{-0.0011}$	β_5^2	-0.40	$-0.4^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0153	$1.022^{+0.045}_{-0.043}$
τ	0.0979	$0.092^{+0.027}_{-0.024}$	β_1^3	0.73	$0.8^{+1.9}_{-1.8}$	Ω_Λ	0.6969	$0.691^{+0.021}_{-0.024}$
Σm_ν	0.000	< 0.242	β_2^3	-0.56	$-0.6^{+1.9}_{-2.0}$	Ω_m	0.3031	$0.309^{+0.024}_{-0.021}$
n_s	0.9613	$0.962^{+0.011}_{-0.011}$	β_3^3	0.40	$0.2^{+1.9}_{-2.0}$	σ_8	0.8450	$0.818^{+0.035}_{-0.051}$
$\log[10^{10} A_s]$	3.103	$3.090^{+0.052}_{-0.048}$	β_4^3	-0.50	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.74	$11.3^{+2.2}_{-2.2}$
A_{100}^{PS}	167	187^{+80}_{-80}	β_5^3	-0.22	$-0.3^{+1.9}_{-1.9}$	H_0	68.24	$67.7^{+1.7}_{-1.8}$
A_{143}^{PS}	75.1	76^{+20}_{-20}	β_1^4	-0.26	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.227	$2.20^{+0.12}_{-0.10}$
A_{217}^{PS}	62.7	64^{+20}_{-20}	β_2^4	-0.22	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14115	$0.1415^{+0.0034}_{-0.0032}$
A_{143}^{CIB}	3.30	—	β_3^4	0.13	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09632	$0.0958^{+0.0013}_{-0.0015}$
A_{217}^{CIB}	48.9	44^{+9}_{-9}	β_4^4	0.29	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247748	$0.24773^{+0.00021}_{-0.00020}$
A_{143}^{tSZ}	5.26	—	β_5^4	0.11	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8306	$1.827^{+0.019}_{-0.019}$
$r_{PS143/217}$	0.829	> 0.710	$A_{\text{PS,ACT}}^{148}$	10.46	$10.6^{+1.2}_{-1.1}$	$\Omega_\nu h^2$	0.00000	< 0.00260
r_{CIB}	0.9996	—	$A_{\text{PS,ACT}}^{218}$	79.9	$81.5^{+7.7}_{-7.9}$	Age/Gyr	13.769	$13.81^{+0.11}_{-0.088}$
n^{CIB}	0.532	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.08	$7.55^{+3.1}_{-2.7}$	z_*	1090.20	$1090.20^{+0.79}_{-0.78}$
$c_{100/143}$	1.00060	$1.00063^{+0.00079}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.03	$10.32^{+0.99}_{-0.95}$	r_*	144.85	$145.03^{+0.89}_{-0.87}$
$c_{217/143}$	0.99939	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.9	$78.0^{+8.2}_{-7.8}$	θ_*	1.04160	$1.0417^{+0.0011}_{-0.0011}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.805	> 0.664	z_{drag}	1059.44	$1059.3^{+1.1}_{-1.1}$
A^{kSZ}	0.95	—	$r_{\text{PS}}^{95/220}$	0.563	$0.56^{+0.24}_{-0.21}$	r_{drag}	147.60	$147.79^{+0.92}_{-0.91}$
β_1^1	0.52	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9134	> 0.905	k_D	0.14006	$0.1398^{+0.0011}_{-0.0011}$
β_2^1	0.16	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.423	< 0.755	θ_D	0.16129	$0.16136^{+0.00060}_{-0.00062}$
β_3^1	0.05	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.874	$0.85^{+0.40}_{-0.39}$	z_{EQ}	3373	3358^{+84}_{-84}
β_4^1	-0.01	$0.0^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9920	$0.993^{+0.015}_{-0.014}$	θ_{EQ}	0.8184	$0.821^{+0.016}_{-0.016}$
β_5^1	-0.06	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0012	$1.005^{+0.027}_{-0.026}$	$r_s/D_v(0.57)$	0.07210	$0.0718^{+0.0012}_{-0.0013}$
β_1^2	-0.99	$-1.16^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9880	$0.989^{+0.014}_{-0.014}$	$H(0.57)$	0.00031131	$0.0003101^{+0.0000028}_{-0.0000031}$
β_2^2	0.00	$-0.3^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9608	$0.963^{+0.020}_{-0.021}$	$DA(0.57)$	1378.8	1387^{+26}_{-23}

Best-fit $\chi_{\text{eff}}^2 = 10521.16$; R-1 = 0.01929

χ_{eff}^2 : BAO - DR9: 0.60 DR7: 0.62 6DF: 0.04 CMB - lowlike.v22.light.clik: 2014.76 commander.v3.light.clik: -6.51 CAMspec.v6.2TN_2013.01.18.clik: 7818.34 actspt_2013.01.clik: 693.14

4.16 base_mnu_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022289	$0.02225^{+0.00050}_{-0.00050}$	β_3^2	-0.01	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9859	$0.985^{+0.038}_{-0.037}$
$\Omega_c h^2$	0.11716	$0.1170^{+0.0046}_{-0.0042}$	β_4^2	0.25	$0.3^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9883	$0.990^{+0.019}_{-0.018}$
θ	1.04171	$1.0417^{+0.0011}_{-0.0012}$	β_5^2	-0.24	$-0.4^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0216	$1.023^{+0.047}_{-0.044}$
τ	0.1002	$0.095^{+0.028}_{-0.027}$	β_1^3	0.83	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.7078	$0.702^{+0.026}_{-0.032}$
Σm_ν	0.001	< 0.190	β_2^3	-0.61	$-0.6^{+1.9}_{-2.0}$	Ω_m	0.2922	$0.298^{+0.032}_{-0.026}$
n_s	0.9657	$0.965^{+0.013}_{-0.013}$	β_3^3	-0.04	$0.2^{+1.9}_{-2.0}$	σ_8	0.8398	$0.821^{+0.031}_{-0.042}$
$\log[10^{10} A_s]$	3.104	$3.091^{+0.054}_{-0.053}$	β_4^3	-0.38	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.85	$11.4^{+2.2}_{-2.4}$
A_{100}^{PS}	170	186^{+80}_{-80}	β_5^3	-0.32	$-0.3^{+1.9}_{-1.9}$	H_0	69.09	$68.6^{+2.1}_{-2.4}$
A_{143}^{PS}	73.2	74^{+20}_{-20}	β_1^4	0.05	$-0.4^{+1.9}_{-2.0}$	$10^9 A_s$	2.228	$2.20^{+0.12}_{-0.11}$
A_{217}^{PS}	63.1	63^{+20}_{-20}	β_2^4	-0.27	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.13946	$0.1400^{+0.0046}_{-0.0041}$
A_{143}^{CIB}	3.00	—	β_3^4	-0.02	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09635	$0.0960^{+0.0012}_{-0.0014}$
A_{217}^{CIB}	47.0	44^{+9}_{-9}	β_4^4	0.08	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247805	$0.24779^{+0.00021}_{-0.00021}$
A_{143}^{tSZ}	4.69	—	β_5^4	0.39	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8233	$1.821^{+0.022}_{-0.021}$
$r_{PS143/217}$	0.805	> 0.706	$A_{\text{PS,ACT}}^{148}$	10.49	$10.7^{+1.2}_{-1.1}$	$\Omega_\nu h^2$	0.00001	< 0.00205
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.5	$81.6^{+7.5}_{-7.9}$	Age/Gyr	13.740	$13.77^{+0.12}_{-0.093}$
n^{CIB}	0.513	$0.49^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.23	$7.57^{+3.1}_{-2.7}$	z_*	1089.87	$1089.92^{+0.92}_{-0.83}$
$c_{100/143}$	1.00064	$1.00063^{+0.00080}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.14	$10.35^{+0.97}_{-0.93}$	r_*	145.23	$145.3^{+1.0}_{-1.1}$
$c_{217/143}$	0.99958	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.3	$78.3^{+8.2}_{-7.9}$	θ_*	1.04182	$1.0419^{+0.0011}_{-0.0012}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.783	> 0.662	z_{drag}	1059.63	$1059.5^{+1.1}_{-1.0}$
A^{kSZ}	1.94	—	$r_{\text{PS}}^{95/220}$	0.536	$0.56^{+0.24}_{-0.20}$	r_{drag}	147.93	$148.0^{+1.1}_{-1.1}$
β_1^1	0.63	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9138	> 0.905	k_D	0.13981	$0.1397^{+0.0012}_{-0.0012}$
β_2^1	-0.16	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.427	< 0.756	θ_D	0.16119	$0.16127^{+0.00062}_{-0.00063}$
β_3^1	0.16	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.829	$0.85^{+0.40}_{-0.38}$	z_{EQ}	3332	3328^{+110}_{-97}
β_4^1	0.03	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9928	$0.993^{+0.014}_{-0.014}$	θ_{EQ}	0.8264	$0.827^{+0.019}_{-0.020}$
β_5^1	-0.11	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0051	$1.006^{+0.027}_{-0.026}$	$r_s/D_v(0.57)$	0.07275	$0.0725^{+0.0016}_{-0.0018}$
β_1^2	-0.71	$-1.16^{+1.8}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9895	$0.990^{+0.014}_{-0.013}$	$H(0.57)$	0.00031251	$0.0003115^{+0.0000034}_{-0.0000039}$
β_2^2	-0.21	$-0.3^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9624	$0.964^{+0.021}_{-0.020}$	$DA(0.57)$	1367.7	1375^{+33}_{-28}

Best-fit $\chi_{\text{eff}}^2 = 10524.27$; R-1 = 0.04153

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.83 commander.v3.light.clik: -7.43 CAMspec.v6.2TN_2013_01_18.clik: 7819.44 actspt_2013_01.clik: 693.53 Hubble - HST: 3.88

4.17 base_mnu_planck_CAMspec_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02216^{+0.00051}_{-0.00051}$	β_3^2	0.22	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9862	$0.985^{+0.039}_{-0.036}$
$\Omega_c h^2$	0.11927	$0.1179^{+0.0049}_{-0.0045}$	β_4^2	0.07	$0.3^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9860	$0.989^{+0.019}_{-0.018}$
θ	1.04151	$1.0415^{+0.0012}_{-0.0012}$	β_5^2	-0.34	$-0.4^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0117	$1.022^{+0.046}_{-0.043}$
τ	0.0974	$0.093^{+0.027}_{-0.026}$	β_1^3	0.47	$0.8^{+1.9}_{-1.8}$	Ω_Λ	0.6953	$0.693^{+0.029}_{-0.039}$
Σm_ν	0.000	< 0.263	β_2^3	-0.62	$-0.6^{+1.9}_{-2.0}$	Ω_m	0.3047	$0.307^{+0.039}_{-0.029}$
n_s	0.9610	$0.963^{+0.014}_{-0.013}$	β_3^3	0.31	$0.2^{+1.9}_{-2.0}$	σ_8	0.8460	$0.817^{+0.035}_{-0.054}$
$\log[10^{10} A_s]$	3.103	$3.090^{+0.053}_{-0.050}$	β_4^3	-0.17	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.71	$11.3^{+2.2}_{-2.3}$
A_{100}^{PS}	167	187^{+80}_{-80}	β_5^3	-0.30	$-0.3^{+1.9}_{-1.9}$	H_0	68.13	$67.9^{+2.4}_{-2.9}$
A_{143}^{PS}	74.3	75^{+20}_{-20}	β_1^4	-0.20	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.227	$2.20^{+0.12}_{-0.11}$
A_{217}^{PS}	62.4	63^{+20}_{-20}	β_2^4	0.04	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14141	$0.1411^{+0.0051}_{-0.0045}$
A_{143}^{CIB}	3.26	—	β_3^4	0.29	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09634	$0.0958^{+0.0013}_{-0.0017}$
A_{217}^{CIB}	48.9	44^{+9}_{-9}	β_4^4	-0.06	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247738	$0.24775^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	5.45	—	β_5^4	0.26	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.825^{+0.023}_{-0.022}$
$r_{PS143/217}$	0.832	> 0.709	$A_{\text{PS,ACT}}^{148}$	10.42	$10.6^{+1.2}_{-1.1}$	$\Omega_\nu h^2$	0.00000	< 0.00283
r_{CIB}	0.9999	—	$A_{\text{PS,ACT}}^{218}$	79.8	$81.6^{+7.6}_{-7.9}$	Age/Gyr	13.772	$13.80^{+0.15}_{-0.11}$
n^{CIB}	0.537	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	6.71	$7.55^{+3.1}_{-2.7}$	z_*	1090.25	$1090.12^{+0.96}_{-0.91}$
$c_{100/143}$	1.00065	$1.00063^{+0.00080}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.04	$10.33^{+0.99}_{-0.94}$	r_*	144.80	$145.1^{+1.1}_{-1.1}$
$c_{217/143}$	0.99972	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.5	$78.1^{+8.2}_{-7.9}$	θ_*	1.04162	$1.0417^{+0.0011}_{-0.0012}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.817	> 0.662	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.1}$
A^{kSZ}	0.95	—	$r_{\text{PS}}^{95/220}$	0.583	$0.56^{+0.24}_{-0.21}$	r_{drag}	147.55	$147.9^{+1.1}_{-1.1}$
β_1^1	0.67	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9169	> 0.905	k_D	0.14010	$0.1398^{+0.0012}_{-0.0012}$
β_2^1	0.18	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.443	< 0.755	θ_D	0.16131	$0.16133^{+0.00062}_{-0.00062}$
β_3^1	-0.26	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.863	$0.85^{+0.40}_{-0.38}$	z_{EQ}	3379	3347^{+110}_{-100}
β_4^1	0.18	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9921	$0.993^{+0.015}_{-0.014}$	θ_{EQ}	0.8172	$0.823^{+0.020}_{-0.021}$
β_5^1	0.16	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0026	$1.006^{+0.027}_{-0.026}$	$r_s/D_v(0.57)$	0.07201	$0.0720^{+0.0018}_{-0.0020}$
β_1^2	-0.57	$-1.16^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9886	$0.989^{+0.014}_{-0.014}$	$H(0.57)$	0.00031116	$0.0003105^{+0.000038}_{-0.000047}$
β_2^2	0.17	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9595	$0.964^{+0.020}_{-0.020}$	$DA(0.57)$	1380.3	1384^{+41}_{-32}

Best-fit $\chi_{\text{eff}}^2 = 10949.86$; R-1 = 0.02148

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.74 commander.v3.light.clik: -6.43 CAMspec.v6.2TN_2013_01_18.clik: 7818.81 actspt_2013_01.clik: 693.67 SN - SNLS April.2012: 428.93

4.18 base_mnu_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02218	$0.02207^{+0.00054}_{-0.00052}$	β_3^2	0.31	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9868	$0.984^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.11872	$0.1191^{+0.0050}_{-0.0048}$	β_4^2	0.02	$0.3^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9864	$0.988^{+0.019}_{-0.018}$
θ	1.04158	$1.0414^{+0.0012}_{-0.0012}$	β_5^2	-0.54	$-0.4^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0185	$1.022^{+0.046}_{-0.043}$
τ	0.0988	$0.092^{+0.027}_{-0.025}$	β_1^3	0.78	$0.8^{+1.9}_{-1.8}$	Ω_Λ	0.6987	$0.681^{+0.036}_{-0.051}$
Σm_ν	0.002	< 0.378	β_2^3	-0.64	$-0.6^{+1.9}_{-2.0}$	Ω_m	0.3013	$0.319^{+0.051}_{-0.036}$
n_s	0.9622	$0.960^{+0.014}_{-0.014}$	β_3^3	0.15	$0.2^{+1.9}_{-2.0}$	σ_8	0.845	$0.811^{+0.042}_{-0.074}$
$\log[10^{10} A_s]$	3.104	$3.090^{+0.052}_{-0.048}$	β_4^3	-0.50	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.80	$11.2^{+2.2}_{-2.2}$
A_{100}^{PS}	177	188^{+80}_{-80}	β_5^3	-0.46	$-0.3^{+1.9}_{-1.9}$	H_0	68.39	$67.0^{+2.8}_{-3.7}$
A_{143}^{PS}	73.2	76^{+20}_{-20}	β_1^4	-0.27	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.230	$2.20^{+0.12}_{-0.10}$
A_{217}^{PS}	62.5	64^{+20}_{-20}	β_2^4	0.08	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1409	$0.1426^{+0.0058}_{-0.0051}$
A_{143}^{CIB}	2.86	—	β_3^4	0.02	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09638	$0.0955^{+0.0015}_{-0.0023}$
A_{217}^{CIB}	47.2	44^{+9}_{-9}	β_4^4	-0.05	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247760	$0.24771^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	4.49	—	β_5^4	0.096	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8301	$1.830^{+0.024}_{-0.023}$
$r_{PS143/217}$	0.816	> 0.711	$A_{\text{PS,ACT}}^{148}$	10.51	$10.6^{+1.2}_{-1.1}$	$\Omega_\nu h^2$	0.00002	< 0.00407
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.0	$81.5^{+7.7}_{-7.9}$	Age/Gyr	13.762	$13.84^{+0.20}_{-0.13}$
n^{CIB}	0.518	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.33	$7.52^{+3.1}_{-2.7}$	z_*	1090.14	$1090.3^{+1.0}_{-0.97}$
$c_{100/143}$	1.00065	$1.00063^{+0.00080}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.12	$10.31^{+0.99}_{-0.94}$	r_*	144.90	$144.9^{+1.1}_{-1.1}$
$c_{217/143}$	0.99949	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.6	$78.0^{+8.1}_{-7.8}$	θ_*	1.04170	$1.0416^{+0.0012}_{-0.0012}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.772	> 0.662	z_{drag}	1059.47	$1059.3^{+1.1}_{-1.1}$
A^{kSZ}	2.35	—	$r_{\text{PS}}^{95/220}$	0.522	$0.56^{+0.25}_{-0.21}$	r_{drag}	147.64	$147.6^{+1.1}_{-1.1}$
β_1^1	0.74	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9149	> 0.904	k_D	0.14004	$0.1400^{+0.0012}_{-0.0012}$
β_2^1	-0.04	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.435	< 0.755	θ_D	0.16127	$0.16139^{+0.00062}_{-0.00063}$
β_3^1	0.12	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.862	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3367	3374^{+110}_{-110}
β_4^1	-0.13	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9931	$0.992^{+0.015}_{-0.014}$	θ_{EQ}	0.8196	$0.818^{+0.021}_{-0.021}$
β_5^1	0.03	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0057	$1.005^{+0.027}_{-0.026}$	$r_s/D_v(0.57)$	0.07221	$0.0713^{+0.0020}_{-0.0025}$
β_1^2	-0.92	$-1.16^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9896	$0.989^{+0.014}_{-0.014}$	$H(0.57)$	0.0003116	$0.0003091^{+0.000045}_{-0.000062}$
β_2^2	-0.09	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9625	$0.963^{+0.020}_{-0.020}$	$DA(0.57)$	1376.8	1397^{+54}_{-38}

Best-fit $\chi_{\text{eff}}^2 = 10649.86$; R-1 = 0.01292

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.82 commander.v3.light.clik: -6.65 CAMspec.v6.2TN_2013_01_18.clik: 7818.32 actspt_2013_01.clik: 693.05 SN - Union2.1: 130.19

4.19 base_mnu_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02264	$0.0224^{+0.0011}_{-0.0011}$	z_{re}	10.84	$10.7^{+2.3}_{-2.2}$	θ_*	1.04041	$1.0400^{+0.0044}_{-0.0045}$
$\Omega_c h^2$	0.1144	$0.1151^{+0.0096}_{-0.0092}$	H_0	69.7	65^{+7}_{-8}	z_{drag}	1060.24	$1059.7^{+2.3}_{-2.3}$
θ	1.04032	$1.0397^{+0.0044}_{-0.0045}$	$10^9 A_s$	2.222	$2.20^{+0.13}_{-0.12}$	r_{drag}	148.28	$148.2^{+2.4}_{-2.4}$
τ	0.0903	$0.087^{+0.029}_{-0.025}$	$\Omega_m h^2$	0.1375	$0.143^{+0.014}_{-0.012}$	k_D	0.13971	$0.1397^{+0.0027}_{-0.0027}$
Σm_ν	0.04	< 1.16	$\Omega_m h^3$	0.0958	$0.0926^{+0.0050}_{-0.0055}$	θ_D	0.16059	$0.1608^{+0.0011}_{-0.0010}$
n_s	0.9751	$0.966^{+0.029}_{-0.031}$	Y_{He}	0.247955	$0.24783^{+0.00047}_{-0.00048}$	z_{EQ}	3275	3284^{+220}_{-210}
$\log[10^{10} A_s]$	3.101	$3.088^{+0.060}_{-0.057}$	$10^9 A_s e^{-2\tau}$	1.854	$1.845^{+0.061}_{-0.061}$	θ_{EQ}	0.8370	$0.836^{+0.043}_{-0.041}$
A_{SZ}	0.00	—	$\Omega_\nu h^2$	0.0004	< 0.0125	$r_s/D_v(0.57)$	0.0732	$0.0703^{+0.0052}_{-0.0055}$
Ω_Λ	0.717	$0.656^{+0.093}_{-0.14}$	Age/Gyr	13.746	$14.02^{+0.47}_{-0.40}$	$H(0.57)$	0.0003129	$0.000305^{+0.000013}_{-0.000013}$
Ω_m	0.283	$0.344^{+0.14}_{-0.093}$	z_*	1089.19	$1089.8^{+2.2}_{-1.9}$	$DA(0.57)$	1361	1430^{+130}_{-100}
σ_8	0.822	$0.72^{+0.11}_{-0.14}$	r_*	145.68	$145.5^{+2.4}_{-2.4}$			

Best-fit $\chi_{\text{eff}}^2 = 7557.79$; R-1 = 0.00793

χ_{eff}^2 : CMB - WMAP: 7557.80

4.20 base_mnu_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02252	$0.02258^{+0.00092}_{-0.00088}$	z_{re}	10.69	$10.7^{+2.3}_{-2.2}$	θ_*	1.03996	$1.0403^{+0.0043}_{-0.0041}$
$\Omega_c h^2$	0.1161	$0.1133^{+0.0061}_{-0.0068}$	H_0	68.32	$67.8^{+2.1}_{-2.2}$	z_{drag}	1060.09	$1060.0^{+2.2}_{-2.1}$
θ	1.03982	$1.0401^{+0.0043}_{-0.0042}$	$10^9 A_s$	2.219	$2.20^{+0.14}_{-0.12}$	r_{drag}	147.96	$148.6^{+2.1}_{-2.0}$
τ	0.0876	$0.089^{+0.028}_{-0.025}$	$\Omega_m h^2$	0.1396	$0.1388^{+0.0051}_{-0.0052}$	k_D	0.13996	$0.1394^{+0.0024}_{-0.0025}$
Σm_ν	0.091	< 0.575	$\Omega_m h^3$	0.09535	$0.0941^{+0.0039}_{-0.0041}$	θ_D	0.16062	$0.1607^{+0.0010}_{-0.0010}$
n_s	0.9713	$0.972^{+0.021}_{-0.021}$	Y_{He}	0.247906	$0.24793^{+0.00038}_{-0.00038}$	z_{EQ}	3312	3248^{+150}_{-160}
$\log[10^{10} A_s]$	3.100	$3.090^{+0.060}_{-0.058}$	$10^9 A_s e^{-2\tau}$	1.862	$1.840^{+0.050}_{-0.053}$	θ_{EQ}	0.8294	$0.843^{+0.033}_{-0.027}$
A_{SZ}	0.11	—	$\Omega_\nu h^2$	0.00098	< 0.00618	$r_s/D_v(0.57)$	0.07220	$0.0721^{+0.0014}_{-0.0015}$
Ω_Λ	0.7010	$0.698^{+0.024}_{-0.026}$	Age/Gyr	13.807	$13.88^{+0.22}_{-0.20}$	$H(0.57)$	0.0003107	$0.0003090^{+0.0000050}_{-0.0000055}$
Ω_m	0.2990	$0.302^{+0.026}_{-0.024}$	z_*	1089.48	$1089.2^{+1.2}_{-1.2}$	$DA(0.57)$	1379.5	1389^{+35}_{-31}
σ_8	0.815	$0.759^{+0.084}_{-0.10}$	r_*	145.33	$146.0^{+1.9}_{-1.8}$			

Best-fit $\chi_{\text{eff}}^2 = 7559.24$; R-1 = 0.01503

χ_{eff}^2 : BAO - 6DF: 0.05 DR7: 0.44 DR9: 0.75 CMB - WMAP: 7558.00

4.21 base_mnu_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02284	$0.0230^{+0.0010}_{-0.00091}$	z_{re}	10.90	$10.9^{+2.1}_{-2.2}$	θ_*	1.04085	$1.0414^{+0.0040}_{-0.0041}$
$\Omega_c h^2$	0.1106	$0.1096^{+0.0072}_{-0.0073}$	H_0	71.70	$71.2^{+3.5}_{-3.6}$	z_{drag}	1060.39	$1060.6^{+2.3}_{-2.1}$
θ	1.04079	$1.0413^{+0.0040}_{-0.0042}$	$10^9 A_s$	2.205	$2.20^{+0.14}_{-0.13}$	r_{drag}	149.10	$149.3^{+2.2}_{-2.1}$
τ	0.0930	$0.094^{+0.028}_{-0.026}$	$\Omega_m h^2$	0.1335	$0.1340^{+0.0074}_{-0.0071}$	k_D	0.13899	$0.1389^{+0.0025}_{-0.0026}$
Σm_ν	0.000	< 0.371	$\Omega_m h^3$	0.09570	$0.0953^{+0.0037}_{-0.0037}$	θ_D	0.16054	$0.1605^{+0.0010}_{-0.00099}$
n_s	0.9808	$0.983^{+0.024}_{-0.022}$	Y_{He}	0.248038	$0.24809^{+0.00041}_{-0.00038}$	z_{EQ}	3189	3167^{+170}_{-170}
$\log[10^{10} A_s]$	3.093	$3.091^{+0.062}_{-0.059}$	$10^9 A_s e^{-2\tau}$	1.831	$1.823^{+0.054}_{-0.055}$	θ_{EQ}	0.8549	$0.861^{+0.038}_{-0.034}$
A_{sz}	0.42	—	$\Omega_\nu h^2$	0.00000	< 0.00399	$r_s/D_\nu(0.57)$	0.07479	$0.0745^{+0.0027}_{-0.0028}$
Ω_Λ	0.7404	$0.735^{+0.036}_{-0.042}$	Age/Gyr	13.678	$13.71^{+0.22}_{-0.21}$	$H(0.57)$	0.0003160	$0.0003150^{+0.0000070}_{-0.0000069}$
Ω_m	0.2596	$0.265^{+0.042}_{-0.036}$	z_*	1088.62	$1088.4^{+1.3}_{-1.5}$	$DA(0.57)$	1335.1	1343^{+49}_{-47}
σ_8	0.812	$0.777^{+0.060}_{-0.082}$	r_*	146.55	$146.7^{+2.1}_{-2.0}$			

Best-fit $\chi_{\text{eff}}^2 = 7559.26$; R-1 = 0.03556

χ_{eff}^2 : CMB - WMAP: 7558.43 Hubble - HST: 0.83

4.22 base_mnu_WMAP_post_SNL5

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02268	$0.0228^{+0.0010}_{-0.00098}$	z_{re}	10.82	$10.8^{+2.2}_{-2.2}$	θ_*	1.04031	$1.0408^{+0.0042}_{-0.0042}$
$\Omega_c h^2$	0.1115	$0.1104^{+0.0077}_{-0.0078}$	H_0	71.03	$70.0^{+4.5}_{-4.7}$	z_{drag}	1060.12	$1060.3^{+2.3}_{-2.3}$
θ	1.04023	$1.0407^{+0.0043}_{-0.0043}$	$10^9 A_s$	2.199	$2.20^{+0.14}_{-0.13}$	r_{drag}	149.03	$149.2^{+2.2}_{-2.1}$
τ	0.0912	$0.092^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1342	$0.1353^{+0.0081}_{-0.0078}$	k_D	0.13895	$0.1389^{+0.0025}_{-0.0026}$
Σm_ν	0.000	< 0.484	$\Omega_m h^3$	0.09533	$0.0946^{+0.0040}_{-0.0042}$	θ_D	0.16063	$0.1606^{+0.0010}_{-0.0010}$
n_s	0.9767	$0.979^{+0.025}_{-0.024}$	Y_{He}	0.247972	$0.24802^{+0.00043}_{-0.00042}$	z_{EQ}	3207	3184^{+180}_{-180}
$\log[10^{10} A_s]$	3.091	$3.088^{+0.061}_{-0.059}$	$10^9 A_s e^{-2\tau}$	1.833	$1.825^{+0.054}_{-0.055}$	θ_{EQ}	0.8505	$0.856^{+0.039}_{-0.036}$
A_{sz}	0.49	—	$\Omega_\nu h^2$	0.00000	< 0.00520	$r_s/D_\nu(0.57)$	0.07431	$0.0737^{+0.0034}_{-0.0033}$
Ω_Λ	0.734	$0.723^{+0.045}_{-0.056}$	Age/Gyr	13.715	$13.78^{+0.30}_{-0.26}$	$H(0.57)$	0.0003147	$0.0003128^{+0.0000086}_{-0.0000089}$
Ω_m	0.266	$0.277^{+0.056}_{-0.045}$	z_*	1088.88	$1088.7^{+1.5}_{-1.5}$	$DA(0.57)$	1344	1359^{+67}_{-60}
σ_8	0.814	$0.768^{+0.067}_{-0.098}$	r_*	146.43	$146.6^{+2.1}_{-2.0}$			

Best-fit $\chi_{\text{eff}}^2 = 7984.43$; R-1 = 0.02304

χ_{eff}^2 : CMB - WMAP: 7558.11 SN - SNLS April_2012: 426.31

4.23 base_mnu_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02265	$0.0226^{+0.0010}_{-0.00097}$	z_{re}	10.76	$10.8^{+2.3}_{-2.2}$	θ_*	1.04045	$1.0404^{+0.0044}_{-0.0043}$
$\Omega_c h^2$	0.1139	$0.1128^{+0.0079}_{-0.0078}$	H_0	70.0	$67.9^{+5.0}_{-5.6}$	z_{drag}	1060.20	$1060.1^{+2.2}_{-2.2}$
θ	1.04038	$1.0402^{+0.0044}_{-0.0044}$	$10^9 A_s$	2.214	$2.20^{+0.14}_{-0.12}$	r_{drag}	148.42	$148.7^{+2.2}_{-2.2}$
τ	0.0897	$0.089^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1367	$0.1385^{+0.0090}_{-0.0085}$	k_D	0.13956	$0.1393^{+0.0025}_{-0.0026}$
Σm_ν	0.018	< 0.707	$\Omega_m h^3$	0.09576	$0.0940^{+0.0042}_{-0.0046}$	θ_D	0.16061	$0.1606^{+0.0010}_{-0.00099}$
n_s	0.9754	$0.973^{+0.026}_{-0.024}$	Y_{He}	0.247956	$0.24794^{+0.00042}_{-0.00042}$	z_{EQ}	3262	3235^{+190}_{-190}
$\log[10^{10} A_s]$	3.097	$3.089^{+0.061}_{-0.058}$	$10^9 A_s e^{-2\tau}$	1.851	$1.836^{+0.055}_{-0.057}$	θ_{EQ}	0.8395	$0.845^{+0.038}_{-0.035}$
A_{sz}	0.02	—	$\Omega_\nu h^2$	0.00020	< 0.00760	$r_s/D_v(0.57)$	0.07347	$0.0722^{+0.0036}_{-0.0038}$
Ω_Λ	0.721	$0.698^{+0.056}_{-0.074}$	Age/Gyr	13.733	$13.88^{+0.35}_{-0.29}$	$H(0.57)$	0.0003135	$0.0003092^{+0.0000093}_{-0.000010}$
Ω_m	0.279	$0.302^{+0.074}_{-0.056}$	z_*	1089.14	$1089.2^{+1.6}_{-1.5}$	$DA(0.57)$	1356	1388^{+83}_{-69}
σ_8	0.823	$0.754^{+0.084}_{-0.12}$	r_*	145.82	$146.1^{+2.1}_{-2.0}$			

Best-fit $\chi_{\text{eff}}^2 = 7687.65$; R-1 = 0.00971

χ_{eff}^2 : CMB - WMAP: 7557.77 SN - Union2.1: 129.88

5 mnu+Alens

5.1 base_mnu_Alens_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02261	$0.02240^{+0.00077}_{-0.00075}$	β_2^1	0.07	$0.1^{+1.9}_{-1.9}$	z_{re}	11.52	$10.7^{+2.2}_{-2.3}$
$\Omega_c h^2$	0.1161	$0.1165^{+0.0063}_{-0.0062}$	β_3^1	0.01	$0.0^{+1.9}_{-1.9}$	H_0	69.1	$64.7^{+6.3}_{-6.7}$
θ	1.04186	$1.0416^{+0.0014}_{-0.0014}$	β_4^1	-0.20	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.217	$2.16^{+0.11}_{-0.10}$
τ	0.0977	$0.087^{+0.027}_{-0.025}$	β_5^1	0.19	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1397	$0.145^{+0.010}_{-0.0090}$
Σm_ν	0.09	< 1.14	β_1^2	0.11	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09648	$0.0936^{+0.0034}_{-0.0040}$
A_L	1.244	$1.34^{+0.29}_{-0.26}$	β_2^2	-0.10	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247940	$0.24785^{+0.00032}_{-0.00032}$
n_s	0.9742	$0.969^{+0.019}_{-0.019}$	β_3^2	-0.15	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8237	$1.819^{+0.028}_{-0.027}$
$\log[10^{10} A_s]$	3.099	$3.074^{+0.052}_{-0.049}$	β_4^2	0.06	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00095	< 0.0122
A_{100}^{PS}	156	135^{+100}_{-100}	β_5^2	-0.27	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.737	$13.99^{+0.37}_{-0.33}$
A_{143}^{PS}	50.7	50^{+30}_{-30}	β_1^3	-0.32	$-0.1^{+1.9}_{-1.9}$	z_*	1089.39	$1089.8^{+1.5}_{-1.5}$
A_{217}^{PS}	128.3	120^{+20}_{-30}	β_2^3	-0.16	$-0.1^{+2.0}_{-1.9}$	r_*	145.26	$145.1^{+1.4}_{-1.4}$
A_{143}^{CIB}	6.06	—	β_3^3	-0.099	$0.0^{+2.0}_{-2.0}$	θ_*	1.04199	$1.0419^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	17.8	$19.4^{+12}_{-8.6}$	β_4^3	-0.17	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1060.28	$1059.9^{+1.4}_{-1.4}$
A_{143}^{tSZ}	2.81	—	β_5^3	-0.13	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.86	$147.7^{+1.3}_{-1.4}$
$r_{PS143/217}$	0.825	> 0.679	β_1^4	-0.11	$-0.1^{+1.9}_{-1.9}$	k_D	0.14013	$0.1402^{+0.0014}_{-0.0013}$
r_{CIB}	0.126	—	β_2^4	-0.05	$0.0^{+1.9}_{-1.9}$	θ_D	0.16082	$0.16091^{+0.00079}_{-0.00073}$
n^{CIB}	0.316	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.28	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3314	3320^{+140}_{-130}
$c_{100/143}$	1.00065	$1.00062^{+0.00078}_{-0.00079}$	β_4^4	-0.01	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8308	$0.830^{+0.028}_{-0.027}$
$c_{217/143}$	0.99597	$0.9964^{+0.0025}_{-0.0025}$	β_5^4	0.02	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07272	$0.0699^{+0.0043}_{-0.0044}$
$\xi^{tSZ-CIB}$	0.02	—	Ω_Λ	0.707	$0.650^{+0.080}_{-0.11}$	$H(0.57)$	0.0003126	$0.000305^{+0.000011}_{-0.000010}$
A^{kSZ}	0.0	—	Ω_m	0.293	$0.350^{+0.11}_{-0.080}$	$DA(0.57)$	1368	1432^{+100}_{-89}
β_1^1	0.43	$0.5^{+1.6}_{-1.7}$	σ_8	0.818	$0.71^{+0.11}_{-0.12}$			

Best-fit $\chi_{\text{eff}}^2 = 9798.92$; R-1 = 0.01970

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.46 commander_v3.light.clik: -9.29 CAMspec_v6.2TN_2013_01_18.clik: 7793.75

5.2 base_mnu_Alens_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02259^{+0.00063}_{-0.00064}$	β_2^1	$0.1^{+1.9}_{-1.9}$	z_{re}	$10.7^{+2.3}_{-2.2}$
$\Omega_c h^2$	$0.1151^{+0.0046}_{-0.0050}$	β_3^1	$0.0^{+2.0}_{-1.9}$	H_0	$67.8^{+2.1}_{-2.2}$
θ	$1.0420^{+0.0012}_{-0.0012}$	β_4^1	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	$2.16^{+0.12}_{-0.10}$
τ	$0.088^{+0.028}_{-0.025}$	β_5^1	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	$0.1406^{+0.0034}_{-0.0032}$
Σm_ν	< 0.551	β_1^2	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	$0.0953^{+0.0018}_{-0.0022}$
A_L	$1.32^{+0.30}_{-0.25}$	β_2^2	$0.0^{+1.9}_{-2.0}$	Y_{He}	$0.24793^{+0.00026}_{-0.00027}$
n_s	$0.974^{+0.015}_{-0.014}$	β_3^2	$0.0^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	$1.816^{+0.023}_{-0.025}$
$\log[10^{10} A_s]$	$3.074^{+0.055}_{-0.049}$	β_4^2	$0.0^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	< 0.00592
A_{100}^{PS}	131^{+100}_{-90}	β_5^2	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	$13.82^{+0.15}_{-0.12}$
A_{143}^{PS}	48^{+20}_{-20}	β_1^3	$-0.1^{+1.9}_{-1.9}$	z_*	$1089.4^{+1.1}_{-1.0}$
A_{217}^{PS}	119^{+20}_{-30}	β_2^3	$-0.2^{+2.0}_{-2.0}$	r_*	$145.5^{+1.0}_{-0.98}$
A_{143}^{CIB}	—	β_3^3	$0.0^{+2.1}_{-1.9}$	θ_*	$1.0422^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	$19.0^{+12}_{-8.4}$	β_4^3	$-0.2^{+1.9}_{-1.9}$	z_{drag}	$1060.2^{+1.3}_{-1.3}$
A_{143}^{tSZ}	—	β_5^3	$-0.1^{+1.9}_{-2.1}$	r_{drag}	$148.1^{+1.0}_{-0.98}$
$r_{PS143/217}$	> 0.676	β_1^4	$-0.1^{+1.9}_{-1.9}$	k_D	$0.1399^{+0.0011}_{-0.0011}$
r_{CIB}	—	β_2^4	$0.0^{+1.9}_{-1.9}$	θ_D	$0.16087^{+0.00077}_{-0.00071}$
n^{CIB}	$0.24^{+0.27}_{-0.30}$	β_3^4	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3291^{+100}_{-110}
$c_{100/143}$	$1.00062^{+0.00077}_{-0.00077}$	β_4^4	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	$0.836^{+0.024}_{-0.021}$
$c_{217/143}$	$0.9964^{+0.0025}_{-0.0025}$	β_5^4	$0.1^{+1.9}_{-1.9}$	$r_s/D_\nu(0.57)$	$0.0720^{+0.0014}_{-0.0014}$
$\xi^{tSZ-CIB}$	—	Ω_Λ	$0.694^{+0.023}_{-0.027}$	$H(0.57)$	$0.0003100^{+0.0000039}_{-0.0000042}$
A^{kSZ}	—	Ω_m	$0.306^{+0.027}_{-0.023}$	$DA(0.57)$	1386^{+32}_{-29}
β_1^1	$0.4^{+1.6}_{-1.6}$	σ_8	$0.764^{+0.070}_{-0.090}$		

; R-1 = 0.04693

5.3 base_mnu_Alens_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02246	$0.02232^{+0.00066}_{-0.00066}$	β_3^2	-0.16	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9907	$0.992^{+0.020}_{-0.019}$
$\Omega_c h^2$	0.1164	$0.1169^{+0.0059}_{-0.0059}$	β_4^2	0.23	$0.3^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0192	$1.025^{+0.047}_{-0.044}$
θ	1.04190	$1.0416^{+0.0014}_{-0.0014}$	β_5^2	-0.19	$-0.4^{+1.9}_{-2.0}$	Ω_Λ	0.711	$0.652^{+0.074}_{-0.10}$
τ	0.0988	$0.085^{+0.025}_{-0.023}$	β_1^3	0.77	$0.8^{+1.8}_{-1.8}$	Ω_m	0.289	$0.348^{+0.10}_{-0.074}$
Σm_ν	0.03	< 1.08	β_2^3	-0.35	$-0.6^{+1.9}_{-1.9}$	σ_8	0.831	$0.72^{+0.11}_{-0.12}$
A_L	1.185	$1.32^{+0.28}_{-0.25}$	β_3^3	0.17	$0.2^{+2.0}_{-2.0}$	z_{re}	11.66	$10.6^{+2.2}_{-2.1}$
n_s	0.9682	$0.965^{+0.017}_{-0.017}$	β_4^3	-0.39	$-0.4^{+1.9}_{-1.9}$	H_0	69.4	$64.8^{+5.8}_{-6.4}$
$\log[10^{10} A_s]$	3.0993	$3.071^{+0.050}_{-0.046}$	β_5^3	-0.41	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.218	$2.16^{+0.11}_{-0.097}$
A_{100}^{PS}	171	181^{+80}_{-80}	β_1^4	-0.06	$-0.4^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1391	$0.1447^{+0.0097}_{-0.0085}$
A_{143}^{PS}	70.1	71^{+20}_{-20}	β_2^4	-0.44	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09656	$0.0937^{+0.0032}_{-0.0038}$
A_{217}^{PS}	61.0	60^{+20}_{-20}	β_3^4	-0.17	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247876	$0.24782^{+0.00028}_{-0.00028}$
A_{143}^{CIB}	2.78	—	β_4^4	0.10	$0.2^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8205	$1.819^{+0.027}_{-0.026}$
A_{217}^{CIB}	46.4	45^{+10}_{-9}	β_5^4	0.39	$0.3^{+2.0}_{-1.9}$	$\Omega_\nu h^2$	0.0003	< 0.0116
A_{143}^{tSZ}	4.48	—	$A_{\text{PS,ACT}}^{148}$	10.64	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.722	$13.99^{+0.35}_{-0.30}$
$r_{PS143/217}$	0.798	> 0.697	$A_{\text{PS,ACT}}^{218}$	81.8	$81.8^{+7.9}_{-8.0}$	z_*	1089.59	$1089.9^{+1.4}_{-1.3}$
r_{CIB}	0.9997	—	$A_{\text{PS,SPT}}^{95}$	7.67	$7.77^{+3.1}_{-2.8}$	r_*	145.31	$145.1^{+1.3}_{-1.4}$
n^{CIB}	0.509	$0.50^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.39	$10.5^{+1.0}_{-0.97}$	θ_*	1.04201	$1.0419^{+0.0013}_{-0.0013}$
$c_{100/143}$	1.00064	$1.00063^{+0.00078}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	77.9	$78.5^{+8.2}_{-8.1}$	z_{drag}	1059.93	$1059.8^{+1.2}_{-1.2}$
$c_{217/143}$	0.99942	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.763	> 0.663	r_{drag}	147.97	$147.8^{+1.3}_{-1.3}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/220}$	0.513	$0.55^{+0.24}_{-0.20}$	k_D	0.13991	$0.1401^{+0.0013}_{-0.0013}$
A^{kSZ}	1.95	—	$r_{\text{PS}}^{150/220}$	0.9147	> 0.903	θ_D	0.16102	$0.16101^{+0.00070}_{-0.00068}$
β_1^1	0.55	$0.4^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.444	< 0.752	z_{EQ}	3317	3326^{+130}_{-130}
β_2^1	-0.07	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.849	$0.84^{+0.39}_{-0.39}$	θ_{EQ}	0.8298	$0.829^{+0.027}_{-0.025}$
β_3^1	0.20	$0.1^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9944	$0.994^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07297	$0.0700^{+0.0040}_{-0.0041}$
β_4^1	0.09	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0054	$1.008^{+0.027}_{-0.026}$	$H(0.57)$	0.0003131	$0.0003051^{+0.0000097}_{-0.0000098}$
β_5^1	-0.13	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9910	$0.991^{+0.014}_{-0.014}$	$DA(0.57)$	1363	1430^{+97}_{-82}
β_1^2	-0.88	$-1.15^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9634	$0.966^{+0.021}_{-0.020}$			
β_2^2	-0.41	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9917	$0.989^{+0.041}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10515.69$; R-1 = 0.01979

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.57 commander.v3.light.clik: -8.04 CAMspec.v6.2TN_2013_01_18.clik: 7817.74 actspt_2013_01.clik: 691.31

5.4 base_mnu_Alens_planck_CAMspec_lowL_lowLike_highL_post_BAO

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02247^{+0.00057}_{-0.00055}$	β_3^2	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{150}	$0.994^{+0.020}_{-0.019}$
$\Omega_c h^2$	$0.1156^{+0.0045}_{-0.0048}$	β_4^2	$0.3^{+2.1}_{-2.0}$	c_{SPT}^{220}	$1.026^{+0.048}_{-0.045}$
θ	$1.0419^{+0.0011}_{-0.0011}$	β_5^2	$-0.4^{+1.9}_{-2.0}$	Ω_Λ	$0.693^{+0.024}_{-0.026}$
τ	$0.086^{+0.026}_{-0.023}$	β_1^3	$0.8^{+1.9}_{-1.8}$	Ω_m	$0.307^{+0.026}_{-0.024}$
Σm_ν	< 0.510	β_2^3	$-0.6^{+1.9}_{-2.0}$	σ_8	$0.769^{+0.064}_{-0.088}$
A_L	$1.29^{+0.28}_{-0.23}$	β_3^3	$0.2^{+1.9}_{-2.0}$	z_{re}	$10.6^{+2.2}_{-2.0}$
n_s	$0.969^{+0.014}_{-0.013}$	β_4^3	$-0.5^{+1.9}_{-1.9}$	H_0	$67.8^{+2.0}_{-2.1}$
$\log[10^{10} A_s]$	$3.071^{+0.050}_{-0.046}$	β_5^3	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	$2.16^{+0.11}_{-0.097}$
A_{100}^{PS}	180^{+80}_{-80}	β_1^4	$-0.4^{+1.9}_{-1.9}$	$\Omega_m h^2$	$0.1407^{+0.0034}_{-0.0033}$
A_{143}^{PS}	70^{+20}_{-20}	β_2^4	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^3$	$0.0953^{+0.0018}_{-0.0021}$
A_{217}^{PS}	59^{+20}_{-20}	β_3^4	$-0.1^{+1.9}_{-1.9}$	Y_{He}	$0.24788^{+0.00024}_{-0.00023}$
A_{143}^{CIB}	—	β_4^4	$0.2^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	$1.816^{+0.022}_{-0.024}$
A_{217}^{CIB}	45^{+9}_{-9}	β_5^4	$0.3^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	< 0.00548
A_{143}^{tSZ}	—	$A_{\text{PS,ACT}}^{148}$	$10.8^{+1.2}_{-1.1}$	Age/Gyr	$13.83^{+0.14}_{-0.12}$
$r_{\text{PS}143/217}$	> 0.689	$A_{\text{PS,ACT}}^{218}$	$82.1^{+7.8}_{-8.0}$	z_*	$1089.55^{+0.91}_{-0.93}$
r_{CIB}	—	$A_{\text{PS,SPT}}^{95}$	$7.88^{+3.1}_{-2.8}$	r_*	$145.4^{+1.0}_{-1.0}$
n^{CIB}	$0.50^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	$10.6^{+1.0}_{-0.94}$	θ_*	$1.0421^{+0.0012}_{-0.0012}$
$c_{100/143}$	$1.00063^{+0.00078}_{-0.00075}$	$A_{\text{PS,SPT}}^{220}$	$78.7^{+8.5}_{-8.0}$	z_{drag}	$1060.0^{+1.2}_{-1.2}$
$c_{217/143}$	$0.9993^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	> 0.670	r_{drag}	$148.1^{+1.0}_{-0.99}$
$\xi^{tSZ-CIB}$	—	$r_{\text{PS}}^{95/220}$	$0.55^{+0.24}_{-0.20}$	k_D	$0.1398^{+0.0011}_{-0.0011}$
A^{kSZ}	—	$r_{\text{PS}}^{150/220}$	> 0.903	θ_D	$0.16100^{+0.00068}_{-0.00066}$
β_1^1	$0.4^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	< 0.741	z_{EQ}	3300^{+100}_{-110}
β_2^1	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	$0.84^{+0.39}_{-0.38}$	θ_{EQ}	$0.834^{+0.023}_{-0.020}$
β_3^1	$0.1^{+2.0}_{-2.0}$	c_{ACTs}^{148}	$0.995^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	$0.0719^{+0.0014}_{-0.0014}$
β_4^1	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{217}	$1.009^{+0.026}_{-0.027}$	$H(0.57)$	$0.0003099^{+0.0000038}_{-0.0000041}$
β_5^1	$-0.1^{+2.0}_{-2.0}$	c_{ACTe}^{148}	$0.991^{+0.014}_{-0.014}$	$DA(0.57)$	1387^{+31}_{-29}
β_1^2	$-1.17^{+1.8}_{-1.7}$	c_{ACTe}^{217}	$0.966^{+0.021}_{-0.021}$		
β_2^2	$-0.2^{+2.0}_{-1.9}$	c_{SPT}^{95}	$0.990^{+0.040}_{-0.037}$		

; R-1 =0.05464

6 mnu+omegak

6.1 base_mnu_omegak_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02202	$0.02220^{+0.00070}_{-0.00070}$	β_2^1	0.07	$0.2^{+1.9}_{-1.9}$	z_{re}	11.58	$10.7^{+2.3}_{-2.3}$
$\Omega_c h^2$	0.1199	$0.1187^{+0.0059}_{-0.0055}$	β_3^1	0.13	$0.0^{+1.9}_{-2.0}$	H_0	67.6	51^{+10}_{-10}
θ	1.04134	$1.0413^{+0.0014}_{-0.0014}$	β_4^1	0.11	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s$	2.219	$2.18^{+0.12}_{-0.10}$
τ	0.0951	$0.087^{+0.027}_{-0.025}$	β_5^1	-0.09	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1422	$0.145^{+0.010}_{-0.0079}$
Ω_K	0.000	$-0.055^{+0.051}_{-0.065}$	β_1^2	-0.08	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.0961	$0.074^{+0.018}_{-0.014}$
Σm_ν	0.020	< 0.972	β_2^2	0.08	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247690	$0.24777^{+0.00030}_{-0.00030}$
n_s	0.9584	$0.963^{+0.017}_{-0.018}$	β_3^2	-0.01	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8346	$1.829^{+0.026}_{-0.024}$
$\log[10^{10} A_s]$	3.100	$3.080^{+0.052}_{-0.049}$	β_4^2	0.31	$0.1^{+2.0}_{-1.9}$	$\Omega_\nu h^2$	0.0002	< 0.0104
A_{100}^{PS}	176	142^{+100}_{-100}	β_5^2	-0.39	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.80	$15.6^{+1.3}_{-1.5}$
A_{143}^{PS}	64.0	52^{+30}_{-30}	β_1^3	0.18	$-0.1^{+1.9}_{-1.9}$	z_*	1090.46	$1090.2^{+1.5}_{-1.3}$
A_{217}^{PS}	85.7	120^{+30}_{-30}	β_2^3	-0.07	$-0.1^{+1.9}_{-1.9}$	r_*	144.71	$144.7^{+1.3}_{-1.4}$
A_{143}^{CIB}	8.57	—	β_3^3	0.00	$0.0^{+2.0}_{-1.9}$	θ_*	1.04148	$1.0416^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	40.0	20^{+10}_{-9}	β_4^3	-0.08	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.21	$1059.6^{+1.4}_{-1.3}$
A_{143}^{tSZ}	5.48	—	β_5^3	0.02	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.49	$147.5^{+1.2}_{-1.3}$
$r_{PS143/217}$	0.890	> 0.680	β_1^4	0.04	$-0.1^{+1.9}_{-1.9}$	k_D	0.14006	$0.1403^{+0.0014}_{-0.0013}$
r_{CIB}	0.578	—	β_2^4	0.09	$0.0^{+1.9}_{-1.9}$	θ_D	0.16143	$0.16112^{+0.00074}_{-0.00071}$
n^{CIB}	0.519	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.05	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3392	3368^{+130}_{-120}
$c_{100/143}$	1.00067	$1.00061^{+0.00078}_{-0.00076}$	β_4^4	-0.11	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8144	$0.820^{+0.024}_{-0.024}$
$c_{217/143}$	0.99792	$0.9964^{+0.0025}_{-0.0025}$	β_5^4	0.44	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.0717	$0.0597^{+0.0093}_{-0.0069}$
$\xi^{tSZ-CIB}$	0.16	—	Ω_Λ	0.689	$0.47^{+0.19}_{-0.25}$	$H(0.57)$	0.0003103	$0.000271^{+0.000031}_{-0.000022}$
A^{kSZ}	1.22	—	Ω_m	0.311	$0.59^{+0.31}_{-0.24}$	$DA(0.57)$	1388	1715^{+200}_{-300}
β_1^1	0.38	$0.5^{+1.6}_{-1.6}$	σ_8	0.843	$0.72^{+0.11}_{-0.13}$			

Best-fit $\chi_{\text{eff}}^2 = 9814.07$; R-1 = 0.02613

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.61 commander_v3.light.clik: -6.00 CAMspec_v6.2TN_2013_01_18.clik: 7805.47

6.2 base_mnu_omegak_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02218	$0.02202^{+0.00069}_{-0.00068}$	β_2^1	0.19	$0.1^{+1.8}_{-1.9}$	z_{re}	11.47	$10.8^{+2.3}_{-2.4}$
$\Omega_c h^2$	0.1184	$0.1193^{+0.0060}_{-0.0058}$	β_3^1	-0.16	$0.0^{+1.9}_{-2.0}$	H_0	67.9	53^{+10}_{-10}
θ	1.04151	$1.0411^{+0.0014}_{-0.0014}$	β_4^1	0.03	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.213	$2.17^{+0.12}_{-0.11}$
τ	0.0950	$0.087^{+0.026}_{-0.026}$	β_5^1	0.12	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1408	$0.1482^{+0.0098}_{-0.0096}$
Ω_K	-0.0009	$-0.038^{+0.033}_{-0.053}$	β_1^2	-0.08	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.0956	$0.078^{+0.014}_{-0.013}$
Σm_ν	0.02	< 1.17	β_2^2	-0.11	$-0.1^{+2.1}_{-2.0}$	Y_{He}	0.247758	$0.24769^{+0.00030}_{-0.00030}$
n_s	0.9649	$0.959^{+0.018}_{-0.018}$	β_3^2	0.12	$-0.1^{+1.8}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8297	$1.828^{+0.025}_{-0.024}$
$\log[10^{10} A_s]$	3.097	$3.079^{+0.053}_{-0.050}$	β_4^2	0.11	$0.1^{+1.9}_{-1.8}$	$\Omega_\nu h^2$	0.0002	< 0.0126
A_{100}^{PS}	172	151^{+100}_{-100}	β_5^2	0.01	$-0.1^{+2.1}_{-1.9}$	Age/Gyr	13.81	$15.3^{+1.2}_{-1.2}$
A_{143}^{PS}	51.8	53^{+30}_{-30}	β_1^3	-0.14	$-0.1^{+1.9}_{-2.0}$	z_*	1090.12	$1090.6^{+1.5}_{-1.4}$
A_{217}^{PS}	111.0	119^{+30}_{-30}	β_2^3	-0.35	$-0.1^{+1.9}_{-2.0}$	r_*	144.98	$144.6^{+1.3}_{-1.4}$
A_{143}^{CIB}	14.6	—	β_3^3	0.18	$0.0^{+2.0}_{-1.9}$	θ_*	1.04164	$1.0415^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	28.3	22^{+10}_{-10}	β_4^3	-0.39	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.44	$1059.3^{+1.3}_{-1.2}$
A_{143}^{tSZ}	4.96	—	β_5^3	-0.31	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.72	$147.4^{+1.2}_{-1.3}$
$r_{PS143/217}$	0.922	> 0.683	β_1^4	-0.15	$-0.1^{+1.9}_{-1.9}$	k_D	0.13995	$0.1403^{+0.0013}_{-0.0012}$
r_{CIB}	0.462	—	β_2^4	-0.13	$0.0^{+1.9}_{-1.9}$	θ_D	0.16128	$0.16123^{+0.00071}_{-0.00071}$
n^{CIB}	0.434	$0.24^{+0.27}_{-0.31}$	β_3^4	-0.02	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3360	3378^{+130}_{-130}
$c_{100/143}$	1.00059	$1.00062^{+0.00077}_{-0.00076}$	β_4^4	-0.20	$0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8208	$0.818^{+0.025}_{-0.024}$
$c_{217/143}$	0.99610	$0.9965^{+0.0024}_{-0.0024}$	β_5^4	0.21	$0.1^{+1.9}_{-1.9}$	$r_s/D_\nu(0.57)$	0.0719	$0.0612^{+0.0079}_{-0.0068}$
$\xi^{tSZ-CIB}$	0.67	—	Ω_Λ	0.696	$0.48^{+0.18}_{-0.23}$	$H(0.57)$	0.0003103	$0.000277^{+0.000025}_{-0.000021}$
A^{kSZ}	0.0	—	Ω_m	0.305	$0.55^{+0.28}_{-0.21}$	$DA(0.57)$	1384	1666^{+200}_{-200}
β_1^1	0.54	$0.5^{+1.6}_{-1.7}$	σ_8	0.069	$0.69^{+0.13}_{-0.11}$			

Best-fit $\chi_{\text{eff}}^2 = 9816.87$; R-1 = 0.10330

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.47 lensing_likelihood.v3.ref.clik.lensing: 11.20 commander.v3.light.clik: -7.70 CAMspec.v6.2TN_2013_01_18.clik: 7798.89

6.3 base_mnu_omegak_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02224	$0.02201^{+0.00062}_{-0.00044}$	β_2^1	0.26	$0.2^{+1.9}_{-2.3}$	z_{re}	11.73	$11.6^{+2.6}_{-2.0}$
$\Omega_c h^2$	0.11727	$0.1194^{+0.0054}_{-0.0042}$	β_3^1	-0.09	$-0.4^{+1.5}_{-1.2}$	H_0	70.8	$71.5^{+5.7}_{-4.8}$
θ	1.04170	$1.0413^{+0.0011}_{-0.00096}$	β_4^1	-0.11	$-0.3^{+1.6}_{-1.6}$	$10^9 A_s$	2.218	$2.22^{+0.12}_{-0.10}$
τ	0.0984	$0.095^{+0.032}_{-0.023}$	β_5^1	-0.28	$-0.4^{+1.8}_{-1.9}$	$\Omega_m h^2$	0.1395	$0.1436^{+0.0067}_{-0.0051}$
Ω_K	0.0034	$0.0098^{+0.011}_{-0.012}$	β_1^2	-0.24	$-0.1^{+1.8}_{-1.5}$	$\Omega_m h^3$	0.0988	$0.1027^{+0.0069}_{-0.0086}$
Σm_ν	0.000	< 0.466	β_2^2	-0.03	$0.0^{+2.0}_{-1.4}$	Y_{He}	0.247782	$0.24768^{+0.00027}_{-0.00019}$
n_s	0.9664	$0.961^{+0.011}_{-0.013}$	β_3^2	-0.08	$-0.3^{+1.4}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8221	$1.832^{+0.019}_{-0.020}$
$\log[10^{10} A_s]$	3.0993	$3.098^{+0.053}_{-0.047}$	β_4^2	0.23	$0.2^{+1.7}_{-1.2}$	$\Omega_\nu h^2$	0.00000	< 0.00501
A_{100}^{PS}	185	154^{+70}_{-100}	β_5^2	-0.23	$-0.1^{+1.6}_{-1.5}$	Age/Gyr	13.572	$13.38^{+0.54}_{-0.39}$
A_{143}^{PS}	53.7	58^{+20}_{-30}	β_1^3	-0.07	$0.0^{+1.3}_{-1.3}$	z_*	1089.95	$1090.5^{+1.1}_{-0.86}$
A_{217}^{PS}	108.8	118^{+30}_{-30}	β_2^3	-0.16	$-0.1^{+1.4}_{-1.6}$	r_*	145.24	$144.8^{+1.2}_{-1.1}$
A_{143}^{CIB}	17.2	—	β_3^3	0.10	$0.1^{+1.6}_{-1.7}$	θ_*	1.04181	$1.0415^{+0.0010}_{-0.00084}$
A_{217}^{CIB}	28.2	23^{+20}_{-10}	β_4^3	-0.29	$-0.2^{+1.5}_{-1.6}$	z_{drag}	1059.51	$1059.2^{+1.4}_{-0.82}$
A_{143}^{tSZ}	4.38	—	β_5^3	-0.35	$0.1^{+1.7}_{-2.9}$	r_{drag}	147.97	$147.6^{+1.2}_{-0.95}$
$r_{PS143/217}$	0.880	> 0.652	β_1^4	-0.23	$0.0^{+2.4}_{-1.2}$	k_D	0.13974	$0.1400^{+0.0011}_{-0.0014}$
r_{CIB}	0.528	—	β_2^4	-0.07	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16126	$0.16144^{+0.00045}_{-0.00072}$
n^{CIB}	0.377	$0.25^{+0.15}_{-0.23}$	β_3^4	-0.14	$-0.2^{+1.8}_{-1.5}$	z_{EQ}	3333	3380^{+120}_{-100}
$c_{100/143}$	1.00055	$1.00066^{+0.00078}_{-0.00088}$	β_4^4	0.07	$0.3^{+1.3}_{-1.9}$	θ_{EQ}	0.8260	$0.817^{+0.019}_{-0.022}$
$c_{217/143}$	0.99598	$0.9975^{+0.0023}_{-0.0033}$	β_5^4	0.04	$-0.25^{+2.4}_{-0.92}$	$r_s/D_v(0.57)$	0.07411	$0.0749^{+0.0043}_{-0.0038}$
$\xi^{tSZ-CIB}$	0.98	—	Ω_Λ	0.7185	$0.708^{+0.043}_{-0.035}$	$H(0.57)$	0.0003173	$0.000322^{+0.000013}_{-0.000015}$
A^{kSZ}	1.33	—	Ω_m	0.2781	$0.282^{+0.041}_{-0.046}$	$DA(0.57)$	1341	1326^{+78}_{-57}
β_1^1	0.30	$0.6^{+1.0}_{-1.3}$	σ_8	0.840	$0.805^{+0.049}_{-0.065}$			

Best-fit $\chi_{\text{eff}}^2 = 9808.90$; R-1 = 12.24169

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.41 commander.v3.light.clik: -7.41 CAMspec.v6.2TN_2013_01_18.clik: 7800.33 Hubble - HST: 1.57

6.4 base_mnu_omegak_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02218^{+0.00066}_{-0.00066}$	β_3^2	-0.09	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9862	$0.991^{+0.020}_{-0.019}$
$\Omega_c h^2$	0.1199	$0.1185^{+0.0057}_{-0.0056}$	β_4^2	-0.24	$0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0147	$1.024^{+0.047}_{-0.044}$
θ	1.04138	$1.0414^{+0.0014}_{-0.0014}$	β_5^2	-0.38	$-0.4^{+2.0}_{-2.0}$	Ω_Λ	0.686	$0.47^{+0.18}_{-0.25}$
τ	0.0943	$0.086^{+0.026}_{-0.024}$	β_1^3	0.24	$0.8^{+1.8}_{-1.8}$	Ω_m	0.315	$0.58^{+0.31}_{-0.22}$
Ω_K	-0.002	$-0.056^{+0.047}_{-0.062}$	β_2^3	-0.30	$-0.6^{+2.0}_{-1.9}$	σ_8	0.845	$0.721^{+0.098}_{-0.12}$
Σm_ν	0.001	< 0.899	β_3^3	0.21	$0.2^{+1.9}_{-2.0}$	z_{re}	11.46	$10.6^{+2.3}_{-2.2}$
n_s	0.9595	$0.961^{+0.016}_{-0.016}$	β_4^3	-0.21	$-0.5^{+2.0}_{-2.0}$	H_0	67.1	51^{+10}_{-10}
$\log[10^{10} A_s]$	3.099	$3.078^{+0.052}_{-0.048}$	β_5^3	-0.099	$-0.4^{+1.9}_{-2.0}$	$10^9 A_s$	2.217	$2.17^{+0.12}_{-0.10}$
A_{100}^{PS}	147	182^{+80}_{-80}	β_1^4	0.07	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1421	$0.1448^{+0.0097}_{-0.0077}$
A_{143}^{PS}	72.4	73^{+20}_{-20}	β_2^4	-0.06	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0954	$0.074^{+0.016}_{-0.013}$
A_{217}^{PS}	55.4	61^{+20}_{-20}	β_3^4	0.14	$-0.1^{+2.1}_{-2.0}$	Y_{He}	0.247736	$0.24776^{+0.00028}_{-0.00028}$
A_{143}^{CIB}	2.95	—	β_4^4	-0.01	$0.2^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8363	$1.827^{+0.025}_{-0.024}$
A_{217}^{CIB}	51.5	45^{+9}_{-9}	β_5^4	0.05	$0.3^{+2.0}_{-2.0}$	$\Omega_\nu h^2$	0.00001	< 0.00967
A_{143}^{tSZ}	5.36	—	$A_{\text{PS,ACT}}^{148}$	10.23	$10.8^{+1.3}_{-1.1}$	Age/Gyr	13.85	$15.6^{+1.3}_{-1.4}$
$r_{\text{PS}143/217}$	0.890	> 0.705	$A_{\text{PS,ACT}}^{218}$	77.3	$81.6^{+8.0}_{-8.0}$	z_*	1090.32	$1090.2^{+1.4}_{-1.3}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	6.89	$7.79^{+3.1}_{-2.8}$	r_*	144.63	$144.8^{+1.3}_{-1.3}$
n^{CIB}	0.582	$0.50^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{150}$	9.99	$10.5^{+1.0}_{-0.99}$	θ_*	1.04151	$1.0417^{+0.0013}_{-0.0013}$
$c_{100/143}$	1.00080	$1.00063^{+0.00077}_{-0.00077}$	$A_{\text{PS,SPT}}^{220}$	73.5	$78.3^{+8.3}_{-8.0}$	z_{drag}	1059.44	$1059.5^{+1.3}_{-1.3}$
$c_{217/143}$	1.00005	$0.9995^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.780	> 0.664	r_{drag}	147.38	$147.6^{+1.2}_{-1.3}$
$\xi^{tSZ-CIB}$	0.001	—	$r_{\text{PS}}^{95/220}$	0.578	$0.55^{+0.24}_{-0.21}$	k_D	0.14027	$0.1402^{+0.0014}_{-0.0013}$
A^{kSZ}	1.80	—	$r_{\text{PS}}^{150/220}$	0.9276	> 0.902	θ_D	0.16128	$0.16119^{+0.00071}_{-0.00069}$
β_1^1	0.53	$0.5^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.429	< 0.748	z_{EQ}	3395	3361^{+130}_{-120}
β_2^1	0.15	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.884	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8143	$0.822^{+0.024}_{-0.024}$
β_3^1	-0.24	$0.1^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9926	$0.994^{+0.015}_{-0.015}$	$r_s/D_v(0.57)$	0.0712	$0.0597^{+0.0083}_{-0.0066}$
β_4^1	-0.20	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0023	$1.007^{+0.027}_{-0.027}$	$H(0.57)$	0.0003089	$0.000270^{+0.000027}_{-0.000021}$
β_5^1	-0.37	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9891	$0.990^{+0.015}_{-0.014}$	$DA(0.57)$	1396	1716^{+200}_{-200}
β_1^2	-0.14	$-1.10^{+1.8}_{-1.8}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9619	$0.965^{+0.020}_{-0.020}$			
β_2^2	0.06	$-0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9886	$0.987^{+0.041}_{-0.038}$			

Best-fit $\chi_{\text{eff}}^2 = 10523.04$; R-1 = 0.08893

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.58 commander.v3.light.clik: -6.46 CAMspec.v6.2TN_2013_01_18.clik: 7822.06 actspt_2013_01.clik: 692.65

6.5 base_mnu_omegak_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02233	$0.02203^{+0.00067}_{-0.00060}$	β_3^2	-0.14	$0.0^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9901	$0.989^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.1173	$0.1188^{+0.0057}_{-0.0055}$	β_4^2	0.10	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0082	$1.021^{+0.045}_{-0.042}$
θ	1.04180	$1.0412^{+0.0014}_{-0.0014}$	β_5^2	-0.45	$-0.4^{+1.8}_{-2.0}$	Ω_Λ	0.700	$0.49^{+0.16}_{-0.24}$
τ	0.0986	$0.086^{+0.026}_{-0.024}$	β_1^3	0.17	$0.7^{+1.7}_{-1.8}$	Ω_m	0.303	$0.55^{+0.28}_{-0.19}$
Ω_K	-0.0023	$-0.039^{+0.032}_{-0.049}$	β_2^3	-0.10	$-0.6^{+1.9}_{-2.0}$	σ_8	0.069	$0.69^{+0.11}_{-0.11}$
Σm_ν	0.00	< 1.04	β_3^3	0.13	$0.2^{+1.9}_{-2.0}$	z_{re}	11.69	$10.7^{+2.4}_{-2.2}$
n_s	0.9672	$0.959^{+0.015}_{-0.017}$	β_4^3	-0.09	$-0.5^{+1.9}_{-2.0}$	H_0	67.9	53^{+10}_{-10}
$\log[10^{10} A_s]$	3.101	$3.076^{+0.054}_{-0.046}$	β_5^3	0.096	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.223	$2.17^{+0.12}_{-0.098}$
A_{100}^{PS}	157	184^{+90}_{-80}	β_1^4	0.01	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1397	$0.1470^{+0.0093}_{-0.0089}$
A_{143}^{PS}	69.9	75^{+20}_{-20}	β_2^4	-0.07	$-0.2^{+1.9}_{-1.8}$	$\Omega_m h^3$	0.0949	$0.077^{+0.013}_{-0.013}$
A_{217}^{PS}	57.7	64^{+20}_{-20}	β_3^4	-0.21	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247824	$0.24769^{+0.00028}_{-0.00026}$
A_{143}^{CIB}	3.31	—	β_4^4	0.23	$0.1^{+1.8}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8252	$1.826^{+0.025}_{-0.024}$
A_{217}^{CIB}	50.5	44^{+9}_{-9}	β_5^4	0.54	$0.3^{+1.9}_{-2.0}$	$\Omega_\nu h^2$	0.0000	< 0.0112
A_{143}^{tSZ}	5.34	—	$A_{\text{PS,ACT}}^{148}$	10.42	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.85	$15.3^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.881	> 0.714	$A_{\text{PS,ACT}}^{218}$	78.3	$81.4^{+7.9}_{-7.5}$	z_*	1089.83	$1090.5^{+1.3}_{-1.3}$
r_{CIB}	0.951	—	$A_{\text{PS,SPT}}^{95}$	7.59	$7.59^{+3.0}_{-2.8}$	r_*	145.15	$144.8^{+1.3}_{-1.4}$
n^{CIB}	0.570	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.24	$10.4^{+1.0}_{-0.97}$	θ_*	1.04191	$1.0416^{+0.0013}_{-0.0013}$
$c_{100/143}$	1.00059	$1.00062^{+0.00075}_{-0.00074}$	$A_{\text{PS,SPT}}^{220}$	75.0	$77.9^{+7.9}_{-7.9}$	z_{drag}	1059.74	$1059.3^{+1.2}_{-1.1}$
$c_{217/143}$	0.99986	$0.9995^{+0.0022}_{-0.0022}$	$r_{\text{PS}}^{95/150}$	0.789	> 0.663	r_{drag}	147.84	$147.5^{+1.3}_{-1.3}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/220}$	0.556	$0.56^{+0.24}_{-0.22}$	k_D	0.13994	$0.1401^{+0.0015}_{-0.0013}$
A^{kSZ}	0.48	—	$r_{\text{PS}}^{150/220}$	0.9294	> 0.905	θ_D	0.16114	$0.16130^{+0.00066}_{-0.00068}$
β_1^1	0.66	$0.6^{+1.6}_{-1.7}$	$A_{\text{dust,s}}$	0.492	< 0.737	z_{EQ}	3338	3366^{+130}_{-120}
β_2^1	0.36	$0.0^{+1.9}_{-1.8}$	$A_{\text{dust,e}}$	0.825	$0.84^{+0.38}_{-0.37}$	θ_{EQ}	0.8256	$0.821^{+0.024}_{-0.024}$
β_3^1	-0.01	$0.1^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9952	$0.992^{+0.016}_{-0.015}$	$r_s/D_v(0.57)$	0.0718	$0.0613^{+0.0072}_{-0.0065}$
β_4^1	0.31	$0.0^{+1.9}_{-2.1}$	c_{ACTs}^{217}	0.9996	$1.005^{+0.026}_{-0.028}$	$H(0.57)$	0.0003095	$0.000277^{+0.000023}_{-0.000019}$
β_5^1	0.38	$0.0^{+2.0}_{-1.8}$	c_{ACTe}^{148}	0.9896	$0.988^{+0.014}_{-0.014}$	$DA(0.57)$	1386	1665^{+200}_{-200}
β_1^2	-0.16	$-1.05^{+1.7}_{-1.7}$	c_{ACTe}^{217}	0.9609	$0.963^{+0.020}_{-0.020}$			
β_2^2	-0.37	$-0.3^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9945	$0.984^{+0.042}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10534.39$; R-1 = 0.18761

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.76 lensing_likelihood.v3.ref.clik.lensing: 11.02 commander.v3.light.clik: -8.13 CAMspec.v6.2TN_2013_01_18.clik: 7822.89 actspt_2013_01.clik: 693.62

6.6 base_mnu_omegak_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022299	$0.02210^{+0.00042}_{-0.00031}$	β_3^2	0.05	$0.0^{+1.1}_{-1.7}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9949	$0.988^{+0.020}_{-0.012}$
$\Omega_c h^2$	0.11903	$0.1187^{+0.0028}_{-0.0046}$	β_4^2	0.27	$0.3^{+1.3}_{-1.4}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0013	$1.025^{+0.036}_{-0.036}$
θ	1.04135	$1.0414^{+0.0013}_{-0.0017}$	β_5^2	-0.07	$-0.2^{+1.6}_{-1.3}$	Ω_Λ	0.6967	$0.710^{+0.037}_{-0.029}$
τ	0.0960	$0.091^{+0.018}_{-0.019}$	β_1^3	0.16	$0.9^{+1.2}_{-2.2}$	Ω_m	0.3034	$0.283^{+0.038}_{-0.028}$
Ω_K	-0.0001	$0.0070^{+0.0046}_{-0.0081}$	β_2^3	-0.23	$-1.14^{+1.6}_{-1.9}$	σ_8	0.8440	$0.815^{+0.027}_{-0.041}$
Σm_ν	0.001	< 0.266	β_3^3	0.18	$0.4^{+1.2}_{-1.7}$	z_{re}	11.53	$11.2^{+1.5}_{-1.7}$
n_s	0.9633	$0.9609^{+0.0088}_{-0.0069}$	β_4^3	-0.15	$-1.01^{+1.5}_{-1.8}$	H_0	68.26	$71.0^{+4.3}_{-4.1}$
$\log[10^{10} A_s]$	3.1008	$3.088^{+0.038}_{-0.039}$	β_5^3	0.00	$0.0^{+1.3}_{-2.6}$	$10^9 A_s$	2.222	$2.195^{+0.084}_{-0.085}$
A_{100}^{PS}	130	200^{+40}_{-80}	β_1^4	0.00	$-0.1^{+1.5}_{-1.6}$	$\Omega_m h^2$	0.14134	$0.1422^{+0.0033}_{-0.0044}$
A_{143}^{PS}	61.9	74^{+20}_{-20}	β_2^4	-0.01	$-0.41^{+0.97}_{-1.4}$	$\Omega_m h^3$	0.0965	$0.1009^{+0.0033}_{-0.0077}$
A_{217}^{PS}	51.7	58^{+10}_{-20}	β_3^4	0.11	$0.19^{+0.83}_{-1.5}$	Y_{He}	0.247809	$0.24773^{+0.00018}_{-0.00014}$
A_{143}^{CIB}	4.03	—	β_4^4	-0.15	$0.1^{+1.4}_{-1.6}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.831^{+0.012}_{-0.024}$
A_{217}^{CIB}	53.3	48^{+6}_{-6}	β_5^4	0.18	$0.1^{+2.0}_{-1.8}$	$\Omega_\nu h^2$	0.00001	< 0.00286
A_{143}^{tSZ}	5.54	—	$A_{\text{PS,ACT}}^{148}$	9.60	$10.86^{+0.97}_{-0.87}$	Age/Gyr	13.762	$13.48^{+0.40}_{-0.21}$
$r_{PS143/217}$	0.867	> 0.696	$A_{\text{PS,ACT}}^{218}$	79.02	$82.1^{+4.9}_{-4.1}$	z_*	1090.02	$1090.26^{+0.62}_{-0.80}$
r_{CIB}	0.915	—	$A_{\text{PS,SPT}}^{95}$	6.63	$7.37^{+1.9}_{-2.7}$	r_*	144.73	$144.95^{+0.88}_{-0.54}$
n^{CIB}	0.602	$0.52^{+0.13}_{-0.13}$	$A_{\text{PS,SPT}}^{150}$	9.54	$10.22^{+0.62}_{-0.78}$	θ_*	1.04145	$1.0415^{+0.0012}_{-0.0017}$
$c_{100/143}$	1.00056	$1.00045^{+0.00059}_{-0.0011}$	$A_{\text{PS,SPT}}^{220}$	71.8	$77.3^{+7.1}_{-5.0}$	z_{drag}	1059.78	$1059.31^{+0.93}_{-0.75}$
$c_{217/143}$	1.00024	$1.0003^{+0.0018}_{-0.0015}$	$r_{\text{PS}}^{95/150}$	0.866	> 0.698	r_{drag}	147.43	$147.71^{+0.92}_{-0.52}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/220}$	0.575	$0.60^{+0.19}_{-0.23}$	k_D	0.14035	$0.13991^{+0.00068}_{-0.00099}$
A^{kSZ}	0.97	—	$r_{\text{PS}}^{150/220}$	0.9496	> 0.897	θ_D	0.161066	$0.16135^{+0.00046}_{-0.00038}$
β_1^1	0.32	$0.77^{+0.75}_{-1.2}$	$A_{\text{dust,s}}$	0.369	< 0.741	z_{EQ}	3377	3365^{+61}_{-100}
β_2^1	0.02	$0.2^{+2.9}_{-1.6}$	$A_{\text{dust,e}}$	0.827	$0.78^{+0.46}_{-0.36}$	θ_{EQ}	0.8179	$0.820^{+0.021}_{-0.013}$
β_3^1	0.098	$-0.1^{+1.4}_{-1.3}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9985	$0.994^{+0.011}_{-0.011}$	$r_s/D_v(0.57)$	0.07204	$0.0744^{+0.0033}_{-0.0031}$
β_4^1	-0.07	$-0.2^{+1.7}_{-1.5}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0152	$1.014^{+0.040}_{-0.027}$	$H(0.57)$	0.0003114	$0.0003195^{+0.000094}_{-0.000011}$
β_5^1	0.15	$0.1^{+1.9}_{-1.1}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9909	$0.990^{+0.012}_{-0.012}$	$DA(0.57)$	1378.3	1335^{+61}_{-35}
β_1^2	-0.13	$-0.96^{+1.2}_{-1.2}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9702	$0.968^{+0.018}_{-0.016}$			
β_2^2	-0.05	$-0.1^{+1.5}_{-1.4}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9985	$0.989^{+0.031}_{-0.013}$			

Best-fit $\chi_{\text{eff}}^2 = 10539.01$; R-1 = 689.26610

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.53 commander.v3.light.clik: -7.08 CAMspec.v6.2TN_2013_01_18.clik: 7827.16 actspt_2013_01.clik: 699.04 Hubble - HST: 5.31

6.7 base_mnu_omegak_planck_CAMspec_lowl_lowLike_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.02214_{-0.00061}^{+0.00058}$	β_2^1	0.09	$0.1_{-1.9}^{+1.9}$	z_{re}	11.52	$11.3_{-2.2}^{+2.3}$
$\Omega_c h^2$	0.1184	$0.1184_{-0.0052}^{+0.0057}$	β_3^1	0.50	$0.0_{-2.0}^{+2.0}$	H_0	67.73	$67.6_{-2.1}^{+2.0}$
θ	1.04171	$1.0414_{-0.0013}^{+0.0013}$	β_4^1	-0.34	$0.0_{-2.0}^{+2.0}$	$10^9 A_s$	2.214	$2.20_{-0.10}^{+0.12}$
τ	0.0956	$0.092_{-0.024}^{+0.028}$	β_5^1	-0.02	$0.0_{-1.9}^{+2.0}$	$\Omega_m h^2$	0.1406	$0.1421_{-0.0055}^{+0.0072}$
Ω_K	-0.0016	$0.0008_{-0.0079}^{+0.011}$	β_1^2	0.02	$-0.1_{-1.8}^{+1.9}$	$\Omega_m h^3$	0.0952	$0.0960_{-0.0047}^{+0.0053}$
Σm_ν	0.003	< 0.437	β_2^2	-0.21	$0.0_{-2.0}^{+2.0}$	Y_{He}	0.247750	$0.24774_{-0.00026}^{+0.00025}$
n_s	0.9643	$0.964_{-0.017}^{+0.015}$	β_3^2	0.18	$-0.1_{-1.9}^{+1.9}$	$10^9 A_s e^{-2\tau}$	1.8288	$1.827_{-0.024}^{+0.026}$
$\log[10^{10} A_s]$	3.097	$3.090_{-0.048}^{+0.053}$	β_4^2	-0.05	$0.1_{-2.0}^{+1.9}$	$\Omega_\nu h^2$	0.00003	< 0.00470
A_{100}^{PS}	162	150_{-100}^{+100}	β_5^2	0.19	$-0.1_{-2.0}^{+1.9}$	Age/Gyr	13.837	$13.80_{-0.28}^{+0.27}$
A_{143}^{PS}	57.5	52_{-30}^{+30}	β_1^3	0.37	$-0.1_{-1.9}^{+1.9}$	z_*	1090.14	$1090.2_{-1.1}^{+1.2}$
A_{217}^{PS}	103.3	119_{-30}^{+30}	β_2^3	-0.06	$-0.2_{-2.0}^{+2.0}$	r_*	145.01	$145.0_{-1.2}^{+1.1}$
A_{143}^{CIB}	8.75	—	β_3^3	0.28	$0.0_{-1.9}^{+1.9}$	θ_*	1.04182	$1.0416_{-0.0012}^{+0.0012}$
A_{217}^{CIB}	30.5	21_{-10}^{+10}	β_4^3	-0.32	$-0.2_{-1.9}^{+2.0}$	z_{drag}	1059.40	$1059.4_{-1.2}^{+1.1}$
A_{143}^{tSZ}	4.56	—	β_5^3	-0.22	$-0.1_{-1.9}^{+1.9}$	r_{drag}	147.76	$147.8_{-1.2}^{+1.1}$
$r_{PS143/217}$	0.895	> 0.672	β_1^4	0.30	$-0.1_{-2.0}^{+1.9}$	k_D	0.13990	$0.1399_{-0.0012}^{+0.0012}$
r_{CIB}	0.426	—	β_2^4	-0.14	$-0.1_{-1.9}^{+2.0}$	θ_D	0.16134	$0.16132_{-0.00064}^{+0.00068}$
n^{CIB}	0.457	$0.24_{-0.30}^{+0.27}$	β_3^4	0.07	$-0.1_{-2.0}^{+2.0}$	z_{EQ}	3358	3358_{-110}^{+130}
$c_{100/143}$	1.00061	$1.00061_{-0.00078}^{+0.00077}$	β_4^4	-0.29	$0.0_{-2.0}^{+1.9}$	θ_{EQ}	0.8212	$0.821_{-0.024}^{+0.023}$
$c_{217/143}$	0.99673	$0.9965_{-0.0025}^{+0.0025}$	β_5^4	0.25	$0.1_{-2.0}^{+1.9}$	$r_s/D_v(0.57)$	0.07173	$0.0718_{-0.0015}^{+0.0015}$
$\xi^{tSZ-CIB}$	0.30	—	Ω_Λ	0.6952	$0.688_{-0.032}^{+0.024}$	$H(0.57)$	0.0003096	$0.0003103_{-0.000067}^{+0.000067}$
A^{kSZ}	2.09	—	Ω_m	0.3064	$0.311_{-0.022}^{+0.027}$	$DA(0.57)$	1387.8	1388_{-33}^{+35}
β_1^1	0.49	$0.5_{-1.7}^{+1.7}$	σ_8	0.841	$0.808_{-0.087}^{+0.044}$			

Best-fit $\chi_{\text{eff}}^2 = 9809.02$; R-1 = 0.03225

χ_{eff}^2 : BAO - DR7: 1.22 6DF: 0.01 DR9: 0.21 CMB - lowlike.v22.light.clik: 2014.54 commander.v3.light.clik: -7.63 CAMspec.v6.2TN_2013_01_18.clik: 7800.66

6.8 base_mnu_omegak_planck_CAMspec_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02205	$0.02219^{+0.00056}_{-0.00058}$	β_2^1	-0.05	$0.1^{+1.9}_{-1.9}$	z_{re}	11.62	$11.5^{+2.1}_{-2.0}$
$\Omega_c h^2$	0.1184	$0.1184^{+0.0054}_{-0.0050}$	β_3^1	0.42	$0.0^{+2.0}_{-2.0}$	H_0	68.24	$67.5^{+1.9}_{-2.0}$
θ	1.04144	$1.0415^{+0.0013}_{-0.0013}$	β_4^1	0.06	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.217	$2.22^{+0.11}_{-0.099}$
τ	0.0962	$0.096^{+0.028}_{-0.024}$	β_5^1	-0.14	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1406	$0.1415^{+0.0060}_{-0.0050}$
Ω_K	-0.0001	$-0.0006^{+0.0079}_{-0.0072}$	β_1^2	-0.01	$0.0^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09598	$0.0956^{+0.0048}_{-0.0046}$
Σm_ν	0.014	< 0.235	β_2^2	0.00	$0.0^{+1.9}_{-2.0}$	Y_{He}	0.247703	$0.24776^{+0.00024}_{-0.00025}$
n_s	0.9641	$0.964^{+0.015}_{-0.016}$	β_3^2	0.13	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8290	$1.828^{+0.025}_{-0.022}$
$\log[10^{10} A_s]$	3.0988	$3.098^{+0.049}_{-0.045}$	β_4^2	0.00	$0.0^{+1.9}_{-2.0}$	$\Omega_\nu h^2$	0.00015	< 0.00253
A_{100}^{PS}	149	147^{+100}_{-100}	β_5^2	0.01	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.784	$13.83^{+0.27}_{-0.26}$
A_{143}^{PS}	63.7	52^{+30}_{-30}	β_1^3	-0.09	$-0.1^{+1.9}_{-1.8}$	z_*	1090.29	$1090.1^{+1.1}_{-1.0}$
A_{217}^{PS}	81.5	119^{+30}_{-30}	β_2^3	-0.47	$-0.2^{+2.0}_{-2.0}$	r_*	145.07	$145.0^{+1.1}_{-1.1}$
A_{143}^{CIB}	7.48	—	β_3^3	-0.02	$0.0^{+1.9}_{-1.9}$	θ_*	1.04157	$1.0416^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	39.5	21^{+10}_{-10}	β_4^3	-0.32	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.17	$1059.5^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.65	—	β_5^3	-0.31	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.86	$147.7^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.899	> 0.676	β_1^4	-0.08	$-0.1^{+1.9}_{-1.9}$	k_D	0.13971	$0.1400^{+0.0011}_{-0.0011}$
r_{CIB}	0.552	—	β_2^4	-0.07	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16145	$0.16126^{+0.00066}_{-0.00062}$
n^{CIB}	0.527	$0.25^{+0.27}_{-0.30}$	β_3^4	-0.17	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3357	3359^{+120}_{-110}
$c_{100/143}$	1.00075	$1.00062^{+0.00077}_{-0.00078}$	β_4^4	-0.11	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8209	$0.821^{+0.022}_{-0.023}$
$c_{217/143}$	0.99831	$0.9965^{+0.0025}_{-0.0024}$	β_5^4	0.39	$0.1^{+2.0}_{-1.9}$	$r_s/D_\nu(0.57)$	0.07218	$0.0717^{+0.0014}_{-0.0015}$
$\xi^{tSZ-CIB}$	0.21	—	Ω_Λ	0.6980	$0.690^{+0.021}_{-0.025}$	$H(0.57)$	0.0003110	$0.0003097^{+0.0000063}_{-0.0000065}$
A^{kSZ}	1.53	—	Ω_m	0.3020	$0.310^{+0.023}_{-0.020}$	$DA(0.57)$	1379.4	1390^{+35}_{-32}
β_1^1	0.40	$0.5^{+1.6}_{-1.7}$	σ_8	0.0698	$0.823^{+0.028}_{-0.038}$			

Best-fit $\chi_{\text{eff}}^2 = 9828.04$; R-1 = 0.04776

χ_{eff}^2 : BAO - DR7: 0.50 6DF: 0.04 DR9: 0.72 CMB - lowlike_v22.light.clik: 2014.55 lensing_likelihood_v3_ref.clik.lensing: 11.24 commander_v3.light.clik: -7.38 CAMspec_v6.2TN_2013_01_18.clik: 7808.37

6.9 base_mnu_omegak_planck_CAMspec_lowl_lowLike_highL_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02217	$0.02212^{+0.00057}_{-0.00055}$	β_3^2	-0.28	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9903	$0.989^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.1193	$0.1186^{+0.0056}_{-0.0052}$	β_4^2	-0.07	$0.3^{+2.0}_{-1.9}$	c_{SPT}^{220}	1.0183	$1.022^{+0.048}_{-0.044}$
θ	1.04123	$1.0414^{+0.0013}_{-0.0013}$	β_5^2	-0.16	$-0.4^{+1.9}_{-2.0}$	Ω_Λ	0.6945	$0.688^{+0.023}_{-0.029}$
τ	0.0947	$0.093^{+0.027}_{-0.025}$	β_1^3	0.097	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3056	$0.311^{+0.026}_{-0.021}$
Ω_K	-0.0001	$0.0005^{+0.0094}_{-0.0073}$	β_2^3	-0.68	$-0.6^{+1.9}_{-2.0}$	σ_8	0.844	$0.813^{+0.040}_{-0.069}$
Σm_ν	0.000	< 0.343	β_3^3	-0.16	$0.2^{+1.9}_{-2.0}$	z_{re}	11.48	$11.3^{+2.2}_{-2.2}$
n_s	0.9632	$0.961^{+0.014}_{-0.014}$	β_4^3	-0.55	$-0.4^{+1.9}_{-2.0}$	H_0	68.03	$67.6^{+2.1}_{-2.1}$
$\log[10^{10} A_s]$	3.0978	$3.092^{+0.052}_{-0.048}$	β_5^3	-0.22	$-0.4^{+2.0}_{-1.9}$	$10^9 A_s$	2.215	$2.20^{+0.12}_{-0.10}$
A_{100}^{PS}	136	186^{+80}_{-80}	β_1^4	0.10	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1414	$0.1420^{+0.0067}_{-0.0054}$
A_{143}^{PS}	66.0	76^{+20}_{-20}	β_2^4	-0.20	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0962	$0.0959^{+0.0053}_{-0.0047}$
A_{217}^{PS}	51.0	64^{+20}_{-20}	β_3^4	0.098	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247753	$0.24773^{+0.00024}_{-0.00024}$
A_{143}^{CIB}	3.42	—	β_4^4	0.17	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8327	$1.828^{+0.025}_{-0.024}$
A_{217}^{CIB}	52.7	44^{+10}_{-9}	β_5^4	0.02	$0.3^{+2.0}_{-2.0}$	$\Omega_\nu h^2$	0.00000	< 0.00369
A_{143}^{tSZ}	5.50	—	$A_{\text{PS,ACT}}^{148}$	10.10	$10.7^{+1.3}_{-1.1}$	Age/Gyr	13.780	$13.81^{+0.27}_{-0.28}$
$r_{PS143/217}$	0.900	> 0.708	$A_{\text{PS,ACT}}^{218}$	78.8	$81.5^{+7.9}_{-8.3}$	z_*	1090.21	$1090.2^{+1.1}_{-1.1}$
r_{CIB}	0.968	—	$A_{\text{PS,SPT}}^{95}$	6.79	$7.53^{+3.1}_{-2.7}$	r_*	144.77	$145.0^{+1.2}_{-1.3}$
n^{CIB}	0.592	$0.49^{+0.15}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	9.89	$10.3^{+1.0}_{-0.97}$	θ_*	1.04135	$1.0416^{+0.0013}_{-0.0013}$
$c_{100/143}$	1.00075	$1.00062^{+0.00077}_{-0.00079}$	$A_{\text{PS,SPT}}^{220}$	73.0	$78.1^{+8.4}_{-8.1}$	z_{drag}	1059.47	$1059.3^{+1.1}_{-1.1}$
$c_{217/143}$	1.00026	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.818	> 0.663	r_{drag}	147.51	$147.7^{+1.2}_{-1.2}$
$\xi^{tSZ-CIB}$	0.010	—	$r_{\text{PS}}^{95/220}$	0.582	$0.56^{+0.24}_{-0.21}$	k_D	0.14016	$0.1399^{+0.0012}_{-0.0013}$
A^{kSZ}	1.24	—	$r_{\text{PS}}^{150/220}$	0.9341	> 0.904	θ_D	0.16123	$0.16135^{+0.00064}_{-0.00063}$
β_1^1	0.39	$0.5^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.467	< 0.750	z_{EQ}	3379	3361^{+130}_{-120}
β_2^1	-0.19	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.758	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8170	$0.821^{+0.023}_{-0.024}$
β_3^1	-0.20	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9940	$0.993^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07193	$0.0718^{+0.0016}_{-0.0016}$
β_4^1	-0.09	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{217}	1.0143	$1.006^{+0.026}_{-0.026}$	$H(0.57)$	0.0003109	$0.0003102^{+0.0000069}_{-0.0000065}$
β_5^1	-0.15	$0.0^{+2.0}_{-2.0}$	c_{ACTe}^{148}	0.9887	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1381.7	1388^{+35}_{-34}
β_1^2	-0.02	$-1.13^{+1.8}_{-1.7}$	c_{ACTe}^{217}	0.9654	$0.964^{+0.021}_{-0.020}$			
β_2^2	0.24	$-0.3^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9906	$0.985^{+0.040}_{-0.038}$			

Best-fit $\chi_{\text{eff}}^2 = 10528.11$; R-1 = 0.06659

χ_{eff}^2 : BAO - DR9: 0.40 DR7: 0.90 6DF: 0.03 CMB - lowlike.v22.light.clik: 2014.48 commander.v3.light.clik: -7.24 CAMspec.v6.2TN_2013_01_18.clik: 7825.30 actspt_2013_01.clik: 694.09

6.10 base_mnu_omegak_planck_CAMspec_lowl_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02216^{+0.00057}_{-0.00055}$	β_3^2	-0.09	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9906	$0.989^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.1184	$0.1185^{+0.0054}_{-0.0049}$	β_4^2	-0.095	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{220}	1.0207	$1.022^{+0.048}_{-0.043}$
θ	1.04141	$1.0414^{+0.0013}_{-0.0013}$	β_5^2	0.33	$-0.4^{+1.9}_{-1.9}$	Ω_Λ	0.6995	$0.689^{+0.020}_{-0.026}$
τ	0.0968	$0.096^{+0.026}_{-0.025}$	β_1^3	-0.01	$0.8^{+1.8}_{-1.7}$	Ω_m	0.3005	$0.311^{+0.024}_{-0.020}$
Ω_K	-0.0001	$-0.0005^{+0.0074}_{-0.0068}$	β_2^3	-0.53	$-0.6^{+1.9}_{-2.0}$	σ_8	0.0699	$0.824^{+0.027}_{-0.037}$
Σm_ν	0.008	< 0.221	β_3^3	0.34	$0.2^{+1.9}_{-2.0}$	z_{re}	11.62	$11.6^{+2.1}_{-2.1}$
n_s	0.9650	$0.962^{+0.014}_{-0.014}$	β_4^3	-0.06	$-0.4^{+1.9}_{-1.9}$	H_0	68.42	$67.5^{+2.0}_{-2.0}$
$\log[10^{10} A_s]$	3.1004	$3.099^{+0.049}_{-0.046}$	β_5^3	0.02	$-0.4^{+2.0}_{-2.0}$	$10^9 A_s$	2.221	$2.22^{+0.11}_{-0.10}$
A_{100}^{PS}	144	184^{+80}_{-80}	β_1^4	0.05	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1407	$0.1416^{+0.0058}_{-0.0050}$
A_{143}^{PS}	70.4	74^{+20}_{-20}	β_2^4	-0.49	$-0.2^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09624	$0.0955^{+0.0048}_{-0.0045}$
A_{217}^{PS}	54.4	63^{+20}_{-20}	β_3^4	0.22	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247769	$0.24775^{+0.00024}_{-0.00024}$
A_{143}^{CIB}	3.50	—	β_4^4	-0.21	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8298	$1.828^{+0.024}_{-0.023}$
A_{217}^{CIB}	51.0	44^{+10}_{-9}	β_5^4	0.22	$0.3^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00009	< 0.00238
A_{143}^{tSZ}	5.62	—	$A_{\text{PS,ACT}}^{148}$	10.23	$10.7^{+1.3}_{-1.1}$	Age/Gyr	13.767	$13.83^{+0.26}_{-0.26}$
$r_{\text{PS143/217}}$	0.866	> 0.710	$A_{\text{PS,ACT}}^{218}$	79.6	$81.5^{+7.8}_{-8.0}$	z_*	1090.08	$1090.2^{+1.1}_{-1.0}$
r_{CIB}	0.980	—	$A_{\text{PS,SPT}}^{95}$	6.81	$7.63^{+3.1}_{-2.7}$	r_*	144.98	$145.0^{+1.1}_{-1.2}$
n^{CIB}	0.559	$0.49^{+0.14}_{-0.14}$	$A_{\text{PS,SPT}}^{150}$	9.98	$10.4^{+1.0}_{-0.97}$	θ_*	1.04153	$1.0416^{+0.0012}_{-0.0013}$
$c_{100/143}$	1.00050	$1.00063^{+0.00076}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	75.9	$78.0^{+8.3}_{-8.0}$	z_{drag}	1059.51	$1059.4^{+1.1}_{-1.1}$
$c_{217/143}$	1.00023	$0.9995^{+0.0020}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.843	> 0.658	r_{drag}	147.71	$147.7^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/220}$	0.591	$0.56^{+0.24}_{-0.21}$	k_D	0.13998	$0.1399^{+0.0012}_{-0.0012}$
A^{kSZ}	0.41	—	$r_{\text{PS}}^{150/220}$	0.9218	> 0.903	θ_D	0.16123	$0.16130^{+0.00064}_{-0.00067}$
β_1^1	0.86	$0.5^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.441	< 0.753	z_{EQ}	3359	3362^{+120}_{-110}
β_2^1	0.14	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,e}}$	0.824	$0.85^{+0.40}_{-0.38}$	θ_{EQ}	0.8209	$0.821^{+0.022}_{-0.023}$
β_3^1	-0.11	$0.0^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9961	$0.993^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07224	$0.0716^{+0.0015}_{-0.0015}$
β_4^1	-0.15	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0088	$1.006^{+0.026}_{-0.027}$	$H(0.57)$	0.0003115	$0.0003096^{+0.0000064}_{-0.0000062}$
β_5^1	-0.19	$0.0^{+2.0}_{-1.9}$	c_{ACTe}^{148}	0.9899	$0.990^{+0.014}_{-0.014}$	$DA(0.57)$	1376.7	1390^{+33}_{-32}
β_1^2	-0.09	$-1.08^{+1.7}_{-1.7}$	c_{ACTe}^{217}	0.9634	$0.964^{+0.020}_{-0.020}$			
β_2^2	-0.10	$-0.3^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9944	$0.985^{+0.040}_{-0.039}$			

Best-fit $\chi_{\text{eff}}^2 = 10536.55$; R-1 = 0.09774

χ_{eff}^2 : BAO - DR9: 0.80 6DF: 0.06 DR7: 0.42 CMB - lowlike_v22.light.clik: 2014.58 lensing_likelihood.v3_ref.clik.lensing: 11.14 commander.v3.light.clik: -7.46 CAMspec_v6.2TN_2013_01_18.clik: 7824.12 actspt_2013_01.clik: 692.83

6.11 base_mnu_omegak_planck_CAMspec_lowl_lowLike_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02228	$0.02218^{+0.00060}_{-0.00061}$	β_1^1	0.70	$0.5^{+1.7}_{-1.6}$	z_{re}	11.69	$11.3^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1177	$0.1177^{+0.0051}_{-0.0053}$	β_2^1	0.08	$0.1^{+1.9}_{-1.9}$	H_0	69.2	68^{+9}_{-8}
θ	1.04168	$1.0415^{+0.0013}_{-0.0013}$	β_3^1	-0.14	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.224	$2.20^{+0.12}_{-0.11}$
τ	0.0981	$0.093^{+0.028}_{-0.025}$	β_4^1	-0.09	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1399	$0.1410^{+0.0061}_{-0.0053}$
Ω_K	0.0007	$0.000^{+0.017}_{-0.020}$	β_5^1	-0.14	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0969	$0.097^{+0.014}_{-0.012}$
Σm_ν	0.000	< 0.314	β_1^2	-0.27	$-0.1^{+1.8}_{-1.8}$	Y_{He}	0.247801	$0.24776^{+0.00026}_{-0.00026}$
n_s	0.9687	$0.965^{+0.016}_{-0.016}$	β_2^2	-0.15	$0.0^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8279	$1.824^{+0.025}_{-0.024}$
$\log[10^{10} A_s]$	3.102	$3.089^{+0.053}_{-0.049}$	β_3^2	-0.47	$-0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00000	< 0.00338
α_{SNLS}	1.414	$1.43^{+0.22}_{-0.20}$	β_4^2	-0.03	$0.1^{+2.0}_{-1.9}$	Age/Gyr	13.71	$13.77^{+0.84}_{-0.85}$
β_{SNLS}	3.233	$3.25^{+0.22}_{-0.21}$	β_5^2	-0.21	$-0.1^{+2.0}_{-2.0}$	z_*	1089.92	$1090.1^{+1.2}_{-1.1}$
A_{100}^{PS}	152	150^{+100}_{-100}	β_1^3	0.07	$-0.1^{+1.9}_{-1.9}$	r_*	145.10	$145.2^{+1.1}_{-1.1}$
A_{143}^{PS}	58.6	52^{+30}_{-30}	β_2^3	-0.21	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04179	$1.0417^{+0.0012}_{-0.0012}$
A_{217}^{PS}	127.1	118^{+30}_{-30}	β_3^3	-0.01	$0.0^{+1.9}_{-1.9}$	z_{drag}	1059.63	$1059.4^{+1.2}_{-1.2}$
A_{143}^{CIB}	5.06	—	β_4^3	-0.27	$-0.2^{+1.9}_{-1.9}$	r_{drag}	147.81	$147.9^{+1.1}_{-1.1}$
A_{217}^{CIB}	20.5	21^{+10}_{-10}	β_5^3	-0.22	$-0.1^{+1.9}_{-2.0}$	k_D	0.13993	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.29	—	β_1^4	-0.04	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16119	$0.16130^{+0.00071}_{-0.00066}$
$r_{PS143/217}$	0.833	> 0.667	β_2^4	-0.38	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3344	3342^{+110}_{-120}
r_{CIB}	0.318	—	β_3^4	-0.25	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8241	$0.824^{+0.024}_{-0.022}$
n^{CIB}	0.308	$0.24^{+0.26}_{-0.31}$	β_4^4	0.22	$0.0^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.0729	$0.0724^{+0.0070}_{-0.0059}$
$c_{100/143}$	1.00065	$1.00062^{+0.00078}_{-0.00077}$	β_5^4	-0.10	$0.1^{+1.9}_{-2.0}$	$H(0.57)$	0.0003132	$0.000312^{+0.000025}_{-0.000021}$
$c_{217/143}$	0.99613	$0.9966^{+0.0026}_{-0.0026}$	Ω_Λ	0.707	$0.695^{+0.056}_{-0.058}$	$DA(0.57)$	1365	1379^{+130}_{-130}
$\xi^{tSZ-CIB}$	0.17	—	Ω_m	0.292	$0.304^{+0.075}_{-0.069}$			
A^{kSZ}	0.1	—	σ_8	0.842	$0.812^{+0.042}_{-0.063}$			

Best-fit $\chi_{\text{eff}}^2 = 10226.91$; R-1 = 0.02943

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.54 commander_v3.light.clik: -8.11 CAMspec_v6.2TN_2013_01_18.clik: 7797.80 SN - SNLS
 April_2012: 422.68

6.12 base_mnu_omegak_planck_CAMspec_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02236	$0.02226^{+0.00059}_{-0.00060}$	β_1^1	0.64	$0.5^{+1.7}_{-1.6}$	z_{re}	11.68	$11.5^{+2.2}_{-2.1}$
$\Omega_c h^2$	0.1170	$0.1175^{+0.0052}_{-0.0052}$	β_2^1	0.26	$0.1^{+1.9}_{-1.9}$	H_0	69.3	$66.4^{+6.3}_{-5.9}$
θ	1.04195	$1.0416^{+0.0013}_{-0.0012}$	β_3^1	0.31	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.21^{+0.12}_{-0.10}$
τ	0.0986	$0.096^{+0.028}_{-0.025}$	β_4^1	-0.15	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1393	$0.1407^{+0.0055}_{-0.0050}$
Ω_K	-0.0001	$-0.004^{+0.014}_{-0.017}$	β_5^1	-0.15	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0965	$0.0935^{+0.010}_{-0.0096}$
Σm_ν	0.000	< 0.240	β_1^2	-0.37	$-0.1^{+1.8}_{-1.8}$	Y_{He}	0.247834	$0.24779^{+0.00025}_{-0.00026}$
n_s	0.9684	$0.966^{+0.015}_{-0.016}$	β_2^2	0.01	$0.0^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8229	$1.824^{+0.024}_{-0.024}$
$\log[10^{10} A_s]$	3.1002	$3.096^{+0.052}_{-0.046}$	β_3^2	0.08	$-0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00000	< 0.00258
α_{SNLS}	1.431	$1.43^{+0.22}_{-0.21}$	β_4^2	-0.08	$0.1^{+2.0}_{-1.9}$	Age/Gyr	13.73	$13.97^{+0.68}_{-0.66}$
β_{SNLS}	3.267	$3.25^{+0.22}_{-0.21}$	β_5^2	-0.69	$-0.1^{+2.0}_{-2.0}$	z_*	1089.77	$1089.9^{+1.1}_{-1.1}$
A_{100}^{PS}	134	145^{+100}_{-100}	β_1^3	0.16	$0.0^{+1.9}_{-1.9}$	r_*	145.23	$145.2^{+1.1}_{-1.1}$
A_{143}^{PS}	52.1	51^{+20}_{-30}	β_2^3	-0.47	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04205	$1.0417^{+0.0012}_{-0.0012}$
A_{217}^{PS}	104.3	118^{+30}_{-30}	β_3^3	-0.13	$0.0^{+1.9}_{-2.0}$	z_{drag}	1059.74	$1059.6^{+1.2}_{-1.2}$
A_{143}^{CIB}	9.33	—	β_4^3	-0.21	$-0.2^{+2.0}_{-2.0}$	r_{drag}	147.92	$147.9^{+1.1}_{-1.1}$
A_{217}^{CIB}	29.4	21^{+10}_{-9}	β_5^3	-0.28	$-0.1^{+1.9}_{-2.0}$	k_D	0.13988	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	7.65	—	β_1^4	-0.26	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16115	$0.16121^{+0.00068}_{-0.00064}$
$r_{PS143/217}$	0.905	> 0.667	β_2^4	0.14	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3329	3339^{+120}_{-110}
r_{CIB}	0.539	—	β_3^4	-0.13	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8273	$0.825^{+0.023}_{-0.022}$
n^{CIB}	0.424	$0.24^{+0.26}_{-0.32}$	β_4^4	0.02	$0.0^{+2.0}_{-2.0}$	$r_s/D_\nu(0.57)$	0.07285	$0.0708^{+0.0048}_{-0.0044}$
$c_{100/143}$	1.00048	$1.00062^{+0.00076}_{-0.00075}$	β_5^4	0.04	$0.1^{+1.9}_{-2.0}$	$H(0.57)$	0.0003129	$0.000306^{+0.000018}_{-0.000017}$
$c_{217/143}$	0.99644	$0.9965^{+0.0027}_{-0.0026}$	Ω_Λ	0.7096	$0.684^{+0.042}_{-0.049}$	$DA(0.57)$	1365	1410^{+100}_{-100}
$\xi^{tSZ-CIB}$	0.46	—	Ω_m	0.290	$0.321^{+0.061}_{-0.054}$			
A^{kSZ}	1.46	—	σ_8	0.0701	$0.817^{+0.037}_{-0.047}$			

Best-fit $\chi_{\text{eff}}^2 = 10241.79$; R-1 = 0.05380

χ_{eff}^2 : CMB - lowlike.v22.light.clk: 2014.57 lensing_likelihood.v3.ref.clk.lensing: 11.18 commander.v3.light.clk: -8.12 CAMspec.v6.2TN_2013_01_18.cli
7801.59 SN - SNLS April.2012: 422.57

6.13 base_mnu_omegak_planck_CAMspec_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02219^{+0.00060}_{-0.00059}$	β_1^1	0.01	$0.5^{+1.7}_{-1.6}$	z_{re}	11.84	$11.3^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1167	$0.1176^{+0.0054}_{-0.0053}$	β_2^1	0.45	$0.1^{+1.9}_{-1.9}$	H_0	68.02	$68.0^{+2.0}_{-2.0}$
θ	1.04174	$1.0415^{+0.0013}_{-0.0013}$	β_3^1	-0.35	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.223	$2.20^{+0.12}_{-0.11}$
τ	0.1002	$0.093^{+0.029}_{-0.026}$	β_4^1	0.36	$0.0^{+1.8}_{-1.9}$	$\Omega_m h^2$	0.1390	$0.1409^{+0.0061}_{-0.0054}$
Ω_K	-0.0024	$0.0002^{+0.0083}_{-0.0073}$	β_5^1	0.14	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09456	$0.0959^{+0.0051}_{-0.0046}$
Σm_ν	0.001	< 0.290	β_1^2	-0.52	$-0.1^{+1.8}_{-1.8}$	Y_{He}	0.247791	$0.24776^{+0.00025}_{-0.00026}$
n_s	0.9659	$0.965^{+0.016}_{-0.016}$	β_2^2	0.01	$0.0^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8192	$1.824^{+0.026}_{-0.024}$
$\log[10^{10} A_s]$	3.101	$3.089^{+0.054}_{-0.049}$	β_3^2	-0.38	$-0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00001	< 0.00312
α_{SNLS}	1.421	$1.42^{+0.22}_{-0.21}$	β_4^2	-0.01	$0.1^{+2.0}_{-1.9}$	Age/Gyr	13.858	$13.80^{+0.26}_{-0.27}$
β_{SNLS}	3.249	$3.25^{+0.22}_{-0.21}$	β_5^2	-0.07	$-0.2^{+2.0}_{-2.0}$	z_*	1089.87	$1090.0^{+1.2}_{-1.1}$
A_{100}^{PS}	213	149^{+100}_{-100}	β_1^3	-0.35	$0.0^{+1.9}_{-1.9}$	r_*	145.37	$145.2^{+1.1}_{-1.2}$
A_{143}^{PS}	45	51^{+20}_{-30}	β_2^3	-0.13	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04185	$1.0417^{+0.0012}_{-0.0012}$
A_{217}^{PS}	103.7	118^{+30}_{-30}	β_3^3	0.05	$0.0^{+1.9}_{-2.0}$	z_{drag}	1059.51	$1059.4^{+1.2}_{-1.2}$
A_{143}^{CIB}	17.4	—	β_4^3	0.09	$-0.2^{+2.0}_{-2.0}$	r_{drag}	148.09	$147.9^{+1.1}_{-1.2}$
A_{217}^{CIB}	29.8	21^{+10}_{-10}	β_5^3	0.01	$-0.1^{+1.9}_{-1.9}$	k_D	0.13963	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	2.68	—	β_1^4	-0.54	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16126	$0.16129^{+0.00070}_{-0.00064}$
$r_{PS143/217}$	0.806	> 0.665	β_2^4	-0.39	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3321	3340^{+120}_{-120}
r_{CIB}	0.545	—	β_3^4	-0.10	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8283	$0.825^{+0.024}_{-0.023}$
n^{CIB}	0.356	$0.24^{+0.27}_{-0.31}$	β_4^4	0.21	$0.0^{+2.0}_{-2.0}$	$r_s/D_\nu(0.57)$	0.07196	$0.0721^{+0.0015}_{-0.0015}$
$c_{100/143}$	1.00059	$1.00062^{+0.00078}_{-0.00076}$	β_5^4	-0.05	$0.1^{+1.9}_{-2.0}$	$H(0.57)$	0.0003094	$0.0003107^{+0.0000068}_{-0.0000063}$
$c_{217/143}$	0.99620	$0.9965^{+0.0027}_{-0.0025}$	Ω_Λ	0.7020	$0.695^{+0.021}_{-0.025}$	$DA(0.57)$	1385.2	1382^{+34}_{-33}
$\xi^{tSZ-CIB}$	0.57	—	Ω_m	0.3004	$0.305^{+0.023}_{-0.020}$			
A^{kSZ}	1.57	—	σ_8	0.8364	$0.814^{+0.038}_{-0.057}$			

Best-fit $\chi_{\text{eff}}^2 = 10231.12$; R-1 = 0.05918

χ_{eff}^2 : BAO - DR7: 0.73 6DF: 0.02 DR9: 0.44 CMB - lowlike.v22.light.clik: 2014.95 commander.v3.light.clik: -7.93 CAMspec.v6.2TN.2013.01.18.clik: 7799.66 SN - SNLS April.2012: 423.25

6.14 base_mnu_omegak_planck_CAMspec_lowl_lowLike_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02222^{+0.00064}_{-0.00065}$	β_2^1	-0.02	$0.1^{+1.9}_{-1.9}$	z_{re}	11.37	$11.1^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1189	$0.1179^{+0.0059}_{-0.0053}$	β_3^1	0.42	$0.0^{+2.0}_{-1.9}$	H_0	67.0	64^{+8}_{-7}
θ	1.04156	$1.0415^{+0.0013}_{-0.0013}$	β_4^1	-0.08	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.209	$2.19^{+0.11}_{-0.10}$
τ	0.0938	$0.092^{+0.027}_{-0.025}$	β_5^1	-0.14	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1411	$0.1416^{+0.0074}_{-0.0057}$
Ω_K	-0.0028	$-0.009^{+0.021}_{-0.024}$	β_1^2	-0.09	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.0945	$0.090^{+0.013}_{-0.011}$
Σm_ν	0.002	< 0.415	β_2^2	-0.39	$0.0^{+1.9}_{-2.0}$	Y_{He}	0.247763	$0.24778^{+0.00027}_{-0.00028}$
n_s	0.9634	$0.965^{+0.016}_{-0.016}$	β_3^2	0.37	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8312	$1.826^{+0.026}_{-0.025}$
$\log[10^{10} A_s]$	3.0951	$3.088^{+0.051}_{-0.049}$	β_4^2	-0.07	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00002	< 0.00447
A_{100}^{PS}	176	145^{+100}_{-100}	β_5^2	-0.19	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.89	$14.21^{+0.86}_{-0.86}$
A_{143}^{PS}	46	52^{+30}_{-30}	β_1^3	-0.12	$-0.1^{+1.9}_{-1.9}$	z_*	1090.14	$1090.0^{+1.3}_{-1.2}$
A_{217}^{PS}	114.3	119^{+30}_{-30}	β_2^3	-0.25	$-0.1^{+1.9}_{-1.9}$	r_*	144.86	$145.1^{+1.2}_{-1.3}$
A_{143}^{CIB}	12.4	—	β_3^3	0.28	$0.0^{+2.0}_{-1.9}$	θ_*	1.04168	$1.0417^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	26.8	21^{+10}_{-10}	β_4^3	-0.40	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.51	$1059.5^{+1.3}_{-1.3}$
A_{143}^{tSZ}	5.30	—	β_5^3	-0.15	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.59	$147.8^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.894	> 0.670	β_1^4	-0.18	$-0.1^{+2.0}_{-1.9}$	k_D	0.14009	$0.1399^{+0.0012}_{-0.0012}$
r_{CIB}	0.455	—	β_2^4	0.08	$0.0^{+1.9}_{-1.9}$	θ_D	0.16126	$0.16124^{+0.00071}_{-0.00070}$
n^{CIB}	0.391	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.38	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3370	3349^{+130}_{-120}
$c_{100/143}$	1.00069	$1.00061^{+0.00078}_{-0.00077}$	β_4^4	-0.50	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8190	$0.823^{+0.024}_{-0.025}$
$c_{217/143}$	0.99598	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.13	$0.1^{+1.9}_{-1.9}$	$r_s/D_\nu(0.57)$	0.0711	$0.0689^{+0.0062}_{-0.0055}$
$\xi^{tSZ-CIB}$	0.28	—	Ω_Λ	0.689	$0.658^{+0.061}_{-0.072}$	$H(0.57)$	0.0003079	$0.000300^{+0.000022}_{-0.000020}$
A^{kSZ}	0.4	—	Ω_m	0.314	$0.351^{+0.091}_{-0.078}$	$DA(0.57)$	1399	1454^{+140}_{-130}
β_1^1	0.58	$0.5^{+1.6}_{-1.6}$	σ_8	0.840	$0.802^{+0.047}_{-0.079}$			

Best-fit $\chi_{\text{eff}}^2 = 9935.01$; R-1 = 0.03170

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.52 commander.v3.light.clik: -7.63 CAMspec.v6.2TN_2013_01_18.clik: 7797.62 SN - Union2.1: 130.50

6.15 base_mnu_omegak_planck_CAMspec_lowl_lowLike_Union2_post_BAO

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02217^{+0.00060}_{-0.00066}$	β_2^1	$0.1^{+1.9}_{-1.9}$	z_{re}	$11.2^{+2.1}_{-2.1}$
$\Omega_c h^2$	$0.1182^{+0.0060}_{-0.0054}$	β_3^1	$0.0^{+1.9}_{-2.0}$	H_0	$67.8^{+2.1}_{-2.0}$
θ	$1.0415^{+0.0013}_{-0.0013}$	β_4^1	$0.0^{+2.0}_{-1.8}$	$10^9 A_s$	$2.20^{+0.11}_{-0.11}$
τ	$0.092^{+0.027}_{-0.024}$	β_5^1	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	$0.1417^{+0.0071}_{-0.0057}$
Ω_K	$0.0005^{+0.010}_{-0.0077}$	β_1^2	$-0.1^{+1.8}_{-1.7}$	$\Omega_m h^3$	$0.0960^{+0.0056}_{-0.0049}$
Σm_ν	< 0.383	β_2^2	$0.0^{+2.1}_{-2.0}$	Y_{He}	$0.24775^{+0.00026}_{-0.00028}$
n_s	$0.965^{+0.017}_{-0.017}$	β_3^2	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s e^{-2\tau}$	$1.827^{+0.026}_{-0.025}$
$\log[10^{10} A_s]$	$3.090^{+0.049}_{-0.049}$	β_4^2	$0.0^{+2.0}_{-1.9}$	$\Omega_\nu h^2$	< 0.00412
A_{100}^{PS}	147^{+100}_{-100}	β_5^2	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	$13.80^{+0.28}_{-0.29}$
A_{143}^{PS}	53^{+20}_{-30}	β_1^3	$0.0^{+1.8}_{-1.8}$	z_*	$1090.1^{+1.3}_{-1.1}$
A_{217}^{PS}	119^{+30}_{-30}	β_2^3	$-0.1^{+2.0}_{-2.0}$	r_*	$145.0^{+1.2}_{-1.3}$
A_{143}^{CIB}	—	β_3^3	$0.0^{+2.0}_{-1.9}$	θ_*	$1.0417^{+0.0013}_{-0.0012}$
A_{217}^{CIB}	21^{+10}_{-10}	β_4^3	$-0.2^{+2.0}_{-2.0}$	z_{drag}	$1059.4^{+1.2}_{-1.3}$
A_{143}^{tSZ}	—	β_5^3	$-0.1^{+2.0}_{-2.1}$	r_{drag}	$147.8^{+1.2}_{-1.3}$
$r_{PS143/217}$	> 0.671	β_1^4	$-0.1^{+1.9}_{-1.8}$	k_D	$0.1399^{+0.0012}_{-0.0012}$
r_{CIB}	—	β_2^4	$0.0^{+1.9}_{-1.9}$	θ_D	$0.16130^{+0.00074}_{-0.00068}$
n^{CIB}	$0.24^{+0.26}_{-0.29}$	β_3^4	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3355^{+130}_{-120}
$c_{100/143}$	$1.00061^{+0.00076}_{-0.00079}$	β_4^4	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	$0.822^{+0.024}_{-0.025}$
$c_{217/143}$	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	$0.0^{+2.0}_{-1.9}$	$r_s/D_\nu(0.57)$	$0.0719^{+0.0016}_{-0.0015}$
$\xi^{tSZ-CIB}$	—	Ω_Λ	$0.691^{+0.023}_{-0.029}$	$H(0.57)$	$0.0003105^{+0.0000071}_{-0.0000067}$
A^{kSZ}	—	Ω_m	$0.309^{+0.025}_{-0.021}$	$DA(0.57)$	1386^{+34}_{-34}
β_1^1	$0.5^{+1.6}_{-1.6}$	σ_8	$0.812^{+0.041}_{-0.078}$		

; R-1 =0.08159

7 nnu

7.1 base_nnu_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02247^{+0.00089}_{-0.00084}$	β_2^1	0.09	$0.1^{+1.9}_{-1.9}$	σ_8	0.8346	$0.846^{+0.043}_{-0.041}$
$\Omega_c h^2$	0.1215	$0.125^{+0.011}_{-0.011}$	β_3^1	0.00	$0.0^{+2.0}_{-1.9}$	z_{re}	11.27	$11.7^{+2.6}_{-2.4}$
θ	1.04118	$1.0409^{+0.0015}_{-0.0014}$	β_4^1	-0.18	$0.0^{+1.9}_{-2.0}$	H_0	68.6	$71.3^{+7.3}_{-6.8}$
τ	0.0913	$0.096^{+0.031}_{-0.027}$	β_5^1	-0.14	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.213	$2.25^{+0.16}_{-0.14}$
N_{eff}	3.20	$3.54^{+0.87}_{-0.82}$	β_1^2	0.13	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1444	$0.148^{+0.012}_{-0.011}$
n_s	0.9682	$0.981^{+0.036}_{-0.036}$	β_2^2	-0.15	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0990	$0.106^{+0.018}_{-0.016}$
$\log[10^{10} A_s]$	3.097	$3.113^{+0.070}_{-0.065}$	β_3^2	-0.19	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.2498	$0.254^{+0.011}_{-0.011}$
A_{100}^{PS}	150	162^{+100}_{-100}	β_4^2	-0.27	$0.0^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8432	$1.857^{+0.046}_{-0.051}$
A_{143}^{PS}	54.6	55^{+30}_{-30}	β_5^2	-0.05	$-0.2^{+1.9}_{-2.0}$	Age/Gyr	13.65	$13.33^{+0.83}_{-0.79}$
A_{217}^{PS}	124.0	118^{+30}_{-30}	β_1^3	-0.09	$0.0^{+1.9}_{-1.9}$	z_*	1090.55	$1090.8^{+1.3}_{-1.3}$
A_{143}^{CIB}	8.19	—	β_2^3	-0.11	$-0.1^{+2.0}_{-2.0}$	r_*	143.4	$140.8^{+7.0}_{-6.6}$
A_{217}^{CIB}	22	23^{+10}_{-10}	β_3^3	0.32	$0.0^{+2.0}_{-2.0}$	θ_*	1.04122	$1.0407^{+0.0019}_{-0.0018}$
A_{143}^{tSZ}	6.35	—	β_4^3	-0.32	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.82	$1061.0^{+3.1}_{-3.0}$
$r_{PS143/217}$	0.845	> 0.665	β_5^3	-0.05	$-0.1^{+2.0}_{-1.9}$	r_{drag}	146.1	$143.4^{+7.3}_{-6.9}$
r_{CIB}	0.466	—	β_1^4	0.12	$-0.1^{+1.9}_{-1.9}$	k_D	0.1411	$0.1431^{+0.0052}_{-0.0052}$
n^{CIB}	0.280	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.18	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16171	$0.1624^{+0.0018}_{-0.0019}$
$c_{100/143}$	1.00058	$1.00061^{+0.00077}_{-0.00078}$	β_3^4	-0.15	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3364	3310^{+170}_{-170}
$c_{217/143}$	0.99627	$0.9967^{+0.0026}_{-0.0025}$	β_4^4	0.00	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8201	$0.831^{+0.035}_{-0.033}$
$\xi^{tSZ-CIB}$	0.38	—	β_5^4	-0.20	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07186	$0.0727^{+0.0028}_{-0.0025}$
A^{kSZ}	2.39	—	Ω_Λ	0.6929	$0.707^{+0.043}_{-0.047}$	$H(0.57)$	0.0003138	$0.000323^{+0.000022}_{-0.000021}$
β_1^1	0.73	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3071	$0.293^{+0.047}_{-0.043}$	$DA(0.57)$	1370	1327^{+110}_{-110}

Best-fit $\chi_{\text{eff}}^2 = 9803.67$; R-1 = 0.01985

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.29 commander_v3.light.clik: -8.27 CAMspec_v6.2TN_2013_01_18.clik: 7797.65

7.2 base_nnu_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02231	$0.02238^{+0.00084}_{-0.00079}$	β_2^1	0.14	$0.1^{+1.9}_{-1.9}$	σ_8	0.0696	$0.845^{+0.041}_{-0.038}$
$\Omega_c h^2$	0.1216	$0.124^{+0.011}_{-0.011}$	β_3^1	0.00	$0.0^{+2.0}_{-2.0}$	z_{re}	11.35	$11.8^{+2.5}_{-2.3}$
θ	1.04114	$1.0409^{+0.0015}_{-0.0015}$	β_4^1	-0.05	$0.0^{+1.9}_{-2.0}$	H_0	69.0	$70.1^{+6.7}_{-6.1}$
τ	0.0926	$0.097^{+0.031}_{-0.027}$	β_5^1	-0.02	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.219	$2.25^{+0.16}_{-0.14}$
N_{eff}	3.23	$3.40^{+0.83}_{-0.78}$	β_1^2	-0.12	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1446	$0.147^{+0.012}_{-0.011}$
n_s	0.9702	$0.975^{+0.034}_{-0.033}$	β_2^2	-0.01	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0997	$0.103^{+0.017}_{-0.015}$
$\log[10^{10} A_s]$	3.100	$3.113^{+0.069}_{-0.063}$	β_3^2	-0.06	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2503	$0.252^{+0.010}_{-0.011}$
A_{100}^{PS}	154	158^{+100}_{-100}	β_4^2	0.02	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8441	$1.852^{+0.046}_{-0.051}$
A_{143}^{PS}	51.9	55^{+30}_{-30}	β_5^2	-0.08	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.61	$13.47^{+0.80}_{-0.76}$
A_{217}^{PS}	125.8	118^{+30}_{-30}	β_1^3	0.03	$0.0^{+1.9}_{-1.9}$	z_*	1090.43	$1090.7^{+1.3}_{-1.3}$
A_{143}^{CIB}	7.44	—	β_2^3	-0.06	$-0.1^{+1.9}_{-2.0}$	r_*	143.1	$141.8^{+6.9}_{-6.5}$
A_{217}^{CIB}	21.7	23^{+10}_{-10}	β_3^3	0.02	$0.0^{+2.0}_{-2.0}$	θ_*	1.04115	$1.0408^{+0.0019}_{-0.0018}$
A_{143}^{tSZ}	7.05	—	β_4^3	-0.17	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1060.12	$1060.6^{+3.0}_{-2.9}$
$r_{PS143/217}$	0.762	> 0.671	β_5^3	-0.08	$-0.1^{+2.0}_{-1.9}$	r_{drag}	145.8	$144.4^{+7.1}_{-6.8}$
r_{CIB}	0.583	—	β_1^4	-0.06	$-0.1^{+1.9}_{-2.0}$	k_D	0.1414	$0.1424^{+0.0052}_{-0.0051}$
n^{CIB}	0.177	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.07	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16165	$0.1621^{+0.0018}_{-0.0018}$
$c_{100/143}$	1.00061	$1.00062^{+0.00079}_{-0.00078}$	β_3^4	-0.05	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3355	3339^{+140}_{-150}
$c_{217/143}$	0.99669	$0.9966^{+0.0026}_{-0.0026}$	β_4^4	0.04	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8219	$0.825^{+0.030}_{-0.027}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.02	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07202	$0.0723^{+0.0024}_{-0.0021}$
A^{kSZ}	0.0	—	Ω_Λ	0.6961	$0.700^{+0.039}_{-0.041}$	$H(0.57)$	0.0003148	$0.000319^{+0.000021}_{-0.000020}$
β_1^1	0.53	$0.6^{+1.7}_{-1.7}$	Ω_m	0.3039	$0.300^{+0.041}_{-0.039}$	$DA(0.57)$	1364	1346^{+110}_{-100}

Best-fit $\chi_{\text{eff}}^2 = 9813.84$; R-1 = 0.01918

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.31 lensing_likelihood.v3.ref.clik.lensing: 11.54 commander.v3.light.clik: -8.47 CAMspec.v6.2TN_2013_01_18.clik: 7796.47

7.3 base_nnu_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02253	$0.02266^{+0.00061}_{-0.00060}$	β_2^1	0.16	$0.1^{+1.9}_{-1.9}$	σ_8	0.8411	$0.853^{+0.037}_{-0.035}$
$\Omega_c h^2$	0.1253	$0.1270^{+0.0098}_{-0.0092}$	β_3^1	0.05	$0.0^{+2.0}_{-2.0}$	z_{re}	11.18	$12.0^{+2.4}_{-2.3}$
θ	1.04082	$1.0407^{+0.0014}_{-0.0014}$	β_4^1	-0.02	$0.0^{+1.9}_{-2.0}$	H_0	72.09	$73.1^{+4.0}_{-4.0}$
τ	0.0898	$0.099^{+0.030}_{-0.026}$	β_5^1	-0.15	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.225	$2.27^{+0.14}_{-0.13}$
N_{eff}	3.61	$3.74^{+0.54}_{-0.53}$	β_1^2	-0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1485	$0.1503^{+0.0099}_{-0.0093}$
n_s	0.9843	$0.990^{+0.021}_{-0.022}$	β_2^2	0.04	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1071	$0.110^{+0.011}_{-0.011}$
$\log[10^{10} A_s]$	3.103	$3.124^{+0.061}_{-0.056}$	β_3^2	0.06	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2552	$0.2568^{+0.0065}_{-0.0068}$
A_{100}^{PS}	207	169^{+100}_{-100}	β_4^2	-0.095	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8596	$1.865^{+0.040}_{-0.041}$
A_{143}^{PS}	55.1	56^{+30}_{-30}	β_5^2	-0.05	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.250	$13.13^{+0.49}_{-0.45}$
A_{217}^{PS}	120.1	117^{+30}_{-30}	β_1^3	-0.06	$0.0^{+1.9}_{-1.9}$	z_*	1090.83	$1090.9^{+1.3}_{-1.3}$
A_{143}^{CIB}	12.1	—	β_2^3	-0.03	$-0.1^{+1.9}_{-1.9}$	r_*	140.29	$139.3^{+4.6}_{-4.5}$
A_{217}^{CIB}	25.9	24^{+10}_{-10}	β_3^3	0.04	$0.0^{+1.9}_{-2.0}$	θ_*	1.04058	$1.0404^{+0.0016}_{-0.0016}$
A_{143}^{tSZ}	3.35	—	β_4^3	-0.11	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1061.19	$1061.7^{+1.9}_{-2.0}$
$r_{PS143/217}$	0.768	> 0.664	β_5^3	-0.12	$-0.1^{+2.0}_{-2.0}$	r_{drag}	142.85	$141.8^{+4.8}_{-4.6}$
r_{CIB}	0.530	—	β_1^4	-0.08	$-0.1^{+1.9}_{-1.9}$	k_D	0.14335	$0.1442^{+0.0036}_{-0.0036}$
n^{CIB}	0.277	$0.25^{+0.26}_{-0.29}$	β_2^4	0.03	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16256	$0.1628^{+0.0013}_{-0.0013}$
$c_{100/143}$	1.00060	$1.00061^{+0.00077}_{-0.00078}$	β_3^4	0.00	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3285	3272^{+110}_{-110}
$c_{217/143}$	0.99658	$0.9967^{+0.0026}_{-0.0026}$	β_4^4	-0.09	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8358	$0.839^{+0.023}_{-0.022}$
$\xi^{tSZ-CIB}$	0.03	—	β_5^4	-0.04	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07305	$0.0733^{+0.0018}_{-0.0018}$
A^{kSZ}	1.95	—	Ω_Λ	0.7143	$0.718^{+0.027}_{-0.029}$	$H(0.57)$	0.0003245	$0.000328^{+0.000013}_{-0.000013}$
β_1^1	0.44	$0.6^{+1.7}_{-1.7}$	Ω_m	0.2857	$0.282^{+0.029}_{-0.027}$	$DA(0.57)$	1314	1299^{+62}_{-58}

Best-fit $\chi_{\text{eff}}^2 = 9803.49$; R-1 = 0.02098

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.11 commander_v3.light.clik: -10.23 CAMspec_v6.2TN_2013_01_18.clik: 7799.10 Hubble - HST: 0.53

7.4 base_nnu_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02221	$0.0239^{+0.0014}_{-0.0017}$	β_2^1	0.28	$0.1^{+1.9}_{-1.9}$	σ_8	0.836	$0.97^{+0.11}_{-0.13}$
$\Omega_c h^2$	0.1215	$0.131^{+0.012}_{-0.012}$	β_3^1	-0.02	$0.0^{+1.9}_{-2.0}$	z_{re}	11.5	20^{+6}_{-10}
θ	1.04114	$1.0408^{+0.0014}_{-0.0014}$	β_4^1	-0.11	$0.0^{+2.0}_{-2.0}$	H_0	68.7	83^{+10}_{-10}
τ	0.094	$0.221^{+0.096}_{-0.14}$	β_5^1	0.06	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$2.93^{+0.60}_{-0.74}$
N_{eff}	3.21	$4.63^{+1.2}_{-1.4}$	β_1^2	-0.01	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1444	$0.156^{+0.013}_{-0.013}$
n_s	0.969	$1.044^{+0.053}_{-0.073}$	β_2^2	-0.05	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0992	$0.129^{+0.027}_{-0.029}$
$\log[10^{10} A_s]$	3.102	$3.37^{+0.19}_{-0.28}$	β_3^2	0.02	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.2500	$0.267^{+0.013}_{-0.017}$
A_{100}^{PS}	163	160^{+100}_{-100}	β_4^2	0.03	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8433	$1.871^{+0.037}_{-0.043}$
A_{143}^{PS}	53.8	57^{+30}_{-30}	β_5^2	-0.17	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.64	$12.3^{+1.3}_{-0.93}$
A_{217}^{PS}	127.0	120^{+30}_{-30}	β_1^3	-0.02	$0.0^{+1.9}_{-1.8}$	z_*	1090.52	$1090.5^{+1.3}_{-1.3}$
A_{143}^{CIB}	7.65	—	β_2^3	-0.11	$-0.1^{+1.9}_{-1.9}$	r_*	143.3	$133.9^{+9.4}_{-7.3}$
A_{217}^{CIB}	22	23^{+10}_{-10}	β_3^3	-0.02	$0.0^{+2.0}_{-2.0}$	θ_*	1.04117	$1.0398^{+0.0019}_{-0.0017}$
A_{143}^{tSZ}	5.54	—	β_4^3	-0.08	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.89	$1065.3^{+4.1}_{-5.3}$
$r_{PS143/217}$	0.787	> 0.676	β_5^3	-0.08	$-0.1^{+1.9}_{-2.0}$	r_{drag}	146.0	$136.0^{+9.9}_{-7.7}$
r_{CIB}	0.479	—	β_1^4	-0.04	$-0.1^{+1.9}_{-1.9}$	k_D	0.1411	$0.1489^{+0.0064}_{-0.0077}$
n^{CIB}	0.239	$0.25^{+0.26}_{-0.30}$	β_2^4	0.05	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16171	$0.1640^{+0.0021}_{-0.0024}$
$c_{100/143}$	1.00062	$1.00061^{+0.00078}_{-0.00077}$	β_3^4	-0.12	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3359	3061^{+310}_{-220}
$c_{217/143}$	0.99648	$0.9966^{+0.0026}_{-0.0025}$	β_4^4	-0.01	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.821	$0.888^{+0.054}_{-0.068}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	-0.02	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.0719	$0.0773^{+0.0045}_{-0.0055}$
A^{kSZ}	0.7	—	Ω_Λ	0.694	$0.770^{+0.048}_{-0.078}$	$H(0.57)$	0.0003141	$0.000356^{+0.000034}_{-0.000040}$
β_1^1	0.52	$0.5^{+1.7}_{-1.7}$	Ω_m	0.306	$0.230^{+0.078}_{-0.048}$	$DA(0.57)$	1368	1175^{+200}_{-100}

Best-fit $\chi_{\text{eff}}^2 = 7788.41$; R-1 = 0.01996

χ_{eff}^2 : CMB - commander.v3.light.clik: -8.31 CAMspec.v6.2TN_2013_01_18.clik: 7796.72

7.5 base_nnu_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02229	$0.0235^{+0.0016}_{-0.0014}$	β_2^1	0.02	$0.1^{+1.9}_{-1.9}$	σ_8	0.070	$0.920^{+0.10}_{-0.089}$
$\Omega_c h^2$	0.1227	$0.127^{+0.012}_{-0.011}$	β_3^1	-0.01	$0.0^{+1.9}_{-1.9}$	z_{re}	11.4	$17.7^{+6.1}_{-7.2}$
θ	1.04099	$1.0410^{+0.0014}_{-0.0014}$	β_4^1	0.05	$0.0^{+1.9}_{-2.0}$	H_0	69.2	79^{+10}_{-10}
τ	0.093	$0.181^{+0.099}_{-0.099}$	β_5^1	0.12	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.23	$2.69^{+0.58}_{-0.50}$
N_{eff}	3.29	$4.20^{+1.4}_{-1.1}$	β_1^2	-0.12	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1456	$0.151^{+0.013}_{-0.011}$
n_s	0.971	$1.023^{+0.067}_{-0.060}$	β_2^2	-0.04	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1008	$0.120^{+0.030}_{-0.023}$
$\log[10^{10} A_s]$	3.102	$3.29^{+0.20}_{-0.20}$	β_3^2	-0.13	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.2510	$0.262^{+0.015}_{-0.014}$
A_{100}^{PS}	164	161^{+100}_{-100}	β_4^2	0.15	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8483	$1.859^{+0.038}_{-0.042}$
A_{143}^{PS}	61.5	55^{+30}_{-30}	β_5^2	-0.01	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.57	$12.7^{+1.1}_{-1.1}$
A_{217}^{PS}	125.2	118^{+30}_{-30}	β_1^3	0.17	$0.0^{+1.9}_{-1.8}$	z_*	1090.60	$1090.3^{+1.3}_{-1.3}$
A_{143}^{CIB}	8.89	—	β_2^3	-0.07	$-0.1^{+1.9}_{-2.0}$	r_*	142.6	$136.9^{+8.0}_{-8.4}$
A_{217}^{CIB}	22.3	23^{+10}_{-10}	β_3^3	0.00	$0.0^{+1.9}_{-2.0}$	θ_*	1.04097	$1.0403^{+0.0018}_{-0.0018}$
A_{143}^{tSZ}	6.85	—	β_4^3	0.02	$-0.1^{+1.9}_{-1.9}$	z_{drag}	1060.20	$1063.8^{+4.8}_{-4.4}$
$r_{PS143/217}$	0.777	> 0.667	β_5^3	-0.08	$-0.1^{+1.9}_{-1.9}$	r_{drag}	145.3	$139.1^{+8.4}_{-8.9}$
r_{CIB}	0.628	—	β_1^4	0.06	$-0.1^{+2.0}_{-1.9}$	k_D	0.1417	$0.1464^{+0.0072}_{-0.0064}$
n^{CIB}	0.162	$0.24^{+0.26}_{-0.30}$	β_2^4	-0.16	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16183	$0.1633^{+0.0024}_{-0.0021}$
$c_{100/143}$	1.00060	$1.00062^{+0.00078}_{-0.00077}$	β_3^4	0.02	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3354	3119^{+280}_{-270}
$c_{217/143}$	0.99673	$0.9966^{+0.0026}_{-0.0025}$	β_4^4	0.07	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.822	$0.874^{+0.067}_{-0.060}$
$\xi^{tSZ-CIB}$	0.43	—	β_5^4	0.21	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.0720	$0.0762^{+0.0056}_{-0.0048}$
A^{kSZ}	0.0	—	Ω_Λ	0.696	$0.756^{+0.061}_{-0.072}$	$H(0.57)$	0.0003159	$0.000344^{+0.000041}_{-0.000033}$
β_1^1	0.55	$0.5^{+1.7}_{-1.6}$	Ω_m	0.304	$0.244^{+0.072}_{-0.061}$	$DA(0.57)$	1359	1223^{+200}_{-200}

Best-fit $\chi_{\text{eff}}^2 = 7799.84$; R-1 = 0.01993

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik.lensing: 11.64 commander.v3.light.clik: -8.53 CAMspec.v6.2TN.2013.01.18.clik: 7796.74

7.6 base_nnu_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02229	$0.02241^{+0.00061}_{-0.00061}$	β_2^1	0.17	$0.1^{+1.8}_{-1.9}$	σ_8	0.839	$0.860^{+0.069}_{-0.074}$
$\Omega_c h^2$	0.1228	$0.1245^{+0.0098}_{-0.0091}$	β_3^1	0.01	$-0.1^{+1.9}_{-1.9}$	z_{re}	11.5	$12.8^{+5.4}_{-7.7}$
θ	1.04100	$1.0409^{+0.0013}_{-0.0014}$	β_4^1	0.04	$0.0^{+1.9}_{-1.9}$	H_0	69.47	$70.4^{+4.0}_{-3.7}$
τ	0.094	$0.112^{+0.070}_{-0.082}$	β_5^1	-0.08	$-0.1^{+1.9}_{-2.0}$	$10^9 A_s$	2.228	$2.33^{+0.34}_{-0.37}$
N_{eff}	3.32	$3.44^{+0.60}_{-0.55}$	β_1^2	-0.12	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1457	$0.1475^{+0.0099}_{-0.0093}$
n_s	0.9716	$0.978^{+0.023}_{-0.023}$	β_2^2	-0.03	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.1012	$0.104^{+0.012}_{-0.011}$
$\log[10^{10} A_s]$	3.104	$3.14^{+0.14}_{-0.17}$	β_3^2	-0.10	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.2514	$0.2529^{+0.0075}_{-0.0073}$
A_{100}^{PS}	150	156^{+100}_{-100}	β_4^2	-0.11	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8464	$1.854^{+0.042}_{-0.044}$
A_{143}^{PS}	47	55^{+30}_{-30}	β_5^2	-0.12	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.54	$13.42^{+0.54}_{-0.53}$
A_{217}^{PS}	124.1	119^{+30}_{-30}	β_1^3	0.01	$0.0^{+1.9}_{-1.8}$	z_*	1090.63	$1090.7^{+1.3}_{-1.2}$
A_{143}^{CIB}	8.82	—	β_2^3	0.04	$-0.1^{+2.0}_{-1.9}$	r_*	142.5	$141.4^{+5.1}_{-5.1}$
A_{217}^{CIB}	23.2	22^{+10}_{-10}	β_3^3	0.01	$0.0^{+1.9}_{-2.0}$	θ_*	1.04096	$1.0408^{+0.0015}_{-0.0017}$
A_{143}^{tSZ}	9.00	—	β_4^3	-0.08	$-0.1^{+1.9}_{-1.9}$	z_{drag}	1060.24	$1060.7^{+2.1}_{-2.1}$
$r_{PS143/217}$	0.772	> 0.673	β_5^3	-0.07	$-0.1^{+2.0}_{-2.0}$	r_{drag}	145.1	$144.1^{+5.3}_{-5.2}$
r_{CIB}	0.672	—	β_1^4	-0.06	$0.0^{+1.9}_{-1.8}$	k_D	0.14176	$0.1426^{+0.0040}_{-0.0038}$
n^{CIB}	0.147	$0.25^{+0.27}_{-0.30}$	β_2^4	-0.07	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16193	$0.1621^{+0.0015}_{-0.0013}$
$c_{100/143}$	1.00060	$1.00060^{+0.00076}_{-0.00078}$	β_3^4	-0.09	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3345	3333^{+87}_{-88}
$c_{217/143}$	0.99677	$0.9966^{+0.0025}_{-0.0024}$	β_4^4	0.02	$0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8237	$0.826^{+0.018}_{-0.017}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	-0.07	$0.0^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07213	$0.0723^{+0.0014}_{-0.0013}$
A^{kSZ}	0.3	—	Ω_Λ	0.6981	$0.702^{+0.023}_{-0.024}$	$H(0.57)$	0.0003166	$0.000320^{+0.000014}_{-0.000013}$
β_1^1	0.46	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3019	$0.298^{+0.024}_{-0.023}$	$DA(0.57)$	1355	1341^{+64}_{-63}

Best-fit $\chi_{\text{eff}}^2 = 7789.05$; R-1 = 0.11790

χ_{eff}^2 : BAO - DR7: 0.56 6DF: 0.26 DR9: 0.64 CMB - commander_v3.light.clik: -8.62 CAMspec_v6.2TN_2013_01_18.clik: 7796.20

7.7 base_nnu_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02253	$0.02293^{+0.00071}_{-0.00068}$	β_2^1	0.13	$0.1^{+1.9}_{-1.9}$	σ_8	0.840	$0.899^{+0.067}_{-0.071}$
$\Omega_c h^2$	0.1252	$0.1260^{+0.0097}_{-0.0092}$	β_3^1	-0.09	$0.0^{+1.9}_{-1.9}$	z_{re}	11.2	$16.1^{+4.8}_{-6.5}$
θ	1.04084	$1.0409^{+0.0014}_{-0.0014}$	β_4^1	-0.07	$0.0^{+1.9}_{-2.0}$	H_0	72.20	$74.6^{+4.5}_{-4.4}$
τ	0.090	$0.155^{+0.071}_{-0.084}$	β_5^1	-0.09	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.223	$2.55^{+0.37}_{-0.39}$
N_{eff}	3.61	$3.81^{+0.55}_{-0.53}$	β_1^2	-0.16	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1484	$0.1496^{+0.0097}_{-0.0094}$
n_s	0.9831	$1.001^{+0.026}_{-0.026}$	β_2^2	0.16	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.1071	$0.112^{+0.012}_{-0.011}$
$\log[10^{10} A_s]$	3.101	$3.23^{+0.14}_{-0.16}$	β_3^2	0.07	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.2553	$0.2578^{+0.0066}_{-0.0067}$
A_{100}^{PS}	189	155^{+100}_{-100}	β_4^2	0.06	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8554	$1.860^{+0.039}_{-0.039}$
A_{143}^{PS}	45	55^{+30}_{-30}	β_5^2	-0.20	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.244	$13.03^{+0.48}_{-0.47}$
A_{217}^{PS}	114.8	120^{+30}_{-30}	β_1^3	0.00	$0.0^{+1.9}_{-1.9}$	z_*	1090.82	$1090.6^{+1.4}_{-1.3}$
A_{143}^{CIB}	14.4	—	β_2^3	-0.03	$-0.1^{+2.0}_{-2.0}$	r_*	140.29	$139.0^{+4.6}_{-4.4}$
A_{217}^{CIB}	29.0	22^{+10}_{-10}	β_3^3	0.12	$0.0^{+1.9}_{-2.0}$	θ_*	1.04060	$1.0405^{+0.0016}_{-0.0016}$
A_{143}^{tSZ}	8.22	—	β_4^3	-0.13	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1061.19	$1062.3^{+2.0}_{-2.0}$
$r_{PS143/217}$	0.760	> 0.675	β_5^3	-0.08	$-0.1^{+2.0}_{-2.0}$	r_{drag}	142.86	$141.4^{+4.8}_{-4.6}$
r_{CIB}	0.719	—	β_1^4	-0.20	$-0.1^{+1.9}_{-1.9}$	k_D	0.14333	$0.1446^{+0.0037}_{-0.0036}$
n^{CIB}	0.189	$0.25^{+0.26}_{-0.30}$	β_2^4	0.16	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16258	$0.1627^{+0.0013}_{-0.0013}$
$c_{100/143}$	1.00059	$1.00062^{+0.00080}_{-0.00079}$	β_3^4	0.03	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3280	3226^{+130}_{-120}
$c_{217/143}$	0.99694	$0.9966^{+0.0025}_{-0.0025}$	β_4^4	0.14	$0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8367	$0.849^{+0.027}_{-0.027}$
$\xi^{tSZ-CIB}$	0.08	—	β_5^4	-0.01	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07312	$0.0741^{+0.0022}_{-0.0021}$
A^{kSZ}	0.1	—	Ω_Λ	0.7153	$0.731^{+0.030}_{-0.033}$	$H(0.57)$	0.0003247	$0.000331^{+0.000014}_{-0.000013}$
β_1^1	0.21	$0.5^{+1.7}_{-1.7}$	Ω_m	0.2847	$0.269^{+0.033}_{-0.030}$	$DA(0.57)$	1313	1279^{+65}_{-62}

Best-fit $\chi_{\text{eff}}^2 = 7788.65$; R-1 = 0.03402

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.12 CAMspec.v6.2TN_2013_01_18.clik: 7798.31 Hubble - HST: 0.46

7.8 base_nnu_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02233	$0.0239^{+0.0012}_{-0.0013}$	β_2^1	-0.12	$0.1^{+1.9}_{-1.9}$	σ_8	0.827	$0.98^{+0.10}_{-0.11}$
$\Omega_c h^2$	0.1181	$0.131^{+0.012}_{-0.012}$	β_3^1	-0.29	$0.0^{+1.9}_{-2.0}$	z_{re}	11.7	21^{+5}_{-7}
θ	1.04152	$1.0407^{+0.0014}_{-0.0014}$	β_4^1	-0.15	$0.0^{+2.0}_{-1.9}$	H_0	69.3	84^{+10}_{-10}
τ	0.098	$0.227^{+0.087}_{-0.11}$	β_5^1	0.09	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$2.96^{+0.55}_{-0.61}$
N_{eff}	3.14	$4.68^{+1.1}_{-1.2}$	β_1^2	0.29	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^2$	0.1410	$0.156^{+0.012}_{-0.013}$
n_s	0.971	$1.047^{+0.049}_{-0.058}$	β_2^2	-0.02	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0977	$0.130^{+0.025}_{-0.025}$
$\log[10^{10} A_s]$	3.101	$3.38^{+0.18}_{-0.22}$	β_3^2	-0.26	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.2490	$0.268^{+0.012}_{-0.014}$
A_{100}^{PS}	173	159^{+100}_{-100}	β_4^2	0.44	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8268	$1.872^{+0.037}_{-0.040}$
A_{143}^{PS}	49.8	57^{+30}_{-30}	β_5^2	0.09	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.68	$12.2^{+1.0}_{-0.85}$
A_{217}^{PS}	116.8	120^{+30}_{-30}	β_1^3	-0.39	$0.0^{+1.9}_{-1.8}$	z_*	1089.99	$1090.5^{+1.3}_{-1.3}$
A_{143}^{CIB}	13.4	—	β_2^3	-0.02	$-0.1^{+2.0}_{-2.0}$	r_*	144.5	$133.6^{+8.1}_{-6.9}$
A_{217}^{CIB}	24.6	23^{+10}_{-10}	β_3^3	-0.12	$0.0^{+1.9}_{-2.0}$	θ_*	1.04160	$1.0398^{+0.0018}_{-0.0017}$
A_{143}^{tSZ}	4.70	—	β_4^3	-0.01	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1059.86	$1065.5^{+3.8}_{-4.3}$
$r_{PS143/217}$	0.856	> 0.676	β_5^3	-0.20	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.2	$135.6^{+8.5}_{-7.2}$
r_{CIB}	0.480	—	β_1^4	0.03	$-0.1^{+1.9}_{-1.9}$	k_D	0.1403	$0.1491^{+0.0061}_{-0.0067}$
n^{CIB}	0.339	$0.25^{+0.26}_{-0.29}$	β_2^4	-0.20	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16143	$0.1641^{+0.0020}_{-0.0021}$
$c_{100/143}$	1.00057	$1.00062^{+0.00078}_{-0.00078}$	β_3^4	-0.09	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3314	3046^{+230}_{-190}
$c_{217/143}$	0.99620	$0.9966^{+0.0026}_{-0.0025}$	β_4^4	0.11	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.830	$0.890^{+0.047}_{-0.052}$
$\xi^{tSZ-CIB}$	0.55	—	β_5^4	0.47	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07264	$0.0776^{+0.0040}_{-0.0043}$
A^{kSZ}	1.75	—	Ω_Λ	0.7062	$0.774^{+0.041}_{-0.056}$	$H(0.57)$	0.0003138	$0.000357^{+0.000031}_{-0.000033}$
β_1^1	0.35	$0.5^{+1.7}_{-1.7}$	Ω_m	0.2938	$0.226^{+0.056}_{-0.041}$	$DA(0.57)$	1363	1167^{+100}_{-100}

Best-fit $\chi_{\text{eff}}^2 = 8218.99$; R-1 = 0.01048

χ_{eff}^2 : CMB - commander.v3.light.clik: -8.77 CAMspec.v6.2TN_2013_01_18.clik: 7799.72 SN - SNLS April_2012: 428.05

7.9 base_nnu_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02231	$0.0235^{+0.0014}_{-0.0013}$	β_2^1	-0.01	$0.1^{+1.9}_{-1.9}$	σ_8	0.838	$0.94^{+0.12}_{-0.11}$
$\Omega_c h^2$	0.1238	$0.129^{+0.012}_{-0.012}$	β_3^1	-0.04	$0.0^{+1.9}_{-1.9}$	z_{re}	11.2	$18.7^{+6.5}_{-8.6}$
θ	1.04090	$1.0408^{+0.0014}_{-0.0014}$	β_4^1	-0.04	$0.0^{+2.0}_{-1.9}$	H_0	70.1	80^{+10}_{-10}
τ	0.090	$0.19^{+0.10}_{-0.12}$	β_5^1	0.02	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$2.78^{+0.64}_{-0.61}$
N_{eff}	3.40	$4.31^{+1.3}_{-1.1}$	β_1^2	0.14	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1467	$0.153^{+0.013}_{-0.012}$
n_s	0.974	$1.026^{+0.062}_{-0.057}$	β_2^2	-0.14	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1029	$0.122^{+0.029}_{-0.023}$
$\log[10^{10} A_s]$	3.098	$3.32^{+0.21}_{-0.24}$	β_3^2	0.04	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.2525	$0.264^{+0.014}_{-0.014}$
A_{100}^{PS}	186	158^{+100}_{-100}	β_4^2	0.05	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8510	$1.868^{+0.039}_{-0.044}$
A_{143}^{PS}	54.1	56^{+30}_{-30}	β_5^2	-0.03	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.46	$12.6^{+1.0}_{-1.1}$
A_{217}^{PS}	118.3	120^{+30}_{-30}	β_1^3	0.03	$0.0^{+1.9}_{-1.8}$	z_*	1090.77	$1090.6^{+1.3}_{-1.3}$
A_{143}^{CIB}	12.6	—	β_2^3	-0.04	$-0.1^{+2.0}_{-2.0}$	r_*	141.8	$135.8^{+8.0}_{-8.0}$
A_{217}^{CIB}	25.5	23^{+10}_{-10}	β_3^3	0.01	$0.0^{+1.9}_{-2.0}$	θ_*	1.04080	$1.0400^{+0.0019}_{-0.0018}$
A_{143}^{tSZ}	5.75	—	β_4^3	0.07	$-0.1^{+1.9}_{-1.9}$	z_{drag}	1060.43	$1064.1^{+4.5}_{-4.3}$
$r_{PS143/217}$	0.783	> 0.676	β_5^3	-0.25	$-0.1^{+2.0}_{-2.0}$	r_{drag}	144.4	$138.0^{+8.5}_{-8.5}$
r_{CIB}	0.612	—	β_1^4	0.13	$-0.1^{+1.9}_{-1.9}$	k_D	0.1422	$0.1472^{+0.0070}_{-0.0065}$
n^{CIB}	0.226	$0.25^{+0.26}_{-0.30}$	β_2^4	0.02	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16217	$0.1635^{+0.0022}_{-0.0021}$
$c_{100/143}$	1.00059	$1.00062^{+0.00078}_{-0.00078}$	β_3^4	-0.14	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3330	3129^{+240}_{-240}
$c_{217/143}$	0.99663	$0.9966^{+0.0026}_{-0.0025}$	β_4^4	-0.14	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.827	$0.871^{+0.057}_{-0.052}$
$\xi^{tSZ-CIB}$	0.37	—	β_5^4	0.11	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07232	$0.0760^{+0.0048}_{-0.0042}$
A^{kSZ}	1.90	—	Ω_Λ	0.702	$0.754^{+0.054}_{-0.063}$	$H(0.57)$	0.0003188	$0.000346^{+0.000037}_{-0.000031}$
β_1^1	0.43	$0.5^{+1.7}_{-1.7}$	Ω_m	0.298	$0.246^{+0.063}_{-0.054}$	$DA(0.57)$	1344	1217^{+100}_{-100}

Best-fit $\chi_{\text{eff}}^2 = 7918.56$; R-1 = 0.01320

χ_{eff}^2 : CMB - commander.v3.light.clik: -9.11 CAMspec.v6.2TN_2013_01_18.clik: 7797.55 SN - Union2.1: 130.12

7.10 base_nnu_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02212	$0.02244^{+0.00085}_{-0.00080}$	β_3^2	0.05	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9839	$0.980^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.1191	$0.1248^{+0.0099}_{-0.0094}$	β_4^2	0.33	$0.3^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9849	$0.984^{+0.020}_{-0.019}$
θ	1.04134	$1.0409^{+0.0014}_{-0.0014}$	β_5^2	-0.48	$-0.4^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0129	$1.018^{+0.048}_{-0.044}$
τ	0.0961	$0.097^{+0.032}_{-0.028}$	β_1^3	0.53	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6928	$0.704^{+0.041}_{-0.044}$
N_{eff}	3.08	$3.49^{+0.74}_{-0.67}$	β_2^3	-0.70	$-0.5^{+1.9}_{-1.9}$	Ω_m	0.3072	$0.296^{+0.044}_{-0.041}$
n_s	0.9623	$0.977^{+0.034}_{-0.032}$	β_3^3	-0.11	$0.2^{+2.0}_{-2.0}$	σ_8	0.8300	$0.846^{+0.043}_{-0.038}$
$\log[10^{10} A_s]$	3.100	$3.114^{+0.072}_{-0.064}$	β_4^3	-0.38	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.63	$11.7^{+2.6}_{-2.4}$
A_{100}^{PS}	173	193^{+80}_{-80}	β_5^3	-0.15	$-0.3^{+2.0}_{-2.0}$	H_0	68.0	$70.8^{+6.5}_{-5.8}$
A_{143}^{PS}	76.7	81^{+20}_{-20}	β_1^4	-0.37	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.219	$2.25^{+0.17}_{-0.14}$
A_{217}^{PS}	65.2	68^{+20}_{-20}	β_2^4	-0.22	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1419	$0.148^{+0.010}_{-0.0098}$
A_{143}^{CIB}	3.12	—	β_3^4	-0.24	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0964	$0.105^{+0.016}_{-0.014}$
A_{217}^{CIB}	47.7	44^{+9}_{-9}	β_4^4	0.00	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.2481	$0.2535^{+0.0093}_{-0.0091}$
A_{143}^{tSZ}	5.12	—	β_5^4	0.39	$0.3^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8310	$1.856^{+0.043}_{-0.045}$
$r_{PS143/217}$	0.828	> 0.722	$A_{\text{PS,ACT}}^{148}$	10.41	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.77	$13.38^{+0.69}_{-0.70}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.1	$81.1^{+7.8}_{-7.8}$	z_*	1090.29	$1090.8^{+1.2}_{-1.2}$
n^{CIB}	0.521	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.02	$7.39^{+3.1}_{-2.6}$	r_*	144.7	$141.1^{+5.9}_{-5.8}$
$c_{100/143}$	1.00062	$1.00063^{+0.00078}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	9.99	$10.2^{+1.0}_{-0.96}$	θ_*	1.04148	$1.0407^{+0.0017}_{-0.0017}$
$c_{217/143}$	0.99939	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.1	$77.5^{+8.1}_{-7.8}$	z_{drag}	1059.40	$1060.8^{+2.9}_{-2.7}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.793	> 0.666	r_{drag}	147.4	$143.7^{+6.1}_{-6.1}$
A^{kSZ}	1.46	—	$r_{\text{PS}}^{95/220}$	0.549	$0.57^{+0.25}_{-0.22}$	k_D	0.14009	$0.1428^{+0.0047}_{-0.0045}$
β_1^1	0.61	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9157	> 0.905	θ_D	0.16143	$0.1623^{+0.0015}_{-0.0014}$
β_2^1	0.02	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.447	< 0.756	z_{EQ}	3361	3323^{+160}_{-150}
β_3^1	0.17	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.852	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8204	$0.829^{+0.032}_{-0.030}$
β_4^1	0.11	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9910	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07188	$0.0725^{+0.0025}_{-0.0024}$
β_5^1	0.24	$0.0^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0000	$1.003^{+0.026}_{-0.026}$	$H(0.57)$	0.0003110	$0.000321^{+0.000020}_{-0.000018}$
β_1^2	-0.95	$-1.14^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9874	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1382	1334^{+95}_{-96}
β_2^2	-0.30	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9590	$0.961^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10520.10$; $R-1 = 0.01225$

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.63 commander.v3.light.clik: -7.01 CAMspec.v6.2TN_2013_01_18.clik: 7817.95 actspt_2013_01.clik: 694.40

7.11 base_nnu_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02223	$0.02236^{+0.00083}_{-0.00076}$	β_3^2	0.08	$0.0^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9820	$0.981^{+0.040}_{-0.036}$
$\Omega_c h^2$	0.1217	$0.1239^{+0.0093}_{-0.0089}$	β_4^2	0.15	$0.3^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9846	$0.985^{+0.020}_{-0.019}$
θ	1.04112	$1.0410^{+0.0014}_{-0.0014}$	β_5^2	-0.46	$-0.4^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0177	$1.019^{+0.048}_{-0.043}$
τ	0.0941	$0.097^{+0.032}_{-0.027}$	β_1^3	0.96	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6929	$0.698^{+0.038}_{-0.039}$
N_{eff}	3.21	$3.38^{+0.73}_{-0.64}$	β_2^3	-0.46	$-0.5^{+2.0}_{-1.9}$	Ω_m	0.3071	$0.302^{+0.039}_{-0.038}$
n_s	0.9663	$0.972^{+0.033}_{-0.030}$	β_3^3	0.09	$0.2^{+1.9}_{-2.0}$	σ_8	0.0696	$0.845^{+0.039}_{-0.035}$
$\log[10^{10} A_s]$	3.103	$3.114^{+0.070}_{-0.061}$	β_4^3	-0.30	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.50	$11.8^{+2.5}_{-2.4}$
A_{100}^{PS}	181	192^{+80}_{-80}	β_5^3	-0.32	$-0.3^{+2.0}_{-2.0}$	H_0	68.6	$69.9^{+6.1}_{-5.4}$
A_{143}^{PS}	77.7	79^{+20}_{-20}	β_1^4	-0.11	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.226	$2.25^{+0.16}_{-0.14}$
A_{217}^{PS}	66.1	67^{+20}_{-20}	β_2^4	-0.14	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1446	$0.1469^{+0.0098}_{-0.0093}$
A_{143}^{CIB}	2.74	—	β_3^4	-0.18	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0992	$0.103^{+0.015}_{-0.013}$
A_{217}^{CIB}	46.2	44^{+9}_{-9}	β_4^4	0.05	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.2500	$0.2521^{+0.0092}_{-0.0088}$
A_{143}^{tSZ}	4.12	—	β_5^4	0.27	$0.3^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8443	$1.852^{+0.041}_{-0.043}$
$r_{PS143/217}$	0.813	> 0.720	$A_{\text{PS,ACT}}^{148}$	10.55	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.64	$13.48^{+0.66}_{-0.69}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.0	$81.1^{+7.8}_{-7.9}$	z_*	1090.51	$1090.7^{+1.1}_{-1.1}$
n^{CIB}	0.504	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.52	$7.45^{+3.1}_{-2.7}$	r_*	143.3	$141.9^{+5.7}_{-5.7}$
$c_{100/143}$	1.00063	$1.00062^{+0.00077}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.20	$10.2^{+1.0}_{-0.96}$	θ_*	1.04115	$1.0409^{+0.0017}_{-0.0017}$
$c_{217/143}$	0.99929	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.2	$77.6^{+8.3}_{-7.9}$	z_{drag}	1059.97	$1060.5^{+2.8}_{-2.6}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.765	> 0.665	r_{drag}	146.0	$144.5^{+6.0}_{-6.0}$
A^{kSZ}	2.30	—	$r_{\text{PS}}^{95/220}$	0.505	$0.57^{+0.25}_{-0.22}$	k_D	0.14122	$0.1423^{+0.0046}_{-0.0043}$
β_1^1	0.72	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9130	> 0.904	θ_D	0.16166	$0.1620^{+0.0015}_{-0.0014}$
β_2^1	-0.04	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.419	< 0.757	z_{EQ}	3365	3345^{+130}_{-140}
β_3^1	0.13	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.861	$0.85^{+0.38}_{-0.39}$	θ_{EQ}	0.8198	$0.824^{+0.029}_{-0.026}$
β_4^1	-0.17	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9914	$0.991^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07184	$0.0722^{+0.0023}_{-0.0020}$
β_5^1	0.04	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0014	$1.003^{+0.027}_{-0.026}$	$H(0.57)$	0.0003140	$0.000318^{+0.000019}_{-0.000016}$
β_1^2	-0.97	$-1.13^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9874	$0.987^{+0.014}_{-0.014}$	$DA(0.57)$	1369	1349^{+90}_{-93}
β_2^2	-0.33	$-0.3^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9602	$0.961^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10528.73$; R-1 = 0.01676

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.45 lensing_likelihood_v3.ref.clik.lensing: 11.41 commander_v3.light.clik: -7.60 CAMspec_v6.2TN_2013_01_18.clik: 7817.19 actspt_2013_01.clik: 693.18

7.12 base_nnu_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02251	$0.02266^{+0.00061}_{-0.00060}$	β_3^2	0.11	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9805	$0.978^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1237	$0.1262^{+0.0088}_{-0.0085}$	β_4^2	0.36	$0.3^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9819	$0.983^{+0.020}_{-0.019}$
θ	1.04098	$1.0408^{+0.0014}_{-0.0014}$	β_5^2	-0.24	$-0.4^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0092	$1.017^{+0.048}_{-0.043}$
τ	0.0919	$0.101^{+0.030}_{-0.028}$	β_1^3	0.95	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.7114	$0.717^{+0.027}_{-0.029}$
N_{eff}	3.490	$3.68^{+0.51}_{-0.49}$	β_2^3	-0.56	$-0.5^{+1.9}_{-1.9}$	Ω_m	0.2886	$0.283^{+0.029}_{-0.027}$
n_s	0.9807	$0.987^{+0.021}_{-0.021}$	β_3^3	0.13	$0.2^{+1.9}_{-2.0}$	σ_8	0.8385	$0.852^{+0.038}_{-0.036}$
$\log[10^{10} A_s]$	3.103	$3.126^{+0.064}_{-0.059}$	β_4^3	-0.48	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.31	$12.1^{+2.5}_{-2.4}$
A_{100}^{PS}	182	195^{+80}_{-80}	β_5^3	-0.48	$-0.3^{+2.0}_{-2.0}$	H_0	71.33	$72.7^{+3.9}_{-3.8}$
A_{143}^{PS}	79.2	82^{+20}_{-20}	β_1^4	-0.097	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.227	$2.28^{+0.15}_{-0.13}$
A_{217}^{PS}	68.2	69^{+20}_{-20}	β_2^4	-0.26	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1469	$0.1495^{+0.0091}_{-0.0086}$
A_{143}^{CIB}	2.79	—	β_3^4	-0.01	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.1048	$0.109^{+0.011}_{-0.0099}$
A_{217}^{CIB}	46.3	44^{+9}_{-9}	β_4^4	0.02	$0.2^{+2.0}_{-2.0}$	Y_{He}	0.2537	$0.2561^{+0.0062}_{-0.0063}$
A_{143}^{tSZ}	4.22	—	β_5^4	0.46	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8530	$1.863^{+0.038}_{-0.038}$
$r_{PS143/217}$	0.821	> 0.725	$A_{\text{PS,ACT}}^{148}$	10.37	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.353	$13.18^{+0.45}_{-0.44}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.4	$80.9^{+7.8}_{-8.0}$	z_*	1090.60	$1090.8^{+1.2}_{-1.2}$
n^{CIB}	0.507	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.20	$7.34^{+3.1}_{-2.6}$	r_*	141.24	$139.7^{+4.3}_{-4.3}$
$c_{100/143}$	1.00062	$1.00063^{+0.00076}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	9.92	$10.16^{+0.99}_{-0.95}$	θ_*	1.04081	$1.0405^{+0.0015}_{-0.0015}$
$c_{217/143}$	0.99923	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.3	$77.4^{+8.1}_{-7.7}$	z_{drag}	1060.96	$1061.6^{+1.9}_{-1.9}$
$\xi^{tSZ-CIB}$	0.02	—	$r_{\text{PS}}^{95/150}$	0.768	> 0.668	r_{drag}	143.82	$142.2^{+4.5}_{-4.4}$
A^{kSZ}	3.04	—	$r_{\text{PS}}^{95/220}$	0.518	$0.57^{+0.25}_{-0.22}$	k_D	0.14271	$0.1439^{+0.0035}_{-0.0034}$
β_1^1	0.72	$0.7^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9175	> 0.905	θ_D	0.16222	$0.1626^{+0.0012}_{-0.0012}$
β_2^1	-0.15	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.428	< 0.753	z_{EQ}	3297	3279^{+110}_{-110}
β_3^1	0.11	$0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.849	$0.86^{+0.39}_{-0.38}$	θ_{EQ}	0.8333	$0.837^{+0.022}_{-0.022}$
β_4^1	0.19	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9901	$0.989^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07289	$0.0732^{+0.0018}_{-0.0017}$
β_5^1	-0.02	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{217}$	0.99998	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.0003218	$0.000326^{+0.000012}_{-0.000012}$
β_1^2	-0.98	$-1.16^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9862	$0.986^{+0.014}_{-0.014}$	$DA(0.57)$	1326	1305^{+59}_{-57}
β_2^2	-0.28	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9588	$0.960^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.99$; R-1 = 0.01491

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.15 commander.v3.light.clik: -9.82 CAMspec.v6.2TN_2013_01_18.clik: 7818.50 actspt_2013_01.clik: 696.01 Hubble - HST: 1.07

7.13 base_nnu_planck_CAMspec_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02227	$0.02267^{+0.00080}_{-0.00077}$	β_3^2	0.03	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9873	$0.979^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1181	$0.1253^{+0.0097}_{-0.0096}$	β_4^2	0.58	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9850	$0.983^{+0.020}_{-0.019}$
θ	1.04146	$1.0409^{+0.0014}_{-0.0014}$	β_5^2	-0.28	$-0.4^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0129	$1.018^{+0.048}_{-0.043}$
τ	0.0977	$0.102^{+0.032}_{-0.029}$	β_1^3	0.65	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.7047	$0.719^{+0.036}_{-0.038}$
N_{eff}	3.13	$3.66^{+0.74}_{-0.67}$	β_2^3	-0.63	$-0.5^{+2.0}_{-1.9}$	Ω_m	0.2953	$0.281^{+0.038}_{-0.036}$
n_s	0.9691	$0.987^{+0.032}_{-0.030}$	β_3^3	0.23	$0.2^{+1.9}_{-1.9}$	σ_8	0.8269	$0.850^{+0.043}_{-0.039}$
$\log[10^{10} A_s]$	3.101	$3.126^{+0.073}_{-0.065}$	β_4^3	-0.35	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.69	$12.1^{+2.7}_{-2.5}$
A_{100}^{PS}	177	195^{+80}_{-80}	β_5^3	-0.45	$-0.3^{+2.0}_{-2.0}$	H_0	69.1	$72.8^{+6.1}_{-5.6}$
A_{143}^{PS}	76.2	81^{+20}_{-20}	β_1^4	-0.14	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.221	$2.28^{+0.17}_{-0.15}$
A_{217}^{PS}	63.6	69^{+20}_{-20}	β_2^4	-0.26	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1410	$0.149^{+0.010}_{-0.0099}$
A_{143}^{CIB}	3.21	—	β_3^4	0.01	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0975	$0.108^{+0.016}_{-0.014}$
A_{217}^{CIB}	48.5	44^{+9}_{-9}	β_4^4	0.10	$0.2^{+2.0}_{-2.0}$	Y_{He}	0.2489	$0.2557^{+0.0091}_{-0.0088}$
A_{143}^{tSZ}	5.26	—	β_5^4	0.67	$0.3^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8270	$1.858^{+0.041}_{-0.044}$
$r_{PS143/217}$	0.833	> 0.724	$A_{\text{PS,ACT}}^{148}$	10.42	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.70	$13.20^{+0.66}_{-0.66}$
r_{CIB}	0.9998	—	$A_{\text{PS,ACT}}^{218}$	80.0	$81.0^{+7.8}_{-8.0}$	z_*	1090.06	$1090.7^{+1.2}_{-1.2}$
n^{CIB}	0.532	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	6.88	$7.35^{+3.1}_{-2.6}$	r_*	144.6	$140.1^{+5.7}_{-5.6}$
$c_{100/143}$	1.00067	$1.00063^{+0.00077}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.03	$10.2^{+1.0}_{-0.96}$	θ_*	1.04155	$1.0406^{+0.0017}_{-0.0017}$
$c_{217/143}$	0.99944	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.5	$77.4^{+8.2}_{-7.7}$	z_{drag}	1059.70	$1061.5^{+2.7}_{-2.6}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.806	> 0.668	r_{drag}	147.3	$142.6^{+6.0}_{-5.9}$
A^{kSZ}	1.21	—	$r_{\text{PS}}^{95/220}$	0.562	$0.57^{+0.25}_{-0.22}$	k_D	0.14018	$0.1437^{+0.0047}_{-0.0045}$
β_1^1	0.79	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9155	> 0.905	θ_D	0.16147	$0.1625^{+0.0015}_{-0.0014}$
β_2^1	-0.14	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.393	< 0.754	z_{EQ}	3317	3269^{+140}_{-140}
β_3^1	0.09	$0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.869	$0.86^{+0.39}_{-0.37}$	θ_{EQ}	0.8290	$0.840^{+0.030}_{-0.028}$
β_4^1	0.05	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9920	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07256	$0.0734^{+0.0024}_{-0.0022}$
β_5^1	-0.07	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0014	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.0003134	$0.000326^{+0.000019}_{-0.000017}$
β_1^2	-0.78	$-1.16^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9881	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1366	1305^{+89}_{-88}
β_2^2	-0.22	$-0.3^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9603	$0.960^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10948.99$; R-1 = 0.01424

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.57 commander.v3.light.clik: -8.34 CAMspec.v6.2TN_2013_01_18.clik: 7820.07 actspt_2013_01.clik: 694.41 SN - SNLS April.2012: 428.16

7.14 base_nnu_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02227	$0.02249^{+0.00083}_{-0.00076}$	β_3^2	-0.07	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9815	$0.979^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1216	$0.1248^{+0.0097}_{-0.0094}$	β_4^2	0.30	$0.3^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9827	$0.984^{+0.020}_{-0.019}$
θ	1.04115	$1.0409^{+0.0014}_{-0.0014}$	β_5^2	-0.41	$-0.4^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0123	$1.018^{+0.048}_{-0.043}$
τ	0.0943	$0.098^{+0.032}_{-0.028}$	β_1^3	0.84	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6975	$0.708^{+0.037}_{-0.040}$
N_{eff}	3.25	$3.52^{+0.72}_{-0.65}$	β_2^3	-0.39	$-0.5^{+1.9}_{-1.9}$	Ω_m	0.3025	$0.292^{+0.040}_{-0.037}$
n_s	0.9685	$0.979^{+0.033}_{-0.030}$	β_3^3	0.37	$0.2^{+1.9}_{-2.0}$	σ_8	0.8356	$0.846^{+0.042}_{-0.038}$
$\log[10^{10} A_s]$	3.103	$3.116^{+0.071}_{-0.063}$	β_4^3	-0.68	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.51	$11.8^{+2.6}_{-2.4}$
A_{100}^{PS}	182	193^{+80}_{-80}	β_5^3	-0.45	$-0.3^{+2.0}_{-2.0}$	H_0	69.1	$71.3^{+6.1}_{-5.5}$
A_{143}^{PS}	77.4	81^{+20}_{-20}	β_1^4	-0.14	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.225	$2.26^{+0.16}_{-0.14}$
A_{217}^{PS}	65.3	68^{+20}_{-20}	β_2^4	-0.25	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1445	$0.148^{+0.010}_{-0.0098}$
A_{143}^{CIB}	2.89	—	β_3^4	-0.27	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0999	$0.106^{+0.015}_{-0.013}$
A_{217}^{CIB}	47.2	44^{+9}_{-9}	β_4^4	0.25	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.2504	$0.2540^{+0.0090}_{-0.0087}$
A_{143}^{tSZ}	4.42	—	β_5^4	0.38	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8428	$1.856^{+0.042}_{-0.044}$
$r_{PS143/217}$	0.828	> 0.723	$A_{\text{PS,ACT}}^{148}$	10.36	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.60	$13.34^{+0.66}_{-0.67}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.3	$81.0^{+7.8}_{-7.9}$	z_*	1090.48	$1090.7^{+1.2}_{-1.1}$
n^{CIB}	0.516	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.07	$7.37^{+3.1}_{-2.7}$	r_*	143.1	$140.9^{+5.7}_{-5.7}$
$c_{100/143}$	1.00066	$1.00063^{+0.00076}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.00	$10.2^{+1.0}_{-0.96}$	θ_*	1.04116	$1.0407^{+0.0017}_{-0.0017}$
$c_{217/143}$	0.99933	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.8	$77.5^{+8.2}_{-7.8}$	z_{drag}	1060.05	$1061.0^{+2.8}_{-2.6}$
$\xi^{tSZ-CIB}$	0.02	—	$r_{\text{PS}}^{95/150}$	0.780	> 0.667	r_{drag}	145.8	$143.5^{+5.9}_{-6.0}$
A^{kSZ}	2.67	—	$r_{\text{PS}}^{95/220}$	0.537	$0.57^{+0.25}_{-0.22}$	k_D	0.14130	$0.1430^{+0.0046}_{-0.0044}$
β_1^1	0.72	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9191	> 0.905	θ_D	0.16175	$0.1623^{+0.0015}_{-0.0014}$
β_2^1	-0.35	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.425	< 0.755	z_{EQ}	3348	3310^{+140}_{-140}
β_3^1	0.04	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.831	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8232	$0.831^{+0.030}_{-0.028}$
β_4^1	0.11	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9906	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07210	$0.0727^{+0.0024}_{-0.0022}$
β_5^1	-0.22	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0019	$1.003^{+0.027}_{-0.026}$	$H(0.57)$	0.0003151	$0.000322^{+0.000019}_{-0.000017}$
β_1^2	-0.96	$-1.15^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9865	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1362	1328^{+90}_{-90}
β_2^2	-0.47	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9599	$0.961^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10648.99$; R-1 = 0.01257

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.40 commander.v3.light.clik: -8.04 CAMspec.v6.2TN_2013_01_18.clik: 7817.99 actspt_2013_01.clik: 694.39 SN - Union2.1: 130.21

7.15 base_nnu_WMAP

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02268^{+0.00097}_{-0.00096}$	z_{re}	$11.4^{+3.4}_{-2.8}$	z_{drag}	$1063.1^{+8.7}_{-7.1}$
$\Omega_c h^2$	$0.141^{+0.086}_{-0.056}$	H_0	76^{+20}_{-10}	r_{drag}	138^{+30}_{-30}
θ	$1.037^{+0.014}_{-0.0091}$	$10^9 A_s$	$2.30^{+0.31}_{-0.32}$	k_D	$0.148^{+0.025}_{-0.021}$
τ	$0.089^{+0.028}_{-0.026}$	$\Omega_m h^2$	$0.164^{+0.086}_{-0.056}$	θ_D	$0.164^{+0.010}_{-0.0084}$
N_{eff}	$4.58^{+4.6}_{-3.3}$	$\Omega_m h^3$	$0.127^{+0.10}_{-0.060}$	z_{EQ}	3247^{+240}_{-230}
n_s	$0.990^{+0.052}_{-0.055}$	Y_{He}	$0.264^{+0.043}_{-0.043}$	θ_{EQ}	$0.842^{+0.045}_{-0.043}$
$\log[10^{10} A_s]$	$3.13^{+0.13}_{-0.15}$	$10^9 A_s e^{-2\tau}$	$1.93^{+0.24}_{-0.25}$	$r_s/D_v(0.57)$	$0.0729^{+0.0035}_{-0.0034}$
A_{SZ}	—	Age/Gyr	$12.8^{+2.7}_{-2.5}$	$H(0.57)$	$0.000340^{+0.000078}_{-0.000063}$
Ω_Λ	$0.715^{+0.048}_{-0.056}$	z_*	$1093^{+10}_{-8.1}$	$DA(0.57)$	1269^{+300}_{-200}
Ω_m	$0.285^{+0.056}_{-0.048}$	r_*	135^{+30}_{-30}		
σ_8	$0.87^{+0.17}_{-0.16}$	θ_*	$1.036^{+0.016}_{-0.011}$		

; R-1 =0.01851

7.16 base_nnu_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02246	$0.02250^{+0.00083}_{-0.00082}$	z_{re}	10.77	$10.7^{+2.5}_{-2.3}$	z_{drag}	1060.09	$1060.4^{+4.1}_{-3.6}$
$\Omega_c h^2$	0.1171	$0.119^{+0.032}_{-0.025}$	H_0	68.7	69^{+8}_{-7}	r_{drag}	147.4	147^{+15}_{-16}
θ	1.0393	$1.0393^{+0.0079}_{-0.0070}$	$10^9 A_s$	2.224	$2.22^{+0.20}_{-0.19}$	k_D	0.1402	$0.141^{+0.011}_{-0.0098}$
τ	0.0880	$0.087^{+0.027}_{-0.024}$	$\Omega_m h^2$	0.1402	$0.142^{+0.032}_{-0.025}$	θ_D	0.16083	$0.1610^{+0.0048}_{-0.0041}$
N_{eff}	3.11	$3.23^{+1.9}_{-1.5}$	$\Omega_m h^3$	0.0963	$0.099^{+0.035}_{-0.025}$	z_{EQ}	3306	3308^{+140}_{-140}
n_s	0.9710	$0.970^{+0.031}_{-0.030}$	Y_{He}	0.2487	$0.250^{+0.022}_{-0.021}$	θ_{EQ}	0.8299	$0.830^{+0.023}_{-0.022}$
$\log[10^{10} A_s]$	3.102	$3.098^{+0.087}_{-0.087}$	$10^9 A_s e^{-2\tau}$	1.865	$1.86^{+0.13}_{-0.13}$	$r_s/D_v(0.57)$	0.07225	$0.0723^{+0.0014}_{-0.0014}$
A_{SZ}	0.00	—	Age/Gyr	13.76	$13.7^{+1.4}_{-1.4}$	$H(0.57)$	0.0003119	$0.000314^{+0.000035}_{-0.000029}$
Ω_Λ	0.7027	$0.703^{+0.022}_{-0.024}$	z_*	1089.71	$1089.9^{+4.6}_{-3.9}$	$DA(0.57)$	1373	1368^{+140}_{-140}
Ω_m	0.2973	$0.297^{+0.024}_{-0.022}$	r_*	144.8	144^{+15}_{-15}			
σ_8	0.822	$0.822^{+0.088}_{-0.079}$	θ_*	1.0394	$1.0393^{+0.0088}_{-0.0079}$			

Best-fit $\chi^2_{eff} = 7559.30$; R-1 =0.01775

χ^2_{eff} : BAO - 6DF: 0.09 DR7: 0.36 DR9: 0.83 CMB - WMAP: 7558.01

7.17 base_nnu_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02284	$0.02265^{+0.00094}_{-0.00091}$	z_{re}	10.75	$11.1^{+2.4}_{-2.3}$	z_{drag}	1060.92	$1062.1^{+3.2}_{-3.1}$
$\Omega_c h^2$	0.1146	$0.131^{+0.035}_{-0.028}$	H_0	72.45	$73.8^{+4.6}_{-4.5}$	r_{drag}	146.7	140^{+13}_{-13}
θ	1.0398	$1.0372^{+0.0072}_{-0.0065}$	$10^9 A_s$	2.200	$2.28^{+0.18}_{-0.17}$	k_D	0.1405	$0.1454^{+0.0099}_{-0.0094}$
τ	0.0895	$0.089^{+0.028}_{-0.025}$	$\Omega_m h^2$	0.1380	$0.154^{+0.034}_{-0.028}$	θ_D	0.16122	$0.1631^{+0.0040}_{-0.0037}$
N_{eff}	3.31	$4.03^{+1.5}_{-1.4}$	$\Omega_m h^3$	0.1000	$0.114^{+0.030}_{-0.025}$	z_{EQ}	3172	3233^{+200}_{-180}
n_s	0.9816	$0.986^{+0.023}_{-0.023}$	Y_{He}	0.2515	$0.260^{+0.017}_{-0.017}$	θ_{EQ}	0.8578	$0.844^{+0.039}_{-0.038}$
$\log[10^{10} A_s]$	3.091	$3.126^{+0.079}_{-0.075}$	$10^9 A_s e^{-2\tau}$	1.840	$1.91^{+0.13}_{-0.13}$	$r_s/D_v(0.57)$	0.07448	$0.0731^{+0.0034}_{-0.0034}$
A_{sz}	1.99	—	Age/Gyr	13.49	$13.01^{+0.98}_{-0.95}$	$H(0.57)$	0.0003202	$0.000331^{+0.000024}_{-0.000022}$
Ω_Λ	0.7370	$0.717^{+0.044}_{-0.054}$	z_*	1089.21	$1091.5^{+4.8}_{-4.2}$	$DA(0.57)$	1319	1287^{+83}_{-79}
Ω_m	0.2630	$0.283^{+0.054}_{-0.044}$	r_*	144.2	138^{+13}_{-13}			
σ_8	0.804	$0.850^{+0.089}_{-0.087}$	θ_*	1.0398	$1.0367^{+0.0079}_{-0.0072}$			

Best-fit $\chi_{eff}^2 = 7558.89$; R-1 = 0.00923

χ_{eff}^2 : CMB - WMAP: 7558.54 Hubble - HST: 0.35

7.18 base_nnu_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02267	$0.02283^{+0.00095}_{-0.00095}$	z_{re}	10.68	$11.5^{+3.3}_{-2.9}$	z_{drag}	1060.8	$1063.1^{+8.4}_{-6.8}$
$\Omega_c h^2$	0.118	$0.136^{+0.081}_{-0.052}$	H_0	72.2	77^{+20}_{-10}	r_{drag}	145.6	139^{+30}_{-30}
θ	1.0390	$1.038^{+0.013}_{-0.0089}$	$10^9 A_s$	2.215	$2.29^{+0.30}_{-0.31}$	k_D	0.1412	$0.147^{+0.024}_{-0.019}$
τ	0.0871	$0.091^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.141	$0.160^{+0.081}_{-0.052}$	θ_D	0.1616	$0.164^{+0.010}_{-0.0080}$
N_{eff}	3.41	$4.52^{+4.4}_{-3.2}$	$\Omega_m h^3$	0.102	$0.126^{+0.098}_{-0.058}$	z_{EQ}	3192	3182^{+210}_{-200}
n_s	0.982	$0.995^{+0.050}_{-0.053}$	Y_{He}	0.2528	$0.263^{+0.042}_{-0.041}$	θ_{EQ}	0.8526	$0.855^{+0.041}_{-0.038}$
$\log[10^{10} A_s]$	3.098	$3.13^{+0.12}_{-0.14}$	$10^9 A_s e^{-2\tau}$	1.861	$1.91^{+0.22}_{-0.23}$	$r_s/D_v(0.57)$	0.07392	$0.0740^{+0.0031}_{-0.0029}$
A_{sz}	0.03	—	Age/Gyr	13.44	$12.8^{+2.6}_{-2.4}$	$H(0.57)$	0.000321	$0.000341^{+0.000075}_{-0.000060}$
Ω_Λ	0.7295	$0.732^{+0.040}_{-0.043}$	z_*	1089.8	$1092.0^{+9.9}_{-7.5}$	$DA(0.57)$	1321	1254^{+300}_{-200}
Ω_m	0.2705	$0.268^{+0.043}_{-0.040}$	r_*	143.0	136^{+30}_{-30}			
σ_8	0.815	$0.86^{+0.17}_{-0.15}$	θ_*	1.0389	$1.037^{+0.015}_{-0.011}$			

Best-fit $\chi_{eff}^2 = 7984.78$; R-1 = 0.01516

χ_{eff}^2 : CMB - WMAP: 7558.24 SN - SNLS April_2012: 426.54

7.19 base_nnu_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02262	$0.02270^{+0.00094}_{-0.00093}$	z_{re}	10.76	$11.4^{+3.4}_{-2.8}$	z_{drag}	1060.4	$1063.1^{+8.7}_{-7.0}$
$\Omega_c h^2$	0.116	$0.140^{+0.085}_{-0.056}$	H_0	70.0	76^{+20}_{-10}	r_{drag}	147.5	138^{+30}_{-30}
θ	1.0399	$1.037^{+0.014}_{-0.0091}$	$10^9 A_s$	2.217	$2.30^{+0.31}_{-0.32}$	k_D	0.1402	$0.148^{+0.025}_{-0.020}$
τ	0.0888	$0.089^{+0.028}_{-0.026}$	$\Omega_m h^2$	0.139	$0.163^{+0.085}_{-0.056}$	θ_D	0.1609	$0.164^{+0.010}_{-0.0084}$
N_{eff}	3.15	$4.55^{+4.6}_{-3.3}$	$\Omega_m h^3$	0.097	$0.127^{+0.10}_{-0.060}$	z_{EQ}	3256	3237^{+220}_{-200}
n_s	0.976	$0.990^{+0.052}_{-0.055}$	Y_{He}	0.2493	$0.263^{+0.043}_{-0.043}$	θ_{EQ}	0.8404	$0.844^{+0.041}_{-0.038}$
$\log[10^{10} A_s]$	3.099	$3.13^{+0.13}_{-0.15}$	$10^9 A_s e^{-2\tau}$	1.856	$1.92^{+0.23}_{-0.25}$	$r_s/D_v(0.57)$	0.07317	$0.0731^{+0.0031}_{-0.0031}$
A_{SZ}	0.20	—	Age/Gyr	13.67	$12.8^{+2.7}_{-2.5}$	$H(0.57)$	0.000315	$0.000340^{+0.000078}_{-0.000063}$
Ω_Λ	0.7171	$0.718^{+0.043}_{-0.048}$	z_*	1089.4	$1092^{+10}_{-8.0}$	$DA(0.57)$	1354	1268^{+300}_{-200}
Ω_m	0.2829	$0.282^{+0.048}_{-0.043}$	r_*	144.9	136^{+30}_{-30}			
σ_8	0.815	$0.86^{+0.18}_{-0.16}$	θ_*	1.0400	$1.037^{+0.016}_{-0.011}$			

Best-fit $\chi^2_{\text{eff}} = 7687.73$; R-1 = 0.01596

χ^2_{eff} : CMB - WMAP: 7557.82 SN - Union2.1: 129.91

7.20 base_nnu_planck_CAMspec_lowl_lowLike_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02227	$0.02231^{+0.00058}_{-0.00058}$	β_2^1	0.14	$0.1^{+1.9}_{-1.9}$	σ_8	0.8363	$0.841^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.1230	$0.124^{+0.010}_{-0.0098}$	β_3^1	0.097	$0.0^{+2.0}_{-2.0}$	z_{re}	11.17	$11.4^{+2.3}_{-2.2}$
θ	1.04103	$1.0409^{+0.0015}_{-0.0014}$	β_4^1	-0.02	$0.0^{+2.0}_{-2.0}$	H_0	69.50	$69.8^{+3.9}_{-3.8}$
τ	0.0899	$0.093^{+0.027}_{-0.025}$	β_5^1	-0.08	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.212	$2.23^{+0.14}_{-0.12}$
N_{eff}	3.33	$3.38^{+0.61}_{-0.57}$	β_1^2	0.01	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1459	$0.147^{+0.010}_{-0.010}$
n_s	0.9713	$0.974^{+0.021}_{-0.022}$	β_2^2	0.07	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.1014	$0.103^{+0.012}_{-0.011}$
$\log[10^{10} A_s]$	3.097	$3.105^{+0.060}_{-0.056}$	β_3^2	0.03	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2515	$0.2521^{+0.0077}_{-0.0077}$
A_{100}^{PS}	191	158^{+100}_{-100}	β_4^2	0.04	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8481	$1.852^{+0.044}_{-0.047}$
A_{143}^{PS}	46	55^{+30}_{-30}	β_5^2	-0.26	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.53	$13.49^{+0.55}_{-0.54}$
A_{217}^{PS}	117.8	119^{+30}_{-30}	β_1^3	-0.01	$0.0^{+1.9}_{-1.9}$	z_*	1090.68	$1090.8^{+1.3}_{-1.3}$
A_{143}^{CIB}	13.3	—	β_2^3	-0.03	$-0.1^{+2.0}_{-2.0}$	r_*	142.4	$141.9^{+5.5}_{-5.3}$
A_{217}^{CIB}	27.0	23^{+10}_{-10}	β_3^3	-0.11	$0.0^{+1.9}_{-1.9}$	θ_*	1.04099	$1.0409^{+0.0018}_{-0.0017}$
A_{143}^{tSZ}	5.23	—	β_4^3	-0.20	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.24	$1060.4^{+2.1}_{-2.2}$
$r_{PS143/217}$	0.791	> 0.673	β_5^3	0.02	$-0.1^{+2.0}_{-2.0}$	r_{drag}	145.0	$144.6^{+5.7}_{-5.5}$
r_{CIB}	0.579	—	β_1^4	-0.05	$-0.1^{+1.9}_{-1.9}$	k_D	0.14181	$0.1422^{+0.0041}_{-0.0041}$
n^{CIB}	0.275	$0.25^{+0.26}_{-0.30}$	β_2^4	0.17	$0.0^{+1.9}_{-1.9}$	θ_D	0.16199	$0.1621^{+0.0015}_{-0.0015}$
$c_{100/143}$	1.00058	$1.00061^{+0.00078}_{-0.00077}$	β_3^4	-0.15	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3345	3344^{+84}_{-84}
$c_{217/143}$	0.99646	$0.9966^{+0.0026}_{-0.0026}$	β_4^4	0.02	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8236	$0.824^{+0.017}_{-0.016}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	-0.03	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07212	$0.0722^{+0.0013}_{-0.0012}$
A^{kSZ}	0.1	—	Ω_Λ	0.6980	$0.699^{+0.022}_{-0.023}$	$H(0.57)$	0.0003168	$0.000318^{+0.000014}_{-0.000013}$
β_1^1	0.25	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3020	$0.301^{+0.023}_{-0.022}$	$DA(0.57)$	1354	1349^{+66}_{-64}

Best-fit $\chi_{\text{eff}}^2 = 9804.18$; R-1 = 0.03156

χ_{eff}^2 : BAO - DR7: 0.58 6DF: 0.26 DR9: 0.64 CMB - lowlike.v22.light.clik: 2014.21 commander.v3.light.clik: -8.70 CAMspec.v6.2TN.2013_01_18.clik: 7797.20

7.21 base_nnu_planck_CAMspec_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02229	$0.02230^{+0.00057}_{-0.00058}$	β_2^1	0.14	$0.2^{+1.9}_{-1.9}$	σ_8	0.0698	$0.842^{+0.034}_{-0.033}$
$\Omega_c h^2$	0.1217	$0.1231^{+0.0096}_{-0.0092}$	β_3^1	-0.02	$0.0^{+2.0}_{-2.0}$	z_{re}	11.42	$11.6^{+2.1}_{-2.0}$
θ	1.04110	$1.0410^{+0.0015}_{-0.0014}$	β_4^1	-0.04	$0.0^{+2.0}_{-2.0}$	H_0	69.06	$69.4^{+3.8}_{-3.7}$
τ	0.0933	$0.095^{+0.025}_{-0.023}$	β_5^1	-0.01	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.224	$2.24^{+0.13}_{-0.11}$
N_{eff}	3.25	$3.32^{+0.58}_{-0.55}$	β_1^2	-0.02	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1447	$0.1461^{+0.0098}_{-0.0095}$
n_s	0.9708	$0.972^{+0.021}_{-0.022}$	β_2^2	-0.16	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0999	$0.101^{+0.012}_{-0.011}$
$\log[10^{10} A_s]$	3.102	$3.108^{+0.055}_{-0.051}$	β_3^2	-0.07	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2505	$0.2514^{+0.0074}_{-0.0075}$
A_{100}^{PS}	192	154^{+100}_{-100}	β_4^2	0.03	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8453	$1.849^{+0.041}_{-0.044}$
A_{143}^{PS}	54.5	55^{+30}_{-30}	β_5^2	0.10	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.60	$13.54^{+0.54}_{-0.52}$
A_{217}^{PS}	121.7	119^{+30}_{-30}	β_1^3	-0.21	$-0.1^{+1.9}_{-1.9}$	z_*	1090.48	$1090.6^{+1.3}_{-1.2}$
A_{143}^{CIB}	9.51	—	β_2^3	0.08	$-0.1^{+1.9}_{-2.0}$	r_*	143.1	$142.4^{+5.2}_{-5.1}$
A_{217}^{CIB}	22.5	22^{+10}_{-10}	β_3^3	-0.05	$0.0^{+1.9}_{-1.9}$	θ_*	1.04111	$1.0410^{+0.0018}_{-0.0017}$
A_{143}^{tSZ}	2.15	—	β_4^3	0.01	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1060.12	$1060.3^{+2.1}_{-2.1}$
$r_{PS143/217}$	0.762	> 0.676	β_5^3	-0.05	$-0.1^{+1.9}_{-2.0}$	r_{drag}	145.7	$145.1^{+5.4}_{-5.3}$
r_{CIB}	0.413	—	β_1^4	-0.09	$-0.1^{+1.9}_{-1.9}$	k_D	0.14138	$0.1419^{+0.0040}_{-0.0039}$
n^{CIB}	0.276	$0.25^{+0.26}_{-0.29}$	β_2^4	-0.18	$0.0^{+1.9}_{-1.9}$	θ_D	0.16171	$0.1619^{+0.0015}_{-0.0014}$
$c_{100/143}$	1.00061	$1.00061^{+0.00076}_{-0.00078}$	β_3^4	-0.14	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3351	3351^{+82}_{-80}
$c_{217/143}$	0.99655	$0.9966^{+0.0027}_{-0.0026}$	β_4^4	-0.12	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8225	$0.823^{+0.016}_{-0.015}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.14	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07205	$0.0721^{+0.0012}_{-0.0012}$
A^{kSZ}	1.92	—	Ω_Λ	0.6967	$0.697^{+0.021}_{-0.022}$	$H(0.57)$	0.0003151	$0.000317^{+0.000013}_{-0.000013}$
β_1^1	0.37	$0.6^{+1.6}_{-1.6}$	Ω_m	0.3033	$0.303^{+0.022}_{-0.021}$	$DA(0.57)$	1362	1356^{+66}_{-63}

Best-fit $\chi_{\text{eff}}^2 = 9816.00$; R-1 = 0.03893

χ_{eff}^2 : BAO - DR7: 0.68 6DF: 0.17 DR9: 0.55 CMB - lowlike_v22.light.clik: 2014.34 lensing_likelihood_v3_ref.clik.lensing: 11.54 commander_v3.light.clik: -8.51 CAMspec_v6.2TN_2013_01_18.clik: 7797.23

7.22 base_nnu_planck_CAMspec_lowl_lowLike_highL_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02215	$0.02230^{+0.00055}_{-0.00056}$	β_3^2	0.33	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9874	$0.981^{+0.041}_{-0.037}$
$\Omega_c h^2$	0.1189	$0.1236^{+0.0096}_{-0.0089}$	β_4^2	0.04	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9856	$0.985^{+0.020}_{-0.019}$
θ	1.04141	$1.0410^{+0.0014}_{-0.0015}$	β_5^2	-0.21	$-0.4^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0179	$1.020^{+0.047}_{-0.044}$
τ	0.0970	$0.094^{+0.027}_{-0.024}$	β_1^3	0.87	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6951	$0.698^{+0.022}_{-0.023}$
N_{eff}	3.08	$3.36^{+0.55}_{-0.51}$	β_2^3	-0.64	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3049	$0.302^{+0.023}_{-0.022}$
n_s	0.9636	$0.971^{+0.021}_{-0.020}$	β_3^3	0.10	$0.2^{+2.0}_{-2.0}$	σ_8	0.8298	$0.841^{+0.037}_{-0.035}$
$\log[10^{10} A_s]$	3.101	$3.106^{+0.058}_{-0.054}$	β_4^3	-0.21	$-0.5^{+1.9}_{-2.0}$	z_{re}	11.69	$11.5^{+2.2}_{-2.2}$
A_{100}^{PS}	176	191^{+80}_{-80}	β_5^3	-0.39	$-0.3^{+2.0}_{-1.9}$	H_0	68.16	$69.6^{+3.6}_{-3.4}$
A_{143}^{PS}	75.3	79^{+20}_{-20}	β_1^4	-0.14	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.222	$2.23^{+0.13}_{-0.12}$
A_{217}^{PS}	63.5	66^{+20}_{-20}	β_2^4	-0.13	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1417	$0.1465^{+0.0098}_{-0.0091}$
A_{143}^{CIB}	2.99	—	β_3^4	0.03	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0966	$0.102^{+0.011}_{-0.010}$
A_{217}^{CIB}	47.3	44^{+9}_{-9}	β_4^4	-0.30	$0.2^{+2.0}_{-2.0}$	Y_{He}	0.2482	$0.2518^{+0.0070}_{-0.0069}$
A_{143}^{tSZ}	4.51	—	β_5^4	0.17	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8299	$1.851^{+0.042}_{-0.042}$
$r_{PS143/217}$	0.821	> 0.724	$A_{\text{PS,ACT}}^{148}$	10.44	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.762	$13.51^{+0.50}_{-0.49}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.9	$80.8^{+7.9}_{-8.0}$	z_*	1090.24	$1090.7^{+1.2}_{-1.2}$
n^{CIB}	0.509	$0.49^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.15	$7.43^{+3.1}_{-2.6}$	r_*	144.70	$142.1^{+4.9}_{-4.9}$
$c_{100/143}$	1.00063	$1.00061^{+0.00078}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.05	$10.2^{+1.0}_{-0.96}$	θ_*	1.04154	$1.0409^{+0.0016}_{-0.0017}$
$c_{217/143}$	0.99955	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.3	$77.5^{+8.2}_{-8.1}$	z_{drag}	1059.44	$1060.4^{+2.0}_{-2.0}$
$\xi^{tSZ-CIB}$	0.01	—	$r_{\text{PS}}^{95/150}$	0.784	> 0.665	r_{drag}	147.4	$144.8^{+5.1}_{-5.0}$
A^{kSZ}	2.34	—	$r_{\text{PS}}^{95/220}$	0.527	$0.57^{+0.25}_{-0.21}$	k_D	0.14008	$0.1421^{+0.0039}_{-0.0037}$
β_1^1	0.64	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9141	> 0.905	θ_D	0.16142	$0.1620^{+0.0013}_{-0.0013}$
β_2^1	0.06	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.398	< 0.757	z_{EQ}	3353	3347^{+85}_{-82}
β_3^1	0.21	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.858	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8219	$0.823^{+0.016}_{-0.016}$
β_4^1	0.04	$0.0^{+2.0}_{-2.1}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9918	$0.991^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07201	$0.0721^{+0.0013}_{-0.0012}$
β_5^1	0.099	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0032	$1.003^{+0.027}_{-0.025}$	$H(0.57)$	0.0003114	$0.000317^{+0.000012}_{-0.000012}$
β_1^2	-0.92	$-1.17^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9887	$0.987^{+0.014}_{-0.014}$	$DA(0.57)$	1379	1352^{+59}_{-59}
β_2^2	-0.21	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9619	$0.962^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10521.27$; R-1 = 0.04801

χ_{eff}^2 : BAO - DR9: 0.49 DR7: 0.77 6DF: 0.04 CMB - lowlike.v22.light.clik: 2014.67 commander.v3.light.clik: -7.27 CAMspec.v6.2TN_2013.01.18.clik: 7818.95 actspt_2013.01.clik: 693.53

7.23 base_nnu_planck_CAMspec_lowl_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02229^{+0.00054}_{-0.00056}$	β_3^2	-0.07	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9823	$0.982^{+0.041}_{-0.036}$
$\Omega_c h^2$	0.1210	$0.1231^{+0.0088}_{-0.0081}$	β_4^2	0.08	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9856	$0.985^{+0.021}_{-0.019}$
θ	1.04121	$1.0410^{+0.0013}_{-0.0014}$	β_5^2	-0.27	$-0.4^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0189	$1.021^{+0.049}_{-0.043}$
τ	0.0956	$0.096^{+0.024}_{-0.023}$	β_1^3	0.82	$0.7^{+1.8}_{-1.8}$	Ω_Λ	0.6949	$0.696^{+0.021}_{-0.023}$
N_{eff}	3.19	$3.32^{+0.53}_{-0.49}$	β_2^3	-0.44	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3051	$0.304^{+0.023}_{-0.021}$
n_s	0.9668	$0.969^{+0.020}_{-0.020}$	β_3^3	0.29	$0.2^{+1.9}_{-1.9}$	σ_8	0.0696	$0.841^{+0.032}_{-0.031}$
$\log[10^{10} A_s]$	3.104	$3.109^{+0.052}_{-0.049}$	β_4^3	-0.52	$-0.5^{+1.9}_{-2.0}$	z_{re}	11.60	$11.6^{+2.0}_{-2.0}$
A_{100}^{PS}	179	189^{+80}_{-80}	β_5^3	-0.29	$-0.3^{+2.0}_{-1.9}$	H_0	68.67	$69.4^{+3.5}_{-3.3}$
A_{143}^{PS}	77.3	78^{+20}_{-20}	β_1^4	-0.13	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.229	$2.24^{+0.12}_{-0.11}$
A_{217}^{PS}	65.1	65^{+20}_{-20}	β_2^4	-0.39	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.1439	$0.1461^{+0.0090}_{-0.0084}$
A_{143}^{CIB}	2.80	—	β_3^4	-0.22	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0988	$0.101^{+0.011}_{-0.0098}$
A_{217}^{CIB}	46.6	44^{+9}_{-9}	β_4^4	0.05	$0.2^{+2.0}_{-2.0}$	Y_{He}	0.2497	$0.2513^{+0.0068}_{-0.0067}$
A_{143}^{tSZ}	4.20	—	β_5^4	0.24	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8409	$1.849^{+0.038}_{-0.039}$
$r_{PS143/217}$	0.813	> 0.725	$A_{\text{PS,ACT}}^{148}$	10.62	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.658	$13.55^{+0.49}_{-0.48}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.1	$81.0^{+7.8}_{-8.1}$	z_*	1090.39	$1090.7^{+1.1}_{-1.1}$
n^{CIB}	0.507	$0.49^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.62	$7.44^{+3.2}_{-2.7}$	r_*	143.56	$142.4^{+4.6}_{-4.7}$
$c_{100/143}$	1.00064	$1.00062^{+0.00077}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.21	$10.2^{+1.0}_{-0.97}$	θ_*	1.04126	$1.0409^{+0.0016}_{-0.0017}$
$c_{217/143}$	0.99932	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.3	$77.5^{+8.2}_{-7.9}$	z_{drag}	1059.93	$1060.3^{+1.9}_{-2.0}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.766	> 0.663	r_{drag}	146.25	$145.1^{+4.8}_{-4.9}$
A^{kSZ}	2.06	—	$r_{\text{PS}}^{95/220}$	0.508	$0.57^{+0.24}_{-0.22}$	k_D	0.14102	$0.1419^{+0.0037}_{-0.0035}$
β_1^1	0.66	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9109	> 0.906	θ_D	0.16158	$0.1619^{+0.0013}_{-0.0012}$
β_2^1	-0.13	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.419	< 0.762	z_{EQ}	3358	3353^{+80}_{-80}
β_3^1	0.13	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.854	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8212	$0.822^{+0.016}_{-0.015}$
β_4^1	0.13	$-0.1^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9917	$0.991^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07196	$0.0720^{+0.0013}_{-0.0012}$
β_5^1	0.05	$0.0^{+1.8}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0027	$1.004^{+0.026}_{-0.025}$	$H(0.57)$	0.0003137	$0.000317^{+0.000012}_{-0.000012}$
β_1^2	-0.99	$-1.16^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9878	$0.987^{+0.015}_{-0.015}$	$DA(0.57)$	1369	1357^{+58}_{-59}
β_2^2	-0.45	$-0.3^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9615	$0.962^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10530.16$; R-1 = 0.06558

χ_{eff}^2 : BAO - DR9: 0.44 6DF: 0.10 DR7: 0.83 CMB - lowlike_v22.light.clik: 2014.53 lensing_likelihood.v3_ref.clik.lensing: 11.35 commander.v3.light.clik: -7.68 CAMspec.v6.2TN_2013_01_18.clik: 7817.58 actspt_2013_01.clik: 692.92

7.24 base_nnu_planck_CAMspec_lowl_lowLike_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02241	$0.02274^{+0.00082}_{-0.00083}$	β_1^1	0.51	$0.5^{+1.7}_{-1.7}$	σ_8	0.8308	$0.853^{+0.042}_{-0.041}$
$\Omega_c h^2$	0.1211	$0.127^{+0.012}_{-0.011}$	β_2^1	0.24	$0.1^{+1.9}_{-1.9}$	z_{re}	11.25	$12.2^{+2.5}_{-2.3}$
θ	1.04126	$1.0408^{+0.0015}_{-0.0014}$	β_3^1	-0.04	$0.0^{+1.9}_{-1.9}$	H_0	70.4	$73.8^{+6.9}_{-6.6}$
τ	0.0918	$0.102^{+0.032}_{-0.027}$	β_4^1	-0.13	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.212	$2.28^{+0.16}_{-0.14}$
N_{eff}	3.33	$3.78^{+0.84}_{-0.82}$	β_5^1	-0.04	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1441	$0.150^{+0.012}_{-0.012}$
n_s	0.9767	$0.993^{+0.032}_{-0.034}$	β_1^2	-0.05	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.1015	$0.111^{+0.017}_{-0.017}$
$\log[10^{10} A_s]$	3.096	$3.128^{+0.069}_{-0.063}$	β_2^2	-0.11	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.2516	$0.257^{+0.010}_{-0.011}$
α_{SNLS}	1.413	$1.43^{+0.22}_{-0.20}$	β_3^2	-0.21	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8406	$1.862^{+0.045}_{-0.050}$
β_{SNLS}	3.244	$3.25^{+0.22}_{-0.22}$	β_4^2	0.06	$0.1^{+2.0}_{-1.9}$	Age/Gyr	13.50	$13.09^{+0.79}_{-0.72}$
A_{100}^{PS}	163	170^{+100}_{-100}	β_5^2	-0.01	$-0.2^{+2.0}_{-1.9}$	z_*	1090.34	$1090.8^{+1.4}_{-1.4}$
A_{143}^{PS}	58.9	55^{+30}_{-30}	β_1^3	-0.05	$0.0^{+1.9}_{-1.9}$	r_*	142.7	$139.2^{+6.8}_{-6.3}$
A_{217}^{PS}	125.6	116^{+30}_{-30}	β_2^3	-0.04	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04120	$1.0404^{+0.0019}_{-0.0018}$
A_{143}^{CIB}	8.66	—	β_3^3	-0.08	$0.0^{+1.9}_{-1.9}$	z_{drag}	1060.39	$1061.9^{+2.9}_{-3.0}$
A_{217}^{CIB}	22	25^{+10}_{-10}	β_4^3	-0.15	$-0.2^{+2.0}_{-1.9}$	r_{drag}	145.4	$141.7^{+7.1}_{-6.5}$
A_{143}^{tSZ}	6.45	—	β_5^3	-0.04	$-0.1^{+1.9}_{-2.0}$	k_D	0.1416	$0.1443^{+0.0051}_{-0.0053}$
$r_{PS143/217}$	0.773	> 0.658	β_1^4	0.00	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16189	$0.1628^{+0.0017}_{-0.0018}$
r_{CIB}	0.598	—	β_2^4	-0.20	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3303	3250^{+150}_{-150}
n^{CIB}	0.162	$0.24^{+0.26}_{-0.29}$	β_3^4	-0.16	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8320	$0.843^{+0.032}_{-0.031}$
$c_{100/143}$	1.00059	$1.00061^{+0.00079}_{-0.00078}$	β_4^4	0.07	$0.0^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07280	$0.0737^{+0.0025}_{-0.0024}$
$c_{217/143}$	0.99679	$0.9967^{+0.0026}_{-0.0026}$	β_5^4	0.04	$0.1^{+1.9}_{-2.0}$	$H(0.57)$	0.0003181	$0.000329^{+0.000021}_{-0.000021}$
$\xi^{tSZ-CIB}$	0.39	—	Ω_Λ	0.7093	$0.723^{+0.037}_{-0.041}$	$DA(0.57)$	1343	1291^{+100}_{-95}
A^{kSZ}	1.62	—	Ω_m	0.2907	$0.277^{+0.041}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10225.55$; R-1 = 0.03266

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.15 commander.v3.light.clik: -9.56 CAMspec_v6.2TN_2013_01_18.clik: 7798.40 SN - SNLS
 April_2012: 422.56

7.25 base_nnu_planck_CAMspec_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02238	$0.02262^{+0.00081}_{-0.00082}$	β_1^1	0.29	$0.6^{+1.7}_{-1.7}$	σ_8	0.0699	$0.854^{+0.040}_{-0.040}$
$\Omega_c h^2$	0.1219	$0.125^{+0.011}_{-0.011}$	β_2^1	-0.05	$0.1^{+1.9}_{-1.8}$	z_{re}	11.28	$12.4^{+2.4}_{-2.4}$
θ	1.04109	$1.0409^{+0.0016}_{-0.0015}$	β_3^1	0.01	$0.0^{+1.9}_{-2.0}$	H_0	69.8	$72.2^{+6.2}_{-6.5}$
τ	0.0919	$0.104^{+0.031}_{-0.027}$	β_4^1	-0.04	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.218	$2.29^{+0.16}_{-0.14}$
N_{eff}	3.31	$3.62^{+0.80}_{-0.82}$	β_5^1	0.09	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1449	$0.149^{+0.012}_{-0.012}$
n_s	0.9739	$0.986^{+0.031}_{-0.034}$	β_1^2	0.07	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.1012	$0.108^{+0.017}_{-0.016}$
$\log[10^{10} A_s]$	3.099	$3.131^{+0.067}_{-0.064}$	β_2^2	0.00	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.2513	$0.2552^{+0.0099}_{-0.011}$
α_{SNLS}	1.415	$1.43^{+0.22}_{-0.20}$	β_3^2	-0.09	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8453	$1.859^{+0.045}_{-0.051}$
β_{SNLS}	3.250	$3.25^{+0.23}_{-0.21}$	β_4^2	0.12	$0.1^{+2.0}_{-2.0}$	Age/Gyr	13.53	$13.25^{+0.81}_{-0.70}$
A_{100}^{PS}	204	161^{+100}_{-100}	β_5^2	-0.13	$-0.2^{+1.9}_{-1.9}$	z_*	1090.43	$1090.7^{+1.3}_{-1.3}$
A_{143}^{PS}	59.1	55^{+30}_{-30}	β_1^3	0.00	$0.0^{+1.9}_{-1.8}$	r_*	142.6	$140.3^{+7.0}_{-6.3}$
A_{217}^{PS}	116.8	117^{+30}_{-30}	β_2^3	-0.098	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04105	$1.0406^{+0.0020}_{-0.0018}$
A_{143}^{CIB}	14.0	—	β_3^3	0.03	$0.0^{+1.9}_{-1.9}$	z_{drag}	1060.39	$1061.4^{+2.8}_{-3.0}$
A_{217}^{CIB}	25.8	23^{+10}_{-10}	β_4^3	-0.099	$-0.2^{+2.0}_{-2.0}$	r_{drag}	145.3	$142.8^{+7.3}_{-6.6}$
A_{143}^{tSZ}	2.87	—	β_5^3	-0.03	$-0.1^{+1.9}_{-1.9}$	k_D	0.1417	$0.1435^{+0.0051}_{-0.0054}$
$r_{PS143/217}$	0.784	> 0.667	β_1^4	0.06	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16181	$0.1624^{+0.0017}_{-0.0018}$
r_{CIB}	0.537	—	β_2^4	-0.01	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3329	3288^{+140}_{-130}
n^{CIB}	0.286	$0.25^{+0.27}_{-0.30}$	β_3^4	-0.09	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8270	$0.836^{+0.028}_{-0.028}$
$c_{100/143}$	1.00055	$1.00062^{+0.00079}_{-0.00080}$	β_4^4	0.07	$0.0^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07240	$0.0731^{+0.0023}_{-0.0022}$
$c_{217/143}$	0.99648	$0.9967^{+0.0026}_{-0.0026}$	β_5^4	0.12	$0.1^{+2.0}_{-1.9}$	$H(0.57)$	0.0003171	$0.000325^{+0.000020}_{-0.000021}$
$\xi^{tSZ-CIB}$	0.67	—	Ω_Λ	0.7029	$0.714^{+0.035}_{-0.039}$	$DA(0.57)$	1351	1314^{+110}_{-91}
A^{kSZ}	0.5	—	Ω_m	0.2971	$0.286^{+0.039}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 10238.18$; R-1 = 0.03018

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.23 lensing_likelihood.v3.ref.clik.lensing: 11.91 commander.v3.light.clik: -9.03 CAMspec.v6.2TN_2013_01_18.clik
7798.02 SN - SNLS April.2012: 423.04

7.26 base_nnu_planck_CAMspec_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02234	$0.02238^{+0.00059}_{-0.00059}$	β_1^1	0.44	$0.5^{+1.6}_{-1.7}$	σ_8	0.8356	$0.843^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1224	$0.124^{+0.011}_{-0.010}$	β_2^1	0.00	$0.1^{+1.9}_{-1.9}$	z_{re}	11.33	$11.7^{+2.3}_{-2.3}$
θ	1.04104	$1.0409^{+0.0016}_{-0.0015}$	β_3^1	0.11	$0.0^{+1.9}_{-1.9}$	H_0	69.92	$70.5^{+4.0}_{-4.1}$
τ	0.0921	$0.096^{+0.027}_{-0.025}$	β_4^1	-0.03	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.219	$2.24^{+0.14}_{-0.12}$
N_{eff}	3.34	$3.44^{+0.63}_{-0.64}$	β_5^1	-0.05	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1454	$0.147^{+0.011}_{-0.011}$
n_s	0.9738	$0.977^{+0.021}_{-0.022}$	β_1^2	0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.1016	$0.104^{+0.013}_{-0.013}$
$\log[10^{10} A_s]$	3.100	$3.110^{+0.061}_{-0.056}$	β_2^2	-0.096	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.2517	$0.2529^{+0.0080}_{-0.0086}$
α_{SNLS}	1.419	$1.43^{+0.22}_{-0.20}$	β_3^2	-0.12	$0.0^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8458	$1.852^{+0.046}_{-0.049}$
β_{SNLS}	3.247	$3.25^{+0.22}_{-0.22}$	β_4^2	-0.13	$0.0^{+2.1}_{-2.0}$	Age/Gyr	13.51	$13.43^{+0.62}_{-0.55}$
A_{100}^{PS}	173	160^{+100}_{-100}	β_5^2	-0.04	$-0.1^{+1.9}_{-1.9}$	z_*	1090.56	$1090.7^{+1.3}_{-1.3}$
A_{143}^{PS}	47	54^{+30}_{-30}	β_1^3	-0.08	$0.0^{+1.9}_{-1.9}$	r_*	142.4	$141.6^{+6.1}_{-5.6}$
A_{217}^{PS}	121.0	117^{+30}_{-30}	β_2^3	-0.10	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04099	$1.0408^{+0.0019}_{-0.0018}$
A_{143}^{CIB}	10.8	—	β_3^3	-0.14	$0.0^{+1.9}_{-1.9}$	z_{drag}	1060.35	$1060.6^{+2.2}_{-2.3}$
A_{217}^{CIB}	25.0	23^{+10}_{-10}	β_4^3	-0.07	$-0.2^{+2.0}_{-2.0}$	r_{drag}	145.1	$144.2^{+6.3}_{-5.7}$
A_{143}^{tSZ}	6.62	—	β_5^3	-0.04	$-0.1^{+2.0}_{-1.9}$	k_D	0.14178	$0.1424^{+0.0043}_{-0.0045}$
$r_{PS143/217}$	0.792	> 0.670	β_1^4	0.03	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16196	$0.1622^{+0.0015}_{-0.0015}$
r_{CIB}	0.586	—	β_2^4	-0.15	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3328	3323^{+86}_{-82}
n^{CIB}	0.241	$0.25^{+0.28}_{-0.30}$	β_3^4	-0.17	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8271	$0.828^{+0.016}_{-0.017}$
$c_{100/143}$	1.00062	$1.00061^{+0.00080}_{-0.00081}$	β_4^4	-0.11	$0.0^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07239	$0.0725^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99658	$0.9966^{+0.0026}_{-0.0026}$	β_5^4	-0.06	$0.1^{+1.9}_{-1.9}$	$H(0.57)$	0.0003175	$0.000320^{+0.000014}_{-0.000015}$
$\xi^{tSZ-CIB}$	0.01	—	Ω_Λ	0.7027	$0.704^{+0.021}_{-0.023}$	$DA(0.57)$	1349	1340^{+72}_{-65}
A^{kSZ}	0.6	—	Ω_m	0.2973	$0.296^{+0.023}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10227.14$; R-1 = 0.04555

χ_{eff}^2 : BAO - DR7: 0.25 6DF: 0.36 DR9: 1.05 CMB - lowlike.v22.light.clik: 2014.22 commander.v3.light.clik: -9.05 CAMspec.v6.2TN_2013_01_18.clik: 7797.24 SN - SNLS April.2012: 423.06

7.27 base_nnu_planck_CAMspec_lowl_lowLike_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02228	$0.02254^{+0.00083}_{-0.00080}$	β_2^1	0.10	$0.1^{+1.9}_{-1.9}$	σ_8	0.8347	$0.848^{+0.042}_{-0.040}$
$\Omega_c h^2$	0.1213	$0.126^{+0.011}_{-0.010}$	β_3^1	0.06	$0.0^{+1.9}_{-1.9}$	z_{re}	11.47	$11.8^{+2.6}_{-2.4}$
θ	1.04116	$1.0408^{+0.0015}_{-0.0015}$	β_4^1	-0.22	$0.0^{+2.0}_{-1.9}$	H_0	69.4	$71.9^{+6.8}_{-6.2}$
τ	0.0940	$0.098^{+0.032}_{-0.027}$	β_5^1	0.06	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.223	$2.26^{+0.16}_{-0.14}$
N_{eff}	3.26	$3.60^{+0.81}_{-0.75}$	β_1^2	0.21	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1442	$0.149^{+0.011}_{-0.011}$
n_s	0.9720	$0.984^{+0.033}_{-0.033}$	β_2^2	0.05	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1001	$0.107^{+0.017}_{-0.015}$
$\log[10^{10} A_s]$	3.101	$3.117^{+0.070}_{-0.064}$	β_3^2	-0.03	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.2506	$0.255^{+0.010}_{-0.010}$
A_{100}^{PS}	186	166^{+100}_{-100}	β_4^2	0.14	$0.0^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8417	$1.858^{+0.044}_{-0.047}$
A_{143}^{PS}	47	55^{+30}_{-30}	β_5^2	-0.07	$-0.2^{+1.9}_{-2.0}$	Age/Gyr	13.59	$13.27^{+0.75}_{-0.73}$
A_{217}^{PS}	117.6	117^{+30}_{-30}	β_1^3	-0.08	$0.0^{+1.9}_{-1.9}$	z_*	1090.45	$1090.8^{+1.3}_{-1.3}$
A_{143}^{CIB}	11.5	—	β_2^3	-0.03	$-0.1^{+1.9}_{-1.9}$	r_*	143.1	$140.4^{+6.3}_{-6.2}$
A_{217}^{CIB}	24.9	24^{+10}_{-10}	β_3^3	-0.11	$0.0^{+1.9}_{-1.9}$	θ_*	1.04115	$1.0406^{+0.0018}_{-0.0018}$
A_{143}^{tSZ}	3.50	—	β_4^3	-0.16	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1060.09	$1061.2^{+2.9}_{-2.9}$
$r_{PS143/217}$	0.813	> 0.663	β_5^3	0.02	$-0.1^{+1.9}_{-2.0}$	r_{drag}	145.8	$142.9^{+6.6}_{-6.5}$
r_{CIB}	0.448	—	β_1^4	0.10	$-0.1^{+1.9}_{-1.9}$	k_D	0.14127	$0.1434^{+0.0050}_{-0.0048}$
n^{CIB}	0.326	$0.25^{+0.27}_{-0.30}$	β_2^4	0.05	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16180	$0.1625^{+0.0018}_{-0.0017}$
$c_{100/143}$	1.00062	$1.00062^{+0.00076}_{-0.00079}$	β_3^4	-0.08	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3335	3295^{+150}_{-150}
$c_{217/143}$	0.99640	$0.9967^{+0.0025}_{-0.0026}$	β_4^4	0.00	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8257	$0.834^{+0.032}_{-0.030}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.12	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07228	$0.0729^{+0.0026}_{-0.0024}$
A^{kSZ}	2.23	—	Ω_Λ	0.7006	$0.711^{+0.039}_{-0.043}$	$H(0.57)$	0.0003157	$0.000324^{+0.000021}_{-0.000019}$
β_1^1	0.41	$0.6^{+1.6}_{-1.7}$	Ω_m	0.2994	$0.289^{+0.043}_{-0.039}$	$DA(0.57)$	1358	1318^{+100}_{-98}

Best-fit $\chi_{\text{eff}}^2 = 9933.49$; R-1 = 0.03741

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.35 commander.v3.light.clik: -8.76 CAMspec.v6.2TN_2013_01_18.clik: 7797.76 SN - Union2.1:
130.15

7.28 base_nnu_planck_CAMspec_lowl_lowLike_Union2_post_BAO

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02233^{+0.00058}_{-0.00057}$	β_2^1	$0.1^{+1.9}_{-1.9}$	σ_8	$0.842^{+0.039}_{-0.037}$
$\Omega_c h^2$	$0.124^{+0.010}_{-0.0093}$	β_3^1	$0.0^{+1.9}_{-1.9}$	z_{re}	$11.5^{+2.3}_{-2.2}$
θ	$1.0409^{+0.0014}_{-0.0015}$	β_4^1	$0.0^{+2.0}_{-1.9}$	H_0	$70.0^{+3.8}_{-3.7}$
τ	$0.094^{+0.027}_{-0.025}$	β_5^1	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	$2.23^{+0.14}_{-0.13}$
N_{eff}	$3.39^{+0.61}_{-0.55}$	β_1^2	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	$0.147^{+0.010}_{-0.0096}$
n_s	$0.974^{+0.021}_{-0.021}$	β_2^2	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	$0.103^{+0.012}_{-0.011}$
$\log[10^{10} A_s]$	$3.106^{+0.060}_{-0.058}$	β_3^2	$-0.1^{+1.9}_{-1.9}$	Y_{He}	$0.2523^{+0.0077}_{-0.0075}$
A_{100}^{PS}	160^{+100}_{-100}	β_4^2	$0.0^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	$1.851^{+0.044}_{-0.044}$
A_{143}^{PS}	55^{+30}_{-30}	β_5^2	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	$13.48^{+0.54}_{-0.54}$
A_{217}^{PS}	118^{+30}_{-30}	β_1^3	$0.0^{+1.9}_{-1.8}$	z_*	$1090.7^{+1.3}_{-1.2}$
A_{143}^{CIB}	—	β_2^3	$-0.1^{+1.9}_{-1.9}$	r_*	$141.9^{+5.3}_{-5.3}$
A_{217}^{CIB}	23^{+10}_{-10}	β_3^3	$0.0^{+1.9}_{-2.0}$	θ_*	$1.0408^{+0.0017}_{-0.0017}$
A_{143}^{tSZ}	—	β_4^3	$-0.2^{+1.9}_{-2.0}$	z_{drag}	$1060.5^{+2.1}_{-2.1}$
$r_{PS143/217}$	> 0.666	β_5^3	$-0.1^{+1.9}_{-2.0}$	r_{drag}	$144.6^{+5.5}_{-5.5}$
r_{CIB}	—	β_1^4	$-0.1^{+1.9}_{-1.9}$	k_D	$0.1422^{+0.0042}_{-0.0041}$
n^{CIB}	$0.24^{+0.27}_{-0.30}$	β_2^4	$-0.1^{+2.0}_{-1.9}$	θ_D	$0.1621^{+0.0015}_{-0.0014}$
$c_{100/143}$	$1.00060^{+0.00077}_{-0.00080}$	β_3^4	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3338^{+85}_{-83}
$c_{217/143}$	$0.9966^{+0.0026}_{-0.0026}$	β_4^4	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	$0.825^{+0.016}_{-0.016}$
$\xi^{tSZ-CIB}$	—	β_5^4	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	$0.0722^{+0.0012}_{-0.0012}$
A^{kSZ}	—	Ω_Λ	$0.700^{+0.021}_{-0.023}$	$H(0.57)$	$0.000318^{+0.000014}_{-0.000013}$
β_1^1	$0.6^{+1.6}_{-1.7}$	Ω_m	$0.300^{+0.023}_{-0.021}$	$DA(0.57)$	1347^{+65}_{-64}

; R-1 =0.04981

8 nnu+meffsterile

8.1 base_nnu_meffsterile_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02232	$0.02244^{+0.00078}_{-0.00066}$	β_2^1	0.09	$0.1^{+1.9}_{-1.9}$	z_{re}	11.32	$11.8^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.1229	$0.126^{+0.011}_{-0.011}$	β_3^1	0.00	$0.0^{+1.9}_{-1.9}$	H_0	69.8	$69.5^{+6.8}_{-4.8}$
θ	1.04100	$1.0407^{+0.0014}_{-0.0015}$	β_4^1	0.27	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.26^{+0.15}_{-0.13}$
τ	0.0918	$0.097^{+0.030}_{-0.027}$	β_5^1	-0.15	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1458	$0.152^{+0.013}_{-0.010}$
$m_{\nu,s}^{eff}$	0.000	< 0.857	β_1^2	0.06	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.1018	$0.106^{+0.015}_{-0.0093}$
N_{eff}	3.35	< 4.19	β_2^2	-0.02	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.2518	$0.2548^{+0.0089}_{-0.0067}$
n_s	0.9732	$0.978^{+0.034}_{-0.027}$	β_3^2	0.02	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8475	$1.860^{+0.041}_{-0.038}$
$\log[10^{10} A_s]$	3.100	$3.116^{+0.067}_{-0.057}$	β_4^2	-0.06	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00065	< 0.00976
A_{100}^{PS}	178	167^{+100}_{-100}	β_5^2	-0.30	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.51	$13.39^{+0.43}_{-0.66}$
A_{143}^{PS}	47	56^{+30}_{-30}	β_1^3	-0.08	$0.0^{+1.9}_{-1.9}$	z_*	1090.63	$1091.1^{+1.5}_{-1.3}$
A_{217}^{PS}	122.4	118^{+30}_{-30}	β_2^3	-0.12	$-0.1^{+1.9}_{-1.9}$	r_*	142.3	$140.1^{+4.5}_{-5.5}$
A_{143}^{CIB}	11.3	—	β_3^3	0.00	$0.0^{+2.0}_{-2.0}$	θ_*	1.04095	$1.0406^{+0.0016}_{-0.0017}$
A_{217}^{CIB}	24.8	24^{+10}_{-10}	β_4^3	-0.02	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1060.35	$1061.1^{+2.5}_{-2.0}$
A_{143}^{tSZ}	6.82	—	β_5^3	-0.22	$-0.1^{+1.9}_{-1.9}$	r_{drag}	144.9	$142.7^{+4.6}_{-5.7}$
$r_{PS143/217}$	0.780	> 0.662	β_1^4	-0.05	$-0.1^{+1.9}_{-1.9}$	k_D	0.14190	$0.1437^{+0.0044}_{-0.0036}$
r_{CIB}	0.610	—	β_2^4	0.15	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16200	$0.1624^{+0.0017}_{-0.0014}$
n^{CIB}	0.216	$0.24^{+0.27}_{-0.30}$	β_3^4	-0.18	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3334	3299^{+140}_{-150}
$c_{100/143}$	1.00058	$1.00060^{+0.00078}_{-0.00078}$	β_4^4	-0.04	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8258	$0.834^{+0.032}_{-0.027}$
$c_{217/143}$	0.99656	$0.9967^{+0.0026}_{-0.0025}$	β_5^4	-0.09	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07229	$0.0714^{+0.0030}_{-0.0032}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.701	$0.684^{+0.052}_{-0.064}$	$H(0.57)$	0.0003176	$0.000320^{+0.000019}_{-0.000011}$
A^{kSZ}	0.2	—	Ω_m	0.299	$0.316^{+0.064}_{-0.052}$	$DA(0.57)$	1350	1349^{+68}_{-98}
β_1^1	0.49	$0.5^{+1.7}_{-1.7}$	σ_8	0.837	$0.797^{+0.072}_{-0.11}$			

Best-fit $\chi_{\text{eff}}^2 = 9802.41$; R-1 = 0.06222

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.24 commander_v3.light.clik: -8.93 CAMspec_v6.2TN_2013_01_18.clik: 7797.10

8.2 base_nnu_meffsterile_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.02235^{+0.00070}_{-0.00060}$	β_2^1	0.19	$0.1^{+1.9}_{-1.8}$	z_{re}	11.44	$12.0^{+2.4}_{-2.2}$
$\Omega_c h^2$	0.1205	$0.125^{+0.010}_{-0.011}$	β_3^1	0.02	$0.0^{+1.9}_{-1.9}$	H_0	67.3	$68.2^{+6.1}_{-3.9}$
θ	1.04117	$1.0407^{+0.0014}_{-0.0014}$	β_4^1	-0.24	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.216	$2.26^{+0.15}_{-0.11}$
τ	0.0934	$0.098^{+0.029}_{-0.025}$	β_5^1	0.05	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1440	$0.152^{+0.013}_{-0.010}$
$m_{\nu,s}^{eff}$	0.068	< 0.871	β_1^2	-0.15	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^3$	0.0969	$0.103^{+0.013}_{-0.0071}$
N_{eff}	3.109	< 4.01	β_2^2	-0.11	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.2486	$0.2533^{+0.0083}_{-0.0053}$
n_s	0.9629	$0.971^{+0.031}_{-0.023}$	β_3^2	-0.29	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8382	$1.860^{+0.039}_{-0.035}$
$\log[10^{10} A_s]$	3.098	$3.119^{+0.063}_{-0.051}$	β_4^2	-0.29	$0.1^{+1.8}_{-1.8}$	$\Omega_\nu h^2$	0.00136	< 0.00990
A_{100}^{PS}	159	160^{+100}_{-100}	β_5^2	-0.11	$-0.1^{+2.1}_{-2.0}$	Age/Gyr	13.773	$13.51^{+0.32}_{-0.60}$
A_{143}^{PS}	52.9	57^{+30}_{-30}	β_1^3	-0.59	$0.0^{+1.9}_{-1.9}$	z_*	1090.46	$1091.1^{+1.5}_{-1.3}$
A_{217}^{PS}	117.6	120^{+30}_{-30}	β_2^3	-0.62	$-0.1^{+1.9}_{-1.9}$	r_*	144.08	$140.8^{+3.9}_{-5.3}$
A_{143}^{CIB}	11.8	—	β_3^3	-0.09	$0.0^{+2.0}_{-2.0}$	θ_*	1.04129	$1.0406^{+0.0016}_{-0.0016}$
A_{217}^{CIB}	25.3	23^{+10}_{-10}	β_4^3	-0.37	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1059.59	$1060.8^{+2.2}_{-1.7}$
A_{143}^{tSZ}	6.15	—	β_5^3	-0.096	$-0.1^{+2.0}_{-1.9}$	r_{drag}	146.81	$143.4^{+4.0}_{-5.5}$
$r_{PS143/217}$	0.864	> 0.670	β_1^4	-0.38	$-0.1^{+1.9}_{-1.9}$	k_D	0.14067	$0.1433^{+0.0042}_{-0.0032}$
r_{CIB}	0.512	—	β_2^4	-0.50	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16141	$0.1621^{+0.0016}_{-0.0011}$
n^{CIB}	0.334	$0.24^{+0.27}_{-0.29}$	β_3^4	-0.24	$0.0^{+2.2}_{-2.0}$	z_{EQ}	3379	3334^{+120}_{-140}
$c_{100/143}$	1.00056	$1.00060^{+0.00079}_{-0.00076}$	β_4^4	-0.22	$0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8174	$0.828^{+0.028}_{-0.023}$
$c_{217/143}$	0.99637	$0.9967^{+0.0025}_{-0.0026}$	β_5^4	-0.26	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07128	$0.0708^{+0.0028}_{-0.0029}$
$\xi^{tSZ-CIB}$	0.48	—	Ω_Λ	0.682	$0.673^{+0.050}_{-0.061}$	$H(0.57)$	0.0003106	$0.000317^{+0.000017}_{-0.0000081}$
A^{kSZ}	0.4	—	Ω_m	0.318	$0.327^{+0.061}_{-0.050}$	$DA(0.57)$	1390	1369^{+54}_{-91}
β_1^1	0.45	$0.6^{+1.6}_{-1.7}$	σ_8	0.068	$0.797^{+0.068}_{-0.096}$			

Best-fit $\chi_{\text{eff}}^2 = 9816.03$; R-1 = 0.11195

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.52 lensing_likelihood.v3.ref.clik.lensing: 10.98 commander.v3.light.clik: -7.36 CAMspec.v6.2TN_2013_01_18.clik: 7797.89

8.3 base_nnu_meffsterile_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02229	$0.02243^{+0.00060}_{-0.00055}$	β_2^1	0.11	$0.1^{+1.9}_{-1.9}$	z_{re}	11.39	$11.8^{+2.2}_{-2.3}$
$\Omega_c h^2$	0.1230	$0.124^{+0.010}_{-0.011}$	β_3^1	0.11	$0.0^{+1.9}_{-1.9}$	H_0	69.54	$69.8^{+3.7}_{-2.8}$
θ	1.04097	$1.0409^{+0.0014}_{-0.0014}$	β_4^1	-0.01	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.224	$2.25^{+0.13}_{-0.12}$
τ	0.0925	$0.097^{+0.027}_{-0.027}$	β_5^1	0.03	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1459	$0.149^{+0.011}_{-0.0085}$
$m_{\nu,s}^{eff}$	0.000	< 0.555	β_1^2	-0.07	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^3$	0.1015	$0.104^{+0.012}_{-0.0082}$
N_{eff}	3.329	< 4.02	β_2^2	-0.14	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.2515	$0.2537^{+0.0077}_{-0.0060}$
n_s	0.9721	$0.978^{+0.023}_{-0.020}$	β_3^2	-0.02	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8482	$1.852^{+0.042}_{-0.034}$
$\log[10^{10} A_s]$	3.102	$3.113^{+0.057}_{-0.055}$	β_4^2	0.02	$0.0^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00065	< 0.00654
A_{100}^{PS}	163	163^{+100}_{-100}	β_5^2	-0.11	$-0.2^{+1.9}_{-2.0}$	Age/Gyr	13.529	$13.43^{+0.37}_{-0.51}$
A_{143}^{PS}	48	55^{+30}_{-30}	β_1^3	-0.098	$0.0^{+1.9}_{-1.8}$	z_*	1090.66	$1090.8^{+1.3}_{-1.2}$
A_{217}^{PS}	123.5	118^{+30}_{-30}	β_2^3	-0.01	$-0.1^{+1.9}_{-1.9}$	r_*	142.34	$141.1^{+3.9}_{-5.1}$
A_{143}^{CIB}	9.81	—	β_3^3	-0.05	$0.0^{+1.9}_{-1.9}$	θ_*	1.04092	$1.0408^{+0.0016}_{-0.0017}$
A_{217}^{CIB}	23.8	23^{+10}_{-10}	β_4^3	-0.07	$-0.2^{+1.8}_{-1.9}$	z_{drag}	1060.28	$1060.9^{+2.1}_{-1.8}$
A_{143}^{tSZ}	7.14	—	β_5^3	-0.01	$-0.1^{+1.9}_{-1.9}$	r_{drag}	145.01	$143.7^{+4.1}_{-5.3}$
$r_{PS143/217}$	0.789	> 0.663	β_1^4	-0.11	$-0.1^{+1.9}_{-1.9}$	k_D	0.14185	$0.1429^{+0.0040}_{-0.0031}$
r_{CIB}	0.591	—	β_2^4	-0.04	$0.0^{+1.9}_{-1.9}$	θ_D	0.16196	$0.1622^{+0.0016}_{-0.0013}$
n^{CIB}	0.218	$0.24^{+0.27}_{-0.29}$	β_3^4	-0.19	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3344	3296^{+98}_{-120}
$c_{100/143}$	1.00061	$1.00061^{+0.00080}_{-0.00080}$	β_4^4	-0.04	$0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8239	$0.834^{+0.028}_{-0.019}$
$c_{217/143}$	0.99646	$0.9967^{+0.0026}_{-0.0025}$	β_5^4	0.10	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07213	$0.0719^{+0.0013}_{-0.0013}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6983	$0.694^{+0.023}_{-0.024}$	$H(0.57)$	0.0003169	$0.000319^{+0.000013}_{-0.000090}$
A^{kSZ}	0.6	—	Ω_m	0.3017	$0.306^{+0.024}_{-0.023}$	$DA(0.57)$	1354	1347^{+46}_{-60}
β_1^1	0.41	$0.5^{+1.7}_{-1.7}$	σ_8	0.838	$0.808^{+0.053}_{-0.067}$			

Best-fit $\chi_{\text{eff}}^2 = 9803.74$; R-1 = 0.12560

χ_{eff}^2 : BAO - DR7: 0.56 6DF: 0.27 DR9: 0.65 CMB - lowlike.v22.light.clik: 2014.30 commander.v3.light.clik: -8.71 CAMspec.v6.2TN_2013_01_18.clik: 7796.67

8.4 base_nnu_meffsterile_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02257	$0.02268^{+0.00061}_{-0.00058}$	β_2^1	0.05	$0.1^{+1.9}_{-1.9}$	z_{re}	11.15	$12.2^{+2.4}_{-2.3}$
$\Omega_c h^2$	0.1224	$0.128^{+0.010}_{-0.010}$	β_3^1	0.04	$0.0^{+1.9}_{-1.9}$	H_0	71.77	$72.2^{+4.2}_{-4.1}$
θ	1.04121	$1.0406^{+0.0014}_{-0.0014}$	β_4^1	0.098	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s$	2.214	$2.29^{+0.15}_{-0.13}$
τ	0.0906	$0.101^{+0.029}_{-0.027}$	β_5^1	0.02	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1456	$0.153^{+0.012}_{-0.011}$
$m_{\nu,s}^{eff}$	0.000	< 0.523	β_1^2	-0.31	$-0.2^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.1045	$0.110^{+0.011}_{-0.011}$
N_{eff}	3.476	< 4.27	β_2^2	0.35	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.2535	$0.2576^{+0.0070}_{-0.0074}$
n_s	0.9826	$0.991^{+0.022}_{-0.023}$	β_3^2	-0.14	$0.0^{+2.1}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8467	$1.866^{+0.039}_{-0.042}$
$\log[10^{10} A_s]$	3.097	$3.129^{+0.063}_{-0.057}$	β_4^2	-0.32	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00065	< 0.00621
A_{100}^{PS}	170	172^{+100}_{-100}	β_5^2	0.09	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.348	$13.14^{+0.50}_{-0.45}$
A_{143}^{PS}	48	56^{+30}_{-30}	β_1^3	-0.04	$0.0^{+1.9}_{-1.8}$	z_*	1090.39	$1091.1^{+1.4}_{-1.4}$
A_{217}^{PS}	120.9	117^{+30}_{-30}	β_2^3	-0.15	$-0.1^{+2.0}_{-1.9}$	r_*	141.58	$138.7^{+5.1}_{-4.5}$
A_{143}^{CIB}	11.9	—	β_3^3	0.15	$0.0^{+1.9}_{-1.9}$	θ_*	1.04105	$1.0403^{+0.0016}_{-0.0016}$
A_{217}^{CIB}	25.0	25^{+10}_{-10}	β_4^3	-0.18	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1061.00	$1061.9^{+1.9}_{-2.0}$
A_{143}^{tSZ}	6.92	—	β_5^3	-0.17	$-0.1^{+2.0}_{-2.0}$	r_{drag}	144.1	$141.2^{+5.2}_{-4.7}$
$r_{PS143/217}$	0.828	> 0.660	β_1^4	-0.21	$-0.1^{+1.9}_{-1.9}$	k_D	0.14245	$0.1447^{+0.0037}_{-0.0039}$
r_{CIB}	0.581	—	β_2^4	-0.24	$0.0^{+1.9}_{-1.9}$	θ_D	0.16216	$0.1629^{+0.0015}_{-0.0015}$
n^{CIB}	0.264	$0.24^{+0.27}_{-0.30}$	β_3^4	0.36	$-0.2^{+1.9}_{-1.9}$	z_{EQ}	3275	3259^{+120}_{-110}
$c_{100/143}$	1.00057	$1.00061^{+0.00080}_{-0.00078}$	β_4^4	0.01	$0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8379	$0.842^{+0.025}_{-0.023}$
$c_{217/143}$	0.99605	$0.9967^{+0.0026}_{-0.0025}$	β_5^4	-0.28	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07327	$0.0726^{+0.0020}_{-0.0022}$
$\xi^{tSZ-CIB}$	0.22	—	Ω_Λ	0.7173	$0.707^{+0.032}_{-0.039}$	$H(0.57)$	0.0003222	$0.000327^{+0.000013}_{-0.000013}$
A^{kSZ}	1.31	—	Ω_m	0.2827	$0.293^{+0.039}_{-0.032}$	$DA(0.57)$	1321	1309^{+63}_{-60}
β_1^1	0.40	$0.5^{+1.7}_{-1.6}$	σ_8	0.832	$0.821^{+0.056}_{-0.077}$			

Best-fit $\chi_{\text{eff}}^2 = 9804.72$; R-1 = 0.06983

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.07 commander_v3.light.clik: -10.18 CAMspec_v6.2TN_2013.01.18.clik: 7800.10 Hubble - HST: 0.74

8.5 base_nnu_meffsterile_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02239^{+0.00077}_{-0.00063}$	β_3^2	0.13	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9849	$0.983^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.1189	$0.1250^{+0.0097}_{-0.0081}$	β_4^2	-0.01	$0.3^{+1.9}_{-2.0}$	c_{SPT}^{220}	1.0142	$1.018^{+0.047}_{-0.044}$
θ	1.04148	$1.0407^{+0.0014}_{-0.0014}$	β_5^2	-0.12	$-0.3^{+2.0}_{-2.0}$	Ω_Λ	0.6964	$0.685^{+0.046}_{-0.051}$
τ	0.0954	$0.097^{+0.029}_{-0.028}$	β_1^3	0.53	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3036	$0.315^{+0.051}_{-0.046}$
$m_{\nu,s}^{eff}$	0.001	< 0.594	β_2^3	-0.29	$-0.5^{+2.0}_{-1.9}$	σ_8	0.829	$0.810^{+0.060}_{-0.076}$
N_{eff}	3.094	< 4.04	β_3^3	0.27	$0.2^{+2.0}_{-1.9}$	z_{re}	11.53	$11.8^{+2.3}_{-2.5}$
n_s	0.9649	$0.974^{+0.032}_{-0.024}$	β_4^3	-0.25	$-0.4^{+1.9}_{-1.9}$	H_0	68.3	$69.2^{+6.1}_{-4.1}$
$\log[10^{10} A_s]$	3.098	$3.115^{+0.061}_{-0.058}$	β_5^3	-0.31	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.216	$2.25^{+0.14}_{-0.13}$
A_{100}^{PS}	169	196^{+80}_{-80}	β_1^4	-0.02	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1418	$0.150^{+0.011}_{-0.0086}$
A_{143}^{PS}	75.0	82^{+20}_{-20}	β_2^4	-0.12	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0969	$0.104^{+0.014}_{-0.0078}$
A_{217}^{PS}	63.7	69^{+20}_{-20}	β_3^4	0.22	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.2484	$0.2536^{+0.0083}_{-0.0054}$
A_{143}^{CIB}	3.39	—	β_4^4	-0.05	$0.2^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8309	$1.857^{+0.041}_{-0.035}$
A_{217}^{CIB}	48.8	44^{+9}_{-8}	β_5^4	0.32	$0.3^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00065	< 0.00696
A_{143}^{tSZ}	5.72	—	$A_{\text{PS,ACT}}^{148}$	10.33	$10.6^{+1.3}_{-1.1}$	Age/Gyr	13.74	$13.45^{+0.37}_{-0.64}$
$r_{PS143/217}$	0.842	> 0.727	$A_{\text{PS,ACT}}^{218}$	80.3	$80.9^{+7.6}_{-7.6}$	z_*	1090.17	$1091.0^{+1.2}_{-1.1}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	6.72	$7.30^{+3.1}_{-2.6}$	r_*	144.57	$140.9^{+3.8}_{-5.1}$
n^{CIB}	0.527	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	9.96	$10.2^{+1.0}_{-0.97}$	θ_*	1.04159	$1.0406^{+0.0015}_{-0.0015}$
$c_{100/143}$	1.00065	$1.00063^{+0.00077}_{-0.00076}$	$A_{\text{PS,SPT}}^{220}$	75.5	$77.4^{+8.1}_{-7.9}$	z_{drag}	1059.63	$1060.8^{+2.5}_{-1.9}$
$c_{217/143}$	0.99976	$0.9994^{+0.0022}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.817	> 0.668	r_{drag}	147.29	$143.5^{+3.9}_{-5.4}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/220}$	0.587	$0.57^{+0.25}_{-0.22}$	k_D	0.14025	$0.1431^{+0.0042}_{-0.0031}$
A^{kSZ}	0.69	—	$r_{\text{PS}}^{150/220}$	0.9185	> 0.906	θ_D	0.16138	$0.1622^{+0.0015}_{-0.0011}$
β_1^1	0.75	$0.6^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.453	< 0.753	z_{EQ}	3352	3325^{+130}_{-130}
β_2^1	-0.06	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,e}}$	0.876	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8225	$0.829^{+0.028}_{-0.026}$
β_3^1	0.13	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9920	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07208	$0.0714^{+0.0026}_{-0.0025}$
β_4^1	0.18	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{217}	1.0031	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.0003119	$0.000318^{+0.000018}_{-0.000096}$
β_5^1	-0.07	$0.0^{+2.0}_{-1.9}$	c_{ACTe}^{148}	0.9880	$0.986^{+0.014}_{-0.014}$	$DA(0.57)$	1376	1355^{+60}_{-91}
β_1^2	-0.48	$-1.16^{+1.7}_{-1.7}$	c_{ACTe}^{217}	0.9609	$0.960^{+0.021}_{-0.020}$			
β_2^2	-0.05	$-0.3^{+2.0}_{-2.0}$	c_{SPT}^{95}	0.9883	$0.979^{+0.039}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10521.23$; R-1 = 0.04668

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.49 commander.v3.light.clik: -7.60 CAMspec.v6.2TN_2013_01_18.clik: 7819.51 actspt_2013_01.clik: 694.62

8.6 base_nnu_meffsterile_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02225	$0.02232^{+0.00068}_{-0.00060}$	β_3^2	0.17	$-0.1^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9847	$0.983^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.1218	$0.1247^{+0.0089}_{-0.0074}$	β_4^2	0.21	$0.3^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0166	$1.019^{+0.047}_{-0.045}$
θ	1.04110	$1.0407^{+0.0014}_{-0.0014}$	β_5^2	-0.22	$-0.3^{+2.1}_{-2.0}$	Ω_Λ	0.6928	$0.677^{+0.042}_{-0.048}$
τ	0.0930	$0.099^{+0.028}_{-0.027}$	β_1^3	0.97	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3072	$0.323^{+0.048}_{-0.042}$
$m_{\nu,s}^{eff}$	0.000	< 0.611	β_2^3	-0.50	$-0.5^{+2.0}_{-2.0}$	σ_8	0.070	$0.809^{+0.054}_{-0.070}$
N_{eff}	3.215	< 3.86	β_3^3	0.20	$0.2^{+2.0}_{-1.9}$	z_{re}	11.40	$12.0^{+2.2}_{-2.4}$
n_s	0.9664	$0.969^{+0.028}_{-0.020}$	β_4^3	-0.40	$-0.4^{+1.9}_{-2.0}$	H_0	68.64	$68.3^{+5.3}_{-3.4}$
$\log[10^{10} A_s]$	3.101	$3.119^{+0.058}_{-0.056}$	β_5^3	-0.60	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.222	$2.26^{+0.13}_{-0.12}$
A_{100}^{PS}	185	194^{+70}_{-80}	β_1^4	-0.14	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.1447	$0.150^{+0.011}_{-0.0082}$
A_{143}^{PS}	77.3	81^{+20}_{-20}	β_2^4	-0.26	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0994	$0.102^{+0.012}_{-0.0064}$
A_{217}^{PS}	64.1	68^{+20}_{-20}	β_3^4	-0.10	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.2500	$0.2526^{+0.0074}_{-0.0045}$
A_{143}^{CIB}	2.70	—	β_4^4	-0.11	$0.2^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8448	$1.857^{+0.038}_{-0.031}$
A_{217}^{CIB}	47.2	44^{+9}_{-8}	β_5^4	0.34	$0.3^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00065	< 0.00714
A_{143}^{tSZ}	4.01	—	$A_{\text{PS,ACT}}^{148}$	10.54	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.637	$13.54^{+0.30}_{-0.56}$
$r_{PS143/217}$	0.824	> 0.724	$A_{\text{PS,ACT}}^{218}$	80.7	$81.0^{+7.5}_{-7.6}$	z_*	1090.50	$1091.0^{+1.2}_{-1.1}$
r_{CIB}	0.9999	—	$A_{\text{PS,SPT}}^{95}$	7.70	$7.35^{+3.1}_{-2.6}$	r_*	143.21	$141.3^{+3.4}_{-4.7}$
n^{CIB}	0.519	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.19	$10.2^{+1.0}_{-0.95}$	θ_*	1.04113	$1.0407^{+0.0015}_{-0.0015}$
$c_{100/143}$	1.00064	$1.00065^{+0.00076}_{-0.00077}$	$A_{\text{PS,SPT}}^{220}$	76.9	$77.5^{+8.2}_{-8.1}$	z_{drag}	1060.01	$1060.6^{+2.1}_{-1.8}$
$c_{217/143}$	0.99919	$0.9994^{+0.0022}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.757	> 0.665	r_{drag}	145.89	$143.9^{+3.5}_{-4.9}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/220}$	0.502	$0.57^{+0.25}_{-0.22}$	k_D	0.14130	$0.1429^{+0.0038}_{-0.0029}$
A^{kSZ}	2.39	—	$r_{\text{PS}}^{150/220}$	0.9136	> 0.905	θ_D	0.16164	$0.1620^{+0.0014}_{-0.00099}$
β_1^1	0.77	$0.6^{+1.5}_{-1.5}$	$A_{\text{dust,s}}$	0.423	< 0.755	z_{EQ}	3367	3350^{+110}_{-120}
β_2^1	-0.26	$0.0^{+1.8}_{-1.8}$	$A_{\text{dust,e}}$	0.850	$0.86^{+0.39}_{-0.41}$	θ_{EQ}	0.8197	$0.824^{+0.024}_{-0.021}$
β_3^1	0.21	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9907	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07183	$0.0710^{+0.0023}_{-0.0023}$
β_4^1	0.00	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0035	$1.002^{+0.026}_{-0.026}$	$H(0.57)$	0.0003141	$0.000316^{+0.000015}_{-0.0000076}$
β_5^1	-0.01	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9872	$0.986^{+0.014}_{-0.014}$	$DA(0.57)$	1369	1369^{+49}_{-80}
β_1^2	-1.06	$-1.14^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9622	$0.960^{+0.020}_{-0.019}$			
β_2^2	-0.40	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9829	$0.979^{+0.039}_{-0.036}$			

Best-fit $\chi_{\text{eff}}^2 = 10528.73$; R-1 = 0.08998

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.38 lensing_likelihood.v3.ref.clik.lensing: 11.43 commander.v3.light.clik: -7.67 CAMspec.v6.2TN_2013_01_18.clik: 7818.07 actspt_2013_01.clik: 692.44

8.7 base_nnu_meffsterile_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02225	$0.02239^{+0.00057}_{-0.00056}$	β_3^2	0.00	$-0.1^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9833	$0.984^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.1219	$0.1235^{+0.0095}_{-0.0075}$	β_4^2	0.48	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0150	$1.019^{+0.047}_{-0.046}$
θ	1.04110	$1.0409^{+0.0013}_{-0.0013}$	β_5^2	-0.26	$-0.3^{+2.0}_{-2.0}$	Ω_Λ	0.6960	$0.693^{+0.022}_{-0.024}$
τ	0.0923	$0.097^{+0.027}_{-0.026}$	β_1^3	0.76	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3040	$0.307^{+0.024}_{-0.022}$
$m_{\nu,s}^{eff}$	0.000	< 0.394	β_2^3	-0.54	$-0.5^{+2.1}_{-2.0}$	σ_8	0.835	$0.815^{+0.049}_{-0.061}$
N_{eff}	3.251	< 3.89	β_3^3	0.26	$0.2^{+2.0}_{-1.9}$	z_{re}	11.36	$11.8^{+2.3}_{-2.4}$
n_s	0.9682	$0.974^{+0.022}_{-0.018}$	β_4^3	-0.49	$-0.4^{+1.8}_{-1.9}$	H_0	69.02	$69.5^{+3.5}_{-2.6}$
$\log[10^{10} A_s]$	3.099	$3.112^{+0.059}_{-0.056}$	β_5^3	-0.38	$-0.3^{+1.8}_{-2.0}$	$10^9 A_s$	2.219	$2.25^{+0.14}_{-0.12}$
A_{100}^{PS}	180	194^{+70}_{-80}	β_1^4	-0.30	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1448	$0.1481^{+0.0097}_{-0.0072}$
A_{143}^{PS}	77.4	81^{+20}_{-20}	β_2^4	-0.28	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0999	$0.103^{+0.011}_{-0.0070}$
A_{217}^{PS}	66.1	68^{+20}_{-20}	β_3^4	0.03	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2505	$0.2528^{+0.0070}_{-0.0048}$
A_{143}^{CIB}	2.74	—	β_4^4	0.25	$0.2^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8445	$1.851^{+0.041}_{-0.031}$
A_{217}^{CIB}	46.7	44^{+10}_{-9}	β_5^4	0.47	$0.3^{+1.8}_{-2.0}$	$\Omega_\nu h^2$	0.00065	< 0.00483
A_{143}^{tSZ}	4.21	—	$A_{\text{PS,ACT}}^{148}$	10.40	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.603	$13.48^{+0.33}_{-0.49}$
$r_{PS143/217}$	0.819	> 0.722	$A_{\text{PS,ACT}}^{218}$	80.3	$81.2^{+7.6}_{-7.8}$	z_*	1090.55	$1090.8^{+1.2}_{-1.0}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.37	$7.30^{+3.2}_{-2.5}$	r_*	143.02	$141.6^{+3.3}_{-4.8}$
n^{CIB}	0.517	$0.47^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	9.99	$10.2^{+1.0}_{-0.96}$	θ_*	1.04111	$1.0408^{+0.0015}_{-0.0016}$
$c_{100/143}$	1.00063	$1.00065^{+0.00078}_{-0.00077}$	$A_{\text{PS,SPT}}^{220}$	76.5	$77.6^{+8.1}_{-7.9}$	z_{drag}	1060.05	$1060.7^{+2.0}_{-1.8}$
$c_{217/143}$	0.99933	$0.9994^{+0.0022}_{-0.0022}$	$r_{\text{PS}}^{95/150}$	0.759	> 0.662	r_{drag}	145.71	$144.2^{+3.5}_{-4.9}$
$\xi^{tSZ-CIB}$	0.01	—	$r_{\text{PS}}^{95/220}$	0.510	$0.58^{+0.25}_{-0.22}$	k_D	0.14136	$0.1425^{+0.0037}_{-0.0028}$
A^{kSZ}	2.92	—	$r_{\text{PS}}^{150/220}$	0.9171	> 0.905	θ_D	0.16178	$0.1621^{+0.0014}_{-0.0011}$
β_1^1	0.72	$0.6^{+1.5}_{-1.6}$	$A_{\text{dust,s}}$	0.432	< 0.756	z_{EQ}	3353	3316^{+88}_{-99}
β_2^1	0.00	$0.0^{+1.9}_{-1.8}$	$A_{\text{dust,e}}$	0.845	$0.85^{+0.37}_{-0.39}$	θ_{EQ}	0.8222	$0.830^{+0.021}_{-0.017}$
β_3^1	0.08	$0.1^{+2.0}_{-2.1}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9907	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07202	$0.0718^{+0.0013}_{-0.0013}$
β_4^1	-0.05	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0009	$1.003^{+0.026}_{-0.026}$	$H(0.57)$	0.0003151	$0.000318^{+0.000013}_{-0.0000081}$
β_5^1	0.03	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9871	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1363	1353^{+42}_{-58}
β_1^2	-1.07	$-1.19^{+1.8}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9594	$0.961^{+0.020}_{-0.020}$			
β_2^2	-0.18	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9834	$0.980^{+0.039}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.80$; R-1 = 0.09184

χ_{eff}^2 : BAO - DR9: 0.51 DR7: 0.74 6DF: 0.16 CMB - lowlike.v22.light.clik: 2014.30 commander.v3.light.clik: -8.08 CAMspec.v6.2TN_2013.01_18.clik: 7817.46 actspt_2013.01.clik: 694.63

8.8 base_nnu_meffsterile_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02251	$0.02264^{+0.00061}_{-0.00058}$	β_3^2	-0.25	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9812	$0.982^{+0.020}_{-0.020}$
$\Omega_c h^2$	0.1232	$0.1267^{+0.0095}_{-0.0091}$	β_4^2	0.29	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0123	$1.017^{+0.047}_{-0.045}$
θ	1.04105	$1.0407^{+0.0014}_{-0.0013}$	β_5^2	-0.28	$-0.3^{+2.0}_{-1.9}$	Ω_Λ	0.7115	$0.706^{+0.030}_{-0.036}$
τ	0.0913	$0.102^{+0.030}_{-0.029}$	β_1^3	0.85	$0.9^{+1.8}_{-1.9}$	Ω_m	0.2885	$0.294^{+0.036}_{-0.030}$
$m_{\nu,s}^{eff}$	0.000	< 0.354	β_2^3	-0.60	$-0.5^{+2.0}_{-2.0}$	σ_8	0.836	$0.829^{+0.048}_{-0.065}$
N_{eff}	3.464	< 4.16	β_3^3	0.07	$0.2^{+2.0}_{-2.0}$	z_{re}	11.25	$12.2^{+2.4}_{-2.5}$
n_s	0.9793	$0.987^{+0.022}_{-0.023}$	β_4^3	-0.61	$-0.4^{+1.9}_{-2.0}$	H_0	71.23	$71.8^{+4.0}_{-4.0}$
$\log[10^{10} A_s]$	3.101	$3.128^{+0.058}_{-0.059}$	β_5^3	-0.35	$-0.3^{+1.9}_{-2.0}$	$10^9 A_s$	2.222	$2.28^{+0.14}_{-0.13}$
A_{100}^{PS}	185	195^{+80}_{-80}	β_1^4	-0.19	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1464	$0.151^{+0.010}_{-0.0093}$
A_{143}^{PS}	80.2	83^{+20}_{-20}	β_2^4	-0.48	$-0.3^{+2.0}_{-2.1}$	$\Omega_m h^3$	0.1043	$0.109^{+0.011}_{-0.010}$
A_{217}^{PS}	67.7	70^{+20}_{-20}	β_3^4	-0.14	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.2534	$0.2564^{+0.0068}_{-0.0068}$
A_{143}^{CIB}	2.89	—	β_4^4	0.28	$0.2^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8509	$1.864^{+0.041}_{-0.040}$
A_{217}^{CIB}	46.5	43^{+9}_{-9}	β_5^4	0.15	$0.3^{+1.8}_{-2.0}$	$\Omega_\nu h^2$	0.00065	< 0.00440
A_{143}^{tSZ}	4.16	—	$A_{\text{PS,ACT}}^{148}$	10.46	$10.6^{+1.3}_{-1.1}$	Age/Gyr	13.374	$13.21^{+0.48}_{-0.44}$
$r_{\text{PS}143/217}$	0.826	> 0.731	$A_{\text{PS,ACT}}^{218}$	80.1	$80.9^{+7.7}_{-7.8}$	z_*	1090.54	$1090.9^{+1.3}_{-1.2}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.18	$7.27^{+3.1}_{-2.5}$	r_*	141.49	$139.4^{+4.6}_{-4.6}$
n^{CIB}	0.505	$0.47^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	9.97	$10.1^{+1.0}_{-1.0}$	θ_*	1.04090	$1.0404^{+0.0016}_{-0.0015}$
$c_{100/143}$	1.00067	$1.00064^{+0.00077}_{-0.00075}$	$A_{\text{PS,SPT}}^{220}$	76.5	$77.4^{+8.3}_{-7.8}$	z_{drag}	1060.89	$1061.7^{+2.1}_{-1.9}$
$c_{217/143}$	0.99930	$0.9994^{+0.0022}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.779	> 0.664	r_{drag}	144.07	$141.9^{+4.8}_{-4.8}$
$\xi^{tSZ-CIB}$	0.05	—	$r_{\text{PS}}^{95/220}$	0.537	$0.57^{+0.25}_{-0.22}$	k_D	0.14253	$0.1442^{+0.0038}_{-0.0035}$
A^{kSZ}	3.11	—	$r_{\text{PS}}^{150/220}$	0.9177	> 0.905	θ_D	0.16216	$0.1627^{+0.0012}_{-0.0013}$
β_1^1	0.64	$0.6^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.405	< 0.746	z_{EQ}	3297	3277^{+110}_{-110}
β_2^1	-0.07	$-0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.842	$0.86^{+0.38}_{-0.38}$	θ_{EQ}	0.8334	$0.838^{+0.023}_{-0.021}$
β_3^1	-0.08	$0.1^{+1.9}_{-2.1}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9898	$0.989^{+0.015}_{-0.015}$	$r_s/D_v(0.57)$	0.07290	$0.0726^{+0.0019}_{-0.0020}$
β_4^1	-0.02	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	0.9994	$1.001^{+0.026}_{-0.025}$	$H(0.57)$	0.0003213	$0.000325^{+0.000012}_{-0.000012}$
β_5^1	-0.08	$-0.1^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9858	$0.985^{+0.015}_{-0.015}$	$DA(0.57)$	1329	1315^{+62}_{-58}
β_1^2	-1.12	$-1.19^{+1.8}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9584	$0.959^{+0.021}_{-0.021}$			
β_2^2	-0.28	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9798	$0.978^{+0.039}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10520.05$; R-1 = 0.08274

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.12 commander.v3.light.clik: -9.68 CAMspec.v6.2TN_2013_01_18.clik: 7818.78 actspt_2013_01.clik: 695.62 Hubble - HST: 1.17

9 nnu+mnu

9.1 base_nnu_mnu_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02221	$0.02230^{+0.00099}_{-0.00094}$	β_2^1	0.18	$0.1^{+1.9}_{-1.9}$	z_{re}	11.60	$11.7^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.1188	$0.125^{+0.011}_{-0.010}$	β_3^1	-0.10	$0.0^{+2.0}_{-2.0}$	H_0	68.8	69^{+9}_{-10}
θ	1.04144	$1.0407^{+0.0015}_{-0.0015}$	β_4^1	-0.20	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.24^{+0.16}_{-0.14}$
τ	0.0963	$0.095^{+0.030}_{-0.027}$	β_5^1	0.097	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.1412	$0.150^{+0.014}_{-0.012}$
Σm_ν	0.017	< 0.850	β_1^2	0.13	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.0971	$0.103^{+0.020}_{-0.016}$
N_{eff}	3.09	$3.47^{+0.91}_{-0.78}$	β_2^2	0.29	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.2484	$0.253^{+0.011}_{-0.011}$
n_s	0.9669	$0.975^{+0.039}_{-0.037}$	β_3^2	-0.31	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8309	$1.854^{+0.047}_{-0.049}$
$\log[10^{10} A_s]$	3.100	$3.110^{+0.069}_{-0.065}$	β_4^2	0.11	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00018	< 0.00914
A_{100}^{PS}	150	167^{+100}_{-100}	β_5^2	-0.14	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.72	$13.52^{+0.93}_{-0.91}$
A_{143}^{PS}	43	55^{+30}_{-30}	β_1^3	0.11	$0.0^{+1.9}_{-1.9}$	z_*	1090.16	$1091.0^{+1.5}_{-1.3}$
A_{217}^{PS}	122.0	117^{+30}_{-30}	β_2^3	-0.25	$-0.1^{+1.9}_{-1.9}$	r_*	144.6	$141.2^{+6.7}_{-6.7}$
A_{143}^{CIB}	9.21	—	β_3^3	-0.01	$0.0^{+2.0}_{-1.9}$	θ_*	1.04152	$1.0407^{+0.0018}_{-0.0018}$
A_{217}^{CIB}	23.4	24^{+10}_{-10}	β_4^3	-0.20	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.59	$1060.6^{+3.3}_{-3.1}$
A_{143}^{tSZ}	7.22	—	β_5^3	0.11	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.3	$143.9^{+7.0}_{-7.1}$
$r_{PS143/217}$	0.841	> 0.665	β_1^4	0.19	$-0.1^{+1.9}_{-1.9}$	k_D	0.1402	$0.1427^{+0.0054}_{-0.0050}$
r_{CIB}	0.511	—	β_2^4	-0.08	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16138	$0.1623^{+0.0019}_{-0.0017}$
n^{CIB}	0.286	$0.24^{+0.26}_{-0.30}$	β_3^4	0.11	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3350	3334^{+180}_{-180}
$c_{100/143}$	1.00063	$1.00060^{+0.00077}_{-0.00077}$	β_4^4	0.32	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8227	$0.827^{+0.037}_{-0.034}$
$c_{217/143}$	0.99621	$0.9967^{+0.0025}_{-0.0026}$	β_5^4	-0.02	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07236	$0.0712^{+0.0039}_{-0.0054}$
$\xi^{tSZ-CIB}$	0.03	—	Ω_Λ	0.701	$0.676^{+0.068}_{-0.13}$	$H(0.57)$	0.0003126	$0.000317^{+0.000026}_{-0.000024}$
A^{kSZ}	0.3	—	Ω_m	0.299	$0.324^{+0.13}_{-0.068}$	$DA(0.57)$	1371	1367^{+200}_{-100}
β_1^1	0.60	$0.6^{+1.7}_{-1.7}$	σ_8	0.841	$0.801^{+0.080}_{-0.15}$			

Best-fit $\chi_{\text{eff}}^2 = 9803.66$; R-1 = 0.02833

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.49 commander_v3.light.clik: -7.86 CAMspec_v6.2TN_2013_01_18.clik: 7797.03

9.2 base_nnu_mnu_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02232	$0.02219^{+0.00095}_{-0.00093}$	β_2^1	0.13	$0.1^{+1.9}_{-1.8}$	z_{re}	11.32	$11.9^{+2.4}_{-2.4}$
$\Omega_c h^2$	0.1209	$0.124^{+0.011}_{-0.010}$	β_3^1	-0.08	$0.0^{+2.0}_{-1.9}$	H_0	69.5	68^{+8}_{-10}
θ	1.04122	$1.0408^{+0.0016}_{-0.0016}$	β_4^1	-0.05	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.217	$2.25^{+0.15}_{-0.14}$
τ	0.0927	$0.097^{+0.030}_{-0.027}$	β_5^1	-0.04	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1432	$0.149^{+0.014}_{-0.012}$
Σm_ν	0.000	< 0.720	β_1^2	-0.03	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0995	$0.101^{+0.017}_{-0.015}$
N_{eff}	3.20	$3.32^{+0.82}_{-0.70}$	β_2^2	-0.12	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.2499	$0.251^{+0.011}_{-0.0097}$
n_s	0.9705	$0.968^{+0.035}_{-0.034}$	β_3^2	-0.14	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8419	$1.852^{+0.047}_{-0.047}$
$\log[10^{10} A_s]$	3.099	$3.113^{+0.067}_{-0.063}$	β_4^2	0.06	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00000	< 0.00774
A_{100}^{PS}	166	159^{+100}_{-100}	β_5^2	-0.19	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.61	$13.65^{+0.87}_{-0.83}$
A_{143}^{PS}	54.5	55^{+30}_{-30}	β_1^3	-0.098	$0.0^{+1.9}_{-1.9}$	z_*	1090.32	$1090.9^{+1.6}_{-1.3}$
A_{217}^{PS}	125.3	118^{+30}_{-30}	β_2^3	-0.15	$-0.1^{+1.9}_{-2.0}$	r_*	143.5	$142.2^{+6.2}_{-6.5}$
A_{143}^{CIB}	7.72	—	β_3^3	-0.17	$0.0^{+1.9}_{-1.9}$	θ_*	1.04123	$1.0408^{+0.0018}_{-0.0019}$
A_{217}^{CIB}	21.9	23^{+10}_{-10}	β_4^3	-0.17	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1060.09	$1060.1^{+3.2}_{-3.0}$
A_{143}^{tSZ}	4.97	—	β_5^3	-0.11	$-0.1^{+1.9}_{-2.0}$	r_{drag}	146.1	$144.9^{+6.4}_{-6.8}$
$r_{PS143/217}$	0.778	> 0.670	β_1^4	-0.06	$0.0^{+2.0}_{-2.0}$	k_D	0.14112	$0.1420^{+0.0052}_{-0.0047}$
r_{CIB}	0.465	—	β_2^4	-0.09	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16156	$0.1620^{+0.0017}_{-0.0016}$
n^{CIB}	0.252	$0.25^{+0.27}_{-0.30}$	β_3^4	-0.22	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3350	3376^{+180}_{-160}
$c_{100/143}$	1.00062	$1.00061^{+0.00078}_{-0.00076}$	β_4^4	0.04	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8229	$0.818^{+0.032}_{-0.033}$
$c_{217/143}$	0.99651	$0.9966^{+0.0025}_{-0.0026}$	β_5^4	0.03	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07243	$0.0708^{+0.0034}_{-0.0053}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.703	$0.669^{+0.063}_{-0.13}$	$H(0.57)$	0.0003154	$0.000314^{+0.000023}_{-0.000021}$
A^{kSZ}	0.1	—	Ω_m	0.297	$0.331^{+0.13}_{-0.063}$	$DA(0.57)$	1358	1384^{+200}_{-100}
β_1^1	0.52	$0.6^{+1.7}_{-1.7}$	σ_8	0.070	$0.811^{+0.068}_{-0.12}$			

Best-fit $\chi_{\text{eff}}^2 = 9813.83$; R-1 = 0.04891

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.22 lensing_likelihood_v3.ref.clik.lensing: 11.46 commander.v3.light.clik: -8.43 CAMspec.v6.2TN_2013_01_18.clik
7796.57

9.3 base_nnu_mnu_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02224	$0.02234^{+0.00062}_{-0.00059}$	β_2^1	0.00	$0.1^{+2.0}_{-1.9}$	z_{re}	11.33	$11.6^{+2.4}_{-2.3}$
$\Omega_c h^2$	0.1224	$0.124^{+0.011}_{-0.0099}$	β_3^1	-0.01	$0.0^{+2.0}_{-1.9}$	H_0	69.49	$69.6^{+3.9}_{-3.6}$
θ	1.04104	$1.0409^{+0.0015}_{-0.0015}$	β_4^1	0.02	$0.0^{+2.1}_{-2.0}$	$10^9 A_s$	2.219	$2.24^{+0.15}_{-0.13}$
τ	0.0920	$0.095^{+0.028}_{-0.026}$	β_5^1	-0.09	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1447	$0.148^{+0.012}_{-0.011}$
Σm_ν	0.006	< 0.364	β_1^2	0.07	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.1006	$0.103^{+0.013}_{-0.012}$
N_{eff}	3.27	$3.41^{+0.68}_{-0.60}$	β_2^2	-0.04	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.2507	$0.2525^{+0.0085}_{-0.0081}$
n_s	0.9695	$0.976^{+0.025}_{-0.022}$	β_3^2	-0.24	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8459	$1.850^{+0.046}_{-0.046}$
$\log[10^{10} A_s]$	3.099	$3.108^{+0.064}_{-0.061}$	β_4^2	0.01	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00007	< 0.00391
A_{100}^{PS}	166	163^{+100}_{-100}	β_5^2	0.05	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.56	$13.49^{+0.55}_{-0.56}$
A_{143}^{PS}	48	54^{+30}_{-30}	β_1^3	-0.06	$0.0^{+1.9}_{-1.9}$	z_*	1090.62	$1090.7^{+1.4}_{-1.2}$
A_{217}^{PS}	123.0	117^{+30}_{-30}	β_2^3	0.06	$-0.1^{+2.0}_{-2.0}$	r_*	142.8	$141.8^{+5.7}_{-5.6}$
A_{143}^{CIB}	9.80	—	β_3^3	-0.09	$0.0^{+2.0}_{-1.9}$	θ_*	1.04101	$1.0409^{+0.0017}_{-0.0017}$
A_{217}^{CIB}	23.7	23^{+10}_{-10}	β_4^3	-0.10	$-0.2^{+2.1}_{-2.0}$	z_{drag}	1060.05	$1060.5^{+2.4}_{-2.2}$
A_{143}^{tSZ}	7.00	—	β_5^3	0.02	$-0.1^{+1.9}_{-1.9}$	r_{drag}	145.5	$144.5^{+5.9}_{-5.9}$
$r_{PS143/217}$	0.782	> 0.663	β_1^4	0.09	$-0.1^{+2.0}_{-2.0}$	k_D	0.14149	$0.1422^{+0.0045}_{-0.0043}$
r_{CIB}	0.592	—	β_2^4	-0.19	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16183	$0.1622^{+0.0016}_{-0.0015}$
n^{CIB}	0.213	$0.25^{+0.27}_{-0.30}$	β_3^4	-0.09	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3357	3325^{+98}_{-110}
$c_{100/143}$	1.00059	$1.00059^{+0.00076}_{-0.00077}$	β_4^4	0.09	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8213	$0.828^{+0.022}_{-0.019}$
$c_{217/143}$	0.99657	$0.9966^{+0.0025}_{-0.0025}$	β_5^4	0.13	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07225	$0.0720^{+0.0013}_{-0.0013}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7003	$0.695^{+0.023}_{-0.025}$	$H(0.57)$	0.0003162	$0.000318^{+0.000014}_{-0.000013}$
A^{kSZ}	0.5	—	Ω_m	0.2997	$0.305^{+0.025}_{-0.023}$	$DA(0.57)$	1356	1352^{+64}_{-65}
β_1^1	0.50	$0.6^{+1.7}_{-1.7}$	σ_8	0.849	$0.825^{+0.051}_{-0.065}$			

Best-fit $\chi_{\text{eff}}^2 = 9803.51$; R-1 = 0.05244

χ_{eff}^2 : BAO - DR7: 0.40 6DF: 0.26 DR9: 0.83 CMB - lowlike.v22.light.clik: 2014.24 commander.v3.light.clik: -8.23 CAMspec.v6.2TN_2013_01_18.clik: 7796.03

9.4 base_nnu_mnu_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02252	$0.02266^{+0.00063}_{-0.00061}$	β_2^1	-0.08	$0.1^{+2.0}_{-1.9}$	z_{re}	11.01	$12.0^{+2.5}_{-2.3}$
$\Omega_c h^2$	0.1246	$0.127^{+0.011}_{-0.0094}$	β_3^1	0.11	$0.0^{+2.0}_{-2.0}$	H_0	72.23	$72.6^{+4.3}_{-4.2}$
θ	1.04096	$1.0406^{+0.0015}_{-0.0015}$	β_4^1	-0.09	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.214	$2.28^{+0.15}_{-0.13}$
τ	0.0883	$0.0997^{+0.030}_{-0.026}$	β_5^1	-0.06	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.1471	$0.151^{+0.012}_{-0.010}$
Σm_ν	0.000	< 0.381	β_1^2	0.05	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.1062	$0.110^{+0.012}_{-0.011}$
N_{eff}	3.55	$3.77^{+0.63}_{-0.56}$	β_2^2	0.01	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.2544	$0.2571^{+0.0076}_{-0.0072}$
n_s	0.9818	$0.990^{+0.023}_{-0.023}$	β_3^2	0.00	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8552	$1.865^{+0.040}_{-0.040}$
$\log[10^{10} A_s]$	3.097	$3.125^{+0.064}_{-0.058}$	β_4^2	0.16	$0.1^{+1.9}_{-1.9}$	$\Omega_\nu h^2$	0.00000	< 0.00410
A_{100}^{PS}	196	174^{+100}_{-100}	β_5^2	-0.06	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.273	$13.14^{+0.49}_{-0.49}$
A_{143}^{PS}	46	56^{+30}_{-30}	β_1^3	-0.17	$0.0^{+1.9}_{-1.9}$	z_*	1090.70	$1091.0^{+1.4}_{-1.3}$
A_{217}^{PS}	116.5	116^{+30}_{-30}	β_2^3	-0.17	$-0.1^{+2.0}_{-1.9}$	r_*	140.76	$139.1^{+4.9}_{-5.0}$
A_{143}^{CIB}	13.2	—	β_3^3	-0.05	$0.0^{+2.0}_{-2.0}$	θ_*	1.04073	$1.0403^{+0.0017}_{-0.0017}$
A_{217}^{CIB}	26.7	25^{+10}_{-10}	β_4^3	-0.02	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1061.08	$1061.8^{+2.1}_{-2.0}$
A_{143}^{tSZ}	4.94	—	β_5^3	-0.04	$-0.1^{+1.9}_{-1.9}$	r_{drag}	143.3	$141.6^{+5.1}_{-5.2}$
$r_{PS143/217}$	0.766	> 0.658	β_1^4	-0.08	$0.0^{+1.9}_{-1.9}$	k_D	0.14304	$0.1444^{+0.0040}_{-0.0038}$
r_{CIB}	0.586	—	β_2^4	-0.03	$0.0^{+2.0}_{-2.0}$	θ_D	0.16239	$0.1628^{+0.0015}_{-0.0014}$
n^{CIB}	0.262	$0.24^{+0.27}_{-0.28}$	β_3^4	-0.06	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3292	3267^{+120}_{-110}
$c_{100/143}$	1.00060	$1.00059^{+0.00079}_{-0.00079}$	β_4^4	-0.03	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8343	$0.840^{+0.023}_{-0.023}$
$c_{217/143}$	0.99661	$0.9967^{+0.0025}_{-0.0026}$	β_5^4	0.24	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07329	$0.0730^{+0.0020}_{-0.0022}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7180	$0.712^{+0.031}_{-0.037}$	$H(0.57)$	0.0003241	$0.000327^{+0.000014}_{-0.000013}$
A^{kSZ}	2.15	—	Ω_m	0.2820	$0.288^{+0.037}_{-0.031}$	$DA(0.57)$	1313	1304^{+64}_{-61}
β_1^1	0.29	$0.6^{+1.7}_{-1.7}$	σ_8	0.850	$0.839^{+0.049}_{-0.070}$			

Best-fit $\chi_{\text{eff}}^2 = 9802.81$; R-1 = 0.04705

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.06 commander.v3.light.clik: -9.95 CAMspec.v6.2TN_2013_01_18.clik: 7798.25 Hubble - HST: 0.45

9.5 base_nnu_mnu_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02221	$0.02229^{+0.00087}_{-0.00087}$	β_3^2	-0.04	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9843	$0.984^{+0.020}_{-0.019}$
$\Omega_c h^2$	0.1207	$0.1242^{+0.0096}_{-0.0090}$	β_4^2	0.14	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0077	$1.018^{+0.047}_{-0.044}$
θ	1.04127	$1.0408^{+0.0014}_{-0.0014}$	β_5^2	-0.24	$-0.4^{+2.0}_{-1.9}$	Ω_Λ	0.701	$0.683^{+0.058}_{-0.10}$
τ	0.0937	$0.096^{+0.033}_{-0.027}$	β_1^3	0.88	$0.8^{+1.8}_{-1.8}$	Ω_m	0.299	$0.317^{+0.10}_{-0.058}$
Σm_ν	0.000	< 0.623	β_2^3	-0.45	$-0.5^{+1.9}_{-1.9}$	σ_8	0.846	$0.815^{+0.068}_{-0.13}$
N_{eff}	3.18	$3.40^{+0.70}_{-0.66}$	β_3^3	0.16	$0.2^{+2.0}_{-1.9}$	z_{re}	11.43	$11.7^{+2.7}_{-2.4}$
n_s	0.9659	$0.972^{+0.033}_{-0.033}$	β_4^3	-0.42	$-0.4^{+1.9}_{-1.9}$	H_0	69.1	$68.8^{+7.4}_{-8.7}$
$\log[10^{10} A_s]$	3.099	$3.111^{+0.071}_{-0.059}$	β_5^3	-0.38	$-0.3^{+1.9}_{-2.0}$	$10^9 A_s$	2.218	$2.25^{+0.16}_{-0.13}$
A_{100}^{PS}	176	194^{+80}_{-80}	β_1^4	-0.12	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.1430	$0.149^{+0.010}_{-0.0094}$
A_{143}^{PS}	76.4	81^{+20}_{-20}	β_2^4	-0.31	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0988	$0.102^{+0.015}_{-0.014}$
A_{217}^{PS}	67.5	68^{+20}_{-20}	β_3^4	0.11	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.2495	$0.2524^{+0.0090}_{-0.0090}$
A_{143}^{CIB}	2.82	—	β_4^4	0.09	$0.2^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8389	$1.852^{+0.043}_{-0.044}$
A_{217}^{CIB}	45.0	44^{+9}_{-9}	β_5^4	0.19	$0.3^{+1.9}_{-2.0}$	$\Omega_\nu h^2$	0.00000	< 0.00669
A_{143}^{tSZ}	4.12	—	$A_{\text{PS,ACT}}^{148}$	10.52	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.64	$13.54^{+0.82}_{-0.73}$
$r_{PS143/217}$	0.803	> 0.723	$A_{\text{PS,ACT}}^{218}$	81.8	$81.1^{+7.8}_{-7.8}$	z_*	1090.42	$1090.9^{+1.3}_{-1.2}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.13	$7.35^{+3.1}_{-2.6}$	r_*	143.7	$141.7^{+5.7}_{-5.5}$
n^{CIB}	0.486	$0.47^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.15	$10.2^{+1.0}_{-0.96}$	θ_*	1.04129	$1.0408^{+0.0017}_{-0.0016}$
$c_{100/143}$	1.00060	$1.00062^{+0.00077}_{-0.00079}$	$A_{\text{PS,SPT}}^{220}$	76.9	$77.6^{+8.0}_{-7.9}$	z_{drag}	1059.78	$1060.4^{+2.8}_{-2.8}$
$c_{217/143}$	0.99938	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.784	> 0.667	r_{drag}	146.4	$144.4^{+6.0}_{-5.8}$
$\xi^{tSZ-CIB}$	0.05	—	$r_{\text{PS}}^{95/220}$	0.539	$0.57^{+0.24}_{-0.22}$	k_D	0.14085	$0.1423^{+0.0044}_{-0.0043}$
A^{kSZ}	3.16	—	$r_{\text{PS}}^{150/220}$	0.9194	> 0.906	θ_D	0.16162	$0.1621^{+0.0014}_{-0.0014}$
β_1^1	0.63	$0.6^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.438	< 0.762	z_{EQ}	3356	3343^{+170}_{-160}
β_2^1	0.01	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.857	$0.85^{+0.38}_{-0.39}$	θ_{EQ}	0.8214	$0.825^{+0.033}_{-0.031}$
β_3^1	0.17	$0.1^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9911	$0.990^{+0.015}_{-0.015}$	$r_s/D_v(0.57)$	0.07230	$0.0714^{+0.0033}_{-0.0044}$
β_4^1	0.17	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0032	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.0003144	$0.000317^{+0.000020}_{-0.000021}$
β_5^1	0.01	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9881	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1363	1365^{+140}_{-110}
β_1^2	-0.99	$-1.18^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9609	$0.961^{+0.021}_{-0.020}$			
β_2^2	-0.10	$-0.3^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9860	$0.979^{+0.040}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10518.34$; R-1 = 0.05798

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.32 commander.v3.light.clik: -7.54 CAMspec.v6.2TN_2013_01_18.clik: 7816.51 actspt_2013_01.clik: 694.93

9.6 base_nnu_mnu_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02234	$0.02221^{+0.00085}_{-0.00085}$	β_3^2	-0.09	$-0.1^{+2.0}_{-1.8}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9847	$0.985^{+0.020}_{-0.020}$
$\Omega_c h^2$	0.1215	$0.1237^{+0.0093}_{-0.0081}$	β_4^2	0.19	$0.5^{+2.0}_{-2.1}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.013	$1.025^{+0.076}_{-0.048}$
θ	1.04124	$1.0409^{+0.0016}_{-0.0014}$	β_5^2	-0.35	$-0.3^{+1.9}_{-2.0}$	Ω_Λ	0.704	$0.676^{+0.056}_{-0.10}$
τ	0.0939	$0.097^{+0.034}_{-0.025}$	β_1^3	0.83	$0.7^{+1.8}_{-1.8}$	Ω_m	0.296	$0.324^{+0.10}_{-0.056}$
Σm_ν	0.002	< 0.512	β_2^3	-0.33	$-0.6^{+1.9}_{-1.8}$	σ_8	0.071	$0.819^{+0.062}_{-0.092}$
N_{eff}	3.25	$3.31^{+0.70}_{-0.63}$	β_3^3	0.11	$0.0^{+2.1}_{-2.0}$	z_{re}	11.44	$11.8^{+2.7}_{-2.2}$
n_s	0.9691	$0.969^{+0.031}_{-0.034}$	β_4^3	-0.46	$-0.6^{+2.0}_{-1.8}$	H_0	69.7	$67.9^{+6.9}_{-8.4}$
$\log[10^{10} A_s]$	3.103	$3.112^{+0.071}_{-0.057}$	β_5^3	-0.32	$-0.1^{+2.1}_{-2.0}$	$10^9 A_s$	2.226	$2.25^{+0.17}_{-0.13}$
A_{100}^{PS}	178	187^{+80}_{-70}	β_1^4	-0.24	$-0.5^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.1439	$0.148^{+0.011}_{-0.0088}$
A_{143}^{PS}	77.2	78^{+20}_{-20}	β_2^4	-0.26	$-0.4^{+2.1}_{-2.0}$	$\Omega_m h^3$	0.1003	$0.101^{+0.015}_{-0.014}$
A_{217}^{PS}	65.2	68^{+20}_{-20}	β_3^4	0.05	$0.0^{+2.2}_{-2.2}$	Y_{He}	0.2505	$0.2511^{+0.0090}_{-0.0087}$
A_{143}^{CIB}	2.66	—	β_4^4	0.25	$0.2^{+1.8}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8443	$1.850^{+0.042}_{-0.042}$
A_{217}^{CIB}	46.5	44^{+9}_{-9}	β_5^4	0.28	$0.5^{+1.8}_{-2.0}$	$\Omega_\nu h^2$	0.00002	< 0.00550
A_{143}^{tSZ}	3.99	—	$A_{\text{PS,ACT}}^{148}$	10.57	$11.0^{+3.6}_{-1.5}$	Age/Gyr	13.57	$13.63^{+0.80}_{-0.71}$
$r_{PS143/217}$	0.817	> 0.727	$A_{\text{PS,ACT}}^{218}$	80.9	80^{+9}_{-10}	z_*	1090.38	$1090.8^{+1.3}_{-1.1}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.64	$7.66^{+3.2}_{-2.8}$	r_*	143.1	$142.4^{+5.6}_{-5.6}$
n^{CIB}	0.513	$0.52^{+0.33}_{-0.18}$	$A_{\text{PS,SPT}}^{150}$	10.24	$10.4^{+1.2}_{-1.0}$	θ_*	1.04121	$1.0409^{+0.0018}_{-0.0016}$
$c_{100/143}$	1.00063	$1.00058^{+0.00081}_{-0.00073}$	$A_{\text{PS,SPT}}^{220}$	76.9	$78.0^{+8.6}_{-8.2}$	z_{drag}	1060.20	$1060.1^{+2.8}_{-2.8}$
$c_{217/143}$	0.99934	$0.9991^{+0.0022}_{-0.0024}$	$r_{\text{PS}}^{95/150}$	0.758	> 0.632	r_{drag}	145.7	$145.1^{+5.9}_{-5.9}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/220}$	0.501	$0.53^{+0.27}_{-0.32}$	k_D	0.14141	$0.1419^{+0.0045}_{-0.0042}$
A^{kSZ}	2.45	—	$r_{\text{PS}}^{150/220}$	0.9144	> 0.905	θ_D	0.16167	$0.1619^{+0.0014}_{-0.0013}$
β_1^1	0.66	$0.6^{+1.7}_{-1.6}$	$A_{\text{dust,s}}$	0.437	< 0.746	z_{EQ}	3348	3371^{+170}_{-150}
β_2^1	0.01	$0.0^{+1.8}_{-1.8}$	$A_{\text{dust,e}}$	0.833	$0.85^{+0.40}_{-0.39}$	θ_{EQ}	0.8234	$0.819^{+0.030}_{-0.031}$
β_3^1	0.097	$0.1^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9913	$0.992^{+0.021}_{-0.016}$	$r_s/D_v(0.57)$	0.07247	$0.0711^{+0.0031}_{-0.0044}$
β_4^1	0.05	$-0.1^{+2.0}_{-1.8}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0033	$1.001^{+0.028}_{-0.026}$	$H(0.57)$	0.0003163	$0.000314^{+0.000019}_{-0.000020}$
β_5^1	-0.02	$0.1^{+2.2}_{-2.0}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9874	$0.988^{+0.020}_{-0.016}$	$DA(0.57)$	1353	1378^{+140}_{-110}
β_1^2	-1.08	$-1.28^{+1.8}_{-1.6}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9612	$0.960^{+0.021}_{-0.020}$			
β_2^2	-0.07	$-0.1^{+2.3}_{-2.1}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9826	$0.981^{+0.040}_{-0.036}$			

Best-fit $\chi_{\text{eff}}^2 = 10528.14$; R-1 = 0.70785

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.30 lensing_likelihood.v3.ref.clik.lensing: 11.47 commander.v3.light.clik: -7.94 CAMspec.v6.2TN_2013_01_18.clik
7817.44 actspt_2013_01.clik: 692.81

9.7 base_nnu_mnu_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02234^{+0.00053}_{-0.00053}$	β_3^2	-0.03	$-0.3^{+2.1}_{-1.7}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9838	$0.986^{+0.019}_{-0.020}$
$\Omega_c h^2$	0.1220	$0.1223^{+0.0096}_{-0.0068}$	β_4^2	0.42	$0.8^{+1.8}_{-2.5}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.015	$1.035^{+0.088}_{-0.057}$
θ	1.04117	$1.0411^{+0.0013}_{-0.0014}$	β_5^2	-0.41	$-0.2^{+1.8}_{-1.9}$	Ω_Λ	0.6994	$0.696^{+0.022}_{-0.025}$
τ	0.0929	$0.096^{+0.028}_{-0.025}$	β_1^3	0.92	$0.4^{+2.0}_{-1.5}$	Ω_m	0.3006	$0.304^{+0.025}_{-0.022}$
Σm_ν	0.003	< 0.408	β_2^3	-0.54	$-0.8^{+2.0}_{-1.7}$	σ_8	0.850	$0.817^{+0.056}_{-0.069}$
N_{eff}	3.235	$3.36^{+0.53}_{-0.39}$	β_3^3	0.07	$-0.2^{+2.2}_{-1.6}$	z_{re}	11.40	$11.6^{+2.4}_{-2.1}$
n_s	0.9671	$0.978^{+0.024}_{-0.024}$	β_4^3	-0.56	$-0.7^{+2.1}_{-1.7}$	H_0	69.29	$69.4^{+3.3}_{-3.0}$
$\log[10^{10} A_s]$	3.101	$3.106^{+0.061}_{-0.057}$	β_5^3	-0.35	$0.0^{+2.0}_{-2.1}$	$10^9 A_s$	2.222	$2.23^{+0.14}_{-0.13}$
A_{100}^{PS}	182	182^{+90}_{-60}	β_1^4	-0.23	$-0.6^{+2.1}_{-1.7}$	$\Omega_m h^2$	0.1443	$0.1464^{+0.0099}_{-0.0074}$
A_{143}^{PS}	78.3	77^{+20}_{-10}	β_2^4	-0.16	$-0.6^{+2.1}_{-2.1}$	$\Omega_m h^3$	0.09998	$0.102^{+0.011}_{-0.0077}$
A_{217}^{PS}	65.8	68^{+20}_{-20}	β_3^4	0.09	$0.2^{+2.2}_{-2.2}$	Y_{He}	0.2503	$0.2519^{+0.0068}_{-0.0053}$
A_{143}^{CIB}	2.66	—	β_4^4	0.35	$0.4^{+1.6}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8449	$1.845^{+0.043}_{-0.035}$
A_{217}^{CIB}	46.4	45^{+10}_{-10}	β_5^4	0.34	$0.7^{+1.6}_{-2.2}$	$\Omega_\nu h^2$	0.00004	< 0.00439
A_{143}^{tSZ}	3.91	—	$A_{\text{PS,ACT}}^{148}$	10.45	$11.6^{+3.1}_{-2.0}$	Age/Gyr	13.593	$13.53^{+0.39}_{-0.48}$
$r_{PS143/217}$	0.818	> 0.732	$A_{\text{PS,ACT}}^{218}$	80.3	78^{+10}_{-10}	z_*	1090.58	$1090.6^{+1.2}_{-0.90}$
r_{CIB}	1.00	—	$A_{\text{PS,SPT}}^{95}$	7.38	$7.97^{+3.4}_{-3.1}$	r_*	143.09	$142.3^{+3.8}_{-4.8}$
n^{CIB}	0.514	$0.58^{+0.30}_{-0.24}$	$A_{\text{PS,SPT}}^{150}$	10.07	$10.5^{+1.2}_{-1.2}$	θ_*	1.04116	$1.0411^{+0.0015}_{-0.0016}$
$c_{100/143}$	1.00062	$1.00052^{+0.00084}_{-0.00064}$	$A_{\text{PS,SPT}}^{220}$	76.7	$78.4^{+8.5}_{-8.1}$	z_{drag}	1059.97	$1060.4^{+1.9}_{-1.8}$
$c_{217/143}$	0.99924	$0.9987^{+0.0026}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.760	> 0.604	r_{drag}	145.79	$145.0^{+4.0}_{-4.9}$
$\xi^{tSZ-CIB}$	0.026	—	$r_{\text{PS}}^{95/220}$	0.509	$0.47^{+0.33}_{-0.31}$	k_D	0.14130	$0.1418^{+0.0038}_{-0.0031}$
A^{kSZ}	3.31	—	$r_{\text{PS}}^{150/220}$	0.9185	> 0.908	θ_D	0.16177	$0.1620^{+0.0013}_{-0.00099}$
β_1^1	0.69	$0.6^{+1.6}_{-1.4}$	$A_{\text{dust,s}}$	0.433	< 0.737	z_{EQ}	3362	3316^{+100}_{-130}
β_2^1	-0.11	$0.0^{+1.7}_{-1.7}$	$A_{\text{dust,e}}$	0.838	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8204	$0.830^{+0.027}_{-0.019}$
β_3^1	-0.03	$0.1^{+1.8}_{-1.8}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9908	$0.995^{+0.022}_{-0.018}$	$r_s/D_v(0.57)$	0.07221	$0.0720^{+0.0013}_{-0.0013}$
β_4^1	-0.20	$-0.3^{+2.1}_{-1.5}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0007	$0.999^{+0.029}_{-0.026}$	$H(0.57)$	0.0003155	$0.000317^{+0.000012}_{-0.0000095}$
β_5^1	0.06	$0.5^{+3.1}_{-2.3}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9872	$0.991^{+0.020}_{-0.018}$	$DA(0.57)$	1359	1356^{+51}_{-55}
β_1^2	-1.08	$-1.35^{+1.8}_{-1.6}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9594	$0.958^{+0.023}_{-0.020}$			
β_2^2	-0.01	$0.1^{+2.4}_{-2.3}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9828	$0.981^{+0.038}_{-0.036}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.33$; R-1 = 1.52555

χ_{eff}^2 : BAO - DR9: 0.77 DR7: 0.45 6DF: 0.21 CMB - lowlike.v22.light.clik: 2014.30 commander.v3.light.clik: -7.68 CAMspec.v6.2TN_2013.01_18.clik: 7817.07 actspt_2013.01.clik: 694.16

9.8 base_nnu_mnu_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02245	$0.02263^{+0.00061}_{-0.00058}$	β_3^2	-0.17	$-0.2^{+2.1}_{-1.8}$	c_{SPT}^{150}	0.9818	$0.985^{+0.021}_{-0.021}$
$\Omega_c h^2$	0.1225	$0.1247^{+0.0098}_{-0.0084}$	β_4^2	0.17	$0.6^{+2.0}_{-2.3}$	c_{SPT}^{220}	1.012	$1.029^{+0.097}_{-0.054}$
θ	1.04117	$1.0410^{+0.0014}_{-0.0014}$	β_5^2	-0.39	$-0.3^{+2.0}_{-1.9}$	Ω_Λ	0.7134	$0.713^{+0.030}_{-0.034}$
τ	0.0916	$0.102^{+0.031}_{-0.026}$	β_1^3	0.85	$0.6^{+2.0}_{-1.6}$	Ω_m	0.2866	$0.287^{+0.034}_{-0.030}$
Σm_ν	0.002	< 0.351	β_2^3	-0.49	$-0.7^{+2.0}_{-1.8}$	σ_8	0.848	$0.837^{+0.051}_{-0.075}$
N_{eff}	3.39	$3.61^{+0.54}_{-0.47}$	β_3^3	0.02	$0.0^{+2.0}_{-1.8}$	z_{re}	11.25	$12.1^{+2.5}_{-2.3}$
n_s	0.9760	$0.988^{+0.022}_{-0.022}$	β_4^3	-0.45	$-0.7^{+2.0}_{-1.9}$	H_0	71.13	$72.0^{+4.2}_{-3.7}$
$\log[10^{10} A_s]$	3.100	$3.124^{+0.066}_{-0.058}$	β_5^3	-0.13	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.27^{+0.15}_{-0.13}$
A_{100}^{PS}	183	187^{+90}_{-70}	β_1^4	-0.17	$-0.5^{+2.1}_{-1.8}$	$\Omega_m h^2$	0.1450	$0.149^{+0.010}_{-0.0087}$
A_{143}^{PS}	79.5	80^{+20}_{-20}	β_2^4	-0.40	$-0.5^{+2.1}_{-2.1}$	$\Omega_m h^3$	0.1031	$0.107^{+0.011}_{-0.0094}$
A_{217}^{PS}	68.5	69^{+20}_{-20}	β_3^4	-0.38	$0.0^{+2.1}_{-2.0}$	Y_{He}	0.2524	$0.2552^{+0.0066}_{-0.0062}$
A_{143}^{CIB}	2.79	—	β_4^4	0.13	$0.3^{+1.8}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8481	$1.856^{+0.043}_{-0.040}$
A_{217}^{CIB}	45.8	45^{+10}_{-10}	β_5^4	0.16	$0.5^{+1.9}_{-2.1}$	$\Omega_\nu h^2$	0.00002	< 0.00377
A_{143}^{tSZ}	4.18	—	$A_{\text{PS,ACT}}^{148}$	10.39	$11.2^{+3.4}_{-1.7}$	Age/Gyr	13.418	$13.26^{+0.43}_{-0.47}$
$r_{\text{PS143}/217}$	0.817	> 0.730	$A_{\text{PS,ACT}}^{218}$	81.3	79^{+9}_{-10}	z_*	1090.47	$1090.6^{+1.4}_{-1.1}$
r_{CIB}	0.9998	—	$A_{\text{PS,SPT}}^{95}$	7.30	$7.68^{+3.5}_{-2.9}$	r_*	142.06	$140.4^{+4.3}_{-4.6}$
n^{CIB}	0.495	$0.53^{+0.37}_{-0.21}$	$A_{\text{PS,SPT}}^{150}$	9.99	$10.4^{+1.4}_{-1.1}$	θ_*	1.04104	$1.0407^{+0.0016}_{-0.0016}$
$c_{100/143}$	1.00064	$1.00054^{+0.00083}_{-0.00067}$	$A_{\text{PS,SPT}}^{220}$	76.8	$78.0^{+8.3}_{-7.8}$	z_{drag}	1060.66	$1061.4^{+2.0}_{-1.9}$
$c_{217/143}$	0.99929	$0.9991^{+0.0023}_{-0.0023}$	$r_{\text{PS}}^{95/150}$	0.764	> 0.617	r_{drag}	144.67	$142.9^{+4.4}_{-4.7}$
$\xi^{tSZ-CIB}$	0.01	—	$r_{\text{PS}}^{95/220}$	0.513	$0.52^{+0.29}_{-0.33}$	k_D	0.14210	$0.1434^{+0.0038}_{-0.0034}$
A^{kSZ}	2.91	—	$r_{\text{PS}}^{150/220}$	0.9167	> 0.908	θ_D	0.16201	$0.1625^{+0.0013}_{-0.0010}$
β_1^1	0.67	$0.6^{+1.6}_{-1.5}$	$A_{\text{dust,s}}$	0.440	< 0.757	z_{EQ}	3311	3272^{+120}_{-120}
β_2^1	-0.11	$0.0^{+1.8}_{-1.7}$	$A_{\text{dust,e}}$	0.813	$0.85^{+0.38}_{-0.39}$	θ_{EQ}	0.8306	$0.839^{+0.024}_{-0.023}$
β_3^1	0.24	$0.1^{+1.9}_{-2.0}$	c_{ACTs}^{148}	0.9898	$0.992^{+0.022}_{-0.016}$	$r_s/D_v(0.57)$	0.07302	$0.0730^{+0.0020}_{-0.0020}$
β_4^1	0.03	$-0.2^{+2.1}_{-1.7}$	c_{ACTs}^{217}	1.0020	$1.000^{+0.028}_{-0.026}$	$H(0.57)$	0.0003203	$0.000324^{+0.000013}_{-0.000011}$
β_5^1	0.05	$0.3^{+3.3}_{-2.2}$	c_{ACTe}^{148}	0.9858	$0.988^{+0.021}_{-0.016}$	$DA(0.57)$	1331	1316^{+56}_{-60}
β_1^2	-1.08	$-1.29^{+1.9}_{-1.6}$	c_{ACTe}^{217}	0.9602	$0.959^{+0.021}_{-0.020}$			
β_2^2	-0.50	$-0.1^{+2.3}_{-2.0}$	c_{SPT}^{95}	0.9815	$0.980^{+0.043}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.38$; R-1 = 0.87546

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.09 commander.v3.light.clik: -9.13 CAMspec.v6.2TN_2013.01.18.clik: 7817.56 actspt_2013.01.clik: 695.55 Hubble - HST: 1.27

10 nnu+yhe

10.1 base_nnu_yhe_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02240	$0.02251^{+0.00087}_{-0.00078}$	β_2^1	-0.13	$0.1^{+1.9}_{-1.8}$	z_{re}	11.39	$11.8^{+2.7}_{-2.5}$
$\Omega_c h^2$	0.1209	$0.120^{+0.022}_{-0.016}$	β_3^1	0.09	$0.0^{+2.0}_{-1.9}$	H_0	69.4	70^{+10}_{-8}
θ	1.04186	$1.0425^{+0.0046}_{-0.0053}$	β_4^1	0.11	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.25^{+0.17}_{-0.15}$
τ	0.0920	$0.097^{+0.033}_{-0.028}$	β_5^1	0.00	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1439	$0.144^{+0.023}_{-0.017}$
N_{eff}	3.21	$3.22^{+1.6}_{-1.1}$	β_1^2	0.27	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.0998	$0.100^{+0.030}_{-0.021}$
Y_P	0.271	$0.279^{+0.068}_{-0.089}$	β_2^2	0.02	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.271	$0.279^{+0.068}_{-0.089}$
n_s	0.9757	$0.981^{+0.035}_{-0.034}$	β_3^2	-0.14	$-0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.847	$1.848^{+0.056}_{-0.057}$
$\log[10^{10} A_s]$	3.100	$3.111^{+0.073}_{-0.067}$	β_4^2	-0.15	$0.1^{+1.9}_{-1.9}$	Age/Gyr	13.60	$13.6^{+1.1}_{-1.3}$
A_{100}^{PS}	174	166^{+100}_{-100}	β_5^2	-0.08	$-0.2^{+1.9}_{-2.0}$	z_*	1091.09	$1091.3^{+2.0}_{-1.9}$
A_{143}^{PS}	39	58^{+30}_{-30}	β_1^3	-0.14	$0.0^{+1.9}_{-1.9}$	r_*	143.3	144^{+10}_{-12}
A_{217}^{PS}	118.6	118^{+30}_{-30}	β_2^3	0.01	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04132	$1.0416^{+0.0033}_{-0.0036}$
A_{143}^{CIB}	14.0	—	β_3^3	-0.01	$0.0^{+2.0}_{-2.0}$	z_{drag}	1061.00	$1061.5^{+3.3}_{-3.0}$
A_{217}^{CIB}	27.5	24^{+10}_{-10}	β_4^3	-0.07	$-0.2^{+1.9}_{-1.9}$	r_{drag}	145.9	146^{+11}_{-12}
A_{143}^{tSZ}	8.41	—	β_5^3	0.04	$-0.1^{+1.9}_{-1.9}$	k_D	0.1405	$0.140^{+0.012}_{-0.0094}$
$r_{PS143/217}$	0.817	> 0.667	β_1^4	0.14	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16249	$0.1628^{+0.0022}_{-0.0020}$
r_{CIB}	0.664	—	β_2^4	-0.03	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3347	3348^{+210}_{-200}
n^{CIB}	0.232	$0.25^{+0.26}_{-0.30}$	β_3^4	-0.06	$-0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8242	$0.825^{+0.039}_{-0.037}$
$c_{100/143}$	1.00063	$1.00061^{+0.00077}_{-0.00079}$	β_4^4	-0.01	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07230	$0.0725^{+0.0028}_{-0.0025}$
$c_{217/143}$	0.99657	$0.9967^{+0.0026}_{-0.0026}$	β_5^4	0.01	$0.1^{+1.9}_{-2.0}$	$H(0.57)$	0.0003155	$0.000316^{+0.000033}_{-0.000026}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7009	$0.703^{+0.045}_{-0.050}$	$DA(0.57)$	1359	1358^{+140}_{-150}
A^{kSZ}	0.3	—	Ω_m	0.2991	$0.297^{+0.050}_{-0.045}$			
β_1^1	0.48	$0.5^{+1.6}_{-1.6}$	σ_8	0.8356	$0.840^{+0.050}_{-0.045}$			

Best-fit $\chi_{\text{eff}}^2 = 9801.54$; R-1 = 0.04961

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.26 commander_v3.light.clik: -9.38 CAMspec_v6.2TN_2013_01_18.clik: 7796.66

10.2 base_nnu_yhe_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02241	$0.02241^{+0.00081}_{-0.00073}$	β_2^1	-0.09	$0.1^{+1.9}_{-1.8}$	z_{re}	11.51	$11.9^{+2.6}_{-2.5}$
$\Omega_c h^2$	0.1193	$0.118^{+0.021}_{-0.015}$	β_3^1	0.04	$0.0^{+2.0}_{-2.0}$	H_0	68.3	68^{+9}_{-7}
θ	1.04254	$1.0429^{+0.0044}_{-0.0050}$	β_4^1	-0.02	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s$	2.223	$2.24^{+0.16}_{-0.14}$
τ	0.0929	$0.098^{+0.032}_{-0.028}$	β_5^1	-0.05	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1424	$0.141^{+0.021}_{-0.015}$
N_{eff}	3.05	$2.99^{+1.5}_{-1.1}$	β_1^2	0.05	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.0972	$0.096^{+0.028}_{-0.019}$
Y_P	0.284	$0.283^{+0.066}_{-0.080}$	β_2^2	-0.09	$0.0^{+1.9}_{-2.0}$	Y_{He}	0.284	$0.283^{+0.066}_{-0.080}$
n_s	0.9739	$0.974^{+0.034}_{-0.031}$	β_3^2	-0.06	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.846	$1.841^{+0.056}_{-0.055}$
$\log[10^{10} A_s]$	3.101	$3.109^{+0.069}_{-0.066}$	β_4^2	-0.03	$0.1^{+2.0}_{-1.9}$	Age/Gyr	13.73	$13.8^{+1.0}_{-1.2}$
A_{100}^{PS}	167	159^{+100}_{-100}	β_5^2	-0.20	$-0.2^{+1.9}_{-1.9}$	z_*	1091.44	$1091.3^{+1.9}_{-1.8}$
A_{143}^{PS}	39	58^{+30}_{-30}	β_1^3	0.04	$0.0^{+1.9}_{-1.9}$	r_*	144.4	$145.3^{+9.8}_{-12}$
A_{217}^{PS}	116.2	120^{+30}_{-30}	β_2^3	-0.096	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04169	$1.0421^{+0.0031}_{-0.0035}$
A_{143}^{CIB}	13.0	—	β_3^3	-0.07	$0.0^{+2.0}_{-2.0}$	z_{drag}	1061.31	$1061.2^{+3.1}_{-2.9}$
A_{217}^{CIB}	27.7	23^{+10}_{-10}	β_4^3	-0.07	$-0.2^{+2.0}_{-2.0}$	r_{drag}	147.1	148^{+10}_{-12}
A_{143}^{tSZ}	9.74	—	β_5^3	-0.08	$-0.1^{+1.9}_{-1.8}$	k_D	0.1393	$0.139^{+0.011}_{-0.0086}$
$r_{PS143/217}$	0.778	> 0.672	β_1^4	0.07	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16270	$0.1625^{+0.0020}_{-0.0019}$
r_{CIB}	0.728	—	β_2^4	0.01	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3383	3387^{+180}_{-190}
n^{CIB}	0.171	$0.25^{+0.26}_{-0.29}$	β_3^4	-0.18	$-0.1^{+2.0}_{-2.1}$	θ_{EQ}	0.8181	$0.818^{+0.037}_{-0.031}$
$c_{100/143}$	1.00058	$1.00063^{+0.00077}_{-0.00080}$	β_4^4	-0.03	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07195	$0.0720^{+0.0025}_{-0.0021}$
$c_{217/143}$	0.99688	$0.9967^{+0.0025}_{-0.0025}$	β_5^4	0.04	$0.1^{+1.9}_{-1.9}$	$H(0.57)$	0.0003120	$0.000311^{+0.000032}_{-0.000024}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6945	$0.694^{+0.043}_{-0.043}$	$DA(0.57)$	1377	1386^{+130}_{-150}
A^{kSZ}	0.95	—	Ω_m	0.3055	$0.306^{+0.043}_{-0.043}$			
β_1^1	0.37	$0.6^{+1.6}_{-1.6}$	σ_8	0.0696	$0.837^{+0.048}_{-0.042}$			

Best-fit $\chi_{\text{eff}}^2 = 9812.58$; R-1 = 0.05277

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.37 lensing_likelihood_v3.ref.clik.lensing: 11.83 commander_v3.light.clik: -9.15 CAMspec_v6.2TN_2013_01_18.clik
7795.54

10.3 base_nnu_yhe_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02237	$0.02243^{+0.00061}_{-0.00060}$	β_2^1	0.10	$0.1^{+1.9}_{-1.8}$	z_{re}	11.32	$11.7^{+2.4}_{-2.3}$
$\Omega_c h^2$	0.1205	$0.118^{+0.016}_{-0.013}$	β_3^1	0.05	$0.0^{+2.1}_{-2.0}$	H_0	68.82	$68.3^{+5.0}_{-4.3}$
θ	1.04210	$1.0430^{+0.0039}_{-0.0040}$	β_4^1	0.05	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s$	2.218	$2.23^{+0.14}_{-0.12}$
τ	0.0909	$0.096^{+0.029}_{-0.026}$	β_5^1	-0.10	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1435	$0.141^{+0.016}_{-0.013}$
N_{eff}	3.15	$3.01^{+0.98}_{-0.80}$	β_1^2	-0.09	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^3$	0.0988	$0.096^{+0.018}_{-0.014}$
Y_P	0.275	$0.286^{+0.062}_{-0.067}$	β_2^2	-0.16	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.275	$0.286^{+0.062}_{-0.067}$
n_s	0.9755	$0.977^{+0.023}_{-0.021}$	β_3^2	-0.08	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8491	$1.842^{+0.049}_{-0.048}$
$\log[10^{10} A_s]$	3.099	$3.105^{+0.062}_{-0.056}$	β_4^2	-0.09	$0.1^{+2.0}_{-2.0}$	Age/Gyr	13.65	$13.78^{+0.74}_{-0.80}$
A_{100}^{PS}	180	164^{+100}_{-100}	β_5^2	-0.06	$-0.2^{+1.9}_{-2.0}$	z_*	1091.26	$1091.4^{+1.9}_{-1.8}$
A_{143}^{PS}	55.0	58^{+30}_{-30}	β_1^3	0.05	$0.0^{+1.9}_{-1.9}$	r_*	143.7	$145.1^{+7.5}_{-8.2}$
A_{217}^{PS}	123.5	119^{+30}_{-30}	β_2^3	0.01	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04147	$1.0420^{+0.0026}_{-0.0029}$
A_{143}^{CIB}	9.81	—	β_3^3	-0.02	$0.0^{+2.0}_{-2.0}$	z_{drag}	1061.00	$1061.3^{+2.7}_{-2.7}$
A_{217}^{CIB}	24.4	24^{+10}_{-10}	β_4^3	-0.01	$-0.2^{+1.9}_{-1.9}$	r_{drag}	146.4	$147.8^{+7.7}_{-8.4}$
A_{143}^{tSZ}	5.57	—	β_5^3	-0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.1401	$0.1387^{+0.0081}_{-0.0070}$
$r_{PS143/217}$	0.766	> 0.669	β_1^4	0.01	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16257	$0.1627^{+0.0020}_{-0.0019}$
r_{CIB}	0.576	—	β_2^4	-0.12	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3365	3375^{+100}_{-110}
n^{CIB}	0.222	$0.25^{+0.26}_{-0.29}$	β_3^4	-0.17	$-0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8209	$0.820^{+0.018}_{-0.018}$
$c_{100/143}$	1.00060	$1.00062^{+0.00077}_{-0.00078}$	β_4^4	-0.07	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07209	$0.0722^{+0.0013}_{-0.0012}$
$c_{217/143}$	0.99668	$0.9967^{+0.0025}_{-0.0025}$	β_5^4	0.00	$0.1^{+2.0}_{-2.0}$	$H(0.57)$	0.0003139	$0.000311^{+0.000019}_{-0.000017}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6971	$0.697^{+0.022}_{-0.023}$	$DA(0.57)$	1367	1379^{+83}_{-88}
A^{kSZ}	1.81	—	Ω_m	0.3029	$0.303^{+0.023}_{-0.022}$			
β_1^1	0.45	$0.5^{+1.6}_{-1.6}$	σ_8	0.8361	$0.835^{+0.042}_{-0.038}$			

Best-fit $\chi_{\text{eff}}^2 = 9802.81$; R-1 = 0.04513

χ_{eff}^2 : BAO - DR7: 0.62 6DF: 0.12 DR9: 0.60 CMB - lowlike.v22.light.clik: 2014.27 commander.v3.light.clik: -9.40 CAMspec.v6.2TN_2013_01_18.clik: 7796.59

10.4 base_nnu_yhe_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02265	$0.02271^{+0.00074}_{-0.00070}$	β_2^1	0.00	$0.1^{+1.8}_{-1.8}$	z_{re}	11.33	$12.0^{+2.5}_{-2.5}$
$\Omega_c h^2$	0.1222	$0.126^{+0.017}_{-0.013}$	β_3^1	-0.26	$0.0^{+2.0}_{-2.0}$	H_0	71.61	$72.9^{+4.5}_{-4.3}$
θ	1.04207	$1.0413^{+0.0037}_{-0.0039}$	β_4^1	0.09	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.226	$2.28^{+0.14}_{-0.13}$
τ	0.0910	$0.0998^{+0.031}_{-0.029}$	β_5^1	0.01	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1455	$0.149^{+0.017}_{-0.013}$
N_{eff}	3.42	$3.67^{+0.92}_{-0.77}$	β_1^2	-0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.1042	$0.109^{+0.017}_{-0.014}$
Y_P	0.280	$0.266^{+0.062}_{-0.075}$	β_2^2	-0.16	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.280	$0.266^{+0.062}_{-0.075}$
n_s	0.9878	$0.992^{+0.026}_{-0.025}$	β_3^2	-0.37	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8555	$1.865^{+0.044}_{-0.042}$
$\log[10^{10} A_s]$	3.103	$3.125^{+0.062}_{-0.058}$	β_4^2	0.13	$0.1^{+2.0}_{-1.9}$	Age/Gyr	13.37	$13.18^{+0.62}_{-0.62}$
A_{100}^{PS}	204	171^{+100}_{-100}	β_5^2	-0.15	$-0.1^{+2.0}_{-2.0}$	z_*	1091.38	$1091.1^{+1.8}_{-1.8}$
A_{143}^{PS}	47	58^{+30}_{-30}	β_1^3	0.10	$0.1^{+1.9}_{-1.9}$	r_*	141.7	$139.9^{+6.5}_{-7.2}$
A_{217}^{PS}	115.2	117^{+30}_{-30}	β_2^3	0.10	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04118	$1.0407^{+0.0024}_{-0.0026}$
A_{143}^{CIB}	14.4	—	β_3^3	-0.09	$0.0^{+2.0}_{-2.0}$	z_{drag}	1062.07	$1062.1^{+3.1}_{-3.1}$
A_{217}^{CIB}	28.8	25^{+10}_{-10}	β_4^3	-0.24	$-0.2^{+1.9}_{-1.9}$	r_{drag}	144.3	$142.4^{+6.6}_{-7.2}$
A_{143}^{tSZ}	6.46	—	β_5^3	-0.13	$-0.1^{+2.0}_{-1.9}$	k_D	0.1414	$0.1435^{+0.0078}_{-0.0065}$
$r_{PS143/217}$	0.739	> 0.655	β_1^4	0.13	$0.0^{+1.9}_{-1.9}$	θ_D	0.16321	$0.1630^{+0.0020}_{-0.0020}$
r_{CIB}	0.686	—	β_2^4	-0.19	$-0.1^{+2.0}_{-2.1}$	z_{EQ}	3294	3276^{+120}_{-110}
n^{CIB}	0.203	$0.24^{+0.28}_{-0.30}$	β_3^4	-0.26	$-0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8352	$0.839^{+0.023}_{-0.023}$
$c_{100/143}$	1.00057	$1.00060^{+0.00077}_{-0.00077}$	β_4^4	0.28	$0.0^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07322	$0.0734^{+0.0019}_{-0.0019}$
$c_{217/143}$	0.99689	$0.9968^{+0.0026}_{-0.0025}$	β_5^4	0.09	$0.1^{+2.0}_{-2.0}$	$H(0.57)$	0.0003218	$0.000327^{+0.000017}_{-0.000015}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7163	$0.719^{+0.028}_{-0.030}$	$DA(0.57)$	1324	1303^{+72}_{-69}
A^{kSZ}	2.27	—	Ω_m	0.2837	$0.281^{+0.030}_{-0.028}$			
β_1^1	0.29	$0.5^{+1.7}_{-1.7}$	σ_8	0.8378	$0.852^{+0.041}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 9802.64$; R-1 = 0.05733

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.12 commander_v3.light.clik: -10.64 CAMspec_v6.2TN_2013.01.18.clik: 7798.31 Hubble - HST: 0.86

10.5 base_nnu_yhe_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.02240^{+0.00083}_{-0.00079}$	β_2^2	0.18	$-0.3^{+2.0}_{-1.9}$	\mathbf{C}_{ACTe}^{217}	0.9587	$0.960^{+0.021}_{-0.020}$
$\Omega_c h^2$	0.1196	$0.122^{+0.021}_{-0.017}$	β_3^2	0.18	$0.0^{+2.0}_{-1.9}$	\mathbf{C}_{SPT}^{95}	0.9819	$0.979^{+0.040}_{-0.037}$
θ	1.04146	$1.0416^{+0.0042}_{-0.0047}$	β_4^2	0.14	$0.3^{+2.0}_{-1.9}$	\mathbf{C}_{SPT}^{150}	0.9833	$0.984^{+0.021}_{-0.020}$
τ	0.0945	$0.095^{+0.031}_{-0.028}$	β_5^2	-0.47	$-0.4^{+1.9}_{-2.0}$	\mathbf{C}_{SPT}^{220}	1.0271	$1.018^{+0.048}_{-0.044}$
N_{eff}	3.04	$3.29^{+1.5}_{-1.2}$	β_1^3	0.51	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6874	$0.699^{+0.043}_{-0.052}$
Y_P	0.254	$0.263^{+0.061}_{-0.077}$	β_2^3	-0.57	$-0.5^{+1.9}_{-1.9}$	Ω_m	0.3126	$0.301^{+0.052}_{-0.043}$
n_s	0.9619	$0.974^{+0.034}_{-0.035}$	β_3^3	-0.15	$0.2^{+1.9}_{-2.0}$	σ_8	0.8323	$0.840^{+0.048}_{-0.046}$
$\log[10^{10} A_s]$	3.099	$3.107^{+0.070}_{-0.067}$	β_4^3	-0.33	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.53	$11.6^{+2.6}_{-2.4}$
A_{100}^{PS}	172	192^{+80}_{-80}	β_5^3	-0.13	$-0.3^{+1.9}_{-1.9}$	H_0	67.5	70^{+9}_{-8}
A_{143}^{PS}	77.9	81^{+20}_{-20}	β_1^4	-0.17	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.218	$2.24^{+0.16}_{-0.15}$
A_{217}^{PS}	62.5	68^{+20}_{-20}	β_2^4	0.11	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1424	$0.145^{+0.021}_{-0.017}$
A_{143}^{CIB}	3.53	—	β_3^4	0.17	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0961	$0.101^{+0.028}_{-0.021}$
A_{217}^{CIB}	50.4	44^{+9}_{-9}	β_4^4	0.00	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.254	$0.263^{+0.061}_{-0.077}$
A_{143}^{tSZ}	5.63	—	β_5^4	0.18	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.836	$1.848^{+0.052}_{-0.059}$
$r_{PS143/217}$	0.853	> 0.722	$A_{PS,ACT}^{148}$	10.31	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.80	$13.6^{+1.2}_{-1.2}$
r_{CIB}	1.000	—	$A_{PS,ACT}^{218}$	78.7	$81.0^{+7.7}_{-7.8}$	z_*	1090.54	$1090.9^{+1.6}_{-1.5}$
n^{CIB}	0.545	$0.48^{+0.13}_{-0.14}$	$A_{PS,SPT}^{95}$	6.90	$7.41^{+3.1}_{-2.6}$	r_*	144.7	143^{+11}_{-11}
$c_{100/143}$	1.00068	$1.00062^{+0.00078}_{-0.00079}$	$A_{PS,SPT}^{150}$	9.86	$10.2^{+1.0}_{-0.97}$	θ_*	1.04144	$1.0413^{+0.0032}_{-0.0033}$
$c_{217/143}$	0.99986	$0.9994^{+0.0021}_{-0.0021}$	$A_{PS,SPT}^{220}$	75.6	$77.5^{+8.1}_{-7.9}$	z_{drag}	1059.67	$1060.8^{+2.8}_{-2.8}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{PS}^{95/150}$	0.818	> 0.666	r_{drag}	147.4	146^{+11}_{-11}
A^{kSZ}	0.56	—	$r_{PS}^{95/220}$	0.577	$0.57^{+0.25}_{-0.21}$	k_D	0.1400	$0.141^{+0.011}_{-0.0092}$
β_1^1	0.62	$0.6^{+1.6}_{-1.6}$	$r_{PS}^{150/220}$	0.9130	> 0.905	θ_D	0.16155	$0.1623^{+0.0016}_{-0.0016}$
β_2^1	0.04	$-0.1^{+1.9}_{-1.9}$	$A_{dust,s}$	0.398	< 0.758	z_{EQ}	3387	3352^{+210}_{-190}
β_3^1	0.14	$0.1^{+1.9}_{-2.0}$	$A_{dust,e}$	0.884	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8158	$0.824^{+0.036}_{-0.037}$
β_4^1	-0.02	$0.0^{+2.0}_{-2.0}$	\mathbf{C}_{ACTs}^{148}	0.9894	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07156	$0.0723^{+0.0026}_{-0.0026}$
β_5^1	-0.05	$-0.1^{+1.9}_{-2.0}$	\mathbf{C}_{ACTs}^{217}	1.0015	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.0003101	$0.000317^{+0.000031}_{-0.000027}$
β_1^2	-0.55	$-1.15^{+1.7}_{-1.7}$	\mathbf{C}_{ACTe}^{148}	0.9873	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1389	1358^{+140}_{-140}

Best-fit $\chi_{eff}^2 = 10521.39$; R-1 = 0.03817

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.55 commander.v3.light.clik: -6.95 CAMspec.v6.2TN_2013_01_18.clik: 7819.36 actspt_2013_01.clik: 694.25

10.6 base_nnu_yhe_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02233^{+0.00080}_{-0.00074}$	β_2^2	-0.24	$-0.3^{+2.0}_{-1.9}$	\mathbf{C}_{ACTe}^{217}	0.9599	$0.961^{+0.021}_{-0.020}$
$\Omega_c h^2$	0.1216	$0.120^{+0.021}_{-0.016}$	β_3^2	0.23	$0.0^{+1.9}_{-1.9}$	\mathbf{C}_{SPT}^{95}	0.9826	$0.979^{+0.040}_{-0.037}$
θ	1.04115	$1.0421^{+0.0042}_{-0.0048}$	β_4^2	0.29	$0.3^{+2.0}_{-2.0}$	\mathbf{C}_{SPT}^{150}	0.9842	$0.984^{+0.021}_{-0.020}$
τ	0.0910	$0.096^{+0.031}_{-0.027}$	β_5^2	-0.22	$-0.4^{+1.9}_{-2.0}$	\mathbf{C}_{SPT}^{220}	1.0160	$1.019^{+0.048}_{-0.043}$
N_{eff}	3.17	$3.10^{+1.5}_{-1.1}$	β_1^3	0.87	$0.8^{+1.9}_{-1.8}$	Ω_Λ	0.6889	$0.691^{+0.043}_{-0.047}$
Y_P	0.253	$0.267^{+0.060}_{-0.075}$	β_2^3	-0.64	$-0.5^{+2.0}_{-1.9}$	Ω_m	0.3111	$0.309^{+0.047}_{-0.043}$
n_s	0.9649	$0.968^{+0.033}_{-0.034}$	β_3^3	0.15	$0.2^{+2.0}_{-2.0}$	σ_8	0.0692	$0.837^{+0.047}_{-0.043}$
$\log[10^{10} A_s]$	3.097	$3.105^{+0.070}_{-0.066}$	β_4^3	-0.50	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.26	$11.7^{+2.6}_{-2.4}$
A_{100}^{PS}	183	191^{+80}_{-80}	β_5^3	-0.40	$-0.3^{+1.9}_{-2.0}$	H_0	68.1	68^{+9}_{-7}
A_{143}^{PS}	78.3	80^{+20}_{-20}	β_1^4	-0.07	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.214	$2.23^{+0.16}_{-0.15}$
A_{217}^{PS}	67.2	68^{+20}_{-20}	β_2^4	-0.19	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1445	$0.143^{+0.021}_{-0.016}$
A_{143}^{CIB}	2.97	—	β_3^4	0.04	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0985	$0.098^{+0.028}_{-0.020}$
A_{217}^{CIB}	46.5	44^{+9}_{-8}	β_4^4	-0.12	$0.2^{+2.0}_{-2.0}$	Y_{He}	0.253	$0.267^{+0.060}_{-0.075}$
A_{143}^{tSZ}	4.46	—	β_5^4	0.38	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.845	$1.841^{+0.054}_{-0.058}$
$r_{PS143/217}$	0.809	> 0.723	$A_{PS,ACT}^{148}$	10.60	$10.6^{+1.1}_{-1.1}$	Age/Gyr	13.69	$13.7^{+1.1}_{-1.2}$
r_{CIB}	1.000	—	$A_{PS,ACT}^{218}$	81.2	$81.0^{+7.6}_{-8.2}$	z_*	1090.65	$1090.9^{+1.6}_{-1.5}$
n^{CIB}	0.503	$0.48^{+0.13}_{-0.14}$	$A_{PS,SPT}^{95}$	7.31	$7.46^{+3.2}_{-2.6}$	r_*	143.5	144^{+10}_{-11}
$c_{100/143}$	1.00064	$1.00062^{+0.00079}_{-0.00078}$	$A_{PS,SPT}^{150}$	10.16	$10.2^{+1.0}_{-0.99}$	θ_*	1.04113	$1.0416^{+0.0032}_{-0.0034}$
$c_{217/143}$	0.99943	$0.9994^{+0.0020}_{-0.0021}$	$A_{PS,SPT}^{220}$	77.3	$77.5^{+8.2}_{-8.1}$	z_{drag}	1059.93	$1060.6^{+2.8}_{-2.7}$
$\xi^{tSZ-CIB}$	0.01	—	$r_{PS}^{95/150}$	0.787	> 0.665	r_{drag}	146.2	147^{+11}_{-12}
A^{kSZ}	1.71	—	$r_{PS}^{95/220}$	0.529	$0.56^{+0.25}_{-0.22}$	k_D	0.1409	$0.140^{+0.011}_{-0.0091}$
β_1^1	0.83	$0.6^{+1.6}_{-1.6}$	$r_{PS}^{150/220}$	0.9105	> 0.903	θ_D	0.16172	$0.1621^{+0.0016}_{-0.0016}$
β_2^1	0.05	$-0.1^{+1.9}_{-1.9}$	$A_{dust,s}$	0.425	< 0.764	z_{EQ}	3381	3385^{+190}_{-190}
β_3^1	0.10	$0.1^{+1.9}_{-2.0}$	$A_{dust,e}$	0.830	$0.84^{+0.40}_{-0.38}$	θ_{EQ}	0.8169	$0.818^{+0.035}_{-0.033}$
β_4^1	0.19	$0.0^{+2.0}_{-2.0}$	\mathbf{C}_{ACTs}^{148}	0.9913	$0.991^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07162	$0.0718^{+0.0024}_{-0.0023}$
β_5^1	0.24	$0.0^{+2.0}_{-2.0}$	\mathbf{C}_{ACTs}^{217}	1.0025	$1.003^{+0.026}_{-0.027}$	$H(0.57)$	0.0003128	$0.000312^{+0.000032}_{-0.000025}$
β_1^2	-0.84	$-1.16^{+1.8}_{-1.7}$	\mathbf{C}_{ACTe}^{148}	0.9873	$0.987^{+0.015}_{-0.014}$	$DA(0.57)$	1376	1381^{+140}_{-150}

Best-fit $\chi_{eff}^2 = 10528.96$; R-1 = 0.05240

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.32 lensing_likelihood_v3.ref.clik.lensing: 11.44 commander_v3.light.clik: -7.50 CAMspec_v6.2TN_2013_01_18.clik: 7816.95 actspt_2013_01.clik: 693.71

10.7 base_nnu_yhe_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02229	$0.02237^{+0.00059}_{-0.00061}$	β_2^2	-0.20	$-0.3^{+1.9}_{-1.8}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9592	$0.960^{+0.020}_{-0.020}$
$\Omega_c h^2$	0.1211	$0.120^{+0.017}_{-0.014}$	β_3^2	0.15	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9808	$0.979^{+0.039}_{-0.037}$
θ	1.04149	$1.0421^{+0.0037}_{-0.0041}$	β_4^2	0.32	$0.3^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9818	$0.984^{+0.021}_{-0.020}$
τ	0.0927	$0.094^{+0.029}_{-0.026}$	β_5^2	-0.46	$-0.4^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0125	$1.019^{+0.049}_{-0.044}$
N_{eff}	3.20	$3.13^{+1.0}_{-0.83}$	β_1^3	0.81	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6969	$0.697^{+0.022}_{-0.023}$
Y_P	0.259	$0.269^{+0.057}_{-0.065}$	β_2^3	-0.44	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.3031	$0.303^{+0.023}_{-0.022}$
n_s	0.9705	$0.972^{+0.021}_{-0.021}$	β_3^3	0.12	$0.2^{+2.0}_{-2.0}$	σ_8	0.8351	$0.835^{+0.041}_{-0.040}$
$\log[10^{10} A_s]$	3.100	$3.103^{+0.060}_{-0.058}$	β_4^3	-0.36	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.41	$11.5^{+2.4}_{-2.3}$
A_{100}^{PS}	184	192^{+80}_{-80}	β_5^3	-0.34	$-0.3^{+1.9}_{-2.0}$	H_0	68.93	$68.7^{+5.1}_{-4.6}$
A_{143}^{PS}	80.1	81^{+20}_{-20}	β_1^4	-0.31	$-0.4^{+2.0}_{-1.9}$	$10^9 A_s$	2.220	$2.23^{+0.14}_{-0.13}$
A_{217}^{PS}	67.9	68^{+20}_{-20}	β_2^4	-0.07	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1440	$0.143^{+0.017}_{-0.014}$
A_{143}^{CIB}	2.73	—	β_3^4	-0.08	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0993	$0.098^{+0.018}_{-0.015}$
A_{217}^{CIB}	46.0	44^{+9}_{-8}	β_4^4	0.11	$0.2^{+2.0}_{-2.0}$	Y_{He}	0.259	$0.269^{+0.057}_{-0.065}$
A_{143}^{tSZ}	3.98	—	β_5^4	0.38	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8443	$1.843^{+0.048}_{-0.051}$
$r_{PS143/217}$	0.820	> 0.723	$A_{\text{PS,ACT}}^{148}$	10.41	$10.6^{+1.1}_{-1.1}$	Age/Gyr	13.63	$13.69^{+0.78}_{-0.80}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.4	$80.9^{+7.5}_{-8.1}$	z_*	1090.76	$1091.0^{+1.4}_{-1.4}$
n^{CIB}	0.504	$0.48^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.26	$7.40^{+3.0}_{-2.6}$	r_*	143.4	$144.1^{+7.8}_{-8.4}$
$c_{100/143}$	1.00062	$1.00062^{+0.00076}_{-0.00079}$	$A_{\text{PS,SPT}}^{150}$	9.97	$10.2^{+1.0}_{-0.97}$	θ_*	1.04128	$1.0416^{+0.0027}_{-0.0028}$
$c_{217/143}$	0.99931	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.6	$77.5^{+8.3}_{-8.0}$	z_{drag}	1060.35	$1060.8^{+2.5}_{-2.5}$
$\xi^{tSZ-CIB}$	0.03	—	$r_{\text{PS}}^{95/150}$	0.764	> 0.667	r_{drag}	146.1	$146.8^{+8.0}_{-8.5}$
A^{kSZ}	3.38	—	$r_{\text{PS}}^{95/220}$	0.516	$0.57^{+0.25}_{-0.22}$	k_D	0.1408	$0.1401^{+0.0084}_{-0.0071}$
β_1^1	0.69	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9186	> 0.903	θ_D	0.16203	$0.1623^{+0.0015}_{-0.0015}$
β_2^1	-0.02	$0.0^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.425	< 0.759	z_{EQ}	3355	3366^{+100}_{-110}
β_3^1	0.09	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.835	$0.85^{+0.41}_{-0.37}$	θ_{EQ}	0.8221	$0.821^{+0.019}_{-0.018}$
β_4^1	0.04	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9899	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07207	$0.0721^{+0.0013}_{-0.0012}$
β_5^1	-0.01	$-0.1^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0001	$1.002^{+0.026}_{-0.026}$	$H(0.57)$	0.0003144	$0.000313^{+0.000020}_{-0.000017}$
β_1^2	-1.05	$-1.18^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9862	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1365	1371^{+88}_{-90}

Best-fit $\chi_{\text{eff}}^2 = 10519.40$; R-1 = 0.05304

χ_{eff}^2 : BAO - DR9: 0.57 DR7: 0.65 6DF: 0.14 CMB - lowlike.v22.light.clik: 2014.33 commander.v3.light.clik: -8.53 CAMspec.v6.2TN_2013.01.18.clik: 7816.81 actspt_2013.01.clik: 695.38

10.8 base_nnu_yhe_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02253	$0.02259^{+0.00074}_{-0.00068}$	β_2^2	-0.34	$-0.3^{+1.9}_{-1.9}$	$\mathbf{C}_{\text{ACTe}}^{217}$	0.9577	$0.960^{+0.020}_{-0.021}$
$\Omega_c h^2$	0.1240	$0.128^{+0.015}_{-0.014}$	β_3^2	0.07	$0.0^{+2.0}_{-2.0}$	$\mathbf{C}_{\text{SPT}}^{95}$	0.9799	$0.979^{+0.040}_{-0.037}$
θ	1.04098	$1.0403^{+0.0036}_{-0.0036}$	β_4^2	0.37	$0.3^{+2.0}_{-2.0}$	$\mathbf{C}_{\text{SPT}}^{150}$	0.9804	$0.984^{+0.021}_{-0.020}$
τ	0.0901	$0.099^{+0.029}_{-0.028}$	β_5^2	-0.57	$-0.4^{+2.0}_{-2.0}$	$\mathbf{C}_{\text{SPT}}^{220}$	1.0102	$1.018^{+0.047}_{-0.043}$
N_{eff}	3.51	$3.78^{+0.83}_{-0.78}$	β_1^3	0.72	$0.8^{+1.9}_{-2.0}$	Ω_Λ	0.7120	$0.715^{+0.027}_{-0.029}$
Y_P	0.255	$0.247^{+0.060}_{-0.065}$	β_2^3	-0.46	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.2880	$0.285^{+0.029}_{-0.027}$
n_s	0.9810	$0.985^{+0.025}_{-0.023}$	β_3^3	0.16	$0.2^{+1.9}_{-2.0}$	σ_8	0.8377	$0.853^{+0.036}_{-0.036}$
$\log[10^{10} A_s]$	3.100	$3.124^{+0.060}_{-0.057}$	β_4^3	-0.39	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.17	$11.9^{+2.3}_{-2.4}$
A_{100}^{PS}	188	197^{+80}_{-80}	β_5^3	-0.49	$-0.3^{+1.9}_{-1.9}$	H_0	71.47	$72.9^{+4.4}_{-4.2}$
A_{143}^{PS}	81.6	81^{+20}_{-20}	β_1^4	-0.40	$-0.3^{+2.0}_{-2.0}$	$10^9 A_s$	2.221	$2.27^{+0.14}_{-0.13}$
A_{217}^{PS}	69.7	69^{+20}_{-20}	β_2^4	-0.11	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1471	$0.151^{+0.014}_{-0.014}$
A_{143}^{CIB}	2.87	—	β_3^4	-0.24	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1052	$0.110^{+0.015}_{-0.014}$
A_{217}^{CIB}	45.8	44^{+9}_{-8}	β_4^4	0.18	$0.2^{+2.0}_{-1.9}$	Y_{He}	0.255	$0.247^{+0.060}_{-0.065}$
A_{143}^{tSZ}	4.11	—	β_5^4	0.38	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8544	$1.865^{+0.039}_{-0.040}$
$r_{PS143/217}$	0.819	> 0.723	$A_{\text{PS,ACT}}^{148}$	10.38	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.34	$13.13^{+0.61}_{-0.59}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.6	$81.1^{+7.7}_{-7.8}$	z_*	1090.65	$1090.7^{+1.5}_{-1.4}$
n^{CIB}	0.497	$0.48^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.13	$7.42^{+3.1}_{-2.7}$	r_*	141.1	$139.0^{+6.6}_{-6.4}$
$c_{100/143}$	1.00063	$1.00064^{+0.00080}_{-0.00082}$	$A_{\text{PS,SPT}}^{150}$	9.96	$10.19^{+0.99}_{-0.95}$	θ_*	1.04078	$1.0403^{+0.0024}_{-0.0022}$
$c_{217/143}$	0.99930	$0.9994^{+0.0020}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.2	$77.4^{+7.7}_{-7.8}$	z_{drag}	1061.08	$1061.3^{+2.8}_{-2.7}$
$\xi^{tSZ-CIB}$	0.05	—	$r_{\text{PS}}^{95/150}$	0.779	> 0.664	r_{drag}	143.7	$141.6^{+6.7}_{-6.5}$
A^{kSZ}	3.26	—	$r_{\text{PS}}^{95/220}$	0.537	$0.56^{+0.24}_{-0.21}$	k_D	0.1428	$0.1448^{+0.0071}_{-0.0066}$
β_1^1	0.69	$0.7^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9199	> 0.905	θ_D	0.16230	$0.1624^{+0.0016}_{-0.0016}$
β_2^1	-0.02	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.451	< 0.768	z_{EQ}	3296	3277^{+110}_{-100}
β_3^1	-0.04	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.862	$0.85^{+0.40}_{-0.36}$	θ_{EQ}	0.8337	$0.837^{+0.022}_{-0.021}$
β_4^1	0.14	$0.0^{+2.0}_{-2.0}$	$\mathbf{C}_{\text{ACTs}}^{148}$	0.9894	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07292	$0.0731^{+0.0019}_{-0.0017}$
β_5^1	-0.03	$-0.1^{+2.0}_{-2.0}$	$\mathbf{C}_{\text{ACTs}}^{217}$	1.0004	$1.002^{+0.027}_{-0.025}$	$H(0.57)$	0.0003222	$0.000328^{+0.000016}_{-0.000015}$
β_1^2	-1.12	$-1.13^{+1.7}_{-1.7}$	$\mathbf{C}_{\text{ACTe}}^{148}$	0.9854	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1324	1301^{+70}_{-67}

Best-fit $\chi_{\text{eff}}^2 = 10519.88$; R-1 = 0.06416

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.11 commander.v3.light.clik: -9.89 CAMspec.v6.2TN_2013.01_18.clik: 7818.25 actspt_2013.01.clik: 696.30 Hubble - HST: 0.96

11 nrun

11.1 base_nrun_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.02225^{+0.00061}_{-0.00060}$	β_2^1	0.15	$0.1^{+1.9}_{-1.9}$	σ_8	0.8287	$0.832^{+0.028}_{-0.027}$
$\Omega_c h^2$	0.1196	$0.1199^{+0.0055}_{-0.0053}$	β_3^1	-0.07	$0.0^{+1.9}_{-2.0}$	z_{re}	11.43	$11.7^{+2.5}_{-2.4}$
θ	1.04135	$1.0414^{+0.0013}_{-0.0013}$	β_4^1	0.00	$0.0^{+2.0}_{-2.0}$	H_0	67.48	$67.5^{+2.5}_{-2.4}$
τ	0.0940	$0.098^{+0.032}_{-0.028}$	β_5^1	0.11	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.213	$2.24^{+0.15}_{-0.12}$
n_s	0.9588	$0.958^{+0.016}_{-0.016}$	β_1^2	-0.04	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1424	$0.1428^{+0.0052}_{-0.0050}$
n_{run}	-0.0074	$-0.014^{+0.019}_{-0.018}$	β_2^2	0.06	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09608	$0.0963^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.097	$3.109^{+0.063}_{-0.056}$	β_3^2	-0.11	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247751	$0.24779^{+0.00026}_{-0.00026}$
A_{100}^{PS}	153	163^{+100}_{-100}	β_4^2	0.04	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8343	$1.840^{+0.028}_{-0.027}$
A_{143}^{PS}	43	54^{+30}_{-30}	β_5^2	-0.17	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.803	$13.795^{+0.098}_{-0.10}$
A_{217}^{PS}	120.5	116^{+30}_{-30}	β_1^3	0.05	$0.0^{+1.9}_{-1.9}$	z_*	1090.25	$1090.2^{+1.1}_{-1.1}$
A_{143}^{CIB}	9.85	—	β_2^3	-0.13	$-0.1^{+1.9}_{-2.0}$	r_*	144.69	$144.6^{+1.2}_{-1.2}$
A_{217}^{CIB}	23.9	24^{+10}_{-10}	β_3^3	-0.07	$0.0^{+1.9}_{-1.9}$	θ_*	1.04150	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	8.18	—	β_4^3	-0.06	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.51	$1059.7^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.778	> 0.659	β_5^3	0.00	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.42	$147.3^{+1.2}_{-1.2}$
r_{CIB}	0.638	—	β_1^4	0.00	$-0.1^{+1.9}_{-1.9}$	k_D	0.14025	$0.1405^{+0.0014}_{-0.0013}$
n^{CIB}	0.187	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.02	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16124	$0.16112^{+0.00072}_{-0.00072}$
$c_{100/143}$	1.00059	$1.00060^{+0.00077}_{-0.00078}$	β_3^4	-0.05	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3387	3396^{+130}_{-120}
$c_{217/143}$	0.99658	$0.9966^{+0.0026}_{-0.0026}$	β_4^4	0.08	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8158	$0.815^{+0.023}_{-0.023}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.01	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07156	$0.0715^{+0.0019}_{-0.0018}$
A^{kSZ}	1.33	—	Ω_Λ	0.6873	$0.686^{+0.032}_{-0.035}$	$H(0.57)$	0.00031009	$0.0003103^{+0.000037}_{-0.000034}$
β_1^1	0.37	$0.6^{+1.7}_{-1.7}$	Ω_m	0.3127	$0.314^{+0.035}_{-0.032}$	$DA(0.57)$	1389.2	1389^{+33}_{-33}

Best-fit $\chi_{\text{eff}}^2 = 9801.48$; R-1 = 0.01073

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.43 commander_v3.light.clik: -9.11 CAMspec_v6.2TN_2013_01_18.clik: 7796.16

11.2 base_nrun_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02223	$0.02227^{+0.00061}_{-0.00059}$	β_2^1	0.08	$0.1^{+1.9}_{-1.9}$	σ_8	0.0687	$0.832^{+0.021}_{-0.020}$
$\Omega_c h^2$	0.11938	$0.1197^{+0.0046}_{-0.0045}$	β_3^1	0.03	$0.0^{+2.0}_{-1.9}$	z_{re}	11.34	$11.8^{+2.3}_{-2.2}$
θ	1.04133	$1.0414^{+0.0012}_{-0.0012}$	β_4^1	0.06	$0.0^{+2.0}_{-2.0}$	H_0	67.61	$67.6^{+2.1}_{-2.1}$
τ	0.0933	$0.099^{+0.031}_{-0.027}$	β_5^1	-0.04	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.213	$2.24^{+0.13}_{-0.11}$
n_s	0.9608	$0.958^{+0.015}_{-0.015}$	β_1^2	-0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14225	$0.1426^{+0.0043}_{-0.0042}$
n_{run}	-0.0079	$-0.013^{+0.019}_{-0.018}$	β_2^2	-0.06	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09617	$0.0963^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.097	$3.109^{+0.057}_{-0.051}$	β_3^2	-0.05	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247781	$0.24780^{+0.00026}_{-0.00025}$
A_{100}^{PS}	168	162^{+100}_{-100}	β_4^2	0.02	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8362	$1.839^{+0.022}_{-0.022}$
A_{143}^{PS}	50.9	53^{+30}_{-30}	β_5^2	-0.11	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.796	$13.792^{+0.094}_{-0.095}$
A_{217}^{PS}	123.5	116^{+30}_{-30}	β_1^3	0.02	$0.0^{+1.9}_{-1.9}$	z_*	1090.14	$1090.1^{+1.0}_{-1.0}$
A_{143}^{CIB}	8.72	—	β_2^3	-0.05	$-0.1^{+1.9}_{-2.0}$	r_*	144.69	$144.6^{+1.0}_{-1.0}$
A_{217}^{CIB}	22.7	23^{+10}_{-10}	β_3^3	0.02	$0.0^{+1.9}_{-1.9}$	θ_*	1.04148	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	6.19	—	β_4^3	-0.16	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.67	$1059.8^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.756	> 0.661	β_5^3	-0.15	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.40	$147.3^{+1.0}_{-1.0}$
r_{CIB}	0.577	—	β_1^4	-0.01	$-0.1^{+1.9}_{-1.9}$	k_D	0.14033	$0.1405^{+0.0012}_{-0.0012}$
n^{CIB}	0.195	$0.25^{+0.25}_{-0.29}$	β_2^4	-0.01	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16114	$0.16110^{+0.00072}_{-0.00071}$
$c_{100/143}$	1.00059	$1.00061^{+0.00078}_{-0.00079}$	β_3^4	-0.09	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3384	3391^{+100}_{-100}
$c_{217/143}$	0.99673	$0.9966^{+0.0025}_{-0.0026}$	β_4^4	0.05	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8166	$0.815^{+0.020}_{-0.019}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.03	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07163	$0.0716^{+0.0016}_{-0.0015}$
A^{kSZ}	0.3	—	Ω_Λ	0.6888	$0.687^{+0.027}_{-0.029}$	$H(0.57)$	0.00031033	$0.0003104^{+0.000033}_{-0.000031}$
β_1^1	0.51	$0.6^{+1.6}_{-1.7}$	Ω_m	0.3112	$0.313^{+0.029}_{-0.027}$	$DA(0.57)$	1387.4	1388^{+28}_{-28}

Best-fit $\chi_{\text{eff}}^2 = 9812.94$; R-1 = 0.01556

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.38 lensing_likelihood.v3.ref.clik.lensing: 11.42 commander.v3.light.clik: -9.52 CAMspec.v6.2TN_2013_01_18.clik
7796.66

11.3 base_nrun_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02223	$0.02232^{+0.00055}_{-0.00054}$	β_2^1	0.05	$0.1^{+1.9}_{-1.9}$	σ_8	0.8285	$0.830^{+0.027}_{-0.025}$
$\Omega_c h^2$	0.11874	$0.1188^{+0.0035}_{-0.0034}$	β_3^1	0.01	$0.0^{+1.9}_{-1.9}$	z_{re}	11.53	$11.8^{+2.4}_{-2.4}$
θ	1.04145	$1.0415^{+0.0011}_{-0.0011}$	β_4^1	-0.03	$0.0^{+2.0}_{-2.0}$	H_0	67.86	$67.9^{+1.5}_{-1.6}$
τ	0.0956	$0.100^{+0.031}_{-0.028}$	β_5^1	-0.14	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.220	$2.24^{+0.15}_{-0.13}$
n_s	0.9631	$0.960^{+0.013}_{-0.013}$	β_1^2	-0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14162	$0.1418^{+0.0034}_{-0.0033}$
n_{run}	-0.0060	$-0.014^{+0.019}_{-0.019}$	β_2^2	0.10	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09611	$0.0963^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.100	$3.110^{+0.064}_{-0.058}$	β_3^2	-0.19	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247779	$0.24782^{+0.00023}_{-0.00023}$
A_{100}^{PS}	190	163^{+100}_{-100}	β_4^2	-0.01	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.835^{+0.021}_{-0.020}$
A_{143}^{PS}	54.2	53^{+30}_{-30}	β_5^2	-0.099	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.790	$13.779^{+0.077}_{-0.078}$
A_{217}^{PS}	122.9	116^{+30}_{-30}	β_1^3	-0.12	$0.0^{+1.8}_{-1.8}$	z_*	1090.09	$1089.98^{+0.84}_{-0.81}$
A_{143}^{CIB}	9.33	—	β_2^3	0.02	$-0.1^{+1.9}_{-2.0}$	r_*	144.85	$144.77^{+0.87}_{-0.87}$
A_{217}^{CIB}	22.6	23^{+10}_{-10}	β_3^3	0.11	$0.0^{+1.9}_{-1.9}$	θ_*	1.04160	$1.0416^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	2.57	—	β_4^3	-0.19	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.59	$1059.8^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.792	> 0.657	β_5^3	-0.11	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.57	$147.46^{+0.94}_{-0.92}$
r_{CIB}	0.376	—	β_1^4	-0.07	$-0.1^{+1.9}_{-1.8}$	k_D	0.14015	$0.1403^{+0.0012}_{-0.0012}$
n^{CIB}	0.312	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.09	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16119	$0.16107^{+0.00069}_{-0.00069}$
$c_{100/143}$	1.00060	$1.00061^{+0.00077}_{-0.00079}$	β_3^4	0.02	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3369	3372^{+80}_{-79}
$c_{217/143}$	0.99632	$0.9966^{+0.0026}_{-0.0026}$	β_4^4	0.17	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8194	$0.819^{+0.015}_{-0.015}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.03	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07185	$0.0719^{+0.0012}_{-0.0012}$
A^{kSZ}	1.52	—	Ω_Λ	0.6925	$0.693^{+0.020}_{-0.021}$	$H(0.57)$	0.00031062	$0.0003109^{+0.0000025}_{-0.0000025}$
β_1^1	0.51	$0.6^{+1.6}_{-1.7}$	Ω_m	0.3075	$0.307^{+0.021}_{-0.020}$	$DA(0.57)$	1384.1	1383^{+21}_{-21}

Best-fit $\chi_{\text{eff}}^2 = 9804.06$; R-1 = 0.01434

χ_{eff}^2 : BAO - DR7: 1.06 6DF: 0.02 DR9: 0.32 CMB - lowlike.v22.light.clik: 2014.47 commander.v3.light.clik: -9.30 CAMspec.v6.2TN.2013_01_18.clik: 7797.50

11.4 base_nrun_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02238	$0.02248^{+0.00058}_{-0.00057}$	β_2^1	0.10	$0.1^{+1.9}_{-1.9}$	σ_8	0.8222	$0.826^{+0.028}_{-0.028}$
$\Omega_c h^2$	0.11716	$0.1171^{+0.0048}_{-0.0049}$	β_3^1	0.07	$0.0^{+1.9}_{-1.9}$	z_{re}	11.51	$12.1^{+2.5}_{-2.5}$
θ	1.04170	$1.0418^{+0.0012}_{-0.0012}$	β_4^1	-0.04	$0.0^{+2.0}_{-1.9}$	H_0	68.64	$68.8^{+2.3}_{-2.2}$
τ	0.0964	$0.104^{+0.034}_{-0.030}$	β_5^1	-0.14	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.216	$2.25^{+0.16}_{-0.13}$
n_s	0.9662	$0.965^{+0.016}_{-0.015}$	β_1^2	-0.09	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14019	$0.1402^{+0.0046}_{-0.0047}$
n_{run}	-0.0084	$-0.015^{+0.019}_{-0.019}$	β_2^2	-0.06	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09622	$0.0964^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.098	$3.114^{+0.068}_{-0.060}$	β_3^2	-0.06	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247843	$0.24788^{+0.00025}_{-0.00024}$
A_{100}^{PS}	176	162^{+100}_{-100}	β_4^2	0.099	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8277	$1.828^{+0.026}_{-0.025}$
A_{143}^{PS}	55.4	52^{+30}_{-30}	β_5^2	-0.15	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.760	$13.747^{+0.093}_{-0.099}$
A_{217}^{PS}	124.7	116^{+30}_{-30}	β_1^3	-0.14	$0.0^{+1.8}_{-1.9}$	z_*	1089.76	$1089.6^{+1.0}_{-1.0}$
A_{143}^{CIB}	8.81	—	β_2^3	0.09	$-0.1^{+1.9}_{-2.0}$	r_*	145.15	$145.1^{+1.1}_{-1.1}$
A_{217}^{CIB}	22.7	23^{+10}_{-10}	β_3^3	-0.04	$0.0^{+1.9}_{-1.9}$	θ_*	1.04184	$1.0419^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.55	—	β_4^3	-0.16	$-0.1^{+1.9}_{-1.9}$	z_{drag}	1059.82	$1060.0^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.782	> 0.655	β_5^3	-0.10	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.83	$147.7^{+1.2}_{-1.1}$
r_{CIB}	0.479	—	β_1^4	-0.16	$-0.1^{+2.0}_{-1.8}$	k_D	0.14000	$0.1402^{+0.0013}_{-0.0013}$
n^{CIB}	0.259	$0.24^{+0.26}_{-0.30}$	β_2^4	0.00	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16107	$0.16096^{+0.00069}_{-0.00071}$
$c_{100/143}$	1.00061	$1.00060^{+0.00076}_{-0.00078}$	β_3^4	-0.16	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3334	3335^{+110}_{-110}
$c_{217/143}$	0.99646	$0.9966^{+0.0026}_{-0.0026}$	β_4^4	0.09	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8263	$0.827^{+0.023}_{-0.021}$
$\xi^{tSZ-CIB}$	0.04	—	β_5^4	0.16	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07242	$0.0725^{+0.0018}_{-0.0017}$
A^{kSZ}	0.2	—	Ω_Λ	0.7024	$0.703^{+0.028}_{-0.029}$	$H(0.57)$	0.00031179	$0.0003122^{+0.0000038}_{-0.0000033}$
β_1^1	0.49	$0.5^{+1.6}_{-1.7}$	Ω_m	0.2976	$0.297^{+0.029}_{-0.028}$	$DA(0.57)$	1373.8	1372^{+29}_{-31}

Best-fit $\chi_{\text{eff}}^2 = 9807.56$; R-1 = 0.02661

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.36 commander_v3.light.clik: -10.31 CAMspec_v6.2TN_2013.01.18.clik: 7798.89 Hubble - HST: 4.63

11.5 base_nrun_planck_CAMspec_lowl_lowLike_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02232	$0.02238^{+0.00060}_{-0.00059}$	β_2^1	0.03	$0.1^{+1.9}_{-1.9}$	σ_8	0.8230	$0.828^{+0.028}_{-0.027}$
$\Omega_c h^2$	0.1180	$0.1180^{+0.0050}_{-0.0050}$	β_3^1	0.07	$0.0^{+1.9}_{-1.9}$	z_{re}	11.44	$11.9^{+2.5}_{-2.4}$
θ	1.04162	$1.0416^{+0.0012}_{-0.0012}$	β_4^1	0.02	$0.0^{+2.0}_{-1.9}$	H_0	68.27	$68.3^{+2.3}_{-2.3}$
τ	0.0951	$0.102^{+0.034}_{-0.029}$	β_5^1	-0.08	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.213	$2.25^{+0.15}_{-0.13}$
n_s	0.9624	$0.962^{+0.016}_{-0.015}$	β_1^2	0.04	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14095	$0.1410^{+0.0047}_{-0.0047}$
n_{run}	-0.0111	$-0.014^{+0.019}_{-0.019}$	β_2^2	-0.16	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09622	$0.0963^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.097	$3.111^{+0.066}_{-0.058}$	β_3^2	-0.01	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247819	$0.24784^{+0.00025}_{-0.00025}$
A_{100}^{PS}	158	162^{+100}_{-100}	β_4^2	0.00	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8295	$1.832^{+0.026}_{-0.026}$
A_{143}^{PS}	46	52^{+30}_{-30}	β_5^2	-0.11	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.772	$13.767^{+0.094}_{-0.099}$
A_{217}^{PS}	122.6	116^{+30}_{-30}	β_1^3	0.06	$0.0^{+1.8}_{-1.9}$	z_*	1089.90	$1089.8^{+1.0}_{-1.0}$
A_{143}^{CIB}	9.60	—	β_2^3	0.06	$-0.1^{+1.9}_{-2.0}$	r_*	144.98	$144.9^{+1.2}_{-1.1}$
A_{217}^{CIB}	23.7	23^{+10}_{-10}	β_3^3	-0.09	$0.0^{+1.9}_{-1.9}$	θ_*	1.04175	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	8.42	—	β_4^3	-0.12	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.74	$1059.9^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.774	> 0.657	β_5^3	-0.17	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.67	$147.6^{+1.2}_{-1.2}$
r_{CIB}	0.654	—	β_1^4	0.08	$-0.1^{+1.9}_{-1.8}$	k_D	0.14012	$0.1402^{+0.0013}_{-0.0013}$
n^{CIB}	0.167	$0.24^{+0.26}_{-0.30}$	β_2^4	0.01	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16111	$0.16104^{+0.00070}_{-0.00071}$
$c_{100/143}$	1.00059	$1.00061^{+0.00077}_{-0.00078}$	β_3^4	-0.21	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3353	3355^{+110}_{-110}
$c_{217/143}$	0.99667	$0.9966^{+0.0026}_{-0.0026}$	β_4^4	-0.07	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8227	$0.823^{+0.022}_{-0.021}$
$\xi^{tSZ-CIB}$	0.01	—	β_5^4	0.08	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07214	$0.0721^{+0.0018}_{-0.0017}$
A^{kSZ}	0.4	—	Ω_Λ	0.6976	$0.697^{+0.029}_{-0.031}$	$H(0.57)$	0.00031127	$0.0003114^{+0.0000036}_{-0.0000033}$
β_1^1	0.50	$0.5^{+1.6}_{-1.7}$	Ω_m	0.3024	$0.303^{+0.031}_{-0.029}$	$DA(0.57)$	1378.6	1378^{+30}_{-30}

Best-fit $\chi_{\text{eff}}^2 = 10230.23$; $R-1 = 0.01722$

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.34 commander_v3.light.clik: -10.46 CAMspec_v6.2TN_2013_01_18.clik: 7797.61 SN - SNLS April_2012: 428.73

11.6 base_nrun_planck_CAMspec_lowl_lowLike_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02229^{+0.00061}_{-0.00059}$	β_2^1	-0.01	$0.1^{+1.9}_{-1.9}$	σ_8	0.8288	$0.831^{+0.028}_{-0.027}$
$\Omega_c h^2$	0.1194	$0.1192^{+0.0052}_{-0.0050}$	β_3^1	0.11	$0.0^{+2.0}_{-1.9}$	z_{re}	11.45	$11.8^{+2.5}_{-2.4}$
θ	1.04136	$1.0414^{+0.0012}_{-0.0012}$	β_4^1	-0.02	$0.0^{+2.0}_{-2.0}$	H_0	67.58	$67.8^{+2.3}_{-2.3}$
τ	0.0943	$0.099^{+0.033}_{-0.028}$	β_5^1	-0.02	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.217	$2.24^{+0.15}_{-0.13}$
n_s	0.9601	$0.959^{+0.016}_{-0.016}$	β_1^2	0.15	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14223	$0.1422^{+0.0049}_{-0.0047}$
n_{run}	-0.0082	$-0.014^{+0.019}_{-0.018}$	β_2^2	0.00	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09612	$0.0963^{+0.0012}_{-0.0012}$
$\log[10^{10} A_s]$	3.099	$3.109^{+0.065}_{-0.057}$	β_3^2	-0.04	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247765	$0.24781^{+0.00026}_{-0.00025}$
A_{100}^{PS}	184	163^{+100}_{-100}	β_4^2	-0.06	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8357	$1.837^{+0.026}_{-0.026}$
A_{143}^{PS}	50.2	53^{+30}_{-30}	β_5^2	0.05	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.799	$13.785^{+0.096}_{-0.097}$
A_{217}^{PS}	123.0	116^{+30}_{-30}	β_1^3	0.01	$0.0^{+1.8}_{-1.9}$	z_*	1090.19	$1090.1^{+1.1}_{-1.0}$
A_{143}^{CIB}	10.5	—	β_2^3	0.07	$-0.1^{+1.9}_{-2.0}$	r_*	144.71	$144.7^{+1.2}_{-1.2}$
A_{217}^{CIB}	23.8	23^{+10}_{-10}	β_3^3	0.05	$0.0^{+1.9}_{-1.9}$	θ_*	1.04150	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.21	—	β_4^3	0.01	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.55	$1059.8^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.771	> 0.659	β_5^3	-0.02	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.44	$147.4^{+1.2}_{-1.2}$
r_{CIB}	0.550	—	β_1^4	0.15	$-0.1^{+1.9}_{-1.8}$	k_D	0.14027	$0.1404^{+0.0013}_{-0.0013}$
n^{CIB}	0.232	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.04	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16120	$0.16109^{+0.00070}_{-0.00071}$
$c_{100/143}$	1.00061	$1.00061^{+0.00077}_{-0.00079}$	β_3^4	0.02	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3383	3382^{+120}_{-110}
$c_{217/143}$	0.99653	$0.9966^{+0.0026}_{-0.0026}$	β_4^4	-0.08	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8165	$0.817^{+0.022}_{-0.022}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.11	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07162	$0.0717^{+0.0018}_{-0.0017}$
A^{kSZ}	0.3	—	Ω_Λ	0.6885	$0.690^{+0.030}_{-0.033}$	$H(0.57)$	0.00031024	$0.0003107^{+0.0000035}_{-0.0000033}$
β_1^1	0.51	$0.6^{+1.6}_{-1.7}$	Ω_m	0.3115	$0.310^{+0.033}_{-0.030}$	$DA(0.57)$	1387.9	1385^{+31}_{-31}

Best-fit $\chi_{\text{eff}}^2 = 9932.24$; R-1 = 0.01274

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.43 commander.v3.light.clik: -9.46 CAMspec.v6.2TN_2013_01_18.clik: 7796.83 SN - Union2.1: 130.45

11.7 base_nrun_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.0231^{+0.0013}_{-0.0011}$	β_2^1	-0.07	$0.1^{+1.9}_{-1.9}$	σ_8	0.832	$0.911^{+0.090}_{-0.092}$
$\Omega_c h^2$	0.1198	$0.1147^{+0.0081}_{-0.0082}$	β_3^1	0.09	$0.0^{+2.0}_{-1.9}$	z_{re}	11.5	$19.4^{+7.0}_{-9.2}$
θ	1.04140	$1.0422^{+0.0017}_{-0.0016}$	β_4^1	-0.06	$0.0^{+1.9}_{-2.0}$	H_0	67.42	$70.3^{+4.6}_{-4.2}$
τ	0.094	$0.22^{+0.14}_{-0.14}$	β_5^1	-0.19	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$2.84^{+0.81}_{-0.68}$
n_s	0.9612	$0.977^{+0.031}_{-0.028}$	β_1^2	0.06	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1426	$0.1385^{+0.0072}_{-0.0071}$
n_{run}	-0.0051	$-0.036^{+0.030}_{-0.037}$	β_2^2	-0.10	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09612	$0.0973^{+0.0019}_{-0.0017}$
$\log[10^{10} A_s]$	3.099	$3.34^{+0.26}_{-0.26}$	β_3^2	0.07	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.24775	$0.24813^{+0.00054}_{-0.00048}$
A_{100}^{PS}	173	148^{+100}_{-100}	β_4^2	0.18	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8372	$1.824^{+0.033}_{-0.032}$
A_{143}^{PS}	56.7	51^{+30}_{-30}	β_5^2	-0.02	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.803	$13.66^{+0.18}_{-0.21}$
A_{217}^{PS}	125.2	117^{+30}_{-30}	β_1^3	-0.10	$0.0^{+1.9}_{-1.9}$	z_*	1090.27	$1088.7^{+2.0}_{-2.1}$
A_{143}^{CIB}	9.17	—	β_2^3	-0.096	$-0.1^{+1.9}_{-1.9}$	r_*	144.65	$145.3^{+1.4}_{-1.5}$
A_{217}^{CIB}	22.6	22^{+10}_{-10}	β_3^3	-0.05	$0.0^{+1.9}_{-2.0}$	θ_*	1.04154	$1.0423^{+0.0016}_{-0.0015}$
A_{143}^{tSZ}	5.15	—	β_4^3	-0.10	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.51	$1061.2^{+2.5}_{-2.1}$
$r_{PS143/217}$	0.797	> 0.664	β_5^3	-0.21	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.38	$147.7^{+1.3}_{-1.3}$
r_{CIB}	0.501	—	β_1^4	-0.03	$-0.1^{+1.9}_{-1.9}$	k_D	0.14029	$0.1406^{+0.0013}_{-0.0013}$
n^{CIB}	0.256	$0.25^{+0.27}_{-0.31}$	β_2^4	-0.01	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16125	$0.1603^{+0.0011}_{-0.0012}$
$c_{100/143}$	1.00061	$1.00061^{+0.00079}_{-0.00079}$	β_3^4	-0.08	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3391	3293^{+170}_{-170}
$c_{217/143}$	0.99650	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.10	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8150	$0.837^{+0.038}_{-0.035}$
$\xi^{tSZ-CIB}$	0.24	—	β_5^4	0.33	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07151	$0.0735^{+0.0033}_{-0.0030}$
A^{kSZ}	0.0	—	Ω_Λ	0.6864	$0.719^{+0.047}_{-0.051}$	$H(0.57)$	0.0003100	$0.0003151^{+0.0000083}_{-0.0000067}$
β_1^1	0.63	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3136	$0.281^{+0.051}_{-0.047}$	$DA(0.57)$	1390	1351^{+56}_{-60}

Best-fit $\chi_{\text{eff}}^2 = 7787.98$; R-1 = 0.01391

χ_{eff}^2 : CMB - commander.v3.light.clik: -8.74 CAMspec.v6.2TN_2013_01_18.clik: 7796.73

11.8 base_nrun_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02227	$0.02256^{+0.00087}_{-0.00079}$	β_2^1	0.03	$0.1^{+1.9}_{-1.9}$	σ_8	0.0687	$0.852^{+0.041}_{-0.039}$
$\Omega_c h^2$	0.1193	$0.1168^{+0.0069}_{-0.0069}$	β_3^1	0.01	$0.0^{+2.0}_{-1.8}$	z_{re}	11.4	$14.5^{+4.9}_{-5.5}$
θ	1.04142	$1.0418^{+0.0015}_{-0.0014}$	β_4^1	-0.03	$0.0^{+1.9}_{-1.9}$	H_0	67.67	$69.0^{+3.6}_{-3.3}$
τ	0.094	$0.137^{+0.078}_{-0.072}$	β_5^1	0.09	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.214	$2.41^{+0.36}_{-0.31}$
n_s	0.9605	$0.966^{+0.022}_{-0.021}$	β_1^2	-0.20	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1423	$0.1400^{+0.0063}_{-0.0062}$
n_{run}	-0.0092	$-0.019^{+0.019}_{-0.021}$	β_2^2	-0.19	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09627	$0.0965^{+0.0013}_{-0.0013}$
$\log[10^{10} A_s]$	3.098	$3.18^{+0.14}_{-0.13}$	β_3^2	-0.05	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247796	$0.24792^{+0.00036}_{-0.00034}$
A_{100}^{PS}	154	161^{+100}_{-100}	β_4^2	-0.02	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8357	$1.827^{+0.030}_{-0.030}$
A_{143}^{PS}	51.9	51^{+30}_{-30}	β_5^2	-0.10	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.790	$13.74^{+0.14}_{-0.15}$
A_{217}^{PS}	124.7	115^{+30}_{-30}	β_1^3	0.08	$0.0^{+1.9}_{-1.8}$	z_*	1090.09	$1089.5^{+1.5}_{-1.6}$
A_{143}^{CIB}	8.33	—	β_2^3	-0.05	$-0.1^{+2.0}_{-1.9}$	r_*	144.67	$145.1^{+1.4}_{-1.4}$
A_{217}^{CIB}	22.0	23^{+10}_{-10}	β_3^3	0.11	$0.0^{+2.0}_{-2.0}$	θ_*	1.04156	$1.0419^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	8.36	—	β_4^3	-0.11	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.74	$1060.2^{+1.6}_{-1.5}$
$r_{PS143/217}$	0.766	> 0.654	β_5^3	0.02	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.37	$147.7^{+1.3}_{-1.3}$
r_{CIB}	0.664	—	β_1^4	-0.07	$-0.1^{+2.0}_{-1.9}$	k_D	0.14039	$0.1402^{+0.0012}_{-0.0013}$
n^{CIB}	0.128	$0.25^{+0.26}_{-0.29}$	β_2^4	-0.11	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16111	$0.16086^{+0.00082}_{-0.00087}$
$c_{100/143}$	1.00062	$1.00060^{+0.00080}_{-0.00079}$	β_3^4	-0.16	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3384	3330^{+150}_{-150}
$c_{217/143}$	0.99677	$0.9966^{+0.0026}_{-0.0025}$	β_4^4	0.02	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8167	$0.828^{+0.031}_{-0.030}$
$\xi^{tSZ-CIB}$	0.17	—	β_5^4	0.06	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07166	$0.0726^{+0.0027}_{-0.0025}$
A^{kSZ}	0.1	—	Ω_Λ	0.6894	$0.705^{+0.041}_{-0.044}$	$H(0.57)$	0.0003105	$0.0003126^{+0.0000059}_{-0.0000050}$
β_1^1	0.48	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3106	$0.295^{+0.044}_{-0.041}$	$DA(0.57)$	1386.4	1369^{+45}_{-47}

Best-fit $\chi_{\text{eff}}^2 = 7798.30$; R-1 = 0.04058

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik.lensing: 11.47 commander.v3.light.clik: -9.79 CAMspec.v6.2TN_2013_01_18.clik: 7796.62

11.9 base_nrun_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02268^{+0.00076}_{-0.00071}$	β_2^1	0.09	$0.1^{+1.9}_{-1.9}$	σ_8	0.827	$0.887^{+0.073}_{-0.075}$
$\Omega_c h^2$	0.11880	$0.1176^{+0.0038}_{-0.0037}$	β_3^1	0.04	$0.0^{+2.0}_{-1.9}$	z_{re}	11.6	$17.1^{+5.6}_{-7.2}$
θ	1.04146	$1.0418^{+0.0012}_{-0.0011}$	β_4^1	-0.14	$0.0^{+1.9}_{-1.9}$	H_0	67.88	$68.8^{+1.9}_{-1.9}$
τ	0.097	$0.174^{+0.091}_{-0.097}$	β_5^1	-0.02	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.224	$2.61^{+0.50}_{-0.47}$
n_s	0.9600	$0.967^{+0.016}_{-0.016}$	β_1^2	-0.15	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14171	$0.1409^{+0.0035}_{-0.0034}$
n_{run}	-0.0120	$-0.027^{+0.024}_{-0.026}$	β_2^2	-0.09	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09619	$0.0969^{+0.0015}_{-0.0014}$
$\log[10^{10} A_s]$	3.102	$3.26^{+0.18}_{-0.19}$	β_3^2	-0.02	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247795	$0.24797^{+0.00031}_{-0.00030}$
A_{100}^{PS}	154	154^{+100}_{-100}	β_4^2	-0.04	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8324	$1.834^{+0.020}_{-0.020}$
A_{143}^{PS}	46	52^{+30}_{-30}	β_5^2	-0.08	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.786	$13.730^{+0.099}_{-0.10}$
A_{217}^{PS}	123.5	117^{+30}_{-30}	β_1^3	0.08	$-0.1^{+1.9}_{-1.8}$	z_*	1090.05	$1089.4^{+1.1}_{-1.1}$
A_{143}^{CIB}	9.21	—	β_2^3	-0.11	$-0.1^{+2.0}_{-1.9}$	r_*	144.81	$144.81^{+0.84}_{-0.85}$
A_{217}^{CIB}	23.5	22^{+10}_{-10}	β_3^3	0.02	$0.0^{+1.9}_{-1.9}$	θ_*	1.04160	$1.0419^{+0.0012}_{-0.0011}$
A_{143}^{tSZ}	9.59	—	β_4^3	-0.09	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.67	$1060.5^{+1.6}_{-1.5}$
$r_{PS143/217}$	0.762	> 0.663	β_5^3	-0.08	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.52	$147.38^{+0.93}_{-0.93}$
r_{CIB}	0.705	—	β_1^4	-0.03	$-0.1^{+1.9}_{-1.9}$	k_D	0.14023	$0.1407^{+0.0013}_{-0.0013}$
n^{CIB}	0.122	$0.25^{+0.27}_{-0.30}$	β_2^4	-0.11	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16114	$0.16067^{+0.00088}_{-0.00087}$
$c_{100/143}$	1.00059	$1.00060^{+0.00080}_{-0.00080}$	β_3^4	-0.08	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3371	3352^{+84}_{-82}
$c_{217/143}$	0.99681	$0.9966^{+0.0025}_{-0.0025}$	β_4^4	-0.08	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8191	$0.824^{+0.016}_{-0.016}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.02	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07184	$0.0723^{+0.0014}_{-0.0013}$
A^{kSZ}	0.2	—	Ω_Λ	0.6924	$0.702^{+0.022}_{-0.023}$	$H(0.57)$	0.00031071	$0.0003125^{+0.000034}_{-0.000032}$
β_1^1	0.50	$0.6^{+1.7}_{-1.7}$	Ω_m	0.3076	$0.298^{+0.023}_{-0.022}$	$DA(0.57)$	1383.8	1371^{+26}_{-26}

Best-fit $\chi_{\text{eff}}^2 = 7787.77$; R-1 = 0.01714

χ_{eff}^2 : BAO - DR7: 1.07 6DF: 0.02 DR9: 0.31 CMB - commander_v3.light.clik: -10.31 CAMspec_v6.2TN_2013_01_18.clik: 7796.68

11.10 base_nrun_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02241	$0.0235^{+0.0011}_{-0.0010}$	β_2^1	0.16	$0.1^{+1.9}_{-1.9}$	σ_8	0.822	$0.935^{+0.080}_{-0.083}$
$\Omega_c h^2$	0.1171	$0.1118^{+0.0062}_{-0.0060}$	β_3^1	0.04	$0.0^{+2.0}_{-1.9}$	z_{re}	11.7	22^{+5}_{-7}
θ	1.04176	$1.0427^{+0.0015}_{-0.0014}$	β_4^1	-0.01	$0.0^{+2.0}_{-2.0}$	H_0	68.72	$71.9^{+3.4}_{-3.3}$
τ	0.099	$0.26^{+0.11}_{-0.12}$	β_5^1	0.00	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.22	$3.08^{+0.72}_{-0.64}$
n_s	0.9639	$0.987^{+0.024}_{-0.023}$	β_1^2	-0.21	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.1401	$0.1359^{+0.0055}_{-0.0053}$
n_{run}	-0.0111	$-0.045^{+0.031}_{-0.034}$	β_2^2	-0.02	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09630	$0.0977^{+0.0018}_{-0.0016}$
$\log[10^{10} A_s]$	3.101	$3.42^{+0.22}_{-0.23}$	β_3^2	-0.09	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247859	$0.24830^{+0.00044}_{-0.00041}$
A_{100}^{PS}	139	142^{+100}_{-100}	β_4^2	0.02	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8244	$1.814^{+0.026}_{-0.025}$
A_{143}^{PS}	40	49^{+30}_{-30}	β_5^2	-0.07	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.755	$13.59^{+0.15}_{-0.17}$
A_{217}^{PS}	120.3	116^{+30}_{-30}	β_1^3	0.02	$-0.1^{+1.8}_{-1.9}$	z_*	1089.71	$1088.0^{+1.6}_{-1.6}$
A_{143}^{CIB}	8.61	—	β_2^3	-0.02	$-0.1^{+1.9}_{-1.9}$	r_*	145.15	$145.7^{+1.2}_{-1.2}$
A_{217}^{CIB}	22.7	21^{+10}_{-10}	β_3^3	-0.02	$0.0^{+1.9}_{-2.0}$	θ_*	1.04189	$1.0427^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	10.0	—	β_4^3	-0.13	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.89	$1062.0^{+2.2}_{-2.0}$
$r_{PS143/217}$	0.763	> 0.663	β_5^3	-0.13	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.81	$148.1^{+1.1}_{-1.1}$
r_{CIB}	0.706	—	β_1^4	-0.11	$-0.1^{+1.9}_{-1.9}$	k_D	0.14004	$0.1405^{+0.0013}_{-0.0013}$
n^{CIB}	0.113	$0.24^{+0.27}_{-0.30}$	β_2^4	-0.11	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16103	$0.1600^{+0.0010}_{-0.0010}$
$c_{100/143}$	1.00059	$1.00062^{+0.00078}_{-0.00077}$	β_3^4	-0.05	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3333	3232^{+130}_{-130}
$c_{217/143}$	0.99682	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.03	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8267	$0.850^{+0.028}_{-0.028}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.00	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07247	$0.0746^{+0.0025}_{-0.0024}$
A^{kSZ}	2.07	—	Ω_Λ	0.7033	$0.737^{+0.033}_{-0.037}$	$H(0.57)$	0.0003120	$0.0003178^{+0.0000064}_{-0.0000057}$
β_1^1	0.45	$0.5^{+1.7}_{-1.7}$	Ω_m	0.2967	$0.263^{+0.037}_{-0.033}$	$DA(0.57)$	1372.6	1329^{+44}_{-44}

Best-fit $\chi_{\text{eff}}^2 = 7791.82$; R-1 = 0.02209

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.55 CAMspec.v6.2TN_2013_01_18.clik: 7797.88 Hubble - HST: 4.49

11.11 base_nrun_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02233	$0.0234^{+0.0012}_{-0.0011}$	β_2^1	0.04	$0.1^{+1.9}_{-1.9}$	σ_8	0.825	$0.929^{+0.086}_{-0.088}$
$\Omega_c h^2$	0.1182	$0.1124^{+0.0070}_{-0.0070}$	β_3^1	0.06	$0.0^{+2.0}_{-1.9}$	z_{re}	11.7	21^{+6}_{-8}
θ	1.04156	$1.0426^{+0.0016}_{-0.0015}$	β_4^1	0.03	$0.0^{+2.0}_{-2.0}$	H_0	68.18	$71.6^{+4.1}_{-3.7}$
τ	0.098	$0.25^{+0.12}_{-0.13}$	β_5^1	-0.04	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$3.02^{+0.79}_{-0.68}$
n_s	0.9609	$0.985^{+0.028}_{-0.026}$	β_1^2	-0.07	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.1412	$0.1364^{+0.0062}_{-0.0061}$
n_{run}	-0.0126	$-0.043^{+0.032}_{-0.037}$	β_2^2	-0.10	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09625	$0.0976^{+0.0019}_{-0.0017}$
$\log[10^{10} A_s]$	3.102	$3.40^{+0.24}_{-0.25}$	β_3^2	-0.07	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247822	$0.24826^{+0.00049}_{-0.00045}$
A_{100}^{PS}	151	144^{+100}_{-100}	β_4^2	0.02	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8300	$1.816^{+0.029}_{-0.028}$
A_{143}^{PS}	43	50^{+30}_{-30}	β_5^2	-0.02	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.774	$13.61^{+0.17}_{-0.20}$
A_{217}^{PS}	122.7	116^{+30}_{-30}	β_1^3	0.06	$-0.1^{+1.9}_{-1.9}$	z_*	1089.92	$1088.2^{+1.8}_{-1.9}$
A_{143}^{CIB}	9.74	—	β_2^3	0.06	$-0.1^{+1.9}_{-1.9}$	r_*	144.92	$145.6^{+1.3}_{-1.3}$
A_{217}^{CIB}	23.8	21^{+10}_{-10}	β_3^3	-0.02	$0.0^{+1.9}_{-2.0}$	θ_*	1.04170	$1.0426^{+0.0015}_{-0.0015}$
A_{143}^{tSZ}	10.0	—	β_4^3	-0.10	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.78	$1061.8^{+2.4}_{-2.1}$
$r_{PS143/217}$	0.767	> 0.663	β_5^3	-0.19	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.61	$148.0^{+1.2}_{-1.2}$
r_{CIB}	0.719	—	β_1^4	0.03	$-0.1^{+1.9}_{-1.9}$	k_D	0.14019	$0.1405^{+0.0013}_{-0.0013}$
n^{CIB}	0.114	$0.24^{+0.27}_{-0.31}$	β_2^4	-0.11	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16109	$0.1601^{+0.0011}_{-0.0011}$
$c_{100/143}$	1.00060	$1.00062^{+0.00078}_{-0.00078}$	β_3^4	-0.08	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3358	3244^{+150}_{-150}
$c_{217/143}$	0.99685	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.02	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8217	$0.847^{+0.033}_{-0.031}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.098	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07206	$0.0744^{+0.0029}_{-0.0027}$
A^{kSZ}	0.1	—	Ω_Λ	0.6963	$0.733^{+0.039}_{-0.042}$	$H(0.57)$	0.0003112	$0.0003172^{+0.0000075}_{-0.0000064}$
β_1^1	0.43	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3037	$0.267^{+0.042}_{-0.039}$	$DA(0.57)$	1380	1334^{+50}_{-52}

Best-fit $\chi_{\text{eff}}^2 = 8215.34$; R-1 = 0.02020

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.52 CAMspec.v6.2TN_2013_01_18.clik: 7797.02 SN - SNLS April_2012: 428.84

11.12 base_nrun_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02223	$0.0231^{+0.0012}_{-0.0011}$	β_2^1	0.09	$0.1^{+1.9}_{-1.9}$	σ_8	0.829	$0.912^{+0.086}_{-0.088}$
$\Omega_c h^2$	0.1192	$0.1146^{+0.0072}_{-0.0074}$	β_3^1	-0.11	$0.0^{+2.0}_{-1.9}$	z_{re}	11.5	$19.6^{+6.5}_{-8.6}$
θ	1.04139	$1.0423^{+0.0016}_{-0.0015}$	β_4^1	0.05	$0.0^{+2.0}_{-1.9}$	H_0	67.68	$70.4^{+4.1}_{-3.7}$
τ	0.096	$0.22^{+0.13}_{-0.13}$	β_5^1	0.01	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$2.85^{+0.76}_{-0.65}$
n_s	0.9608	$0.977^{+0.028}_{-0.025}$	β_1^2	-0.08	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.1421	$0.1383^{+0.0064}_{-0.0064}$
n_{run}	-0.0096	$-0.036^{+0.029}_{-0.035}$	β_2^2	-0.01	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09617	$0.0973^{+0.0018}_{-0.0016}$
$\log[10^{10} A_s]$	3.101	$3.34^{+0.25}_{-0.25}$	β_3^2	-0.04	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247781	$0.24814^{+0.00050}_{-0.00044}$
A_{100}^{PS}	166	148^{+100}_{-100}	β_4^2	0.03	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8360	$1.823^{+0.030}_{-0.029}$
A_{143}^{PS}	54.0	51^{+30}_{-30}	β_5^2	-0.11	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.793	$13.66^{+0.17}_{-0.19}$
A_{217}^{PS}	125.3	117^{+30}_{-30}	β_1^3	0.07	$-0.1^{+1.9}_{-1.8}$	z_*	1090.13	$1088.7^{+1.8}_{-1.9}$
A_{143}^{CIB}	8.04	—	β_2^3	0.03	$-0.1^{+1.9}_{-1.9}$	r_*	144.73	$145.3^{+1.3}_{-1.3}$
A_{217}^{CIB}	22.1	22^{+10}_{-10}	β_3^3	-0.04	$0.0^{+2.0}_{-2.0}$	θ_*	1.04153	$1.0423^{+0.0015}_{-0.0014}$
A_{143}^{tSZ}	5.63	—	β_4^3	-0.06	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.63	$1061.3^{+2.3}_{-2.0}$
$r_{PS143/217}$	0.761	> 0.663	β_5^3	-0.13	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.44	$147.8^{+1.2}_{-1.2}$
r_{CIB}	0.534	—	β_1^4	-0.02	$-0.1^{+1.9}_{-1.9}$	k_D	0.14029	$0.1406^{+0.0013}_{-0.0013}$
n^{CIB}	0.208	$0.25^{+0.27}_{-0.30}$	β_2^4	0.00	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16116	$0.1603^{+0.0011}_{-0.0011}$
$c_{100/143}$	1.00060	$1.00061^{+0.00079}_{-0.00078}$	β_3^4	-0.05	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3380	3289^{+150}_{-150}
$c_{217/143}$	0.99656	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.04	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8173	$0.838^{+0.034}_{-0.031}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.07	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07169	$0.0735^{+0.0030}_{-0.0027}$
A^{kSZ}	1.11	—	Ω_Λ	0.6898	$0.720^{+0.042}_{-0.045}$	$H(0.57)$	0.0003104	$0.0003152^{+0.0000074}_{-0.0000060}$
β_1^1	0.51	$0.5^{+1.7}_{-1.7}$	Ω_m	0.3102	$0.280^{+0.045}_{-0.042}$	$DA(0.57)$	1386	1350^{+49}_{-53}

Best-fit $\chi_{\text{eff}}^2 = 7917.50$; R-1 = 0.01376

χ_{eff}^2 : CMB - commander.v3.light.clik: -9.87 CAMspec.v6.2TN_2013_01_18.clik: 7796.96 SN - Union2.1: 130.41

11.13 base_nrun_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02209	$0.02228_{-0.00057}^{+0.00060}$	β_3^2	-0.11	$0.0_{-2.0}^{+1.9}$	c_{SPT}^{95}	0.9828	$0.981_{-0.036}^{+0.040}$
$\Omega_c h^2$	0.1197	$0.1201_{-0.0052}^{+0.0054}$	β_4^2	0.43	$0.3_{-1.9}^{+2.0}$	c_{SPT}^{150}	0.9839	$0.985_{-0.019}^{+0.019}$
θ	1.04137	$1.0414_{-0.0012}^{+0.0012}$	β_5^2	-0.63	$-0.4_{-1.9}^{+2.0}$	c_{SPT}^{220}	1.0157	$1.020_{-0.044}^{+0.047}$
τ	0.0948	$0.100_{-0.028}^{+0.032}$	β_1^3	0.62	$0.8_{-1.8}^{+1.8}$	Ω_Λ	0.6861	$0.685_{-0.034}^{+0.031}$
n_s	0.9581	$0.956_{-0.015}^{+0.015}$	β_2^3	-0.64	$-0.5_{-1.9}^{+1.9}$	Ω_m	0.3139	$0.315_{-0.031}^{+0.034}$
n_{run}	-0.0057	$-0.017_{-0.018}^{+0.017}$	β_3^3	0.21	$0.2_{-1.9}^{+2.0}$	σ_8	0.8310	$0.834_{-0.026}^{+0.027}$
$\log[10^{10} A_s]$	3.100	$3.115_{-0.056}^{+0.064}$	β_4^3	-0.57	$-0.4_{-2.0}^{+2.0}$	z_{re}	11.53	$11.9_{-2.4}^{+2.5}$
A_{100}^{PS}	181	194_{-80}^{+80}	β_5^3	-0.37	$-0.3_{-1.9}^{+1.9}$	H_0	67.37	$67.4_{-2.4}^{+2.4}$
A_{143}^{PS}	77.7	81_{-20}^{+20}	β_1^4	-0.33	$-0.3_{-1.9}^{+1.9}$	$10^9 A_s$	2.220	$2.25_{-0.12}^{+0.15}$
A_{217}^{PS}	66.6	67_{-20}^{+20}	β_2^4	-0.20	$-0.3_{-1.9}^{+1.9}$	$\Omega_m h^2$	0.1425	$0.1430_{-0.0050}^{+0.0051}$
A_{143}^{CIB}	3.11	—	β_3^4	-0.23	$-0.1_{-2.0}^{+1.9}$	$\Omega_m h^3$	0.09599	$0.0964_{-0.0012}^{+0.0012}$
A_{217}^{CIB}	47.5	44_{-9}^{+9}	β_4^4	0.27	$0.2_{-1.9}^{+1.9}$	Y_{He}	0.247720	$0.24780_{-0.00025}^{+0.00025}$
A_{143}^{tSZ}	4.86	—	β_5^4	0.19	$0.3_{-1.9}^{+1.9}$	$10^9 A_s e^{-2\tau}$	1.8365	$1.843_{-0.026}^{+0.028}$
$r_{\text{PS}143/217}$	0.825	> 0.725	$A_{\text{PS,ACT}}^{148}$	10.39	$10.6_{-1.1}^{+1.2}$	Age/Gyr	13.811	$13.793_{-0.099}^{+0.095}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.3	$81.0_{-7.9}^{+7.7}$	z_*	1090.36	$1090.2_{-1.1}^{+1.1}$
n^{CIB}	0.515	$0.48_{-0.15}^{+0.14}$	$A_{\text{PS,SPT}}^{95}$	7.10	$7.50_{-2.6}^{+3.1}$	r_*	144.70	$144.5_{-1.2}^{+1.2}$
$c_{100/143}$	1.00059	$1.00063_{-0.00077}^{+0.00079}$	$A_{\text{PS,SPT}}^{150}$	9.92	$10.26_{-0.95}^{+0.99}$	θ_*	1.04152	$1.0415_{-0.0012}^{+0.0012}$
$c_{217/143}$	0.99950	$0.9994_{-0.0021}^{+0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.5	$77.7_{-7.9}^{+8.1}$	z_{drag}	1059.36	$1059.8_{-1.2}^{+1.2}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.789	> 0.667	r_{drag}	147.46	$147.2_{-1.2}^{+1.2}$
$A^{k\text{SZ}}$	1.79	—	$r_{\text{PS}}^{95/220}$	0.536	$0.56_{-0.21}^{+0.24}$	k_D	0.14015	$0.1406_{-0.0014}^{+0.0013}$
β_1^1	0.84	$0.7_{-1.6}^{+1.6}$	$r_{\text{PS}}^{150/220}$	0.9139	> 0.904	θ_D	0.16134	$0.16107_{-0.00070}^{+0.00071}$
β_2^1	0.27	$0.0_{-1.9}^{+1.9}$	$A_{\text{dust,s}}$	0.401	< 0.761	z_{EQ}	3389	3402_{-120}^{+120}
β_3^1	-0.01	$0.1_{-2.0}^{+1.9}$	$A_{\text{dust,e}}$	0.892	$0.85_{-0.39}^{+0.39}$	θ_{EQ}	0.8152	$0.814_{-0.022}^{+0.023}$
β_4^1	-0.06	$0.0_{-2.0}^{+2.0}$	c_{ACTs}^{148}	0.9905	$0.990_{-0.014}^{+0.015}$	$r_s/D_v(0.57)$	0.07150	$0.0714_{-0.0018}^{+0.0018}$
β_5^1	0.02	$0.0_{-2.0}^{+1.9}$	c_{ACTs}^{217}	1.0006	$1.003_{-0.026}^{+0.027}$	$H(0.57)$	0.00030987	$0.0003103_{-0.000033}^{+0.000036}$
β_1^2	-0.98	$-1.14_{-1.7}^{+1.7}$	c_{ACTe}^{148}	0.9869	$0.986_{-0.014}^{+0.014}$	$DA(0.57)$	1390.9	1390_{-32}^{+32}
β_2^2	-0.31	$-0.3_{-1.9}^{+1.9}$	c_{ACTe}^{217}	0.9592	$0.961_{-0.020}^{+0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10517.97$; R-1 = 0.01256

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.52 commander.v3.light.clik: -8.30 CAMspec.v6.2TN_2013_01_18.clik: 7817.26 actspt_2013_01.clik: 694.29

11.14 base_nrun_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02230^{+0.00058}_{-0.00056}$	β_3^2	-0.22	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9843	$0.981^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.11938	$0.1197^{+0.0044}_{-0.0044}$	β_4^2	0.49	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9857	$0.985^{+0.019}_{-0.019}$
θ	1.04139	$1.0414^{+0.0012}_{-0.0012}$	β_5^2	-0.45	$-0.4^{+2.0}_{-1.9}$	c_{SPT}^{220}	1.0144	$1.020^{+0.048}_{-0.043}$
τ	0.0972	$0.100^{+0.030}_{-0.027}$	β_1^3	0.84	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6888	$0.687^{+0.027}_{-0.028}$
n_s	0.9593	$0.957^{+0.013}_{-0.013}$	β_2^3	-0.55	$-0.5^{+2.0}_{-1.9}$	Ω_m	0.3112	$0.313^{+0.028}_{-0.027}$
n_{run}	-0.0084	$-0.016^{+0.017}_{-0.017}$	β_3^3	0.01	$0.2^{+2.0}_{-2.0}$	σ_8	0.0689	$0.833^{+0.020}_{-0.019}$
$\log[10^{10} A_s]$	3.105	$3.113^{+0.057}_{-0.051}$	β_4^3	-0.58	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.69	$11.9^{+2.3}_{-2.2}$
A_{100}^{PS}	182	193^{+80}_{-80}	β_5^3	-0.41	$-0.3^{+2.0}_{-1.9}$	H_0	67.61	$67.6^{+2.1}_{-2.0}$
A_{143}^{PS}	77.9	80^{+20}_{-20}	β_1^4	-0.15	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.231	$2.25^{+0.13}_{-0.11}$
A_{217}^{PS}	66.8	67^{+20}_{-20}	β_2^4	-0.34	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14225	$0.1426^{+0.0042}_{-0.0041}$
A_{143}^{CIB}	2.61	—	β_3^4	-0.29	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09617	$0.0964^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	45.9	44^{+9}_{-9}	β_4^4	0.36	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247775	$0.24781^{+0.00025}_{-0.00024}$
A_{143}^{tSZ}	3.91	—	β_5^4	0.40	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8367	$1.840^{+0.022}_{-0.022}$
$r_{PS143/217}$	0.810	> 0.727	$A_{\text{PS,ACT}}^{148}$	10.54	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.795	$13.788^{+0.090}_{-0.093}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.5	$81.1^{+7.7}_{-7.9}$	z_*	1090.16	$1090.1^{+1.0}_{-1.0}$
n^{CIB}	0.507	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.68	$7.52^{+3.1}_{-2.6}$	r_*	144.70	$144.55^{+0.99}_{-0.99}$
$c_{100/143}$	1.00064	$1.00063^{+0.00080}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.23	$10.28^{+0.99}_{-0.97}$	θ_*	1.04154	$1.0415^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99931	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.2	$77.7^{+8.1}_{-7.9}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
$\xi^{tSZ-CIB}$	0.01	—	$r_{\text{PS}}^{95/150}$	0.753	> 0.669	r_{drag}	147.41	$147.2^{+1.0}_{-1.0}$
A^{kSZ}	2.68	—	$r_{\text{PS}}^{95/220}$	0.496	$0.56^{+0.25}_{-0.21}$	k_D	0.14031	$0.1406^{+0.0012}_{-0.0012}$
β_1^1	0.74	$0.7^{+1.5}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9154	> 0.905	θ_D	0.16117	$0.16105^{+0.00070}_{-0.00069}$
β_2^1	-0.04	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.418	< 0.765	z_{EQ}	3384	3393^{+100}_{-99}
β_3^1	0.10	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.845	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8166	$0.815^{+0.019}_{-0.019}$
β_4^1	-0.07	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9910	$0.990^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07164	$0.0716^{+0.0015}_{-0.0015}$
β_5^1	-0.16	$-0.1^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0047	$1.003^{+0.027}_{-0.026}$	$H(0.57)$	0.00031034	$0.0003105^{+0.0000032}_{-0.0000030}$
β_1^2	-0.998	$-1.16^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9873	$0.987^{+0.015}_{-0.014}$	$DA(0.57)$	1387.3	1387^{+28}_{-28}
β_2^2	-0.38	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9615	$0.961^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10526.80$; R-1 = 0.01688

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.63 lensing_likelihood_v3.ref.clik.lensing: 11.40 commander_v3.light.clik: -9.21 CAMspec_v6.2TN_2013_01_18.clik: 7817.00 actspt_2013_01.clik: 692.93

11.15 base_nrun_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02230	$0.02235^{+0.00053}_{-0.00052}$	β_3^2	-0.10	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9838	$0.981^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.11884	$0.1189^{+0.0035}_{-0.0034}$	β_4^2	0.24	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9840	$0.986^{+0.019}_{-0.018}$
θ	1.04149	$1.0415^{+0.0011}_{-0.0011}$	β_5^2	-0.29	$-0.4^{+2.0}_{-1.9}$	c_{SPT}^{220}	1.0125	$1.020^{+0.048}_{-0.043}$
τ	0.0990	$0.103^{+0.031}_{-0.028}$	β_1^3	0.84	$0.8^{+1.8}_{-1.9}$	Ω_Λ	0.6925	$0.692^{+0.020}_{-0.021}$
n_s	0.9600	$0.958^{+0.011}_{-0.011}$	β_2^3	-0.39	$-0.5^{+2.0}_{-1.9}$	Ω_m	0.3075	$0.308^{+0.021}_{-0.020}$
n_{run}	-0.0111	$-0.017^{+0.017}_{-0.017}$	β_3^3	0.02	$0.2^{+2.0}_{-2.0}$	σ_8	0.8297	$0.832^{+0.026}_{-0.024}$
$\log[10^{10} A_s]$	3.108	$3.116^{+0.064}_{-0.058}$	β_4^3	-0.50	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.80	$12.1^{+2.5}_{-2.3}$
A_{100}^{PS}	182	192^{+80}_{-80}	β_5^3	-0.59	$-0.3^{+2.0}_{-1.9}$	H_0	67.90	$67.9^{+1.5}_{-1.5}$
A_{143}^{PS}	78.0	80^{+20}_{-20}	β_1^4	-0.13	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.237	$2.26^{+0.15}_{-0.13}$
A_{217}^{PS}	67.0	67^{+20}_{-20}	β_2^4	-0.40	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14179	$0.1419^{+0.0034}_{-0.0033}$
A_{143}^{CIB}	2.74	—	β_3^4	-0.23	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09627	$0.0964^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	46.0	44^{+9}_{-9}	β_4^4	0.095	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247808	$0.24783^{+0.00023}_{-0.00022}$
A_{143}^{tSZ}	4.15	—	β_5^4	0.35	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8348	$1.837^{+0.020}_{-0.020}$
$r_{PS143/217}$	0.812	> 0.725	$A_{\text{PS,ACT}}^{148}$	10.39	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.782	$13.777^{+0.075}_{-0.077}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.9	$81.1^{+7.6}_{-7.8}$	z_*	1090.01	$1089.96^{+0.80}_{-0.81}$
n^{CIB}	0.503	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.31	$7.51^{+3.1}_{-2.6}$	r_*	144.78	$144.71^{+0.88}_{-0.87}$
$c_{100/143}$	1.00060	$1.00063^{+0.00080}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.05	$10.27^{+0.99}_{-0.96}$	θ_*	1.04164	$1.0416^{+0.0011}_{-0.0011}$
$c_{217/143}$	0.99925	$0.9994^{+0.0021}_{-0.0020}$	$A_{\text{PS,SPT}}^{220}$	76.8	$77.7^{+8.1}_{-7.9}$	z_{drag}	1059.74	$1059.9^{+1.2}_{-1.2}$
$\xi^{tSZ-CIB}$	0.01	—	$r_{\text{PS}}^{95/150}$	0.763	> 0.670	r_{drag}	147.47	$147.39^{+0.94}_{-0.93}$
A^{kSZ}	2.98	—	$r_{\text{PS}}^{95/220}$	0.515	$0.56^{+0.25}_{-0.21}$	k_D	0.14031	$0.1404^{+0.0012}_{-0.0012}$
β_1^1	0.70	$0.7^{+1.5}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9179	> 0.905	θ_D	0.16110	$0.16103^{+0.00068}_{-0.00068}$
β_2^1	-0.20	$0.0^{+1.9}_{-1.8}$	$A_{\text{dust,s}}$	0.431	< 0.764	z_{EQ}	3373	3376^{+80}_{-79}
β_3^1	0.05	$0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.847	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8189	$0.818^{+0.015}_{-0.015}$
β_4^1	0.02	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9909	$0.991^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07184	$0.0718^{+0.0012}_{-0.0011}$
β_5^1	-0.06	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0021	$1.004^{+0.027}_{-0.026}$	$H(0.57)$	0.00031080	$0.0003109^{+0.0000025}_{-0.0000024}$
β_1^2	-1.01	$-1.16^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9868	$0.987^{+0.015}_{-0.014}$	$DA(0.57)$	1383.4	1383^{+21}_{-20}
β_2^2	-0.44	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9596	$0.961^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10517.89$; R-1 = 0.01602

χ_{eff}^2 : BAO - DR9: 0.31 DR7: 1.07 6DF: 0.02 CMB - lowlike.v22.light.clik: 2014.67 commander.v3.light.clik: -9.96 CAMspec.v6.2TN_2013.01.18.clik: 7817.45 actspt_2013.01.clik: 694.25

11.16 base_nrun_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02234	$0.02249^{+0.00059}_{-0.00056}$	β_3^2	-0.06	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9842	$0.982^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.11736	$0.1174^{+0.0048}_{-0.0046}$	β_4^2	0.32	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9849	$0.987^{+0.019}_{-0.019}$
θ	1.04171	$1.0418^{+0.0013}_{-0.0012}$	β_5^2	-0.33	$-0.4^{+2.0}_{-2.0}$	c_{SPT}^{220}	1.0135	$1.021^{+0.047}_{-0.044}$
τ	0.0990	$0.106^{+0.033}_{-0.029}$	β_1^3	0.60	$0.8^{+1.8}_{-1.9}$	Ω_Λ	0.7013	$0.702^{+0.026}_{-0.029}$
n_s	0.9635	$0.962^{+0.013}_{-0.014}$	β_2^3	-0.81	$-0.5^{+1.9}_{-2.0}$	Ω_m	0.2987	$0.298^{+0.029}_{-0.026}$
n_{run}	-0.0078	$-0.017^{+0.017}_{-0.018}$	β_3^3	0.33	$0.2^{+2.0}_{-2.0}$	σ_8	0.8243	$0.829^{+0.028}_{-0.027}$
$\log[10^{10} A_s]$	3.103	$3.120^{+0.067}_{-0.059}$	β_4^3	-0.48	$-0.5^{+2.0}_{-2.0}$	z_{re}	11.75	$12.3^{+2.5}_{-2.4}$
A_{100}^{PS}	184	193^{+80}_{-80}	β_5^3	-0.24	$-0.3^{+2.0}_{-1.9}$	H_0	68.54	$68.7^{+2.1}_{-2.1}$
A_{143}^{PS}	77.3	79^{+20}_{-20}	β_1^4	-0.46	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.227	$2.27^{+0.16}_{-0.13}$
A_{217}^{PS}	65.1	66^{+20}_{-20}	β_2^4	-0.46	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14035	$0.1405^{+0.0045}_{-0.0044}$
A_{143}^{CIB}	2.67	—	β_3^4	-0.24	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09619	$0.0965^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	46.2	44^{+9}_{-9}	β_4^4	0.12	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247827	$0.24789^{+0.00025}_{-0.00024}$
A_{143}^{tSZ}	3.92	—	β_5^4	0.31	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8265	$1.831^{+0.025}_{-0.025}$
$r_{\text{PS}143/217}$	0.813	> 0.722	$A_{\text{PS,ACT}}^{148}$	10.43	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.765	$13.748^{+0.089}_{-0.096}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.9	$81.3^{+7.7}_{-8.0}$	z_*	1089.83	$1089.65^{+0.95}_{-0.99}$
n^{CIB}	0.511	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.43	$7.53^{+3.1}_{-2.7}$	r_*	145.13	$145.0^{+1.1}_{-1.1}$
$c_{100/143}$	1.00065	$1.00064^{+0.00079}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.11	$10.3^{+1.0}_{-0.97}$	θ_*	1.04185	$1.0419^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99926	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.8	$77.9^{+8.1}_{-7.7}$	z_{drag}	1059.74	$1060.1^{+1.3}_{-1.2}$
$\xi^{\text{tSZ-CIB}}$	0.03	—	$r_{\text{PS}}^{95/150}$	0.759	> 0.669	r_{drag}	147.82	$147.6^{+1.1}_{-1.1}$
$A^{k\text{SZ}}$	3.40	—	$r_{\text{PS}}^{95/220}$	0.514	$0.56^{+0.25}_{-0.21}$	k_D	0.13998	$0.1403^{+0.0013}_{-0.0013}$
β_1^1	0.62	$0.6^{+1.5}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9199	> 0.904	θ_D	0.16112	$0.16093^{+0.00069}_{-0.00070}$
β_2^1	0.05	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.419	< 0.762	z_{EQ}	3338	3343^{+110}_{-100}
β_3^1	0.23	$0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.825	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8255	$0.825^{+0.021}_{-0.021}$
β_4^1	-0.14	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9909	$0.991^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07236	$0.0724^{+0.0016}_{-0.0016}$
β_5^1	-0.04	$-0.1^{+2.0}_{-1.9}$	c_{ACTs}^{217}	1.0031	$1.005^{+0.026}_{-0.026}$	$H(0.57)$	0.00031162	$0.0003121^{+0.0000033}_{-0.0000031}$
β_1^2	-1.20	$-1.16^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9876	$0.987^{+0.014}_{-0.014}$	$DA(0.57)$	1375.1	1373^{+28}_{-28}
β_2^2	-0.43	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9613	$0.962^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10522.68$; R-1 = 0.03067

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.60 commander.v3.light.clik: -9.71 CAMspec.v6.2TN_2013_01_18.clik: 7819.14 actspt_2013_01.clik: 693.82 Hubble - HST: 4.80

11.17 base_nrun_planck_CAMspec_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02239^{+0.00060}_{-0.00057}$	β_3^2	0.12	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9837	$0.982^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.11829	$0.1183^{+0.0049}_{-0.0050}$	β_4^2	0.23	$0.3^{+1.9}_{-2.0}$	c_{SPT}^{150}	0.9845	$0.986^{+0.019}_{-0.019}$
θ	1.04153	$1.0416^{+0.0012}_{-0.0012}$	β_5^2	-0.24	$-0.4^{+2.0}_{-2.0}$	c_{SPT}^{220}	1.0134	$1.020^{+0.048}_{-0.044}$
τ	0.0973	$0.104^{+0.032}_{-0.029}$	β_1^3	0.79	$0.8^{+1.8}_{-1.9}$	Ω_Λ	0.6953	$0.696^{+0.029}_{-0.030}$
n_s	0.9610	$0.960^{+0.014}_{-0.014}$	β_2^3	-0.56	$-0.5^{+1.9}_{-2.0}$	Ω_m	0.3047	$0.304^{+0.030}_{-0.029}$
n_{run}	-0.0083	$-0.017^{+0.017}_{-0.018}$	β_3^3	0.38	$0.2^{+2.0}_{-2.0}$	σ_8	0.8264	$0.830^{+0.027}_{-0.026}$
$\log[10^{10} A_s]$	3.102	$3.117^{+0.065}_{-0.058}$	β_4^3	-0.42	$-0.5^{+2.0}_{-2.0}$	z_{re}	11.65	$12.1^{+2.5}_{-2.4}$
A_{100}^{PS}	183	193^{+80}_{-80}	β_5^3	-0.35	$-0.3^{+2.0}_{-1.9}$	H_0	68.08	$68.2^{+2.2}_{-2.2}$
A_{143}^{PS}	78.3	80^{+20}_{-20}	β_1^4	-0.32	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.224	$2.26^{+0.15}_{-0.13}$
A_{217}^{PS}	66.0	67^{+20}_{-20}	β_2^4	-0.32	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14119	$0.1413^{+0.0047}_{-0.0046}$
A_{143}^{CIB}	2.64	—	β_3^4	-0.09	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09612	$0.0964^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	45.6	44^{+9}_{-9}	β_4^4	-0.04	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247792	$0.24785^{+0.00025}_{-0.00024}$
A_{143}^{tSZ}	3.69	—	β_5^4	0.32	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8305	$1.835^{+0.025}_{-0.025}$
$r_{\text{PS}143/217}$	0.811	> 0.723	$A_{\text{PS,ACT}}^{148}$	10.43	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.783	$13.767^{+0.091}_{-0.095}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.1	$81.2^{+7.7}_{-7.9}$	z_*	1090.01	$1089.85^{+0.99}_{-0.99}$
n^{CIB}	0.498	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.47	$7.51^{+3.1}_{-2.7}$	r_*	144.95	$144.8^{+1.1}_{-1.1}$
$c_{100/143}$	1.00064	$1.00063^{+0.00079}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.10	$10.28^{+0.99}_{-0.97}$	θ_*	1.04167	$1.0417^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99929	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.1	$77.8^{+8.1}_{-7.8}$	z_{drag}	1059.63	$1059.9^{+1.2}_{-1.2}$
$\xi^{\text{tSZ-CIB}}$	0.05	—	$r_{\text{PS}}^{95/150}$	0.759	> 0.669	r_{drag}	147.66	$147.5^{+1.1}_{-1.1}$
$A^{k\text{SZ}}$	3.68	—	$r_{\text{PS}}^{95/220}$	0.510	$0.56^{+0.25}_{-0.21}$	k_D	0.14008	$0.1403^{+0.0013}_{-0.0013}$
β_1^1	0.55	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9192	> 0.904	θ_D	0.16117	$0.16100^{+0.00069}_{-0.00071}$
β_2^1	-0.06	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.423	< 0.762	z_{EQ}	3358	3362^{+110}_{-110}
β_3^1	0.24	$0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.862	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8214	$0.821^{+0.022}_{-0.021}$
β_4^1	-0.01	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9907	$0.991^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07201	$0.0721^{+0.0018}_{-0.0017}$
β_5^1	0.08	$-0.1^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0023	$1.004^{+0.027}_{-0.026}$	$H(0.57)$	0.00031092	$0.0003114^{+0.0000034}_{-0.0000032}$
β_1^2	-1.15	$-1.16^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9870	$0.987^{+0.015}_{-0.014}$	$DA(0.57)$	1381.3	1379^{+29}_{-29}
β_2^2	-0.38	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9609	$0.962^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10945.93$; R-1 = 0.01887

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.55 commander.v3.light.clik: -9.54 CAMspec.v6.2TN_2013.01.18.clik: 7818.01 actspt_2013.01.clik: 693.88 SN - SNLS April.2012: 428.93

11.18 base_nrun_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02232^{+0.00058}_{-0.00056}$	β_3^2	-0.04	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9837	$0.981^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1191	$0.1195^{+0.0051}_{-0.0049}$	β_4^2	0.30	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9840	$0.985^{+0.019}_{-0.019}$
θ	1.04141	$1.0414^{+0.0012}_{-0.0012}$	β_5^2	-0.55	$-0.4^{+2.0}_{-2.0}$	c_{SPT}^{220}	1.0154	$1.020^{+0.048}_{-0.044}$
τ	0.0964	$0.102^{+0.032}_{-0.028}$	β_1^3	0.88	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6905	$0.689^{+0.029}_{-0.032}$
n_s	0.9597	$0.957^{+0.014}_{-0.014}$	β_2^3	-0.72	$-0.5^{+1.9}_{-1.9}$	Ω_m	0.3095	$0.311^{+0.032}_{-0.029}$
n_{run}	-0.0071	$-0.017^{+0.017}_{-0.018}$	β_3^3	0.17	$0.2^{+2.0}_{-2.0}$	σ_8	0.8291	$0.833^{+0.027}_{-0.026}$
$\log[10^{10} A_s]$	3.102	$3.116^{+0.064}_{-0.057}$	β_4^3	-0.45	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.61	$12.0^{+2.5}_{-2.4}$
A_{100}^{PS}	183	193^{+80}_{-80}	β_5^3	-0.40	$-0.3^{+2.0}_{-1.9}$	H_0	67.71	$67.7^{+2.3}_{-2.2}$
A_{143}^{PS}	77.6	80^{+20}_{-20}	β_1^4	-0.21	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.223	$2.26^{+0.15}_{-0.13}$
A_{217}^{PS}	65.2	67^{+20}_{-20}	β_2^4	-0.24	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14192	$0.1424^{+0.0048}_{-0.0047}$
A_{143}^{CIB}	2.68	—	β_3^4	-0.26	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09609	$0.0964^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	46.8	44^{+9}_{-9}	β_4^4	0.19	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247767	$0.24782^{+0.00025}_{-0.00024}$
A_{143}^{tSZ}	4.07	—	β_5^4	0.25	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8337	$1.840^{+0.026}_{-0.026}$
$r_{\text{PS}143/217}$	0.817	> 0.725	$A_{\text{PS,ACT}}^{148}$	10.38	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.795	$13.784^{+0.092}_{-0.094}$
r_{CIB}	0.9999	—	$A_{\text{PS,ACT}}^{218}$	80.4	$81.1^{+7.7}_{-7.8}$	z_*	1090.15	$1090.0^{+1.0}_{-1.0}$
n^{CIB}	0.518	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.45	$7.49^{+3.1}_{-2.6}$	r_*	144.79	$144.6^{+1.2}_{-1.2}$
$c_{100/143}$	1.00061	$1.00063^{+0.00080}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.03	$10.27^{+0.99}_{-0.96}$	θ_*	1.04156	$1.0416^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99919	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.7	$77.7^{+8.1}_{-7.9}$	z_{drag}	1059.55	$1059.8^{+1.2}_{-1.2}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.755	> 0.669	r_{drag}	147.52	$147.3^{+1.2}_{-1.2}$
$A^{k\text{SZ}}$	3.03	—	$r_{\text{PS}}^{95/220}$	0.502	$0.56^{+0.25}_{-0.21}$	k_D	0.14018	$0.1405^{+0.0013}_{-0.0013}$
β_1^1	0.72	$0.7^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9164	> 0.905	θ_D	0.16121	$0.16105^{+0.00069}_{-0.00069}$
β_2^1	-0.24	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.440	< 0.763	z_{EQ}	3376	3388^{+120}_{-110}
β_3^1	0.20	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.838	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8180	$0.816^{+0.022}_{-0.021}$
β_4^1	-0.01	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9911	$0.990^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07173	$0.0717^{+0.0017}_{-0.0017}$
β_5^1	0.06	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0030	$1.003^{+0.027}_{-0.026}$	$H(0.57)$	0.00031041	$0.0003106^{+0.0000034}_{-0.0000032}$
β_1^2	-1.06	$-1.16^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9872	$0.987^{+0.015}_{-0.014}$	$DA(0.57)$	1386.1	1386^{+30}_{-30}
β_2^2	-0.39	$-0.3^{+2.0}_{-2.0}$	c_{ACTe}^{217}	0.9608	$0.961^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10647.44$; R-1 = 0.01405

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.55 commander.v3.light.clik: -8.98 CAMspec.v6.2TN_2013_01_18.clik: 7817.72 actspt_2013_01.clik: 693.68 SN - Union2.1: 130.39

11.19 base_nrun_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02237	$0.0224^{+0.0015}_{-0.0012}$	z_{re}	10.63	$10.9^{+2.5}_{-2.4}$	z_{drag}	1059.74	$1059.9^{+2.7}_{-2.4}$
$\Omega_c h^2$	0.1162	$0.116^{+0.013}_{-0.014}$	H_0	68.3	$68.6^{+6.7}_{-5.7}$	r_{drag}	148.10	$148.1^{+2.9}_{-2.9}$
θ	1.03964	$1.0401^{+0.0044}_{-0.0045}$	$10^9 A_s$	2.210	$2.22^{+0.16}_{-0.15}$	k_D	0.13970	$0.1397^{+0.0029}_{-0.0029}$
τ	0.0864	$0.090^{+0.030}_{-0.026}$	$\Omega_m h^2$	0.1392	$0.139^{+0.013}_{-0.013}$	θ_D	0.16079	$0.1608^{+0.0012}_{-0.0013}$
n_s	0.963	$0.960^{+0.070}_{-0.054}$	$\Omega_m h^3$	0.09506	$0.0953^{+0.0035}_{-0.0035}$	z_{EQ}	3311	3310^{+300}_{-300}
n_{run}	-0.0059	$-0.011^{+0.048}_{-0.040}$	Y_{He}	0.24784	$0.24786^{+0.00060}_{-0.00051}$	θ_{EQ}	0.829	$0.831^{+0.064}_{-0.055}$
$\log[10^{10} A_s]$	3.095	$3.100^{+0.071}_{-0.068}$	$10^9 A_s e^{-2\tau}$	1.859	$1.855^{+0.077}_{-0.074}$	$r_s/D_v(0.57)$	0.07222	$0.0725^{+0.0052}_{-0.0043}$
A_{SZ}	0.00	—	Age/Gyr	13.818	$13.79^{+0.25}_{-0.29}$	$H(0.57)$	0.0003104	$0.000311^{+0.000011}_{-0.000083}$
Ω_Λ	0.702	$0.702^{+0.074}_{-0.082}$	z_*	1089.68	$1089.6^{+2.4}_{-2.7}$	$DA(0.57)$	1380	1376^{+77}_{-87}
Ω_m	0.298	$0.298^{+0.082}_{-0.074}$	r_*	145.42	$145.4^{+3.0}_{-2.9}$			
σ_8	0.815	$0.814^{+0.051}_{-0.054}$	θ_*	1.03977	$1.0402^{+0.0043}_{-0.0044}$			

Best-fit $\chi^2_{\text{eff}} = 7557.65$; R-1 = 0.01071
 χ^2_{eff} : CMB - WMAP: 7557.65

11.20 base_nrun_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02237	$0.02232^{+0.00096}_{-0.00090}$	z_{re}	10.70	$11.0^{+2.5}_{-2.4}$	z_{drag}	1059.78	$1059.7^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1165	$0.1168^{+0.0054}_{-0.0052}$	H_0	68.17	$68.2^{+2.0}_{-2.0}$	r_{drag}	148.02	$148.0^{+1.8}_{-1.8}$
θ	1.03961	$1.0400^{+0.0040}_{-0.0042}$	$10^9 A_s$	2.215	$2.23^{+0.15}_{-0.13}$	k_D	0.13979	$0.1398^{+0.0024}_{-0.0023}$
τ	0.0871	$0.090^{+0.031}_{-0.026}$	$\Omega_m h^2$	0.1395	$0.1398^{+0.0054}_{-0.0054}$	θ_D	0.16078	$0.1609^{+0.0011}_{-0.0011}$
n_s	0.9621	$0.954^{+0.039}_{-0.038}$	$\Omega_m h^3$	0.09510	$0.0952^{+0.0035}_{-0.0034}$	z_{EQ}	3318	3324^{+130}_{-130}
n_{run}	-0.0073	$-0.014^{+0.032}_{-0.032}$	Y_{He}	0.247840	$0.24782^{+0.00041}_{-0.00039}$	θ_{EQ}	0.8276	$0.827^{+0.022}_{-0.022}$
$\log[10^{10} A_s]$	3.098	$3.102^{+0.067}_{-0.061}$	$10^9 A_s e^{-2\tau}$	1.8613	$1.857^{+0.045}_{-0.046}$	$r_s/D_v(0.57)$	0.07212	$0.0721^{+0.0015}_{-0.0015}$
A_{SZ}	0.00	—	Age/Gyr	13.821	$13.82^{+0.17}_{-0.17}$	$H(0.57)$	0.00031029	$0.0003104^{+0.0000045}_{-0.0000045}$
Ω_Λ	0.6998	$0.699^{+0.024}_{-0.027}$	z_*	1089.71	$1089.8^{+1.2}_{-1.2}$	$DA(0.57)$	1381.8	1382^{+29}_{-29}
Ω_m	0.3002	$0.301^{+0.027}_{-0.024}$	r_*	145.33	$145.3^{+1.6}_{-1.6}$			
σ_8	0.8169	$0.817^{+0.037}_{-0.037}$	θ_*	1.03974	$1.0401^{+0.0040}_{-0.0041}$			

Best-fit $\chi^2_{\text{eff}} = 7558.83$; R-1 = 0.01636
 χ^2_{eff} : BAO - 6DF: 0.04 DR7: 0.55 DR9: 0.63 CMB - WMAP: 7557.61

11.21 base_nrun_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02292	$0.0230^{+0.0011}_{-0.0011}$	z_{re}	11.23	$10.6^{+2.4}_{-2.3}$	z_{drag}	1060.62	$1060.8^{+2.4}_{-2.3}$
$\Omega_c h^2$	0.1110	$0.1092^{+0.0089}_{-0.0085}$	H_0	71.29	$72.1^{+4.0}_{-4.0}$	r_{drag}	148.89	$149.3^{+2.3}_{-2.3}$
θ	1.04148	$1.0412^{+0.0041}_{-0.0044}$	$10^9 A_s$	2.226	$2.19^{+0.15}_{-0.13}$	k_D	0.13928	$0.1389^{+0.0026}_{-0.0026}$
τ	0.0970	$0.091^{+0.030}_{-0.027}$	$\Omega_m h^2$	0.1346	$0.1329^{+0.0086}_{-0.0081}$	θ_D	0.16052	$0.1604^{+0.0012}_{-0.0011}$
n_s	0.980	$0.991^{+0.050}_{-0.050}$	$\Omega_m h^3$	0.09597	$0.0957^{+0.0035}_{-0.0036}$	z_{EQ}	3201	3160^{+210}_{-190}
n_{run}	-0.0021	$0.008^{+0.038}_{-0.039}$	Y_{He}	0.248072	$0.24812^{+0.00046}_{-0.00046}$	θ_{EQ}	0.8533	$0.863^{+0.041}_{-0.041}$
$\log[10^{10} A_s]$	3.103	$3.085^{+0.067}_{-0.061}$	$10^9 A_s e^{-2\tau}$	1.833	$1.823^{+0.058}_{-0.056}$	$r_s/D_v(0.57)$	0.07446	$0.0751^{+0.0032}_{-0.0031}$
A_{sz}	0.96	—	Age/Gyr	13.681	$13.66^{+0.21}_{-0.21}$	$H(0.57)$	0.0003155	$0.0003167^{+0.0000076}_{-0.0000069}$
Ω_Λ	0.7352	$0.743^{+0.039}_{-0.046}$	z_*	1088.56	$1088.3^{+1.8}_{-1.7}$	$DA(0.57)$	1340	1331^{+52}_{-51}
Ω_m	0.2648	$0.257^{+0.046}_{-0.039}$	r_*	146.36	$146.8^{+2.2}_{-2.2}$			
σ_8	0.8037	$0.794^{+0.046}_{-0.042}$	θ_*	1.04156	$1.0413^{+0.0041}_{-0.0043}$			

Best-fit $\chi^2_{\text{eff}} = 7559.99$; R-1 = 0.02015

χ^2_{eff} : CMB - WMAP: 7558.83 Hubble - HST: 1.15

11.22 base_nrun_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02263	$0.0229^{+0.0013}_{-0.0012}$	z_{re}	10.99	$10.7^{+2.5}_{-2.3}$	z_{drag}	1060.09	$1060.5^{+2.7}_{-2.5}$
$\Omega_c h^2$	0.1125	$0.110^{+0.010}_{-0.010}$	H_0	70.1	$71.5^{+5.4}_{-4.9}$	r_{drag}	148.80	$149.2^{+2.4}_{-2.4}$
θ	1.04042	$1.0408^{+0.0043}_{-0.0045}$	$10^9 A_s$	2.212	$2.19^{+0.15}_{-0.13}$	k_D	0.13916	$0.1389^{+0.0026}_{-0.0026}$
τ	0.0926	$0.091^{+0.030}_{-0.027}$	$\Omega_m h^2$	0.1358	$0.1337^{+0.0096}_{-0.0096}$	θ_D	0.16069	$0.1605^{+0.0013}_{-0.0012}$
n_s	0.970	$0.985^{+0.060}_{-0.056}$	$\Omega_m h^3$	0.09523	$0.0954^{+0.0035}_{-0.0036}$	z_{EQ}	3230	3180^{+230}_{-230}
n_{run}	-0.0055	$0.005^{+0.042}_{-0.041}$	Y_{He}	0.24795	$0.24806^{+0.00055}_{-0.00051}$	θ_{EQ}	0.8459	$0.858^{+0.052}_{-0.046}$
$\log[10^{10} A_s]$	3.096	$3.086^{+0.069}_{-0.063}$	$10^9 A_s e^{-2\tau}$	1.838	$1.826^{+0.061}_{-0.060}$	$r_s/D_v(0.57)$	0.07365	$0.0747^{+0.0042}_{-0.0037}$
A_{sz}	0.67	—	Age/Gyr	13.750	$13.70^{+0.24}_{-0.26}$	$H(0.57)$	0.0003132	$0.000316^{+0.000010}_{-0.000082}$
Ω_Λ	0.724	$0.736^{+0.052}_{-0.058}$	z_*	1089.04	$1088.5^{+2.1}_{-2.1}$	$DA(0.57)$	1356	1339^{+65}_{-68}
Ω_m	0.276	$0.264^{+0.058}_{-0.052}$	r_*	146.19	$146.6^{+2.4}_{-2.4}$			
σ_8	0.8038	$0.795^{+0.047}_{-0.046}$	θ_*	1.04053	$1.0409^{+0.0043}_{-0.0044}$			

Best-fit $\chi^2_{\text{eff}} = 7984.94$; R-1 = 0.01696

χ^2_{eff} : CMB - WMAP: 7558.08 SN - SNLS April_2012: 426.86

11.23 base_nrun_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02247	$0.0225_{-0.0011}^{+0.0013}$	z_{re}	10.77	$10.9_{-2.4}^{+2.5}$	z_{drag}	1059.86	$1060.0_{-2.4}^{+2.6}$
$\Omega_c h^2$	0.1147	$0.115_{-0.011}^{+0.011}$	H_0	69.0	$69.3_{-4.7}^{+5.3}$	r_{drag}	148.38	$148.4_{-2.5}^{+2.5}$
θ	1.03987	$1.0403_{-0.0044}^{+0.0043}$	$10^9 A_s$	2.209	$2.21_{-0.14}^{+0.16}$	k_D	0.13949	$0.1395_{-0.0026}^{+0.0027}$
τ	0.0888	$0.090_{-0.026}^{+0.030}$	$\Omega_m h^2$	0.1379	$0.138_{-0.010}^{+0.010}$	θ_D	0.16074	$0.1608_{-0.0012}^{+0.0012}$
n_s	0.965	$0.965_{-0.053}^{+0.060}$	$\Omega_m h^3$	0.09510	$0.0953_{-0.0035}^{+0.0035}$	z_{EQ}	3279	3275_{-240}^{+250}
n_{run}	-0.0065	$-0.007_{-0.039}^{+0.043}$	Y_{He}	0.24788	$0.24791_{-0.00049}^{+0.00053}$	θ_{EQ}	0.8355	$0.838_{-0.046}^{+0.052}$
$\log[10^{10} A_s]$	3.095	$3.097_{-0.064}^{+0.070}$	$10^9 A_s e^{-2\tau}$	1.849	$1.847_{-0.063}^{+0.066}$	$r_s/D_v(0.57)$	0.07276	$0.0730_{-0.0036}^{+0.0041}$
A_{sz}	0.54	—	Age/Gyr	13.794	$13.77_{-0.25}^{+0.24}$	$H(0.57)$	0.0003114	$0.0003123_{-0.0000076}^{+0.0000094}$
Ω_Λ	0.710	$0.711_{-0.063}^{+0.058}$	z_*	1089.43	$1089.4_{-2.2}^{+2.1}$	$DA(0.57)$	1371	1367_{-69}^{+64}
Ω_m	0.290	$0.289_{-0.058}^{+0.063}$	r_*	145.72	$145.7_{-2.5}^{+2.5}$			
σ_8	0.8102	$0.809_{-0.048}^{+0.047}$	θ_*	1.04000	$1.0404_{-0.0044}^{+0.0042}$			

Best-fit $\chi_{\text{eff}}^2 = 7687.66$; R-1 = 0.01196

χ_{eff}^2 : CMB - WMAP: 7557.68 SN - Union2.1: 129.98

12 nrun+r

12.1 base_nrun_r_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.02235^{+0.00064}_{-0.00061}$	β_2^1	0.34	$0.1^{+1.9}_{-1.9}$	z_{re}	11.49	$11.9^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.1194	$0.1192^{+0.0054}_{-0.0053}$	β_3^1	-0.10	$0.0^{+1.9}_{-2.0}$	r_{10}	0.000	< 0.134
θ	1.04132	$1.0414^{+0.0012}_{-0.0013}$	β_4^1	-0.04	$0.0^{+2.0}_{-2.0}$	H_0	67.50	$67.8^{+2.5}_{-2.4}$
τ	0.0945	$0.101^{+0.033}_{-0.028}$	β_5^1	-0.02	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.257
n_s	0.9613	$0.959^{+0.016}_{-0.016}$	β_1^2	-0.11	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s$	2.215	$2.25^{+0.15}_{-0.13}$
n_{run}	-0.0037	$-0.020^{+0.021}_{-0.022}$	β_2^2	0.13	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.1422	$0.1422^{+0.0051}_{-0.0050}$
$\log[10^{10} A_s]$	3.098	$3.113^{+0.065}_{-0.057}$	β_3^2	0.03	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09600	$0.0964^{+0.0013}_{-0.0012}$
r_{pivot}	0.000	< 0.226	β_4^2	0.19	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247739	$0.24783^{+0.00027}_{-0.00026}$
A_{100}^{PS}	134	164^{+100}_{-100}	β_5^2	-0.06	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8334	$1.838^{+0.027}_{-0.026}$
A_{143}^{PS}	58.7	54^{+30}_{-30}	β_1^3	-0.01	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.806	$13.78^{+0.10}_{-0.10}$
A_{217}^{PS}	128.0	116^{+30}_{-30}	β_2^3	0.06	$-0.1^{+2.0}_{-1.9}$	z_*	1090.27	$1090.0^{+1.1}_{-1.1}$
A_{143}^{CIB}	7.17	—	β_3^3	-0.02	$0.0^{+1.9}_{-2.0}$	r_*	144.74	$144.6^{+1.2}_{-1.2}$
A_{217}^{CIB}	19.9	24^{+10}_{-10}	β_4^3	-0.18	$-0.2^{+2.0}_{-2.0}$	θ_*	1.04147	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	8.43	—	β_5^3	0.07	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.44	$1059.9^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.795	> 0.660	β_1^4	-0.13	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.49	$147.3^{+1.2}_{-1.2}$
r_{CIB}	0.642	—	β_2^4	0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.14016	$0.1405^{+0.0013}_{-0.0013}$
n^{CIB}	0.115	$0.25^{+0.27}_{-0.30}$	β_3^4	0.07	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16128	$0.16101^{+0.00074}_{-0.00073}$
$c_{100/143}$	1.00061	$1.00061^{+0.00077}_{-0.00077}$	β_4^4	0.11	$0.0^{+2.0}_{-1.9}$	z_{EQ}	3383	3382^{+120}_{-120}
$c_{217/143}$	0.99672	$0.9967^{+0.0026}_{-0.0025}$	β_5^4	0.16	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8164	$0.817^{+0.023}_{-0.023}$
$\xi^{tSZ-CIB}$	0.49	—	Ω_Λ	0.6878	$0.690^{+0.031}_{-0.034}$	$r_s/D_v(0.57)$	0.07159	$0.0717^{+0.0019}_{-0.0018}$
A^{kSZ}	0.97	—	Ω_m	0.3122	$0.310^{+0.034}_{-0.031}$	$H(0.57)$	0.00031005	$0.0003108^{+0.0000038}_{-0.0000035}$
β_1^1	0.52	$0.6^{+1.7}_{-1.7}$	σ_8	0.8302	$0.831^{+0.028}_{-0.026}$	$DA(0.57)$	1389.1	1384^{+33}_{-33}

Best-fit $\chi_{\text{eff}}^2 = 9802.47$; R-1 = 0.01908

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.50 commander_v3.light.clik: -8.36 CAMspec_v6.2TN_2013_01_18.clik: 7796.32

12.2 base_nrun_r_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02236^{+0.00064}_{-0.00060}$	β_2^1	-0.01	$0.1^{+1.9}_{-1.9}$	z_{re}	11.50	$12.0^{+2.4}_{-2.2}$
$\Omega_c h^2$	0.11916	$0.1192^{+0.0045}_{-0.0045}$	β_3^1	0.00	$0.0^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.126
θ	1.04139	$1.0414^{+0.0012}_{-0.0012}$	β_4^1	-0.02	$0.0^{+2.0}_{-2.0}$	H_0	67.69	$67.8^{+2.2}_{-2.1}$
τ	0.0951	$0.101^{+0.031}_{-0.027}$	β_5^1	-0.04	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.243
n_s	0.9608	$0.960^{+0.015}_{-0.015}$	β_1^2	0.06	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.218	$2.25^{+0.14}_{-0.11}$
n_{run}	-0.0069	$-0.019^{+0.020}_{-0.021}$	β_2^2	-0.25	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14202	$0.1422^{+0.0042}_{-0.0042}$
$\log[10^{10} A_s]$	3.099	$3.114^{+0.060}_{-0.052}$	β_3^2	-0.31	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09614	$0.0964^{+0.0012}_{-0.0012}$
r_{pivot}	0.000	< 0.215	β_4^2	0.13	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247776	$0.24783^{+0.00027}_{-0.00026}$
A_{100}^{PS}	182	162^{+100}_{-100}	β_5^2	-0.24	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8337	$1.838^{+0.022}_{-0.022}$
A_{143}^{PS}	43	54^{+30}_{-30}	β_1^3	-0.07	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.794	$13.779^{+0.094}_{-0.098}$
A_{217}^{PS}	115.6	116^{+30}_{-30}	β_2^3	-0.11	$-0.1^{+1.9}_{-1.9}$	z_*	1090.14	$1090.0^{+1.0}_{-1.0}$
A_{143}^{CIB}	11.6	—	β_3^3	0.01	$0.0^{+1.9}_{-1.9}$	r_*	144.75	$144.6^{+1.0}_{-1.0}$
A_{217}^{CIB}	24.5	24^{+10}_{-10}	β_4^3	-0.28	$-0.2^{+2.0}_{-1.9}$	θ_*	1.04153	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.36	—	β_5^3	-0.04	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.59	$1059.9^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.763	> 0.663	β_1^4	0.05	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.47	$147.3^{+1.0}_{-1.0}$
r_{CIB}	0.532	—	β_2^4	-0.14	$-0.1^{+2.0}_{-2.0}$	k_D	0.14025	$0.1405^{+0.0012}_{-0.0012}$
n^{CIB}	0.258	$0.25^{+0.26}_{-0.30}$	β_3^4	-0.39	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16117	$0.16100^{+0.00074}_{-0.00074}$
$c_{100/143}$	1.00057	$1.00062^{+0.00077}_{-0.00078}$	β_4^4	0.19	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3378	3382^{+100}_{-100}
$c_{217/143}$	0.99639	$0.9966^{+0.0025}_{-0.0025}$	β_5^4	0.02	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8176	$0.817^{+0.020}_{-0.019}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6901	$0.691^{+0.027}_{-0.029}$	$r_s/D_v(0.57)$	0.07171	$0.0717^{+0.0016}_{-0.0015}$
A^{kSZ}	2.36	—	Ω_m	0.3099	$0.309^{+0.029}_{-0.027}$	$H(0.57)$	0.00031041	$0.0003108^{+0.0000034}_{-0.0000032}$
β_1^1	0.32	$0.6^{+1.7}_{-1.7}$	σ_8	0.0688	$0.832^{+0.021}_{-0.020}$	$DA(0.57)$	1386.3	1384^{+28}_{-29}

Best-fit $\chi_{\text{eff}}^2 = 9813.71$; R-1 = 0.01399

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.47 lensing_likelihood.v3.ref.clik.lensing: 11.37 commander.v3.light.clik: -9.20 CAMspec.v6.2TN_2013_01_18.clik: 7797.07

12.3 base_nrun_r_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02224	$0.02239^{+0.00057}_{-0.00055}$	β_2^1	0.11	$0.1^{+1.9}_{-1.9}$	z_{re}	11.56	$12.0^{+2.5}_{-2.3}$
$\Omega_c h^2$	0.11867	$0.1185^{+0.0035}_{-0.0034}$	β_3^1	0.05	$0.0^{+1.9}_{-2.0}$	r_{10}	0.000	< 0.136
θ	1.04149	$1.0415^{+0.0011}_{-0.0011}$	β_4^1	-0.23	$0.0^{+2.0}_{-2.0}$	H_0	67.91	$68.1^{+1.6}_{-1.6}$
τ	0.0960	$0.102^{+0.032}_{-0.028}$	β_5^1	-0.13	$0.0^{+1.9}_{-1.9}$	r	0.000	< 0.262
n_s	0.9610	$0.961^{+0.013}_{-0.013}$	β_1^2	-0.18	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s$	2.220	$2.25^{+0.15}_{-0.13}$
n_{run}	-0.0089	$-0.020^{+0.020}_{-0.022}$	β_2^2	-0.02	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14156	$0.1416^{+0.0034}_{-0.0032}$
$\log[10^{10} A_s]$	3.100	$3.114^{+0.065}_{-0.057}$	β_3^2	-0.08	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09613	$0.0964^{+0.0013}_{-0.0013}$
r_{pivot}	0.000	< 0.231	β_4^2	0.14	$0.1^{+1.9}_{-2.0}$	Y_{He}	0.247785	$0.24785^{+0.00024}_{-0.00024}$
A_{100}^{PS}	173	163^{+100}_{-100}	β_5^2	-0.12	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8318	$1.836^{+0.020}_{-0.020}$
A_{143}^{PS}	50	54^{+30}_{-30}	β_1^3	-0.17	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.787	$13.770^{+0.079}_{-0.080}$
A_{217}^{PS}	120.9	116^{+30}_{-30}	β_2^3	0.00	$-0.1^{+1.9}_{-2.0}$	z_*	1090.07	$1089.87^{+0.85}_{-0.84}$
A_{143}^{CIB}	10.8	—	β_3^3	-0.09	$0.0^{+1.9}_{-1.9}$	r_*	144.86	$144.79^{+0.86}_{-0.87}$
A_{217}^{CIB}	24.7	24^{+10}_{-10}	β_4^3	-0.13	$-0.2^{+2.0}_{-1.9}$	θ_*	1.04163	$1.0417^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	6.69	—	β_5^3	-0.09	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.63	$1059.9^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.774	> 0.661	β_1^4	-0.24	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.58	$147.45^{+0.93}_{-0.93}$
r_{CIB}	0.617	—	β_2^4	-0.07	$-0.1^{+1.9}_{-1.9}$	k_D	0.14015	$0.1404^{+0.0012}_{-0.0012}$
n^{CIB}	0.210	$0.25^{+0.27}_{-0.30}$	β_3^4	-0.14	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16118	$0.16099^{+0.00072}_{-0.00071}$
$c_{100/143}$	1.00059	$1.00061^{+0.00077}_{-0.00078}$	β_4^4	0.06	$0.0^{+2.0}_{-1.9}$	z_{EQ}	3367	3367^{+80}_{-77}
$c_{217/143}$	0.99663	$0.9966^{+0.0025}_{-0.0025}$	β_5^4	0.12	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8197	$0.820^{+0.015}_{-0.015}$
$\xi^{tSZ-CIB}$	0.10	—	Ω_Λ	0.6931	$0.695^{+0.020}_{-0.021}$	$r_s/D_v(0.57)$	0.07188	$0.0720^{+0.0012}_{-0.0012}$
A^{kSZ}	0.1	—	Ω_m	0.3069	$0.305^{+0.021}_{-0.020}$	$H(0.57)$	0.00031071	$0.0003112^{+0.0000026}_{-0.0000025}$
β_1^1	0.34	$0.6^{+1.7}_{-1.7}$	σ_8	0.8269	$0.829^{+0.027}_{-0.025}$	$DA(0.57)$	1383.5	1380^{+21}_{-21}

Best-fit $\chi_{\text{eff}}^2 = 9803.08$; R-1 = 0.01424

χ_{eff}^2 : BAO - DR7: 0.99 6DF: 0.02 DR9: 0.35 CMB - lowlike.v22.light.clik: 2014.48 commander.v3.light.clik: -9.75 CAMspec.v6.2TN_2013_01_18.clik: 7796.99

12.4 base_nrun_r_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02240	$0.02257^{+0.00062}_{-0.00060}$	β_2^1	0.02	$0.1^{+1.9}_{-1.9}$	z_{re}	11.89	$12.2^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.11671	$0.1166^{+0.0048}_{-0.0047}$	β_3^1	0.16	$0.0^{+2.0}_{-2.0}$	r_{10}	0.000	< 0.153
θ	1.04184	$1.0419^{+0.0012}_{-0.0012}$	β_4^1	-0.04	$0.0^{+2.0}_{-2.0}$	H_0	68.87	$69.1^{+2.2}_{-2.2}$
τ	0.1011	$0.106^{+0.034}_{-0.029}$	β_5^1	0.10	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.296
n_s	0.9666	$0.966^{+0.016}_{-0.015}$	β_1^2	-0.03	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s$	2.232	$2.26^{+0.15}_{-0.13}$
n_{run}	-0.0078	$-0.022^{+0.022}_{-0.023}$	β_2^2	-0.20	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.13976	$0.1398^{+0.0046}_{-0.0045}$
$\log[10^{10} A_s]$	3.105	$3.118^{+0.067}_{-0.060}$	β_3^2	0.05	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09625	$0.0965^{+0.0012}_{-0.0013}$
r_{pivot}	0.000	< 0.250	β_4^2	0.18	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247853	$0.24793^{+0.00026}_{-0.00026}$
A_{100}^{PS}	177	162^{+100}_{-100}	β_5^2	-0.05	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8230	$1.828^{+0.025}_{-0.025}$
A_{143}^{PS}	42	53^{+30}_{-30}	β_1^3	-0.26	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.752	$13.733^{+0.096}_{-0.098}$
A_{217}^{PS}	115.9	115^{+30}_{-30}	β_2^3	-0.32	$-0.1^{+1.9}_{-2.0}$	z_*	1089.69	$1089.5^{+1.0}_{-0.99}$
A_{143}^{CIB}	11.8	—	β_3^3	-0.04	$0.0^{+1.9}_{-2.0}$	r_*	145.25	$145.2^{+1.1}_{-1.1}$
A_{217}^{CIB}	25.5	23^{+10}_{-10}	β_4^3	-0.18	$-0.2^{+2.0}_{-2.0}$	θ_*	1.04197	$1.0420^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.44	—	β_5^3	-0.19	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.86	$1060.2^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.789	> 0.657	β_1^4	-0.18	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.92	$147.8^{+1.2}_{-1.1}$
r_{CIB}	0.557	—	β_2^4	-0.13	$-0.1^{+1.9}_{-1.9}$	k_D	0.13991	$0.1402^{+0.0013}_{-0.0013}$
n^{CIB}	0.269	$0.24^{+0.27}_{-0.30}$	β_3^4	-0.22	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16107	$0.16085^{+0.00073}_{-0.00073}$
$c_{100/143}$	1.00057	$1.00062^{+0.00078}_{-0.00078}$	β_4^4	-0.22	$0.0^{+2.0}_{-2.0}$	z_{EQ}	3324	3325^{+110}_{-110}
$c_{217/143}$	0.99661	$0.9966^{+0.0025}_{-0.0026}$	β_5^4	0.19	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8283	$0.829^{+0.022}_{-0.021}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7053	$0.707^{+0.027}_{-0.029}$	$r_s/D_v(0.57)$	0.07260	$0.0727^{+0.0017}_{-0.0017}$
A^{kSZ}	1.32	—	Ω_m	0.2947	$0.293^{+0.029}_{-0.027}$	$H(0.57)$	0.00031212	$0.0003127^{+0.0000036}_{-0.0000034}$
β_1^1	0.29	$0.5^{+1.7}_{-1.6}$	σ_8	0.8237	$0.825^{+0.028}_{-0.027}$	$DA(0.57)$	1370.8	1368^{+29}_{-29}

Best-fit $\chi_{\text{eff}}^2 = 9807.83$; R-1 = 0.02429

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.70 commander_v3.light.clik: -10.12 CAMspec_v6.2TN_2013.01.18.clik: 7799.00 Hubble - HST: 4.24

12.5 base_nrun_r_planck_CAMspec_lowl_lowLike_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02232	$0.02248^{+0.00063}_{-0.00061}$	β_2^1	0.20	$0.1^{+1.9}_{-1.9}$	z_{re}	11.35	$12.1^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.11805	$0.1174^{+0.0050}_{-0.0049}$	β_3^1	-0.04	$0.0^{+1.9}_{-2.0}$	r_{10}	0.000	< 0.145
θ	1.04159	$1.0417^{+0.0012}_{-0.0012}$	β_4^1	0.01	$0.0^{+2.0}_{-2.0}$	H_0	68.24	$68.6^{+2.3}_{-2.3}$
τ	0.0941	$0.104^{+0.033}_{-0.029}$	β_5^1	-0.03	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.280
n_s	0.9626	$0.964^{+0.016}_{-0.016}$	β_1^2	-0.12	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s$	2.209	$2.26^{+0.15}_{-0.13}$
n_{run}	-0.0104	$-0.021^{+0.021}_{-0.023}$	β_2^2	-0.17	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14102	$0.1406^{+0.0047}_{-0.0046}$
$\log[10^{10} A_s]$	3.095	$3.116^{+0.066}_{-0.058}$	β_3^2	-0.17	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09623	$0.0964^{+0.0013}_{-0.0013}$
r_{pivot}	0.000	< 0.240	β_4^2	-0.03	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247820	$0.24788^{+0.00026}_{-0.00026}$
A_{100}^{PS}	150	162^{+100}_{-100}	β_5^2	0.00	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8298	$1.831^{+0.026}_{-0.026}$
A_{143}^{PS}	48	53^{+30}_{-30}	β_1^3	-0.03	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.773	$13.752^{+0.097}_{-0.10}$
A_{217}^{PS}	125.2	116^{+30}_{-30}	β_2^3	-0.02	$-0.1^{+1.9}_{-2.0}$	z_*	1089.91	$1089.7^{+1.0}_{-1.0}$
A_{143}^{CIB}	8.44	—	β_3^3	0.00	$0.0^{+1.9}_{-1.9}$	r_*	144.96	$145.0^{+1.1}_{-1.1}$
A_{217}^{CIB}	22.6	24^{+10}_{-10}	β_4^3	-0.14	$-0.2^{+2.0}_{-2.0}$	θ_*	1.04172	$1.0418^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	9.00	—	β_5^3	-0.07	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.78	$1060.1^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.769	> 0.659	β_1^4	-0.04	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.65	$147.6^{+1.2}_{-1.1}$
r_{CIB}	0.667	—	β_2^4	-0.22	$-0.1^{+1.9}_{-1.9}$	k_D	0.14014	$0.1403^{+0.0013}_{-0.0013}$
n^{CIB}	0.139	$0.24^{+0.27}_{-0.30}$	β_3^4	-0.19	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16110	$0.16093^{+0.00073}_{-0.00073}$
$c_{100/143}$	1.00062	$1.00061^{+0.00078}_{-0.00078}$	β_4^4	0.00	$0.0^{+2.0}_{-1.9}$	z_{EQ}	3354	3344^{+110}_{-110}
$c_{217/143}$	0.99674	$0.9966^{+0.0025}_{-0.0025}$	β_5^4	0.00	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8224	$0.825^{+0.022}_{-0.021}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6971	$0.701^{+0.028}_{-0.030}$	$r_s/D_v(0.57)$	0.07211	$0.0724^{+0.0018}_{-0.0017}$
A^{kSZ}	0.0	—	Ω_m	0.3029	$0.299^{+0.030}_{-0.028}$	$H(0.57)$	0.00031123	$0.0003120^{+0.0000037}_{-0.0000034}$
β_1^1	0.47	$0.5^{+1.7}_{-1.7}$	σ_8	0.8226	$0.827^{+0.028}_{-0.027}$	$DA(0.57)$	1379.0	1374^{+30}_{-31}

Best-fit $\chi_{\text{eff}}^2 = 10230.21$; R-1 = 0.01462

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.31 commander_v3.light.clik: -10.38 CAMspec_v6.2TN_2013_01_18.clik: 7797.51 SN - SNLS
 April_2012: 428.77

12.6 base_nrun_r_planck_CAMspec_lowl_lowLike_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02239^{+0.00063}_{-0.00060}$	β_2^1	0.14	$0.1^{+1.9}_{-1.9}$	z_{re}	11.43	$12.0^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.1192	$0.1186^{+0.0051}_{-0.0050}$	β_3^1	0.03	$0.0^{+1.9}_{-2.0}$	r_{10}	0.000	< 0.137
θ	1.04142	$1.0415^{+0.0012}_{-0.0012}$	β_4^1	-0.03	$0.0^{+2.0}_{-2.0}$	H_0	67.70	$68.1^{+2.4}_{-2.3}$
τ	0.0942	$0.102^{+0.033}_{-0.028}$	β_5^1	-0.03	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.264
n_s	0.9606	$0.961^{+0.016}_{-0.016}$	β_1^2	-0.21	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s$	2.216	$2.25^{+0.15}_{-0.13}$
n_{run}	-0.0093	$-0.020^{+0.021}_{-0.022}$	β_2^2	-0.01	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14203	$0.1417^{+0.0049}_{-0.0047}$
$\log[10^{10} A_s]$	3.098	$3.114^{+0.065}_{-0.057}$	β_3^2	-0.15	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09616	$0.0964^{+0.0013}_{-0.0013}$
r_{pivot}	0.000	< 0.231	β_4^2	-0.04	$0.1^{+1.9}_{-2.0}$	Y_{He}	0.247777	$0.24785^{+0.00026}_{-0.00026}$
A_{100}^{PS}	162	163^{+100}_{-100}	β_5^2	-0.09	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8349	$1.836^{+0.026}_{-0.026}$
A_{143}^{PS}	50.2	54^{+30}_{-30}	β_1^3	-0.09	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.793	$13.770^{+0.098}_{-0.099}$
A_{217}^{PS}	123.9	116^{+30}_{-30}	β_2^3	-0.09	$-0.1^{+1.9}_{-2.0}$	z_*	1090.13	$1089.9^{+1.1}_{-1.1}$
A_{143}^{CIB}	8.64	—	β_3^3	0.01	$0.0^{+1.9}_{-1.9}$	r_*	144.75	$144.8^{+1.2}_{-1.2}$
A_{217}^{CIB}	22.8	24^{+10}_{-10}	β_4^3	-0.26	$-0.2^{+2.0}_{-2.0}$	θ_*	1.04157	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	6.75	—	β_5^3	-0.04	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.63	$1060.0^{+1.3}_{-1.3}$
$r_{PS143/217}$	0.771	> 0.661	β_1^4	-0.19	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.47	$147.4^{+1.2}_{-1.2}$
r_{CIB}	0.578	—	β_2^4	-0.15	$-0.1^{+2.0}_{-1.9}$	k_D	0.14025	$0.1404^{+0.0013}_{-0.0013}$
n^{CIB}	0.204	$0.25^{+0.27}_{-0.30}$	β_3^4	-0.09	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16118	$0.16099^{+0.00074}_{-0.00073}$
$c_{100/143}$	1.00060	$1.00061^{+0.00077}_{-0.00078}$	β_4^4	0.09	$0.0^{+2.0}_{-1.9}$	z_{EQ}	3378	3369^{+120}_{-110}
$c_{217/143}$	0.99657	$0.9966^{+0.0025}_{-0.0025}$	β_5^4	-0.05	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8176	$0.820^{+0.022}_{-0.022}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6901	$0.694^{+0.030}_{-0.032}$	$r_s/D_v(0.57)$	0.07171	$0.0719^{+0.0018}_{-0.0017}$
A^{kSZ}	0.8	—	Ω_m	0.3099	$0.306^{+0.032}_{-0.030}$	$H(0.57)$	0.00031045	$0.0003112^{+0.0000036}_{-0.0000034}$
β_1^1	0.49	$0.6^{+1.7}_{-1.7}$	σ_8	0.8277	$0.829^{+0.028}_{-0.026}$	$DA(0.57)$	1386.2	1381^{+31}_{-31}

Best-fit $\chi_{\text{eff}}^2 = 9931.83$; R-1 = 0.01249

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.40 commander.v3.light.clik: -9.85 CAMspec.v6.2TN_2013_01_18.clik: 7796.88 SN - Union2.1: 130.40

12.7 base_nrun_r_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.0232^{+0.0013}_{-0.0011}$	β_2^1	0.19	$0.1^{+1.9}_{-1.9}$	z_{re}	11.5	$19.5^{+6.8}_{-8.7}$
$\Omega_c h^2$	0.1194	$0.1144^{+0.0077}_{-0.0079}$	β_3^1	-0.08	$0.0^{+2.0}_{-2.0}$	r_{10}	0.000	< 0.135
θ	1.04137	$1.0423^{+0.0017}_{-0.0016}$	β_4^1	0.07	$0.0^{+2.0}_{-2.0}$	H_0	67.52	$70.5^{+4.4}_{-3.9}$
τ	0.094	$0.22^{+0.13}_{-0.13}$	β_5^1	0.03	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.293
n_s	0.9612	$0.978^{+0.030}_{-0.027}$	β_1^2	-0.09	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s$	2.21	$2.85^{+0.80}_{-0.66}$
n_{run}	-0.0036	$-0.041^{+0.031}_{-0.038}$	β_2^2	-0.13	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1422	$0.1382^{+0.0069}_{-0.0068}$
$\log[10^{10} A_s]$	3.097	$3.34^{+0.26}_{-0.25}$	β_3^2	-0.22	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09603	$0.0974^{+0.0019}_{-0.0017}$
r_{pivot}	0.000	< 0.217	β_4^2	0.02	$0.1^{+2.0}_{-1.9}$	Y_{He}	0.247742	$0.24817^{+0.00052}_{-0.00046}$
A_{100}^{PS}	151	150^{+100}_{-100}	β_5^2	-0.12	$-0.2^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8333	$1.824^{+0.031}_{-0.031}$
A_{143}^{PS}	54.8	51^{+30}_{-30}	β_1^3	-0.09	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.804	$13.65^{+0.18}_{-0.21}$
A_{217}^{PS}	122.5	116^{+30}_{-30}	β_2^3	-0.03	$-0.1^{+1.9}_{-2.0}$	z_*	1090.26	$1088.6^{+1.9}_{-2.0}$
A_{143}^{CIB}	9.75	—	β_3^3	-0.04	$0.0^{+2.0}_{-2.0}$	r_*	144.74	$145.3^{+1.4}_{-1.4}$
A_{217}^{CIB}	23.1	22^{+10}_{-10}	β_4^3	-0.19	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04152	$1.0423^{+0.0016}_{-0.0015}$
A_{143}^{tSZ}	7.00	—	β_5^3	-0.01	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.44	$1061.4^{+2.4}_{-2.1}$
$r_{PS143/217}$	0.795	> 0.662	β_1^4	-0.08	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.49	$147.7^{+1.3}_{-1.3}$
r_{CIB}	0.604	—	β_2^4	-0.16	$-0.1^{+1.9}_{-1.9}$	k_D	0.14017	$0.1406^{+0.0014}_{-0.0013}$
n^{CIB}	0.203	$0.25^{+0.26}_{-0.30}$	β_3^4	-0.20	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16128	$0.1603^{+0.0011}_{-0.0011}$
$c_{100/143}$	1.00061	$1.00061^{+0.00077}_{-0.00077}$	β_4^4	0.14	$0.1^{+1.9}_{-1.9}$	z_{EQ}	3383	3286^{+160}_{-160}
$c_{217/143}$	0.99663	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.01	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8165	$0.838^{+0.036}_{-0.033}$
$\xi^{tSZ-CIB}$	0.36	—	Ω_Λ	0.6880	$0.721^{+0.045}_{-0.048}$	$r_s/D_v(0.57)$	0.07160	$0.0736^{+0.0032}_{-0.0028}$
A^{kSZ}	0.2	—	Ω_m	0.3120	$0.279^{+0.048}_{-0.045}$	$H(0.57)$	0.0003101	$0.0003155^{+0.0000079}_{-0.0000064}$
β_1^1	0.29	$0.5^{+1.7}_{-1.7}$	σ_8	0.830	$0.909^{+0.089}_{-0.089}$	$DA(0.57)$	1389	1348^{+53}_{-57}

Best-fit $\chi_{\text{eff}}^2 = 7788.08$; R-1 = 0.02283

χ_{eff}^2 : CMB - commander_v3.light.cli: -8.34 CAMspec_v6.2TN_2013_01_18.cli: 7796.43

12.8 base_nrun_r_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02270^{+0.00091}_{-0.00082}$	β_2^1	-0.05	$0.1^{+1.8}_{-1.9}$	z_{re}	11.6	$15.0^{+4.9}_{-5.6}$
$\Omega_c h^2$	0.1191	$0.1160^{+0.0069}_{-0.0071}$	β_3^1	0.08	$0.0^{+2.0}_{-2.0}$	r_{10}	0.000	< 0.132
θ	1.04130	$1.0419^{+0.0015}_{-0.0014}$	β_4^1	-0.03	$-0.1^{+2.0}_{-2.0}$	H_0	67.66	$69.4^{+3.6}_{-3.3}$
τ	0.096	$0.145^{+0.079}_{-0.074}$	β_5^1	-0.01	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.270
n_s	0.9620	$0.969^{+0.023}_{-0.022}$	β_1^2	-0.07	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s$	2.220	$2.44^{+0.38}_{-0.32}$
n_{run}	-0.0030	$-0.025^{+0.022}_{-0.026}$	β_2^2	0.07	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1419	$0.1393^{+0.0064}_{-0.0065}$
$\log[10^{10} A_s]$	3.100	$3.19^{+0.15}_{-0.14}$	β_3^2	-0.07	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09604	$0.0967^{+0.0014}_{-0.0013}$
r_{pivot}	0.000	< 0.224	β_4^2	0.30	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247765	$0.24798^{+0.00038}_{-0.00035}$
A_{100}^{PS}	149	156^{+100}_{-100}	β_5^2	-0.27	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8322	$1.825^{+0.030}_{-0.031}$
A_{143}^{PS}	48	51^{+30}_{-30}	β_1^3	0.09	$0.0^{+1.8}_{-1.9}$	Age/Gyr	13.799	$13.72^{+0.14}_{-0.16}$
A_{217}^{PS}	121.0	115^{+30}_{-30}	β_2^3	0.01	$-0.2^{+2.0}_{-2.0}$	z_*	1090.16	$1089.3^{+1.5}_{-1.6}$
A_{143}^{CIB}	8.52	—	β_3^3	0.15	$0.0^{+2.0}_{-1.9}$	r_*	144.79	$145.2^{+1.4}_{-1.4}$
A_{217}^{CIB}	23.2	23^{+10}_{-10}	β_4^3	-0.23	$-0.2^{+1.9}_{-2.0}$	θ_*	1.04145	$1.0420^{+0.0014}_{-0.0013}$
A_{143}^{tSZ}	7.73	—	β_5^3	-0.28	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.55	$1060.5^{+1.7}_{-1.5}$
$r_{PS143/217}$	0.777	> 0.654	β_1^4	-0.04	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.51	$147.8^{+1.3}_{-1.3}$
r_{CIB}	0.611	—	β_2^4	0.12	$-0.1^{+2.0}_{-2.0}$	k_D	0.14019	$0.1403^{+0.0012}_{-0.0013}$
n^{CIB}	0.202	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.02	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16120	$0.16072^{+0.00085}_{-0.00086}$
$c_{100/143}$	1.00059	$1.00061^{+0.00078}_{-0.00077}$	β_4^4	0.27	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3376	3314^{+150}_{-150}
$c_{217/143}$	0.99666	$0.9966^{+0.0026}_{-0.0025}$	β_5^4	0.20	$0.1^{+1.9}_{-2.0}$	θ_{EQ}	0.8178	$0.832^{+0.033}_{-0.030}$
$\xi^{tSZ-CIB}$	0.07	—	Ω_Λ	0.6900	$0.710^{+0.040}_{-0.042}$	$r_s/D_v(0.57)$	0.07170	$0.0729^{+0.0027}_{-0.0024}$
A^{kSZ}	0.1	—	Ω_m	0.3100	$0.290^{+0.042}_{-0.040}$	$H(0.57)$	0.0003103	$0.0003133^{+0.0000061}_{-0.0000051}$
β_1^1	0.45	$0.5^{+1.7}_{-1.8}$	σ_8	0.0689	$0.854^{+0.041}_{-0.040}$	$DA(0.57)$	1386.9	1363^{+44}_{-48}

Best-fit $\chi_{\text{eff}}^2 = 7799.41$; R-1 = 0.04862

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik.lensing: 11.21 commander.v3.light.clik: -8.13 CAMspec.v6.2TN_2013.01.18.clik: 7796.33

12.9 base_nrun_r_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02228	$0.02273^{+0.00076}_{-0.00070}$	β_2^1	0.19	$0.1^{+1.9}_{-1.9}$	z_{re}	11.6	$17.1^{+5.5}_{-6.9}$
$\Omega_c h^2$	0.11879	$0.1175^{+0.0038}_{-0.0037}$	β_3^1	-0.05	$0.0^{+2.0}_{-1.9}$	r_{10}	0.000	< 0.122
θ	1.04150	$1.0418^{+0.0012}_{-0.0012}$	β_4^1	-0.01	$0.0^{+2.0}_{-2.0}$	H_0	67.91	$68.9^{+1.9}_{-1.8}$
τ	0.097	$0.174^{+0.089}_{-0.095}$	β_5^1	-0.06	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.248
n_s	0.9606	$0.967^{+0.016}_{-0.016}$	β_1^2	-0.17	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s$	2.226	$2.61^{+0.49}_{-0.46}$
n_{run}	-0.0117	$-0.032^{+0.025}_{-0.028}$	β_2^2	-0.09	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14171	$0.1409^{+0.0035}_{-0.0034}$
$\log[10^{10} A_s]$	3.103	$3.26^{+0.18}_{-0.19}$	β_3^2	-0.13	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09623	$0.0970^{+0.0015}_{-0.0014}$
r_{pivot}	0.000	< 0.205	β_4^2	-0.02	$0.1^{+2.0}_{-2.0}$	Y_{He}	0.247802	$0.24799^{+0.00032}_{-0.00030}$
A_{100}^{PS}	142	155^{+100}_{-100}	β_5^2	-0.08	$-0.2^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.835^{+0.020}_{-0.021}$
A_{143}^{PS}	45	53^{+30}_{-30}	β_1^3	0.02	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.783	$13.723^{+0.098}_{-0.10}$
A_{217}^{PS}	124.8	117^{+30}_{-30}	β_2^3	0.01	$-0.1^{+2.0}_{-2.1}$	z_*	1090.03	$1089.4^{+1.1}_{-1.1}$
A_{143}^{CIB}	8.63	—	β_3^3	0.00	$0.0^{+2.0}_{-2.0}$	r_*	144.80	$144.80^{+0.87}_{-0.90}$
A_{217}^{CIB}	22.8	23^{+10}_{-10}	β_4^3	-0.13	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04163	$1.0419^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	10.0	—	β_5^3	0.09	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.70	$1060.7^{+1.6}_{-1.5}$
$r_{PS143/217}$	0.777	> 0.663	β_1^4	-0.08	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.50	$147.35^{+0.94}_{-0.96}$
r_{CIB}	0.700	—	β_2^4	-0.12	$-0.1^{+2.0}_{-1.9}$	k_D	0.14026	$0.1408^{+0.0013}_{-0.0013}$
n^{CIB}	0.120	$0.25^{+0.26}_{-0.30}$	β_3^4	-0.14	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16112	$0.16060^{+0.00086}_{-0.00088}$
$c_{100/143}$	1.00060	$1.00061^{+0.00078}_{-0.00078}$	β_4^4	0.07	$0.1^{+2.0}_{-1.9}$	z_{EQ}	3371	3351^{+84}_{-82}
$c_{217/143}$	0.99677	$0.9965^{+0.0026}_{-0.0025}$	β_5^4	0.00	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8191	$0.824^{+0.016}_{-0.016}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6927	$0.703^{+0.022}_{-0.023}$	$r_s/D_v(0.57)$	0.07185	$0.0724^{+0.0014}_{-0.0013}$
A^{kSZ}	0.1	—	Ω_m	0.3073	$0.297^{+0.023}_{-0.022}$	$H(0.57)$	0.00031078	$0.0003127^{+0.0000035}_{-0.0000032}$
β_1^1	0.51	$0.6^{+1.7}_{-1.7}$	σ_8	0.828	$0.886^{+0.071}_{-0.075}$	$DA(0.57)$	1383.3	1370^{+25}_{-26}

Best-fit $\chi_{\text{eff}}^2 = 7787.72$; R-1 = 0.03120

χ_{eff}^2 : BAO - DR7: 1.04 6DF: 0.02 DR9: 0.33 CMB - commander_v3.light.clik: -10.30 CAMspec_v6.2TN_2013_01_18.clik: 7796.64

12.10 base_nrun_r_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02238	$0.0235^{+0.0011}_{-0.00098}$	β_2^1	0.04	$0.1^{+1.9}_{-1.9}$	z_{re}	11.5	22^{+5}_{-7}
$\Omega_c h^2$	0.1172	$0.1117^{+0.0060}_{-0.0058}$	β_3^1	-0.07	$0.0^{+2.0}_{-2.0}$	r_{10}	0.000	< 0.144
θ	1.04179	$1.0427^{+0.0014}_{-0.0014}$	β_4^1	-0.01	$0.0^{+1.9}_{-2.0}$	H_0	68.65	$72.0^{+3.4}_{-3.2}$
τ	0.097	$0.26^{+0.11}_{-0.11}$	β_5^1	-0.09	$0.0^{+1.9}_{-1.9}$	r	0.000	< 0.325
n_s	0.9641	$0.987^{+0.023}_{-0.023}$	β_1^2	-0.05	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s$	2.22	$3.05^{+0.70}_{-0.61}$
n_{run}	-0.0102	$-0.050^{+0.032}_{-0.035}$	β_2^2	-0.06	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1403	$0.1359^{+0.0053}_{-0.0051}$
$\log[10^{10} A_s]$	3.098	$3.41^{+0.21}_{-0.22}$	β_3^2	-0.06	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09628	$0.0978^{+0.0017}_{-0.0016}$
r_{pivot}	0.000	< 0.225	β_4^2	0.08	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247845	$0.24832^{+0.00042}_{-0.00040}$
A_{100}^{PS}	160	146^{+100}_{-100}	β_5^2	0.03	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8262	$1.815^{+0.026}_{-0.025}$
A_{143}^{PS}	51.3	50^{+30}_{-30}	β_1^3	-0.098	$-0.1^{+1.9}_{-1.8}$	Age/Gyr	13.758	$13.59^{+0.15}_{-0.16}$
A_{217}^{PS}	121.0	116^{+30}_{-30}	β_2^3	-0.08	$-0.1^{+1.9}_{-1.9}$	z_*	1089.76	$1087.9^{+1.6}_{-1.6}$
A_{143}^{CIB}	8.93	—	β_3^3	-0.05	$0.0^{+2.0}_{-2.0}$	r_*	145.13	$145.7^{+1.1}_{-1.2}$
A_{217}^{CIB}	21.6	21^{+10}_{-10}	β_4^3	-0.06	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04192	$1.0428^{+0.0014}_{-0.0013}$
A_{143}^{tSZ}	6.51	—	β_5^3	-0.15	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.86	$1062.0^{+2.0}_{-1.9}$
$r_{PS143/217}$	0.766	> 0.661	β_1^4	-0.07	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.80	$148.0^{+1.1}_{-1.1}$
r_{CIB}	0.587	—	β_2^4	-0.13	$-0.1^{+1.9}_{-1.9}$	k_D	0.14002	$0.1406^{+0.0013}_{-0.0013}$
n^{CIB}	0.175	$0.24^{+0.27}_{-0.30}$	β_3^4	-0.05	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16107	$0.15994^{+0.00099}_{-0.00098}$
$c_{100/143}$	1.00060	$1.00061^{+0.00077}_{-0.00077}$	β_4^4	-0.02	$0.1^{+2.0}_{-1.9}$	z_{EQ}	3336	3231^{+130}_{-120}
$c_{217/143}$	0.99660	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.13	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8260	$0.850^{+0.028}_{-0.027}$
$\xi^{tSZ-CIB}$	0.31	—	Ω_Λ	0.7024	$0.737^{+0.032}_{-0.035}$	$r_s/D_v(0.57)$	0.07242	$0.0747^{+0.0024}_{-0.0023}$
A^{kSZ}	3.75	—	Ω_m	0.2976	$0.263^{+0.035}_{-0.032}$	$H(0.57)$	0.0003118	$0.0003180^{+0.0000062}_{-0.0000056}$
β_1^1	0.46	$0.5^{+1.7}_{-1.7}$	σ_8	0.821	$0.930^{+0.079}_{-0.080}$	$DA(0.57)$	1373.6	1328^{+42}_{-43}

Best-fit $\chi_{\text{eff}}^2 = 7792.83$; R-1 = 0.03251

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.44 CAMspec.v6.2TN_2013_01_18.clik: 7798.66 Hubble - HST: 4.61

12.11 base_nrun_r_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02229	$0.0234^{+0.0012}_{-0.0011}$	β_2^1	0.15	$0.1^{+1.9}_{-1.9}$	z_{re}	11.6	21^{+6}_{-7}
$\Omega_c h^2$	0.1180	$0.1122^{+0.0068}_{-0.0069}$	β_3^1	0.04	$0.0^{+2.0}_{-2.0}$	r_{10}	0.000	< 0.142
θ	1.04156	$1.0426^{+0.0016}_{-0.0015}$	β_4^1	-0.03	$0.0^{+1.9}_{-2.0}$	H_0	68.20	$71.7^{+4.0}_{-3.7}$
τ	0.097	$0.25^{+0.12}_{-0.12}$	β_5^1	-0.13	$0.0^{+1.9}_{-1.9}$	r	0.000	< 0.320
n_s	0.9643	$0.985^{+0.026}_{-0.025}$	β_1^2	-0.09	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s$	2.22	$3.01^{+0.77}_{-0.66}$
n_{run}	-0.0076	$-0.048^{+0.033}_{-0.038}$	β_2^2	-0.11	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1410	$0.1363^{+0.0060}_{-0.0059}$
$\log[10^{10} A_s]$	3.102	$3.40^{+0.23}_{-0.24}$	β_3^2	-0.097	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09614	$0.0977^{+0.0019}_{-0.0017}$
r_{pivot}	0.000	< 0.223	β_4^2	0.06	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247805	$0.24828^{+0.00048}_{-0.00044}$
A_{100}^{PS}	181	147^{+100}_{-100}	β_5^2	-0.14	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8304	$1.816^{+0.028}_{-0.028}$
A_{143}^{PS}	54.3	50^{+30}_{-30}	β_1^3	-0.11	$-0.1^{+1.9}_{-1.8}$	Age/Gyr	13.778	$13.60^{+0.17}_{-0.19}$
A_{217}^{PS}	124.5	116^{+30}_{-30}	β_2^3	-0.13	$-0.1^{+2.0}_{-1.9}$	z_*	1089.95	$1088.1^{+1.8}_{-1.8}$
A_{143}^{CIB}	9.01	—	β_3^3	-0.09	$0.0^{+2.0}_{-2.0}$	r_*	144.99	$145.6^{+1.2}_{-1.3}$
A_{217}^{CIB}	22.7	21^{+10}_{-10}	β_4^3	-0.23	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04170	$1.0427^{+0.0015}_{-0.0014}$
A_{143}^{tSZ}	4.38	—	β_5^3	-0.12	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.67	$1061.9^{+2.3}_{-2.1}$
$r_{PS143/217}$	0.769	> 0.661	β_1^4	-0.12	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.70	$148.0^{+1.2}_{-1.2}$
r_{CIB}	0.491	—	β_2^4	-0.09	$-0.1^{+1.9}_{-2.0}$	k_D	0.14007	$0.1406^{+0.0013}_{-0.0013}$
n^{CIB}	0.246	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.20	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16114	$0.1600^{+0.0011}_{-0.0011}$
$c_{100/143}$	1.00062	$1.00061^{+0.00077}_{-0.00078}$	β_4^4	0.04	$0.1^{+2.0}_{-1.9}$	z_{EQ}	3353	3241^{+140}_{-140}
$c_{217/143}$	0.99655	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.00	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8224	$0.848^{+0.032}_{-0.030}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6969	$0.734^{+0.038}_{-0.041}$	$r_s/D_v(0.57)$	0.07210	$0.0745^{+0.0029}_{-0.0026}$
A^{kSZ}	0.3	—	Ω_m	0.3031	$0.266^{+0.041}_{-0.038}$	$H(0.57)$	0.0003111	$0.0003175^{+0.0000074}_{-0.0000062}$
β_1^1	0.46	$0.5^{+1.7}_{-1.7}$	σ_8	0.827	$0.925^{+0.085}_{-0.085}$	$DA(0.57)$	1379.6	1332^{+48}_{-51}

Best-fit $\chi_{\text{eff}}^2 = 8216.61$; R-1 = 0.02797

χ_{eff}^2 : CMB - commander.v3.light.clik: -9.85 CAMspec.v6.2TN_2013_01_18.clik: 7797.67 SN - SNLS April_2012: 428.79

12.12 base_nrun_r_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02221	$0.0232^{+0.0012}_{-0.0010}$	β_2^1	0.15	$0.1^{+1.9}_{-1.9}$	z_{re}	11.4	$19.6^{+6.3}_{-8.1}$
$\Omega_c h^2$	0.1193	$0.1142^{+0.0070}_{-0.0071}$	β_3^1	-0.01	$0.0^{+2.0}_{-2.0}$	r_{10}	0.000	< 0.135
θ	1.04137	$1.0423^{+0.0016}_{-0.0015}$	β_4^1	-0.08	$0.0^{+1.9}_{-2.0}$	H_0	67.61	$70.6^{+4.0}_{-3.6}$
τ	0.094	$0.22^{+0.12}_{-0.12}$	β_5^1	0.04	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.292
n_s	0.9613	$0.978^{+0.027}_{-0.025}$	β_1^2	-0.14	$-0.1^{+1.9}_{-1.8}$	$10^9 A_s$	2.22	$2.85^{+0.74}_{-0.63}$
n_{run}	-0.0088	$-0.042^{+0.031}_{-0.036}$	β_2^2	-0.12	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1422	$0.1380^{+0.0063}_{-0.0062}$
$\log[10^{10} A_s]$	3.099	$3.34^{+0.24}_{-0.24}$	β_3^2	-0.05	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09614	$0.0974^{+0.0018}_{-0.0016}$
r_{pivot}	0.000	< 0.216	β_4^2	0.07	$0.1^{+2.0}_{-1.9}$	Y_{He}	0.247772	$0.24817^{+0.00047}_{-0.00043}$
A_{100}^{PS}	178	150^{+100}_{-100}	β_5^2	-0.08	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8368	$1.823^{+0.029}_{-0.029}$
A_{143}^{PS}	66.7	51^{+30}_{-30}	β_1^3	0.09	$0.0^{+1.9}_{-1.8}$	Age/Gyr	13.797	$13.65^{+0.16}_{-0.18}$
A_{217}^{PS}	126.3	116^{+30}_{-30}	β_2^3	-0.24	$-0.1^{+2.0}_{-2.0}$	z_*	1090.16	$1088.6^{+1.8}_{-1.8}$
A_{143}^{CIB}	9.39	—	β_3^3	0.02	$0.0^{+2.0}_{-2.0}$	r_*	144.71	$145.3^{+1.3}_{-1.3}$
A_{217}^{CIB}	22.2	22^{+10}_{-10}	β_4^3	-0.13	$-0.2^{+1.9}_{-1.9}$	θ_*	1.04152	$1.0424^{+0.0015}_{-0.0014}$
A_{143}^{tSZ}	4.14	—	β_5^3	-0.11	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.59	$1061.4^{+2.2}_{-2.0}$
$r_{PS143/217}$	0.792	> 0.662	β_1^4	-0.02	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.44	$147.7^{+1.2}_{-1.2}$
r_{CIB}	0.509	—	β_2^4	-0.12	$-0.1^{+1.9}_{-1.9}$	k_D	0.14028	$0.1406^{+0.0014}_{-0.0013}$
n^{CIB}	0.235	$0.25^{+0.26}_{-0.30}$	β_3^4	-0.12	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16118	$0.1602^{+0.0011}_{-0.0011}$
$c_{100/143}$	1.00059	$1.00061^{+0.00077}_{-0.00078}$	β_4^4	-0.02	$0.1^{+2.0}_{-1.9}$	z_{EQ}	3382	3283^{+150}_{-150}
$c_{217/143}$	0.99646	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.00	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8168	$0.839^{+0.033}_{-0.030}$
$\xi^{tSZ-CIB}$	0.60	—	Ω_Λ	0.6890	$0.722^{+0.040}_{-0.043}$	$r_s/D_v(0.57)$	0.07165	$0.0737^{+0.0029}_{-0.0026}$
A^{kSZ}	0.3	—	Ω_m	0.3110	$0.278^{+0.043}_{-0.040}$	$H(0.57)$	0.0003103	$0.0003156^{+0.0000071}_{-0.0000059}$
β_1^1	0.43	$0.5^{+1.7}_{-1.7}$	σ_8	0.829	$0.910^{+0.086}_{-0.086}$	$DA(0.57)$	1387	1347^{+48}_{-52}

Best-fit $\chi_{\text{eff}}^2 = 7918.11$; R-1 = 0.02437

χ_{eff}^2 : CMB - commander.v3.light.cli: -9.79 CAMspec.v6.2TN_2013_01_18.cli: 7797.47 SN - Union2.1: 130.44

12.13 base_nrun_r_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.02238^{+0.00064}_{-0.00061}$	β_3^2	-0.26	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9850	$0.985^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.1196	$0.1195^{+0.0053}_{-0.0052}$	β_4^2	0.31	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0157	$1.019^{+0.047}_{-0.044}$
θ	1.04128	$1.0414^{+0.0013}_{-0.0013}$	β_5^2	-0.24	$-0.4^{+1.9}_{-1.9}$	Ω_Λ	0.6870	$0.689^{+0.032}_{-0.034}$
τ	0.0937	$0.103^{+0.033}_{-0.029}$	β_1^3	0.65	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3130	$0.311^{+0.034}_{-0.032}$
n_s	0.9586	$0.958^{+0.015}_{-0.015}$	β_2^3	-0.49	$-0.5^{+1.9}_{-1.9}$	σ_8	0.8289	$0.833^{+0.027}_{-0.027}$
n_{run}	-0.0069	$-0.023^{+0.020}_{-0.021}$	β_3^3	0.16	$0.2^{+2.0}_{-1.9}$	z_{re}	11.42	$12.1^{+2.5}_{-2.4}$
$\log[10^{10} A_s]$	3.098	$3.120^{+0.065}_{-0.059}$	β_4^3	-0.49	$-0.5^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.139
r_{pivot}	0.000	< 0.232	β_5^3	-0.44	$-0.4^{+1.9}_{-2.0}$	H_0	67.45	$67.7^{+2.5}_{-2.4}$
A_{100}^{PS}	180	195^{+80}_{-80}	β_1^4	-0.22	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.267
A_{143}^{PS}	76.7	81^{+20}_{-20}	β_2^4	-0.50	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.214	$2.27^{+0.15}_{-0.13}$
A_{217}^{PS}	65.5	68^{+20}_{-20}	β_3^4	-0.08	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1424	$0.1425^{+0.0051}_{-0.0049}$
A_{143}^{CIB}	2.85	—	β_4^4	0.25	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09605	$0.0965^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	46.4	44^{+9}_{-9}	β_5^4	0.34	$0.3^{+1.9}_{-1.9}$	Y_{He}	0.247752	$0.24784^{+0.00027}_{-0.00026}$
A_{143}^{tSZ}	4.12	—	$A_{\text{PS,ACT}}^{148}$	10.49	$10.6^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8358	$1.842^{+0.026}_{-0.026}$
$r_{\text{PS143/217}}$	0.819	> 0.725	$A_{\text{PS,ACT}}^{218}$	80.6	$81.0^{+7.7}_{-7.9}$	Age/Gyr	13.805	$13.777^{+0.098}_{-0.10}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.18	$7.45^{+3.1}_{-2.6}$	z_*	1090.25	$1090.0^{+1.1}_{-1.1}$
n^{CIB}	0.508	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.12	$10.24^{+0.98}_{-0.94}$	r_*	144.68	$144.5^{+1.2}_{-1.2}$
$c_{100/143}$	1.00061	$1.00063^{+0.00078}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	76.6	$77.6^{+8.1}_{-7.9}$	θ_*	1.04143	$1.0416^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99953	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.782	> 0.666	z_{drag}	1059.51	$1060.0^{+1.3}_{-1.3}$
$\xi^{\text{tSZ-CIB}}$	0.06	—	$r_{\text{PS}}^{95/220}$	0.545	$0.57^{+0.25}_{-0.21}$	r_{drag}	147.42	$147.2^{+1.2}_{-1.2}$
A^{kSZ}	3.13	—	$r_{\text{PS}}^{150/220}$	0.9196	> 0.904	k_D	0.14026	$0.1407^{+0.0013}_{-0.0013}$
β_1^1	0.76	$0.7^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.429	< 0.761	θ_D	0.16122	$0.16096^{+0.00074}_{-0.00073}$
β_2^1	-0.10	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.858	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3387	3391^{+120}_{-120}
β_3^1	0.08	$0.1^{+2.0}_{-1.9}$	c_{ACTs}^{148}	0.9914	$0.990^{+0.014}_{-0.014}$	θ_{EQ}	0.8157	$0.816^{+0.023}_{-0.022}$
β_4^1	-0.09	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{217}	1.0024	$1.003^{+0.027}_{-0.026}$	$r_s/D_v(0.57)$	0.07154	$0.0716^{+0.0019}_{-0.0018}$
β_5^1	-0.13	$0.0^{+1.9}_{-2.0}$	c_{ACTe}^{148}	0.9869	$0.986^{+0.014}_{-0.014}$	$H(0.57)$	0.00031003	$0.0003108^{+0.000038}_{-0.000034}$
β_1^2	-0.996	$-1.15^{+1.8}_{-1.7}$	c_{ACTe}^{217}	0.9606	$0.961^{+0.020}_{-0.020}$	$DA(0.57)$	1389.6	1385^{+32}_{-33}
β_2^2	-0.28	$-0.3^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9829	$0.980^{+0.039}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10517.09$; R-1 = 0.01206

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.44 commander.v3.light.clik: -8.85 CAMspec.v6.2TN_2013_01_18.clik: 7817.67 actspt_2013_01.clik: 693.73

12.14 base_nrun_r_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02240^{+0.00062}_{-0.00061}$	β_3^2	-0.02	$0.0^{+2.0}_{-1.9}$	c_{SPT}^{150}	0.9861	$0.985^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.11928	$0.1193^{+0.0045}_{-0.0045}$	β_4^2	0.13	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0152	$1.020^{+0.047}_{-0.044}$
θ	1.04138	$1.0415^{+0.0012}_{-0.0012}$	β_5^2	-0.40	$-0.4^{+1.9}_{-1.9}$	Ω_Λ	0.6894	$0.690^{+0.028}_{-0.029}$
τ	0.0965	$0.104^{+0.031}_{-0.029}$	β_1^3	0.83	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3106	$0.310^{+0.029}_{-0.028}$
n_s	0.9601	$0.958^{+0.014}_{-0.013}$	β_2^3	-0.60	$-0.5^{+1.9}_{-1.9}$	σ_8	0.0689	$0.833^{+0.021}_{-0.020}$
n_{run}	-0.0052	$-0.022^{+0.020}_{-0.020}$	β_3^3	0.38	$0.2^{+2.0}_{-1.9}$	z_{re}	11.63	$12.1^{+2.3}_{-2.3}$
$\log[10^{10} A_s]$	3.103	$3.120^{+0.058}_{-0.053}$	β_4^3	-0.62	$-0.5^{+2.0}_{-1.9}$	r_{10}	0.000	< 0.130
r_{pivot}	0.000	< 0.221	β_5^3	-0.35	$-0.4^{+1.9}_{-1.9}$	H_0	67.65	$67.8^{+2.2}_{-2.1}$
A_{100}^{PS}	178	195^{+80}_{-80}	β_1^4	-0.14	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.251
A_{143}^{PS}	76.5	81^{+20}_{-20}	β_2^4	-0.27	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.226	$2.26^{+0.14}_{-0.12}$
A_{217}^{PS}	64.5	68^{+20}_{-20}	β_3^4	-0.08	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14215	$0.1423^{+0.0042}_{-0.0042}$
A_{143}^{CIB}	2.97	—	β_4^4	0.16	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09616	$0.0965^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	47.3	44^{+9}_{-9}	β_5^4	0.21	$0.3^{+2.0}_{-1.9}$	Y_{He}	0.247777	$0.24785^{+0.00026}_{-0.00026}$
A_{143}^{tSZ}	4.62	—	$A_{\text{PS,ACT}}^{148}$	10.60	$10.6^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8355	$1.840^{+0.022}_{-0.022}$
$r_{\text{PS143/217}}$	0.817	> 0.726	$A_{\text{PS,ACT}}^{218}$	80.9	$81.0^{+7.7}_{-7.9}$	Age/Gyr	13.795	$13.775^{+0.095}_{-0.097}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.45	$7.48^{+3.1}_{-2.7}$	z_*	1090.14	$1089.9^{+1.0}_{-1.0}$
n^{CIB}	0.517	$0.48^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{150}$	10.23	$10.26^{+0.98}_{-0.94}$	r_*	144.72	$144.6^{+1.0}_{-0.98}$
$c_{100/143}$	1.00064	$1.00063^{+0.00079}_{-0.00077}$	$A_{\text{PS,SPT}}^{220}$	77.0	$77.7^{+7.9}_{-7.9}$	θ_*	1.04153	$1.0416^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99924	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.784	> 0.667	z_{drag}	1059.63	$1060.0^{+1.3}_{-1.3}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	$r_{\text{PS}}^{95/220}$	0.526	$0.57^{+0.25}_{-0.21}$	r_{drag}	147.43	$147.3^{+1.0}_{-1.0}$
$A^{k\text{SZ}}$	1.45	—	$r_{\text{PS}}^{150/220}$	0.9115	> 0.903	k_D	0.14029	$0.1406^{+0.0012}_{-0.0012}$
β_1^1	0.76	$0.7^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.422	< 0.758	θ_D	0.16117	$0.16094^{+0.00074}_{-0.00071}$
β_2^1	0.02	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.839	$0.85^{+0.39}_{-0.38}$	z_{EQ}	3381	3385^{+100}_{-100}
β_3^1	0.18	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9915	$0.990^{+0.014}_{-0.014}$	θ_{EQ}	0.8170	$0.817^{+0.020}_{-0.019}$
β_4^1	-0.04	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0033	$1.003^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07167	$0.0717^{+0.0016}_{-0.0015}$
β_5^1	-0.04	$0.0^{+2.0}_{-2.0}$	c_{ACTe}^{148}	0.9880	$0.986^{+0.014}_{-0.014}$	$H(0.57)$	0.00031038	$0.0003109^{+0.000035}_{-0.000032}$
β_1^2	-0.95	$-1.15^{+1.8}_{-1.7}$	c_{ACTe}^{217}	0.9607	$0.961^{+0.020}_{-0.020}$	$DA(0.57)$	1386.9	1384^{+28}_{-29}
β_2^2	-0.28	$-0.3^{+2.0}_{-2.0}$	c_{SPT}^{95}	0.9855	$0.980^{+0.039}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10527.66$; R-1 = 0.01278

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.61 lensing_likelihood.v3.ref.clik.lensing: 11.25 commander.v3.light.clik: -8.37 CAMspec.v6.2TN_2013_01_18.clik: 7817.65 actspt_2013_01.clik: 692.47

12.15 base_nrun_r_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02244^{+0.00056}_{-0.00055}$	β_3^2	0.10	$0.0^{+2.0}_{-1.9}$	c_{SPT}^{150}	0.9843	$0.985^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.11879	$0.1187^{+0.0035}_{-0.0034}$	β_4^2	0.35	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0139	$1.020^{+0.047}_{-0.044}$
θ	1.04150	$1.0416^{+0.0011}_{-0.0011}$	β_5^2	-0.25	$-0.4^{+1.9}_{-2.0}$	Ω_Λ	0.6926	$0.694^{+0.020}_{-0.021}$
τ	0.0972	$0.105^{+0.032}_{-0.029}$	β_1^3	0.84	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3074	$0.306^{+0.021}_{-0.020}$
n_s	0.9599	$0.959^{+0.011}_{-0.011}$	β_2^3	-0.53	$-0.5^{+1.9}_{-1.9}$	σ_8	0.8283	$0.832^{+0.027}_{-0.025}$
n_{run}	-0.0090	$-0.023^{+0.020}_{-0.021}$	β_3^3	0.18	$0.2^{+2.0}_{-2.0}$	z_{re}	11.66	$12.2^{+2.5}_{-2.4}$
$\log[10^{10} A_s]$	3.103	$3.121^{+0.066}_{-0.060}$	β_4^3	-0.30	$-0.5^{+2.0}_{-1.9}$	r_{10}	0.000	< 0.139
r_{pivot}	0.000	< 0.233	β_5^3	-0.50	$-0.3^{+2.0}_{-2.0}$	H_0	67.89	$68.1^{+1.6}_{-1.6}$
A_{100}^{PS}	183	195^{+80}_{-80}	β_1^4	-0.23	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.267
A_{143}^{PS}	78.0	81^{+20}_{-20}	β_2^4	-0.27	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.227	$2.27^{+0.15}_{-0.13}$
A_{217}^{PS}	66.2	68^{+20}_{-20}	β_3^4	-0.11	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14170	$0.1418^{+0.0033}_{-0.0033}$
A_{143}^{CIB}	2.68	—	β_4^4	0.03	$0.2^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09620	$0.0965^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	45.8	44^{+9}_{-9}	β_5^4	0.40	$0.3^{+2.0}_{-1.9}$	Y_{He}	0.247793	$0.24787^{+0.00023}_{-0.00024}$
A_{143}^{tSZ}	3.81	—	$A_{\text{PS,ACT}}^{148}$	10.45	$10.6^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.838^{+0.020}_{-0.020}$
$r_{\text{PS143/217}}$	0.816	> 0.726	$A_{\text{PS,ACT}}^{218}$	81.1	$81.0^{+7.7}_{-7.9}$	Age/Gyr	13.786	$13.766^{+0.079}_{-0.080}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.40	$7.48^{+3.1}_{-2.7}$	z_*	1090.05	$1089.83^{+0.84}_{-0.82}$
n^{CIB}	0.501	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.11	$10.25^{+0.99}_{-0.95}$	r_*	144.82	$144.71^{+0.87}_{-0.87}$
$c_{100/143}$	1.00064	$1.00063^{+0.00079}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	77.0	$77.7^{+8.0}_{-7.9}$	θ_*	1.04164	$1.0417^{+0.0011}_{-0.0011}$
$c_{217/143}$	0.99930	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.762	> 0.666	z_{drag}	1059.67	$1060.1^{+1.2}_{-1.2}$
$\xi^{\text{tSZ-CIB}}$	0.05	—	$r_{\text{PS}}^{95/220}$	0.514	$0.57^{+0.25}_{-0.21}$	r_{drag}	147.53	$147.35^{+0.93}_{-0.94}$
A^{kSZ}	3.54	—	$r_{\text{PS}}^{150/220}$	0.9201	> 0.904	k_D	0.14022	$0.1405^{+0.0012}_{-0.0012}$
β_1^1	0.67	$0.7^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.452	< 0.756	θ_D	0.16115	$0.16092^{+0.00071}_{-0.00069}$
β_2^1	-0.13	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.836	$0.85^{+0.39}_{-0.38}$	z_{EQ}	3371	3373^{+80}_{-78}
β_3^1	-0.10	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9913	$0.990^{+0.014}_{-0.014}$	θ_{EQ}	0.8191	$0.819^{+0.015}_{-0.015}$
β_4^1	0.00	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0030	$1.003^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07185	$0.0719^{+0.0012}_{-0.0012}$
β_5^1	0.03	$0.0^{+2.0}_{-2.0}$	c_{ACTe}^{148}	0.9871	$0.986^{+0.014}_{-0.014}$	$H(0.57)$	0.00031073	$0.0003113^{+0.000026}_{-0.000025}$
β_1^2	-1.06	$-1.15^{+1.8}_{-1.7}$	c_{ACTe}^{217}	0.9610	$0.961^{+0.021}_{-0.020}$	$DA(0.57)$	1383.6	1381^{+21}_{-21}
β_2^2	-0.39	$-0.3^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9835	$0.980^{+0.040}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10518.09$; R-1 = 0.01229

χ_{eff}^2 : BAO - DR9: 0.32 DR7: 1.05 6DF: 0.02 CMB - lowlike.v22.light.clik: 2014.57 commander.v3.light.clik: -9.51 CAMspec.v6.2TN_2013_01_18.clik: 7817.68 actspt_2013_01.clik: 693.86

12.16 base_nrun_r_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02237	$0.02261^{+0.00063}_{-0.00059}$	β_3^2	-0.03	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{150}	0.9856	$0.986^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.11694	$0.1168^{+0.0048}_{-0.0047}$	β_4^2	0.26	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0144	$1.020^{+0.046}_{-0.043}$
θ	1.04179	$1.0419^{+0.0012}_{-0.0012}$	β_5^2	-0.21	$-0.4^{+1.9}_{-1.9}$	Ω_Λ	0.7038	$0.706^{+0.028}_{-0.029}$
τ	0.1003	$0.110^{+0.033}_{-0.031}$	β_1^3	0.80	$0.8^{+1.8}_{-1.8}$	Ω_m	0.2962	$0.294^{+0.029}_{-0.027}$
n_s	0.9647	$0.964^{+0.015}_{-0.014}$	β_2^3	-0.61	$-0.5^{+1.9}_{-1.9}$	σ_8	0.8239	$0.828^{+0.028}_{-0.026}$
n_{run}	-0.0074	$-0.025^{+0.021}_{-0.022}$	β_3^3	0.09	$0.2^{+2.0}_{-1.9}$	z_{re}	11.83	$12.5^{+2.4}_{-2.5}$
$\log[10^{10} A_s]$	3.105	$3.127^{+0.065}_{-0.062}$	β_4^3	-0.28	$-0.5^{+1.9}_{-2.0}$	r_{10}	0.000	< 0.163
r_{pivot}	0.000	< 0.261	β_5^3	-0.27	$-0.3^{+1.9}_{-2.0}$	H_0	68.74	$69.0^{+2.3}_{-2.2}$
A_{100}^{PS}	180	194^{+80}_{-80}	β_1^4	-0.30	$-0.3^{+2.0}_{-1.9}$	r	0.000	< 0.315
A_{143}^{PS}	76.9	80^{+20}_{-20}	β_2^4	-0.41	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.230	$2.28^{+0.15}_{-0.14}$
A_{217}^{PS}	63.9	67^{+20}_{-20}	β_3^4	-0.11	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.13996	$0.1401^{+0.0046}_{-0.0045}$
A_{143}^{CIB}	2.69	—	β_4^4	0.05	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09621	$0.0967^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	46.6	44^{+9}_{-9}	β_5^4	0.24	$0.3^{+2.0}_{-1.9}$	Y_{He}	0.247840	$0.24794^{+0.00026}_{-0.00025}$
A_{143}^{tSZ}	4.00	—	$A_{\text{PS,ACT}}^{148}$	10.46	$10.6^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8249	$1.831^{+0.025}_{-0.026}$
$r_{\text{PS143/217}}$	0.821	> 0.722	$A_{\text{PS,ACT}}^{218}$	80.9	$81.1^{+7.7}_{-7.8}$	Age/Gyr	13.758	$13.730^{+0.095}_{-0.098}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.41	$7.48^{+3.1}_{-2.7}$	z_*	1089.75	$1089.4^{+1.0}_{-1.0}$
n^{CIB}	0.510	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.12	$10.29^{+0.98}_{-0.95}$	r_*	145.21	$145.1^{+1.2}_{-1.1}$
$c_{100/143}$	1.00063	$1.00064^{+0.00079}_{-0.00079}$	$A_{\text{PS,SPT}}^{220}$	76.9	$77.8^{+8.1}_{-8.1}$	θ_*	1.04191	$1.0420^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99925	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.760	> 0.664	z_{drag}	1059.78	$1060.3^{+1.3}_{-1.3}$
$\xi^{\text{tSZ-CIB}}$	0.02	—	$r_{\text{PS}}^{95/220}$	0.510	$0.57^{+0.25}_{-0.22}$	r_{drag}	147.90	$147.7^{+1.2}_{-1.1}$
A^{kSZ}	3.16	—	$r_{\text{PS}}^{150/220}$	0.9177	> 0.905	k_D	0.13992	$0.1403^{+0.0013}_{-0.0014}$
β_1^1	0.56	$0.7^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.409	< 0.758	θ_D	0.16110	$0.16079^{+0.00072}_{-0.00070}$
β_2^1	-0.02	$0.0^{+1.8}_{-1.9}$	$A_{\text{dust,e}}$	0.828	$0.85^{+0.38}_{-0.37}$	z_{EQ}	3329	3332^{+110}_{-110}
β_3^1	0.03	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9918	$0.991^{+0.015}_{-0.014}$	θ_{EQ}	0.8273	$0.828^{+0.022}_{-0.021}$
β_4^1	-0.09	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{217}	1.0047	$1.004^{+0.027}_{-0.026}$	$r_s/D_v(0.57)$	0.07251	$0.0726^{+0.0017}_{-0.0017}$
β_5^1	0.00	$0.0^{+1.9}_{-2.0}$	c_{ACTe}^{148}	0.9877	$0.987^{+0.014}_{-0.014}$	$H(0.57)$	0.00031191	$0.0003127^{+0.0000037}_{-0.0000034}$
β_1^2	-1.17	$-1.16^{+1.7}_{-1.7}$	c_{ACTe}^{217}	0.9617	$0.962^{+0.020}_{-0.020}$	$DA(0.57)$	1372.5	1368^{+29}_{-30}
β_2^2	-0.30	$-0.3^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9832	$0.981^{+0.039}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10522.77$; R-1 = 0.02665

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.68 commander.v3.light.clik: -9.74 CAMspec.v6.2TN_2013_01_18.clik: 7819.84 actspt_2013_01.clik: 693.50 Hubble - HST: 4.46

12.17 base_nrun_r_planck_CAMspec_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02251^{+0.00064}_{-0.00060}$	β_3^2	-0.17	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{150}	0.9840	$0.986^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.11853	$0.1177^{+0.0050}_{-0.0049}$	β_4^2	0.36	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0121	$1.020^{+0.047}_{-0.043}$
θ	1.04150	$1.0417^{+0.0012}_{-0.0012}$	β_5^2	-0.36	$-0.4^{+1.9}_{-1.9}$	Ω_Λ	0.6940	$0.700^{+0.029}_{-0.030}$
τ	0.0968	$0.107^{+0.033}_{-0.031}$	β_1^3	0.90	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3060	$0.300^{+0.030}_{-0.029}$
n_s	0.9606	$0.962^{+0.015}_{-0.014}$	β_2^3	-0.51	$-0.5^{+1.9}_{-1.9}$	σ_8	0.8270	$0.829^{+0.028}_{-0.027}$
n_{run}	-0.0090	$-0.024^{+0.020}_{-0.021}$	β_3^3	0.12	$0.2^{+2.0}_{-2.0}$	z_{re}	11.62	$12.3^{+2.5}_{-2.5}$
$\log[10^{10} A_s]$	3.102	$3.124^{+0.066}_{-0.061}$	β_4^3	-0.54	$-0.5^{+1.9}_{-2.0}$	r_{10}	0.000	< 0.154
r_{pivot}	0.000	< 0.250	β_5^3	-0.22	$-0.3^{+1.9}_{-2.0}$	H_0	67.98	$68.6^{+2.4}_{-2.3}$
A_{100}^{PS}	181	194^{+80}_{-80}	β_1^4	-0.14	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.295
A_{143}^{PS}	78.7	81^{+20}_{-20}	β_2^4	-0.38	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.224	$2.27^{+0.15}_{-0.14}$
A_{217}^{PS}	67.3	67^{+20}_{-20}	β_3^4	-0.20	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14143	$0.1409^{+0.0047}_{-0.0046}$
A_{143}^{CIB}	2.73	—	β_4^4	0.26	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09615	$0.0966^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	45.9	44^{+9}_{-9}	β_5^4	0.36	$0.3^{+2.0}_{-1.9}$	Y_{He}	0.247793	$0.24790^{+0.00027}_{-0.00026}$
A_{143}^{tSZ}	4.08	—	$A_{\text{PS,ACT}}^{148}$	10.43	$10.6^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8323	$1.834^{+0.025}_{-0.025}$
$r_{\text{PS143/217}}$	0.811	> 0.724	$A_{\text{PS,ACT}}^{218}$	80.7	$81.1^{+7.7}_{-7.8}$	Age/Gyr	13.784	$13.749^{+0.096}_{-0.10}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.45	$7.47^{+3.1}_{-2.7}$	z_*	1090.03	$1089.6^{+1.1}_{-1.1}$
n^{CIB}	0.503	$0.48^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{150}$	10.05	$10.27^{+0.99}_{-0.95}$	r_*	144.89	$144.9^{+1.2}_{-1.1}$
$c_{100/143}$	1.00064	$1.00063^{+0.00079}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	76.6	$77.7^{+8.1}_{-8.0}$	θ_*	1.04164	$1.0418^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99922	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.761	> 0.665	z_{drag}	1059.67	$1060.2^{+1.3}_{-1.3}$
$\xi^{\text{tSZ-CIB}}$	0.01	—	$r_{\text{PS}}^{95/220}$	0.509	$0.57^{+0.25}_{-0.22}$	r_{drag}	147.59	$147.5^{+1.2}_{-1.2}$
A^{kSZ}	3.00	—	$r_{\text{PS}}^{150/220}$	0.9169	> 0.904	k_D	0.14015	$0.1404^{+0.0013}_{-0.0013}$
β_1^1	0.62	$0.7^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.439	< 0.757	θ_D	0.16116	$0.16087^{+0.00073}_{-0.00071}$
β_2^1	-0.24	$0.0^{+1.8}_{-1.9}$	$A_{\text{dust,e}}$	0.847	$0.85^{+0.38}_{-0.38}$	z_{EQ}	3364	3351^{+110}_{-110}
β_3^1	-0.01	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9908	$0.991^{+0.015}_{-0.014}$	θ_{EQ}	0.8203	$0.824^{+0.022}_{-0.021}$
β_4^1	0.04	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0011	$1.003^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07193	$0.0723^{+0.0018}_{-0.0017}$
β_5^1	0.05	$0.0^{+2.0}_{-2.0}$	c_{ACTe}^{148}	0.9872	$0.987^{+0.014}_{-0.014}$	$H(0.57)$	0.00031082	$0.0003120^{+0.0000037}_{-0.0000034}$
β_1^2	-1.06	$-1.15^{+1.7}_{-1.7}$	c_{ACTe}^{217}	0.9601	$0.961^{+0.020}_{-0.020}$	$DA(0.57)$	1382.5	1374^{+30}_{-31}
β_2^2	-0.36	$-0.3^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9833	$0.981^{+0.039}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10945.92$; R-1 = 0.01655

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.51 commander.v3.light.clik: -9.65 CAMspec.v6.2TN_2013_01_18.clik: 7817.65 actspt_2013_01.clik: 694.27 SN - SNLS April_2012: 429.04

12.18 base_nrun_r_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02243^{+0.00062}_{-0.00061}$	β_3^2	-0.19	$0.0^{+2.0}_{-1.9}$	c_{SPT}^{150}	0.9836	$0.985^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.1195	$0.1189^{+0.0051}_{-0.0050}$	β_4^2	0.28	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0104	$1.020^{+0.047}_{-0.043}$
θ	1.04139	$1.0415^{+0.0012}_{-0.0012}$	β_5^2	-0.28	$-0.4^{+1.9}_{-2.0}$	Ω_Λ	0.6883	$0.693^{+0.029}_{-0.032}$
τ	0.0968	$0.105^{+0.033}_{-0.030}$	β_1^3	0.76	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3117	$0.307^{+0.032}_{-0.029}$
n_s	0.9587	$0.959^{+0.015}_{-0.014}$	β_2^3	-0.53	$-0.5^{+1.9}_{-1.9}$	σ_8	0.8308	$0.832^{+0.028}_{-0.027}$
n_{run}	-0.0075	$-0.023^{+0.020}_{-0.021}$	β_3^3	0.09	$0.2^{+2.0}_{-2.0}$	z_{re}	11.67	$12.2^{+2.5}_{-2.5}$
$\log[10^{10} A_s]$	3.104	$3.121^{+0.065}_{-0.060}$	β_4^3	-0.53	$-0.5^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.141
r_{pivot}	0.000	< 0.234	β_5^3	-0.42	$-0.3^{+1.9}_{-2.0}$	H_0	67.56	$68.0^{+2.3}_{-2.3}$
A_{100}^{PS}	182	195^{+80}_{-80}	β_1^4	-0.23	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.270
A_{143}^{PS}	78.1	81^{+20}_{-20}	β_2^4	-0.50	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.228	$2.27^{+0.15}_{-0.13}$
A_{217}^{PS}	66.6	68^{+20}_{-20}	β_3^4	-0.19	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14229	$0.1420^{+0.0048}_{-0.0046}$
A_{143}^{CIB}	2.58	—	β_4^4	0.17	$0.2^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09613	$0.0965^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	45.8	44^{+9}_{-9}	β_5^4	0.31	$0.3^{+2.0}_{-1.9}$	Y_{He}	0.247763	$0.24786^{+0.00026}_{-0.00026}$
A_{143}^{tSZ}	3.89	—	$A_{\text{PS,ACT}}^{148}$	10.42	$10.6^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8354	$1.839^{+0.025}_{-0.025}$
$r_{\text{PS143/217}}$	0.813	> 0.726	$A_{\text{PS,ACT}}^{218}$	80.8	$81.0^{+7.7}_{-7.9}$	Age/Gyr	13.799	$13.768^{+0.097}_{-0.098}$
r_{CIB}	0.9999	—	$A_{\text{PS,SPT}}^{95}$	7.52	$7.46^{+3.1}_{-2.7}$	z_*	1090.20	$1089.9^{+1.1}_{-1.1}$
n^{CIB}	0.509	$0.48^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{150}$	10.10	$10.25^{+0.99}_{-0.95}$	r_*	144.70	$144.7^{+1.1}_{-1.1}$
$c_{100/143}$	1.00062	$1.00063^{+0.00079}_{-0.00077}$	$A_{\text{PS,SPT}}^{220}$	76.5	$77.7^{+8.0}_{-8.0}$	θ_*	1.04154	$1.0417^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99921	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.749	> 0.666	z_{drag}	1059.55	$1060.1^{+1.3}_{-1.3}$
$\xi^{\text{tSZ-CIB}}$	0.02	—	$r_{\text{PS}}^{95/220}$	0.500	$0.57^{+0.25}_{-0.22}$	r_{drag}	147.43	$147.3^{+1.2}_{-1.2}$
A^{kSZ}	3.38	—	$r_{\text{PS}}^{150/220}$	0.9194	> 0.904	k_D	0.14027	$0.1406^{+0.0013}_{-0.0013}$
β_1^1	0.62	$0.7^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.415	< 0.758	θ_D	0.16121	$0.16093^{+0.00073}_{-0.00071}$
β_2^1	-0.10	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.840	$0.85^{+0.39}_{-0.38}$	z_{EQ}	3385	3377^{+120}_{-110}
β_3^1	-0.04	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9907	$0.990^{+0.014}_{-0.014}$	θ_{EQ}	0.8163	$0.819^{+0.022}_{-0.022}$
β_4^1	-0.02	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0015	$1.003^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07161	$0.0719^{+0.0018}_{-0.0017}$
β_5^1	0.03	$0.0^{+2.0}_{-2.0}$	c_{ACTe}^{148}	0.9871	$0.986^{+0.014}_{-0.014}$	$H(0.57)$	0.00031024	$0.0003112^{+0.0000036}_{-0.0000033}$
β_1^2	-1.10	$-1.15^{+1.8}_{-1.7}$	c_{ACTe}^{217}	0.9602	$0.961^{+0.021}_{-0.020}$	$DA(0.57)$	1388.1	1382^{+31}_{-31}
β_2^2	-0.40	$-0.3^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9840	$0.980^{+0.040}_{-0.037}$			

Best-fit $\chi_{\text{eff}}^2 = 10647.30$; R-1 = 0.01209

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.63 commander.v3.light.clik: -8.91 CAMspec.v6.2TN_2013_01_18.clik: 7816.89 actspt_2013_01.clik: 694.19 SN - Union2.1: 130.46

12.19 base_nrun_r_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02257	$0.0229^{+0.0017}_{-0.0014}$	z_{re}	10.62	$11.1^{+2.6}_{-2.4}$	θ_*	1.04038	$1.0414^{+0.0048}_{-0.0047}$
$\Omega_c h^2$	0.1147	$0.113^{+0.014}_{-0.014}$	r_{10}	0.026	< 0.274	z_{drag}	1060.09	$1060.8^{+3.1}_{-2.8}$
θ	1.04026	$1.0413^{+0.0049}_{-0.0048}$	H_0	69.2	71^{+8}_{-7}	r_{drag}	148.27	$148.4^{+2.9}_{-3.0}$
τ	0.0874	$0.095^{+0.032}_{-0.028}$	r	0.052	< 0.521	k_D	0.13968	$0.1397^{+0.0029}_{-0.0029}$
n_s	0.968	$0.969^{+0.078}_{-0.061}$	$10^9 A_s$	2.209	$2.23^{+0.17}_{-0.15}$	θ_D	0.16066	$0.1605^{+0.0013}_{-0.0013}$
n_{run}	-0.009	$-0.024^{+0.055}_{-0.053}$	$\Omega_m h^2$	0.1380	$0.136^{+0.013}_{-0.013}$	z_{EQ}	3281	3244^{+320}_{-310}
$\log[10^{10} A_s]$	3.095	$3.105^{+0.075}_{-0.067}$	$\Omega_m h^3$	0.09546	$0.0962^{+0.0038}_{-0.0037}$	θ_{EQ}	0.836	$0.846^{+0.072}_{-0.062}$
r_{pivot}	0.054	< 0.383	Y_{He}	0.24793	$0.24807^{+0.00070}_{-0.00060}$	$r_s/D_v(0.57)$	0.0729	$0.0740^{+0.0061}_{-0.0050}$
A_{SZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.855	$1.845^{+0.079}_{-0.073}$	$H(0.57)$	0.0003120	$0.000315^{+0.000014}_{-0.000010}$
Ω_Λ	0.712	$0.724^{+0.076}_{-0.087}$	Age/Gyr	13.772	$13.69^{+0.29}_{-0.35}$	$DA(0.57)$	1368	1348^{+88}_{-99}
Ω_m	0.288	$0.276^{+0.087}_{-0.076}$	z_*	1089.31	$1088.7^{+2.7}_{-3.0}$			
σ_8	0.810	$0.802^{+0.058}_{-0.058}$	r_*	145.64	$145.9^{+3.1}_{-3.1}$			

Best-fit $\chi_{\text{eff}}^2 = 7557.39$; R-1 = 0.01009
 χ_{eff}^2 : CMB - WMAP: 7557.39

12.20 base_nrun_r_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02244	$0.02249^{+0.00094}_{-0.00095}$	z_{re}	10.82	$11.3^{+2.7}_{-2.4}$	θ_*	1.04004	$1.0406^{+0.0041}_{-0.0043}$
$\Omega_c h^2$	0.1165	$0.1170^{+0.0053}_{-0.0052}$	r_{10}	0.005	< 0.248	z_{drag}	1059.93	$1060.1^{+2.2}_{-2.3}$
θ	1.03992	$1.0405^{+0.0041}_{-0.0043}$	H_0	68.32	$68.4^{+2.1}_{-2.0}$	r_{drag}	147.93	$147.8^{+1.9}_{-1.8}$
τ	0.0887	$0.095^{+0.033}_{-0.028}$	r	0.011	< 0.453	k_D	0.13993	$0.1402^{+0.0023}_{-0.0025}$
n_s	0.9652	$0.949^{+0.041}_{-0.038}$	$10^9 A_s$	2.225	$2.25^{+0.17}_{-0.14}$	θ_D	0.16073	$0.1607^{+0.0012}_{-0.0011}$
n_{run}	-0.0061	$-0.034^{+0.041}_{-0.047}$	$\Omega_m h^2$	0.1396	$0.1401^{+0.0055}_{-0.0054}$	z_{EQ}	3320	3333^{+130}_{-130}
$\log[10^{10} A_s]$	3.103	$3.114^{+0.073}_{-0.064}$	$\Omega_m h^3$	0.09538	$0.0958^{+0.0035}_{-0.0037}$	θ_{EQ}	0.8276	$0.826^{+0.022}_{-0.022}$
r_{pivot}	0.012	< 0.344	Y_{He}	0.247870	$0.24789^{+0.00039}_{-0.00041}$	$r_s/D_v(0.57)$	0.07219	$0.0722^{+0.0015}_{-0.0015}$
A_{SZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.8635	$1.863^{+0.046}_{-0.046}$	$H(0.57)$	0.00031071	$0.0003112^{+0.0000046}_{-0.0000045}$
Ω_Λ	0.7009	$0.700^{+0.024}_{-0.026}$	Age/Gyr	13.804	$13.78^{+0.18}_{-0.18}$	$DA(0.57)$	1379.3	1378^{+29}_{-29}
Ω_m	0.2991	$0.300^{+0.026}_{-0.024}$	z_*	1089.63	$1089.6^{+1.3}_{-1.2}$			
σ_8	0.8199	$0.816^{+0.039}_{-0.037}$	r_*	145.27	$145.1^{+1.6}_{-1.6}$			

Best-fit $\chi_{\text{eff}}^2 = 7558.89$; R-1 = 0.01705
 χ_{eff}^2 : BAO - 6DF: 0.05 DR7: 0.45 DR9: 0.74 CMB - WMAP: 7557.65

12.21 base_nrun_r_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02331	$0.0233^{+0.0012}_{-0.0011}$	z_{re}	11.00	$10.9^{+2.5}_{-2.3}$	θ_*	1.04209	$1.0422^{+0.0044}_{-0.0043}$
$\Omega_c h^2$	0.1084	$0.1085^{+0.0090}_{-0.0083}$	r_{10}	0.090	< 0.293	z_{drag}	1061.34	$1061.4^{+2.4}_{-2.4}$
θ	1.04205	$1.0422^{+0.0044}_{-0.0043}$	H_0	72.83	$72.9^{+4.1}_{-4.1}$	r_{drag}	149.17	$149.2^{+2.2}_{-2.2}$
τ	0.0965	$0.096^{+0.032}_{-0.028}$	r	0.183	< 0.557	k_D	0.13924	$0.1393^{+0.0026}_{-0.0026}$
n_s	0.990	$0.989^{+0.051}_{-0.051}$	$10^9 A_s$	2.212	$2.21^{+0.16}_{-0.14}$	θ_D	0.16021	$0.1602^{+0.0012}_{-0.0011}$
n_{run}	-0.009	$-0.014^{+0.049}_{-0.054}$	$\Omega_m h^2$	0.1324	$0.1324^{+0.0086}_{-0.0079}$	z_{EQ}	3148	3149^{+200}_{-190}
$\log[10^{10} A_s]$	3.097	$3.097^{+0.070}_{-0.063}$	$\Omega_m h^3$	0.09644	$0.0965^{+0.0037}_{-0.0036}$	θ_{EQ}	0.8657	$0.866^{+0.042}_{-0.041}$
r_{pivot}	0.169	< 0.402	Y_{He}	0.248234	$0.24824^{+0.00046}_{-0.00047}$	$r_s/D_v(0.57)$	0.07558	$0.0757^{+0.0033}_{-0.0032}$
A_{SZ}	1.33	—	$10^9 A_s e^{-2\tau}$	1.824	$1.826^{+0.057}_{-0.053}$	$H(0.57)$	0.0003183	$0.0003187^{+0.0000079}_{-0.0000074}$
Ω_Λ	0.7504	$0.750^{+0.038}_{-0.046}$	Age/Gyr	13.611	$13.60^{+0.22}_{-0.22}$	$DA(0.57)$	1320	1319^{+54}_{-52}
Ω_m	0.2496	$0.250^{+0.046}_{-0.038}$	z_*	1087.89	$1087.9^{+1.8}_{-1.7}$			
σ_8	0.7908	$0.789^{+0.045}_{-0.043}$	r_*	146.76	$146.8^{+2.2}_{-2.2}$			

Best-fit $\chi^2_{\text{eff}} = 7558.26$; R-1 = 0.01552

χ^2_{eff} : CMB - WMAP: 7558.06 Hubble - HST: 0.20

12.22 base_nrun_r_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02322	$0.0233^{+0.0015}_{-0.0013}$	z_{re}	10.90	$10.9^{+2.5}_{-2.3}$	θ_*	1.04173	$1.0421^{+0.0047}_{-0.0047}$
$\Omega_c h^2$	0.1088	$0.108^{+0.011}_{-0.010}$	r_{10}	0.074	< 0.293	z_{drag}	1061.15	$1061.3^{+2.9}_{-2.7}$
θ	1.04167	$1.0420^{+0.0047}_{-0.0047}$	H_0	72.5	$73.0^{+5.9}_{-5.3}$	r_{drag}	149.17	$149.2^{+2.4}_{-2.4}$
τ	0.0947	$0.096^{+0.032}_{-0.028}$	r	0.150	< 0.560	k_D	0.13917	$0.1392^{+0.0026}_{-0.0026}$
n_s	0.990	$0.989^{+0.064}_{-0.060}$	$10^9 A_s$	2.207	$2.21^{+0.16}_{-0.14}$	θ_D	0.16026	$0.1602^{+0.0013}_{-0.0012}$
n_{run}	-0.005	$-0.014^{+0.052}_{-0.054}$	$\Omega_m h^2$	0.1327	$0.1323^{+0.0099}_{-0.0096}$	z_{EQ}	3155	3146^{+240}_{-230}
$\log[10^{10} A_s]$	3.094	$3.096^{+0.071}_{-0.063}$	$\Omega_m h^3$	0.09617	$0.0964^{+0.0038}_{-0.0038}$	θ_{EQ}	0.864	$0.867^{+0.054}_{-0.049}$
r_{pivot}	0.143	< 0.404	Y_{He}	0.24819	$0.24823^{+0.00058}_{-0.00056}$	$r_s/D_v(0.57)$	0.07534	$0.0757^{+0.0046}_{-0.0040}$
A_{SZ}	0.99	—	$10^9 A_s e^{-2\tau}$	1.826	$1.825^{+0.060}_{-0.057}$	$H(0.57)$	0.0003176	$0.000319^{+0.000011}_{-0.0000094}$
Ω_Λ	0.747	$0.750^{+0.052}_{-0.058}$	Age/Gyr	13.633	$13.61^{+0.27}_{-0.29}$	$DA(0.57)$	1325	1319^{+70}_{-74}
Ω_m	0.253	$0.250^{+0.058}_{-0.052}$	z_*	1088.03	$1087.9^{+2.2}_{-2.3}$			
σ_8	0.7924	$0.788^{+0.048}_{-0.048}$	r_*	146.73	$146.8^{+2.4}_{-2.4}$			

Best-fit $\chi^2_{\text{eff}} = 7983.71$; R-1 = 0.01202

χ^2_{eff} : CMB - WMAP: 7557.94 SN - SNLS April_2012: 425.77

12.23 base_nrun_r_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02273	$0.0229^{+0.0014}_{-0.0013}$	z_{re}	10.61	$11.1^{+2.6}_{-2.4}$	θ_*	1.04068	$1.0414^{+0.0046}_{-0.0046}$
$\Omega_c h^2$	0.1132	$0.113^{+0.011}_{-0.011}$	r_{10}	0.034	< 0.271	z_{drag}	1060.35	$1060.7^{+2.7}_{-2.6}$
θ	1.04057	$1.0413^{+0.0047}_{-0.0047}$	H_0	70.0	$70.7^{+5.9}_{-5.2}$	r_{drag}	148.51	$148.5^{+2.5}_{-2.5}$
τ	0.0883	$0.095^{+0.032}_{-0.028}$	r	0.069	< 0.513	k_D	0.13954	$0.1397^{+0.0027}_{-0.0026}$
n_s	0.975	$0.969^{+0.064}_{-0.056}$	$10^9 A_s$	2.205	$2.23^{+0.16}_{-0.14}$	θ_D	0.16056	$0.1605^{+0.0013}_{-0.0012}$
n_{run}	-0.006	$-0.024^{+0.049}_{-0.051}$	$\Omega_m h^2$	0.1366	$0.136^{+0.010}_{-0.010}$	z_{EQ}	3248	3241^{+250}_{-250}
$\log[10^{10} A_s]$	3.093	$3.105^{+0.072}_{-0.065}$	$\Omega_m h^3$	0.09561	$0.0962^{+0.0038}_{-0.0037}$	θ_{EQ}	0.843	$0.846^{+0.055}_{-0.049}$
r_{pivot}	0.070	< 0.378	Y_{He}	0.24799	$0.24806^{+0.00057}_{-0.00054}$	$r_s/D_v(0.57)$	0.07347	$0.0739^{+0.0046}_{-0.0039}$
A_{SZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.848	$1.844^{+0.065}_{-0.062}$	$H(0.57)$	0.0003133	$0.000315^{+0.000011}_{-0.0000086}$
Ω_Λ	0.721	$0.725^{+0.059}_{-0.066}$	Age/Gyr	13.740	$13.70^{+0.26}_{-0.29}$	$DA(0.57)$	1357	1348^{+70}_{-76}
Ω_m	0.279	$0.275^{+0.066}_{-0.059}$	z_*	1088.99	$1088.8^{+2.2}_{-2.3}$			
σ_8	0.8064	$0.802^{+0.049}_{-0.049}$	r_*	145.93	$145.9^{+2.5}_{-2.5}$			

Best-fit $\chi^2_{\text{eff}} = 7687.33$; R-1 = 0.00967

χ^2_{eff} : CMB - WMAP: 7557.45 SN - Union2.1: 129.88

13 nrun+r+omegak

13.1 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.02279^{+0.00088}_{-0.00076}$	β_2^1	0.01	$0.1^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.321
$\Omega_c h^2$	0.1193	$0.1158^{+0.0062}_{-0.0061}$	β_3^1	0.26	$0.0^{+1.9}_{-1.9}$	H_0	66.2	53^{+10}_{-10}
θ	1.04143	$1.0420^{+0.0014}_{-0.0014}$	β_4^1	-0.19	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.547
τ	0.0954	$0.095^{+0.031}_{-0.026}$	β_5^1	-0.26	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.221	$2.21^{+0.14}_{-0.12}$
Ω_K	-0.003	$-0.058^{+0.053}_{-0.076}$	β_1^2	0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1421	$0.1392^{+0.0057}_{-0.0055}$
n_s	0.9639	$0.971^{+0.020}_{-0.019}$	β_2^2	-0.29	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0940	$0.074^{+0.019}_{-0.016}$
n_{run}	-0.0024	$-0.021^{+0.023}_{-0.027}$	β_3^2	-0.26	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247750	$0.24802^{+0.00036}_{-0.00032}$
$\log[10^{10} A_s]$	3.101	$3.094^{+0.063}_{-0.054}$	β_4^2	0.25	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8352	$1.826^{+0.029}_{-0.028}$
r_{pivot}	0.000	< 0.406	β_5^2	0.20	$-0.2^{+1.9}_{-2.0}$	Age/Gyr	13.94	$15.6^{+1.6}_{-1.6}$
A_{100}^{PS}	163	144^{+100}_{-100}	β_1^3	-0.14	$-0.1^{+1.9}_{-1.9}$	z_*	1090.22	$1089.1^{+1.3}_{-1.5}$
A_{143}^{PS}	54.4	50^{+30}_{-30}	β_2^3	-0.21	$-0.2^{+2.0}_{-2.0}$	r_*	144.76	$145.2^{+1.3}_{-1.3}$
A_{217}^{PS}	121.8	117^{+30}_{-30}	β_3^3	0.05	$0.0^{+2.0}_{-2.0}$	θ_*	1.04158	$1.0421^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	8.21	—	β_4^3	-0.26	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.47	$1060.7^{+1.7}_{-1.5}$
A_{217}^{CIB}	23.9	21^{+10}_{-10}	β_5^3	-0.42	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.50	$147.7^{+1.2}_{-1.3}$
A_{143}^{tSZ}	5.01	—	β_1^4	0.07	$-0.1^{+1.9}_{-1.9}$	k_D	0.14017	$0.1404^{+0.0014}_{-0.0014}$
$r_{PS143/217}$	0.885	> 0.661	β_2^4	-0.43	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16126	$0.16062^{+0.00083}_{-0.00087}$
r_{CIB}	0.342	—	β_3^4	-0.21	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3380	3312^{+140}_{-130}
n^{CIB}	0.391	$0.24^{+0.27}_{-0.30}$	β_4^4	-0.05	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8171	$0.832^{+0.028}_{-0.027}$
$c_{100/143}$	1.00054	$1.00061^{+0.00077}_{-0.00078}$	β_5^4	0.31	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.0706	$0.0605^{+0.0098}_{-0.0078}$
$c_{217/143}$	0.99624	$0.9965^{+0.0026}_{-0.0025}$	Ω_Λ	0.678	$0.54^{+0.14}_{-0.18}$	$H(0.57)$	0.0003064	$0.000271^{+0.000034}_{-0.000027}$
$\xi^{tSZ-CIB}$	0.22	—	Ω_m	0.325	$0.52^{+0.25}_{-0.20}$	$DA(0.57)$	1411	1686^{+300}_{-300}
A^{kSZ}	0.3	—	σ_8	0.830	$0.783^{+0.049}_{-0.056}$			
β_1^1	0.90	$0.5^{+1.7}_{-1.6}$	z_{re}	11.54	$11.0^{+2.5}_{-2.3}$			

Best-fit $\chi_{\text{eff}}^2 = 9803.86$; R-1 = 0.03618

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.74 commander_v3.light.clik: -8.68 CAMspec_v6.2TN_2013_01_18.clik: 7797.79

13.2 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02221	$0.02257^{+0.00066}_{-0.00061}$	β_2^1	0.00	$0.1^{+1.9}_{-1.8}$	r_{10}	0.001	< 0.192
$\Omega_c h^2$	0.1199	$0.1162^{+0.0052}_{-0.0058}$	β_3^1	-0.10	$0.1^{+1.8}_{-1.9}$	H_0	67.3	$62.5^{+6.9}_{-7.2}$
θ	1.04112	$1.0418^{+0.0013}_{-0.0014}$	β_4^1	-0.02	$0.0^{+1.8}_{-1.9}$	r	0.001	< 0.351
τ	0.0949	$0.094^{+0.034}_{-0.025}$	β_5^1	-0.16	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.220	$2.20^{+0.15}_{-0.12}$
Ω_K	-0.0001	$-0.017^{+0.019}_{-0.028}$	β_1^2	-0.12	$-0.2^{+1.7}_{-1.8}$	$\Omega_m h^2$	0.1428	$0.1394^{+0.0049}_{-0.0053}$
n_s	0.9611	$0.968^{+0.018}_{-0.019}$	β_2^2	0.05	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0961	$0.087^{+0.011}_{-0.012}$
n_{run}	-0.0004	$-0.017^{+0.024}_{-0.024}$	β_3^2	-0.02	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247770	$0.24793^{+0.00028}_{-0.00026}$
$\log[10^{10} A_s]$	3.100	$3.091^{+0.068}_{-0.056}$	β_4^2	-0.19	$0.2^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8357	$1.824^{+0.027}_{-0.032}$
r_{pivot}	0.001	< 0.292	β_5^2	0.00	$-0.1^{+2.0}_{-1.9}$	Age/Gyr	13.81	$14.43^{+0.97}_{-0.78}$
A_{100}^{PS}	154	155^{+100}_{-100}	β_1^3	0.04	$0.0^{+1.8}_{-1.7}$	z_*	1090.22	$1089.4^{+1.1}_{-1.2}$
A_{143}^{PS}	58.6	52^{+40}_{-30}	β_2^3	-0.02	$-0.2^{+1.9}_{-1.9}$	r_*	144.56	$145.3^{+1.3}_{-1.2}$
A_{217}^{PS}	60.5	115^{+30}_{-30}	β_3^3	-0.08	$0.0^{+2.0}_{-2.1}$	θ_*	1.04126	$1.0419^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	8.82	—	β_4^3	-0.10	$-0.1^{+2.1}_{-1.9}$	z_{drag}	1059.63	$1060.2^{+1.4}_{-1.3}$
A_{217}^{CIB}	47.9	23^{+10}_{-10}	β_5^3	-0.09	$-0.1^{+1.8}_{-1.9}$	r_{drag}	147.28	$147.9^{+1.2}_{-1.2}$
A_{143}^{tSZ}	3.69	—	β_1^4	-0.06	$-0.1^{+1.9}_{-1.8}$	k_D	0.14044	$0.1401^{+0.0013}_{-0.0014}$
$r_{PS143/217}$	0.935	> 0.645	β_2^4	0.01	$-0.1^{+1.8}_{-1.9}$	θ_D	0.16113	$0.16087^{+0.00073}_{-0.00072}$
r_{CIB}	0.579	—	β_3^4	0.04	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3397	3315^{+120}_{-130}
n^{CIB}	0.578	$0.22^{+0.28}_{-0.28}$	β_4^4	-0.17	$0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8140	$0.831^{+0.026}_{-0.023}$
$c_{100/143}$	1.00046	$1.00061^{+0.00080}_{-0.00077}$	β_5^4	0.01	$0.2^{+2.2}_{-1.9}$	$r_s/D_v(0.57)$	0.0714	$0.0677^{+0.0053}_{-0.0055}$
$c_{217/143}$	0.99895	$0.9966^{+0.0024}_{-0.0026}$	Ω_Λ	0.685	$0.656^{+0.055}_{-0.060}$	$H(0.57)$	0.0003098	$0.000295^{+0.000019}_{-0.000021}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_m	0.316	$0.360^{+0.085}_{-0.071}$	$DA(0.57)$	1392	1482^{+150}_{-120}
A^{kSZ}	1.14	—	σ_8	0.0688	$0.805^{+0.035}_{-0.040}$			
β_1^1	0.36	$0.5^{+1.7}_{-1.7}$	z_{re}	11.51	$11.1^{+2.6}_{-2.2}$			

Best-fit $\chi_{\text{eff}}^2 = 9834.74$; R-1 = 0.18367

χ_{eff}^2 : CMB - lowlike.v22.light.cli: 2014.60 lensing_likelihood.v3.ref.cli: 11.22 commander.v3.light.cli: -6.93 CAMspec.v6.2TN_2013_01_18.cli
7815.85

13.3 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02224	$0.02254^{+0.00071}_{-0.00071}$	β_2^1	-0.12	$-0.1^{+2.5}_{-1.9}$	r_{10}	0.000	< 0.164
$\Omega_c h^2$	0.11816	$0.1177^{+0.0049}_{-0.0048}$	β_3^1	-0.07	$0.0^{+1.8}_{-2.9}$	H_0	70.99	$71.8^{+3.9}_{-4.7}$
θ	1.04152	$1.0414^{+0.0012}_{-0.0016}$	β_4^1	-0.16	$0.2^{+2.2}_{-2.2}$	r	0.000	< 0.312
τ	0.0973	$0.103^{+0.038}_{-0.026}$	β_5^1	0.27	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.222	$2.25^{+0.18}_{-0.11}$
Ω_K	0.0054	$0.0058^{+0.0092}_{-0.010}$	β_1^2	0.28	$-0.1^{+1.7}_{-2.5}$	$\Omega_m h^2$	0.14104	$0.1409^{+0.0044}_{-0.0044}$
n_s	0.9641	$0.962^{+0.017}_{-0.017}$	β_2^2	0.04	$0.0^{+1.9}_{-2.1}$	$\Omega_m h^3$	0.1001	$0.1011^{+0.0067}_{-0.0079}$
n_{run}	-0.0057	$-0.025^{+0.019}_{-0.017}$	β_3^2	-0.01	$0.1^{+2.2}_{-1.7}$	Y_{He}	0.247783	$0.24791^{+0.00030}_{-0.00030}$
$\log[10^{10} A_s]$	3.101	$3.113^{+0.080}_{-0.052}$	β_4^2	0.34	$0.3^{+1.7}_{-1.6}$	$10^9 A_s e^{-2\tau}$	1.8290	$1.831^{+0.030}_{-0.022}$
r_{pivot}	0.000	< 0.285	β_5^2	0.02	$0.0^{+2.5}_{-2.0}$	Age/Gyr	13.509	$13.45^{+0.47}_{-0.30}$
A_{100}^{PS}	204	173^{+100}_{-100}	β_1^3	0.23	$-0.1^{+1.6}_{-2.1}$	z_*	1090.03	$1089.6^{+1.0}_{-1.2}$
A_{143}^{PS}	48	53^{+40}_{-30}	β_2^3	-0.25	$0.0^{+1.7}_{-1.6}$	r_*	145.00	$144.90^{+0.95}_{-1.0}$
A_{217}^{PS}	117.5	115^{+30}_{-20}	β_3^3	-0.28	$-0.1^{+1.9}_{-2.1}$	θ_*	1.04167	$1.0416^{+0.0012}_{-0.0016}$
A_{143}^{CIB}	14.2	—	β_4^3	-0.16	$0.0^{+2.6}_{-2.0}$	z_{drag}	1059.59	$1060.2^{+1.3}_{-1.6}$
A_{217}^{CIB}	26.5	25^{+10}_{-10}	β_5^3	-0.11	$-0.1^{+2.5}_{-1.9}$	r_{drag}	147.72	$147.5^{+1.1}_{-1.1}$
A_{143}^{tSZ}	2.80	—	β_1^4	0.37	$-0.2^{+1.8}_{-2.3}$	k_D	0.14000	$0.1404^{+0.0016}_{-0.0015}$
$r_{PS143/217}$	0.812	> 0.661	β_2^4	-0.01	$0.0^{+2.4}_{-1.6}$	θ_D	0.16120	$0.16081^{+0.00098}_{-0.00078}$
r_{CIB}	0.483	—	β_3^4	-0.02	$0.0^{+1.9}_{-1.1}$	z_{EQ}	3355	3351^{+100}_{-110}
n^{CIB}	0.337	$0.21^{+0.25}_{-0.32}$	β_4^4	-0.04	$-0.1^{+1.8}_{-1.9}$	θ_{EQ}	0.8220	$0.824^{+0.022}_{-0.021}$
$c_{100/143}$	1.00063	$1.00067^{+0.00095}_{-0.00091}$	β_5^4	0.35	$0.4^{+2.4}_{-1.4}$	$r_s/D_v(0.57)$	0.07426	$0.0748^{+0.0032}_{-0.0036}$
$c_{217/143}$	0.99613	$0.9968^{+0.0028}_{-0.0023}$	Ω_Λ	0.7147	$0.720^{+0.034}_{-0.033}$	$H(0.57)$	0.0003187	$0.000321^{+0.000012}_{-0.000013}$
$\xi^{tSZ-CIB}$	0.123	—	Ω_m	0.2799	$0.274^{+0.040}_{-0.030}$	$DA(0.57)$	1336	1325^{+75}_{-50}
A^{kSZ}	0.1	—	σ_8	0.8300	$0.827^{+0.029}_{-0.031}$			
β_1^1	0.31	$0.4^{+1.6}_{-1.4}$	z_{re}	11.68	$12.0^{+2.8}_{-2.0}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.54$; R-1 = 4.08355

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.21 commander.v3.light.clik: -8.86 CAMspec.v6.2TN_2013_01_18.clik: 7799.79 Hubble - HST: 1.41

13.4 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02209	$0.02282^{+0.00089}_{-0.00075}$	β_2^2	-0.43	$-0.3^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9870	$0.986^{+0.039}_{-0.038}$
$\Omega_c h^2$	0.1193	$0.1160^{+0.0061}_{-0.0062}$	β_3^2	0.11	$0.0^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9862	$0.990^{+0.020}_{-0.019}$
θ	1.04132	$1.0420^{+0.0013}_{-0.0014}$	β_4^2	0.27	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0195	$1.024^{+0.047}_{-0.044}$
τ	0.0961	$0.096^{+0.033}_{-0.028}$	β_5^2	-0.16	$-0.4^{+1.9}_{-2.0}$	Ω_Λ	0.685	$0.54^{+0.13}_{-0.18}$
Ω_K	-0.001	$-0.059^{+0.050}_{-0.076}$	β_1^3	0.72	$0.8^{+1.9}_{-1.8}$	Ω_m	0.317	$0.52^{+0.25}_{-0.18}$
n_s	0.9603	$0.968^{+0.019}_{-0.018}$	β_2^3	-0.53	$-0.6^{+1.9}_{-1.9}$	σ_8	0.831	$0.785^{+0.050}_{-0.056}$
n_{run}	-0.0012	$-0.026^{+0.020}_{-0.027}$	β_3^3	0.16	$0.2^{+1.9}_{-1.9}$	z_{re}	11.64	$11.2^{+2.6}_{-2.4}$
$\log[10^{10} A_s]$	3.100	$3.099^{+0.064}_{-0.057}$	β_4^3	-0.45	$-0.4^{+1.9}_{-2.0}$	r_{10}	0.000	< 0.342
r_{pivot}	0.000	< 0.420	β_5^3	-0.24	$-0.3^{+1.9}_{-2.0}$	H_0	67.0	53^{+10}_{-10}
A_{100}^{PS}	175	186^{+80}_{-80}	β_1^4	-0.02	$-0.4^{+1.9}_{-2.0}$	r	0.000	< 0.575
A_{143}^{PS}	74.5	76^{+20}_{-20}	β_2^4	-0.28	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.220	$2.22^{+0.15}_{-0.12}$
A_{217}^{PS}	57.1	63^{+20}_{-20}	β_3^4	-0.11	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1421	$0.1395^{+0.0056}_{-0.0057}$
A_{143}^{CIB}	2.75	—	β_4^4	-0.08	$0.2^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0952	$0.074^{+0.018}_{-0.016}$
A_{217}^{CIB}	49.3	45^{+9}_{-9}	β_5^4	0.30	$0.3^{+1.9}_{-2.0}$	Y_{He}	0.247718	$0.24803^{+0.00037}_{-0.00032}$
A_{143}^{tSZ}	4.06	—	$A_{\text{PS,ACT}}^{148}$	10.47	$10.8^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8319	$1.829^{+0.029}_{-0.027}$
$r_{\text{PS}143/217}$	0.868	> 0.714	$A_{\text{PS,ACT}}^{218}$	78.8	$81.4^{+7.8}_{-7.9}$	Age/Gyr	13.86	$15.6^{+1.6}_{-1.5}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	6.93	$7.83^{+3.1}_{-2.8}$	z_*	1090.33	$1089.1^{+1.3}_{-1.5}$
n^{CIB}	0.549	$0.50^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.14	$10.5^{+1.0}_{-0.95}$	r_*	144.81	$145.1^{+1.3}_{-1.3}$
$c_{100/143}$	1.00061	$1.00063^{+0.00078}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	75.8	$78.3^{+8.2}_{-8.0}$	θ_*	1.04148	$1.0421^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99961	$0.99993^{+0.0021}_{-0.0020}$	$r_{\text{PS}}^{95/150}$	0.786	> 0.664	z_{drag}	1059.32	$1060.7^{+1.7}_{-1.5}$
$\xi^{\text{tSZ-CIB}}$	0.065	—	$r_{\text{PS}}^{95/220}$	0.558	$0.55^{+0.24}_{-0.20}$	r_{drag}	147.57	$147.7^{+1.3}_{-1.2}$
$A^{k\text{SZ}}$	3.51	—	$r_{\text{PS}}^{150/220}$	0.9244	> 0.901	k_D	0.14003	$0.1405^{+0.0013}_{-0.0014}$
β_1^1	0.66	$0.6^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.440	< 0.751	θ_D	0.16135	$0.16057^{+0.00081}_{-0.00088}$
β_2^1	0.03	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,e}}$	0.767	$0.84^{+0.38}_{-0.39}$	z_{EQ}	3379	3318^{+130}_{-140}
β_3^1	-0.39	$0.1^{+1.9}_{-2.0}$	c_{ACTs}^{148}	0.9925	$0.992^{+0.015}_{-0.014}$	θ_{EQ}	0.8169	$0.831^{+0.028}_{-0.026}$
β_4^1	-0.11	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{217}	1.0056	$1.006^{+0.027}_{-0.026}$	$r_s/D_v(0.57)$	0.0712	$0.0604^{+0.0087}_{-0.0077}$
β_5^1	-0.02	$-0.1^{+1.9}_{-1.9}$	c_{ACTe}^{148}	0.9876	$0.989^{+0.015}_{-0.015}$	$H(0.57)$	0.0003086	$0.000271^{+0.000031}_{-0.000027}$
β_1^2	-0.70	$-1.18^{+1.7}_{-1.8}$	c_{ACTe}^{217}	0.9626	$0.964^{+0.021}_{-0.020}$	$DA(0.57)$	1397	1688^{+300}_{-200}

Best-fit $\chi_{\text{eff}}^2 = 10520.20$; R-1 = 0.04316

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.74 commander.v3.light.clik: -7.29 CAMspec.v6.2TN_2013_01_18.clik: 7820.57 actspt_2013_01.clik: 692.12

13.5 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02262^{+0.00069}_{-0.00067}$	β_2^2	0.16	$-0.3^{+1.8}_{-2.0}$	c_{SPT}^{95}	0.9886	$0.982^{+0.040}_{-0.041}$
$\Omega_c h^2$	0.1191	$0.1163^{+0.0062}_{-0.0057}$	β_3^2	0.01	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{150}	0.9863	$0.985^{+0.018}_{-0.017}$
θ	1.04147	$1.0418^{+0.0012}_{-0.0013}$	β_4^2	0.33	$0.3^{+1.9}_{-2.2}$	c_{SPT}^{220}	1.0169	$1.021^{+0.047}_{-0.043}$
τ	0.0977	$0.097^{+0.033}_{-0.030}$	β_5^2	-0.51	$-0.4^{+2.0}_{-2.1}$	Ω_Λ	0.687	$0.654^{+0.056}_{-0.061}$
Ω_K	-0.0009	$-0.017^{+0.021}_{-0.026}$	β_1^3	0.66	$0.7^{+1.9}_{-1.7}$	Ω_m	0.314	$0.363^{+0.090}_{-0.075}$
n_s	0.9617	$0.965^{+0.016}_{-0.017}$	β_2^3	-0.49	$-0.5^{+1.8}_{-2.0}$	σ_8	0.0687	$0.807^{+0.037}_{-0.044}$
n_{run}	-0.0023	$-0.022^{+0.020}_{-0.019}$	β_3^3	0.21	$0.3^{+1.8}_{-2.1}$	z_{re}	11.73	$11.3^{+2.5}_{-2.5}$
$\log[10^{10} A_s]$	3.104	$3.098^{+0.066}_{-0.063}$	β_4^3	-0.29	$-0.4^{+1.8}_{-1.8}$	r_{10}	0.000	< 0.229
r_{pivot}	0.000	< 0.332	β_5^3	-0.25	$-0.3^{+2.0}_{-2.0}$	H_0	67.3	62^{+8}_{-7}
A_{100}^{PS}	166	195^{+80}_{-70}	β_1^4	-0.08	$-0.5^{+1.9}_{-2.3}$	r	0.000	< 0.416
A_{143}^{PS}	76.8	80^{+20}_{-20}	β_2^4	0.11	$-0.3^{+1.9}_{-2.1}$	$10^9 A_s$	2.228	$2.22^{+0.15}_{-0.14}$
A_{217}^{PS}	62.0	64^{+20}_{-20}	β_3^4	0.14	$-0.1^{+2.0}_{-2.2}$	$\Omega_m h^2$	0.1419	$0.1396^{+0.0058}_{-0.0053}$
A_{143}^{CIB}	3.15	—	β_4^4	0.35	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0955	$0.087^{+0.012}_{-0.012}$
A_{217}^{CIB}	48.6	45^{+10}_{-9}	β_5^4	0.30	$0.3^{+2.0}_{-1.8}$	Y_{He}	0.247765	$0.24795^{+0.00029}_{-0.00029}$
A_{143}^{tSZ}	4.92	—	$A_{\text{PS,ACT}}^{148}$	10.60	$10.7^{+1.3}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.827^{+0.030}_{-0.028}$
$r_{\text{PS}143/217}$	0.831	> 0.722	$A_{\text{PS,ACT}}^{218}$	80.1	$81.3^{+7.6}_{-8.0}$	Age/Gyr	13.84	$14.44^{+0.93}_{-0.84}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.36	$7.60^{+3.1}_{-2.6}$	z_*	1090.16	$1089.4^{+1.3}_{-1.2}$
n^{CIB}	0.530	$0.49^{+0.13}_{-0.13}$	$A_{\text{PS,SPT}}^{150}$	10.23	$10.35^{+0.98}_{-1.0}$	r_*	144.79	$145.2^{+1.3}_{-1.3}$
$c_{100/143}$	1.00059	$1.00065^{+0.00077}_{-0.00074}$	$A_{\text{PS,SPT}}^{220}$	76.5	78^{+9}_{-8}	θ_*	1.04161	$1.0419^{+0.0011}_{-0.0012}$
$c_{217/143}$	0.99963	$0.9994^{+0.0018}_{-0.0020}$	$r_{\text{PS}}^{95/150}$	0.799	> 0.669	z_{drag}	1059.55	$1060.3^{+1.3}_{-1.3}$
$\xi^{\text{tSZ-CIB}}$	0.000	—	$r_{\text{PS}}^{95/220}$	0.549	$0.56^{+0.28}_{-0.20}$	r_{drag}	147.52	$147.8^{+1.3}_{-1.2}$
$A^{k\text{SZ}}$	0.88	—	$r_{\text{PS}}^{150/220}$	0.9108	> 0.895	k_D	0.14018	$0.1402^{+0.0014}_{-0.0014}$
β_1^1	0.52	$0.5^{+1.5}_{-1.4}$	$A_{\text{dust,s}}$	0.407	< 0.765	θ_D	0.16122	$0.16078^{+0.00076}_{-0.00070}$
β_2^1	-0.03	$0.0^{+2.1}_{-2.0}$	$A_{\text{dust,e}}$	0.829	$0.84^{+0.37}_{-0.43}$	z_{EQ}	3376	3320^{+140}_{-130}
β_3^1	-0.07	$0.1^{+2.1}_{-2.1}$	c_{ACTs}^{148}	0.9913	$0.990^{+0.013}_{-0.014}$	θ_{EQ}	0.8180	$0.830^{+0.026}_{-0.026}$
β_4^1	-0.01	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{217}	1.0035	$1.006^{+0.029}_{-0.025}$	$r_s/D_v(0.57)$	0.0714	$0.0676^{+0.0057}_{-0.0053}$
β_5^1	0.07	$0.0^{+1.8}_{-1.7}$	c_{ACTe}^{148}	0.9885	$0.987^{+0.014}_{-0.014}$	$H(0.57)$	0.0003092	$0.000295^{+0.000021}_{-0.000020}$
β_1^2	-0.56	$-1.30^{+1.6}_{-1.7}$	c_{ACTe}^{217}	0.9611	$0.964^{+0.023}_{-0.020}$	$DA(0.57)$	1393	1485^{+140}_{-130}

Best-fit $\chi_{\text{eff}}^2 = 10529.15$; R-1 = 0.40810

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.80 lensing_likelihood.v3.ref.clik.lensing: 11.19 commander.v3.light.clik: -7.80 CAMspec.v6.2TN_2013_01_18.clik: 7819.05 actspt_2013_01.clik: 691.90

13.6 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02260^{+0.00099}_{-0.00060}$	β_2^2	-0.33	$-0.4^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9823	$0.979^{+0.056}_{-0.042}$
$\Omega_c h^2$	0.1190	$0.1187^{+0.0080}_{-0.0063}$	β_3^2	-0.11	$-0.1^{+1.4}_{-1.7}$	c_{SPT}^{150}	0.9829	$0.986^{+0.016}_{-0.014}$
θ	1.04149	$1.0417^{+0.0016}_{-0.0017}$	β_4^2	0.29	$0.4^{+2.0}_{-1.9}$	c_{SPT}^{220}	1.0116	$1.020^{+0.035}_{-0.035}$
τ	0.0977	$0.114^{+0.031}_{-0.027}$	β_5^2	-0.42	$-0.2^{+1.6}_{-1.7}$	Ω_Λ	0.7128	$0.719^{+0.033}_{-0.033}$
Ω_K	0.0062	$0.0068^{+0.0094}_{-0.0097}$	β_1^3	0.80	$0.4^{+1.5}_{-1.5}$	Ω_m	0.2810	$0.274^{+0.045}_{-0.034}$
n_s	0.9600	$0.959^{+0.016}_{-0.017}$	β_2^3	-0.38	$-0.4^{+1.7}_{-2.1}$	σ_8	0.8335	$0.840^{+0.037}_{-0.030}$
n_{run}	-0.0063	$-0.028^{+0.018}_{-0.017}$	β_3^3	0.12	$0.4^{+1.4}_{-2.8}$	z_{re}	11.76	$12.9^{+1.9}_{-2.2}$
$\log[10^{10} A_s]$	3.104	$3.140^{+0.054}_{-0.055}$	β_4^3	-0.61	$-0.4^{+1.1}_{-1.6}$	r_{10}	0.000	< 0.105
r_{pivot}	0.000	< 0.189	β_5^3	-0.29	$-0.2^{+1.1}_{-1.3}$	H_0	71.05	$72.1^{+4.2}_{-5.2}$
A_{100}^{PS}	180	194^{+100}_{-90}	β_1^4	-0.11	$-0.4^{+1.7}_{-3.0}$	r	0.000	< 0.206
A_{143}^{PS}	78.6	83^{+10}_{-20}	β_2^4	-0.26	$-0.4^{+1.3}_{-1.3}$	$10^9 A_s$	2.229	$2.31^{+0.13}_{-0.12}$
A_{217}^{PS}	67.3	70^{+10}_{-20}	β_3^4	-0.18	$-0.2^{+1.5}_{-1.2}$	$\Omega_m h^2$	0.1419	$0.1419^{+0.0074}_{-0.0060}$
A_{143}^{CIB}	2.83	—	β_4^4	0.22	$0.3^{+1.6}_{-1.4}$	$\Omega_m h^3$	0.1008	$0.1023^{+0.0076}_{-0.0080}$
A_{217}^{CIB}	45.9	44^{+10}_{-9}	β_5^4	0.37	$0.5^{+1.8}_{-2.1}$	Y_{He}	0.247763	$0.24794^{+0.00041}_{-0.00025}$
A_{143}^{tSZ}	4.23	—	$A_{\text{PS,ACT}}^{148}$	10.45	$10.7^{+1.2}_{-0.87}$	$10^9 A_s e^{-2\tau}$	1.8333	$1.841^{+0.041}_{-0.031}$
$r_{\text{PS}143/217}$	0.809	> 0.720	$A_{\text{PS,ACT}}^{218}$	81.2	$81.8^{+7.0}_{-6.6}$	Age/Gyr	13.478	$13.39^{+0.51}_{-0.34}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.36	$6.99^{+3.1}_{-1.6}$	z_*	1090.16	$1089.6^{+1.4}_{-1.6}$
n^{CIB}	0.499	$0.49^{+0.14}_{-0.16}$	$A_{\text{PS,SPT}}^{150}$	10.05	$10.15^{+0.95}_{-0.96}$	r_*	144.81	$144.6^{+1.4}_{-1.6}$
$c_{100/143}$	1.00063	$1.00068^{+0.00057}_{-0.00070}$	$A_{\text{PS,SPT}}^{220}$	76.8	78^{+10}_{-6}	θ_*	1.04164	$1.0418^{+0.0015}_{-0.0017}$
$c_{217/143}$	0.99938	$1.0000^{+0.0018}_{-0.0016}$	$r_{\text{PS}}^{95/150}$	0.770	> 0.595	z_{drag}	1059.51	$1060.4^{+1.9}_{-1.1}$
$\xi^{\text{tSZ-CIB}}$	0.015	—	$r_{\text{PS}}^{95/220}$	0.516	$0.60^{+0.26}_{-0.19}$	r_{drag}	147.54	$147.2^{+1.3}_{-1.5}$
$A^{k\text{SZ}}$	2.78	—	$r_{\text{PS}}^{150/220}$	0.9151	> 0.892	k_D	0.14015	$0.1408^{+0.0018}_{-0.0014}$
β_1^1	0.71	$0.8^{+1.9}_{-1.0}$	$A_{\text{dust,s}}$	0.437	< 0.718	θ_D	0.16124	$0.16073^{+0.00068}_{-0.00087}$
β_2^1	-0.38	$-0.3^{+1.7}_{-1.7}$	$A_{\text{dust,e}}$	0.858	$0.82^{+0.26}_{-0.28}$	z_{EQ}	3374	3376^{+180}_{-140}
β_3^1	0.18	$0.0^{+1.9}_{-1.8}$	c_{ACTs}^{148}	0.9908	$0.989^{+0.011}_{-0.013}$	θ_{EQ}	0.8183	$0.820^{+0.028}_{-0.032}$
β_4^1	-0.08	$0.2^{+1.8}_{-1.5}$	c_{ACTs}^{217}	1.0018	$1.006^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07430	$0.0749^{+0.0035}_{-0.0040}$
β_5^1	0.00	$-0.3^{+2.1}_{-1.4}$	c_{ACTe}^{148}	0.9873	$0.986^{+0.014}_{-0.017}$	$H(0.57)$	0.0003194	$0.000322^{+0.000011}_{-0.000014}$
β_1^2	-0.89	$-0.9^{+1.1}_{-2.3}$	c_{ACTe}^{217}	0.9604	$0.965^{+0.013}_{-0.025}$	$DA(0.57)$	1334	1320^{+78}_{-53}

Best-fit $\chi_{\text{eff}}^2 = 10521.18$; R-1 = 83.46338

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.28 commander.v3.light.clik: -8.09 CAMspec.v6.2TN_2013_01_18.clik: 7818.56 actspt_2013_01.clik: 694.96 Hubble - HST: 1.34

13.7 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02244^{+0.00065}_{-0.00065}$	β_2^1	0.19	$0.1^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.142
$\Omega_c h^2$	0.1184	$0.1182^{+0.0057}_{-0.0055}$	β_3^1	0.00	$0.0^{+1.9}_{-1.9}$	H_0	67.93	$68.0^{+2.1}_{-2.0}$
θ	1.04143	$1.0416^{+0.0012}_{-0.0012}$	β_4^1	-0.18	$-0.1^{+1.9}_{-2.0}$	r	0.000	< 0.273
τ	0.0963	$0.102^{+0.032}_{-0.027}$	β_5^1	0.32	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.215	$2.25^{+0.14}_{-0.12}$
Ω_K	-0.0001	$-0.0006^{+0.0070}_{-0.0068}$	β_1^2	-0.31	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1413	$0.1413^{+0.0053}_{-0.0051}$
n_s	0.9621	$0.962^{+0.017}_{-0.017}$	β_2^2	-0.56	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09598	$0.0961^{+0.0050}_{-0.0046}$
n_{run}	-0.0046	$-0.020^{+0.020}_{-0.024}$	β_3^2	0.07	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247774	$0.24787^{+0.00027}_{-0.00028}$
$\log[10^{10} A_s]$	3.098	$3.113^{+0.062}_{-0.054}$	β_4^2	0.32	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8273	$1.834^{+0.028}_{-0.027}$
r_{pivot}	0.000	< 0.238	β_5^2	0.48	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.794	$13.79^{+0.27}_{-0.27}$
A_{100}^{PS}	163	163^{+100}_{-100}	β_1^3	-0.09	$0.0^{+1.9}_{-1.9}$	z_*	1090.08	$1089.8^{+1.2}_{-1.1}$
A_{143}^{PS}	48	53^{+30}_{-30}	β_2^3	-0.39	$-0.1^{+2.0}_{-1.9}$	r_*	144.94	$144.8^{+1.3}_{-1.2}$
A_{217}^{PS}	106.9	116^{+30}_{-30}	β_3^3	0.08	$0.0^{+1.9}_{-1.9}$	θ_*	1.04157	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	15.6	—	β_4^3	-0.01	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.55	$1060.0^{+1.3}_{-1.3}$
A_{217}^{CIB}	30.2	24^{+10}_{-10}	β_5^3	0.31	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.67	$147.5^{+1.3}_{-1.2}$
A_{143}^{tSZ}	7.99	—	β_1^4	-0.16	$-0.1^{+1.9}_{-1.9}$	k_D	0.14004	$0.1404^{+0.0013}_{-0.0014}$
$r_{PS143/217}$	0.900	> 0.653	β_2^4	-0.61	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16121	$0.16095^{+0.00077}_{-0.00074}$
r_{CIB}	0.615	—	β_3^4	-0.27	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3361	3361^{+130}_{-120}
n^{CIB}	0.356	$0.24^{+0.26}_{-0.30}$	β_4^4	-0.44	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8207	$0.822^{+0.024}_{-0.024}$
$c_{100/143}$	1.00063	$1.00060^{+0.00078}_{-0.00077}$	β_5^4	0.56	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07191	$0.0719^{+0.0016}_{-0.0015}$
$c_{217/143}$	0.99610	$0.9966^{+0.0025}_{-0.0025}$	Ω_Λ	0.6938	$0.695^{+0.020}_{-0.021}$	$H(0.57)$	0.0003106	$0.0003107^{+0.0000068}_{-0.0000065}$
$\xi^{tSZ-CIB}$	0.55	—	Ω_m	0.3062	$0.306^{+0.021}_{-0.020}$	$DA(0.57)$	1383.5	1383^{+35}_{-34}
A^{kSZ}	0.4	—	σ_8	0.8265	$0.828^{+0.029}_{-0.028}$			
β_1^1	0.44	$0.5^{+1.7}_{-1.7}$	z_{re}	11.59	$11.9^{+2.4}_{-2.3}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.85$; R-1 = 0.04264

χ_{eff}^2 : BAO - DR7: 0.93 6DF: 0.02 DR9: 0.39 CMB - lowlike.v22.light.clik: 2014.54 commander.v3.light.clik: -8.84 CAMspec.v6.2TN_2013_01_18.clik: 7799.81

13.8 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02231	$0.02245^{+0.00065}_{-0.00065}$	β_2^1	0.03	$0.1^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.133
$\Omega_c h^2$	0.1184	$0.1181^{+0.0054}_{-0.0052}$	β_3^1	0.09	$0.0^{+1.9}_{-1.9}$	H_0	68.09	$67.9^{+2.1}_{-2.0}$
θ	1.04151	$1.0416^{+0.0012}_{-0.0012}$	β_4^1	-0.08	$-0.1^{+2.0}_{-2.0}$	r	0.000	< 0.257
τ	0.0967	$0.104^{+0.029}_{-0.026}$	β_5^1	0.12	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.26^{+0.12}_{-0.11}$
Ω_K	0.0000	$-0.0008^{+0.0070}_{-0.0069}$	β_1^2	-0.16	$-0.1^{+1.7}_{-1.8}$	$\Omega_m h^2$	0.14131	$0.1412^{+0.0050}_{-0.0049}$
n_s	0.9628	$0.963^{+0.016}_{-0.017}$	β_2^2	0.02	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09621	$0.0959^{+0.0049}_{-0.0046}$
n_{run}	-0.0069	$-0.019^{+0.020}_{-0.023}$	β_3^2	-0.14	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247815	$0.24787^{+0.00027}_{-0.00028}$
$\log[10^{10} A_s]$	3.100	$3.116^{+0.054}_{-0.049}$	β_4^2	0.27	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8302	$1.834^{+0.026}_{-0.025}$
r_{pivot}	0.000	< 0.226	β_5^2	0.00	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.779	$13.80^{+0.27}_{-0.27}$
A_{100}^{PS}	178	161^{+100}_{-100}	β_1^3	-0.06	$0.0^{+1.8}_{-1.8}$	z_*	1089.95	$1089.8^{+1.2}_{-1.1}$
A_{143}^{PS}	41	53^{+30}_{-30}	β_2^3	-0.13	$-0.1^{+2.0}_{-2.0}$	r_*	144.89	$144.8^{+1.1}_{-1.1}$
A_{217}^{PS}	115.3	116^{+30}_{-30}	β_3^3	-0.10	$0.0^{+2.0}_{-1.9}$	θ_*	1.04165	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	12.1	—	β_4^3	-0.04	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.78	$1060.1^{+1.3}_{-1.3}$
A_{217}^{CIB}	25.9	23^{+10}_{-10}	β_5^3	-0.05	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.58	$147.5^{+1.2}_{-1.1}$
A_{143}^{tSZ}	6.18	—	β_1^4	-0.12	$-0.1^{+1.9}_{-1.9}$	k_D	0.14020	$0.1404^{+0.0012}_{-0.0013}$
$r_{PS143/217}$	0.780	> 0.654	β_2^4	-0.17	$0.0^{+1.9}_{-1.9}$	θ_D	0.16109	$0.16092^{+0.00077}_{-0.00073}$
r_{CIB}	0.592	—	β_3^4	-0.04	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3361	3359^{+120}_{-120}
n^{CIB}	0.253	$0.24^{+0.25}_{-0.29}$	β_4^4	0.08	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8210	$0.822^{+0.023}_{-0.023}$
$c_{100/143}$	1.00059	$1.00060^{+0.00080}_{-0.00078}$	β_5^4	0.27	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07199	$0.0718^{+0.0015}_{-0.0015}$
$c_{217/143}$	0.99639	$0.9966^{+0.0025}_{-0.0025}$	Ω_Λ	0.6952	$0.695^{+0.019}_{-0.019}$	$H(0.57)$	0.0003110	$0.0003105^{+0.0000067}_{-0.0000067}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_m	0.3048	$0.306^{+0.020}_{-0.019}$	$DA(0.57)$	1381.0	1384^{+35}_{-34}
A^{kSZ}	0.3	—	σ_8	0.0689	$0.829^{+0.024}_{-0.023}$			
β_1^1	0.31	$0.5^{+1.7}_{-1.7}$	z_{re}	11.58	$12.1^{+2.2}_{-2.1}$			

Best-fit $\chi_{\text{eff}}^2 = 9814.72$; R-1 = 0.05375

χ_{eff}^2 : BAO - DR7: 0.79 6DF: 0.03 DR9: 0.47 CMB - lowlike_v22.light.clik: 2014.50 lensing_likelihood.v3_ref.clik.lensing: 11.32 commander.v3.light.clik: -9.48 CAMspec.v6.2TN_2013_01_18.clik: 7797.09

13.9 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_highL_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02249^{+0.00071}_{-0.00065}$	β_2^2	-0.17	$-0.4^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9911	$0.981^{+0.039}_{-0.036}$
$\Omega_c h^2$	0.1184	$0.1179^{+0.0058}_{-0.0061}$	β_3^2	-0.30	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9886	$0.985^{+0.020}_{-0.018}$
θ	1.04156	$1.0416^{+0.0013}_{-0.0013}$	β_4^2	-0.02	$0.2^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0163	$1.020^{+0.046}_{-0.042}$
τ	0.0991	$0.105^{+0.036}_{-0.029}$	β_5^2	-0.15	$-0.5^{+2.0}_{-2.0}$	Ω_Λ	0.6944	$0.696^{+0.022}_{-0.022}$
Ω_K	-0.0001	$-0.0010^{+0.0067}_{-0.0076}$	β_1^3	0.25	$0.8^{+1.9}_{-1.9}$	Ω_m	0.3056	$0.306^{+0.022}_{-0.021}$
n_s	0.9645	$0.961^{+0.017}_{-0.015}$	β_2^3	-0.21	$-0.5^{+2.0}_{-1.8}$	σ_8	0.8307	$0.828^{+0.029}_{-0.030}$
n_{run}	-0.0003	$-0.024^{+0.020}_{-0.020}$	β_3^3	0.47	$0.2^{+2.1}_{-2.0}$	z_{re}	11.82	$12.2^{+2.6}_{-2.3}$
$\log[10^{10} A_s]$	3.104	$3.120^{+0.069}_{-0.058}$	β_4^3	-0.32	$-0.5^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.165
r_{pivot}	0.001	< 0.265	β_5^3	-0.44	$-0.4^{+1.9}_{-1.9}$	H_0	67.97	$68.0^{+2.0}_{-2.3}$
A_{100}^{PS}	155	195^{+80}_{-80}	β_1^4	0.11	$-0.4^{+1.9}_{-2.0}$	r	0.001	< 0.317
A_{143}^{PS}	72.2	81^{+20}_{-20}	β_2^4	-0.33	$-0.2^{+1.9}_{-1.9}$	$10^9 A_s$	2.229	$2.27^{+0.16}_{-0.13}$
A_{217}^{PS}	58.7	68^{+20}_{-20}	β_3^4	-0.06	$-0.2^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1412	$0.1410^{+0.0054}_{-0.0057}$
A_{143}^{CIB}	3.45	—	β_4^4	0.26	$0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09599	$0.0958^{+0.0046}_{-0.0050}$
A_{217}^{CIB}	49.8	44^{+9}_{-8}	β_5^4	0.33	$0.3^{+2.0}_{-1.8}$	Y_{He}	0.247767	$0.24789^{+0.00030}_{-0.00028}$
A_{143}^{tSZ}	5.56	—	$A_{\text{PS,ACT}}^{148}$	10.41	$10.6^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8287	$1.835^{+0.026}_{-0.028}$
$r_{PS143/217}$	0.857	> 0.726	$A_{\text{PS,ACT}}^{218}$	79.9	$81.0^{+7.6}_{-7.9}$	Age/Gyr	13.792	$13.80^{+0.30}_{-0.26}$
r_{CIB}	0.969	—	$A_{\text{PS,SPT}}^{95}$	7.18	$7.44^{+3.1}_{-2.7}$	z_*	1090.09	$1089.7^{+1.2}_{-1.3}$
n^{CIB}	0.550	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	9.99	$10.2^{+1.0}_{-0.93}$	r_*	144.97	$144.9^{+1.3}_{-1.2}$
$c_{100/143}$	1.00067	$1.00064^{+0.00077}_{-0.00075}$	$A_{\text{PS,SPT}}^{220}$	75.5	$77.7^{+8.1}_{-7.8}$	θ_*	1.04171	$1.0418^{+0.0013}_{-0.0012}$
$c_{217/143}$	0.999999	$0.9993^{+0.0022}_{-0.0022}$	$r_{\text{PS}}^{95/150}$	0.806	> 0.670	z_{drag}	1059.51	$1060.1^{+1.4}_{-1.3}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/220}$	0.548	$0.57^{+0.24}_{-0.21}$	r_{drag}	147.71	$147.5^{+1.3}_{-1.2}$
A^{kSZ}	0.76	—	$r_{\text{PS}}^{150/220}$	0.9225	> 0.905	k_D	0.13999	$0.1404^{+0.0013}_{-0.0013}$
β_1^1	0.66	$0.7^{+1.6}_{-1.5}$	$A_{\text{dust,s}}$	0.380	< 0.754	θ_D	0.16126	$0.16090^{+0.00077}_{-0.00074}$
β_2^1	0.17	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.908	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3359	3354^{+130}_{-140}
β_3^1	-0.01	$0.1^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9952	$0.990^{+0.015}_{-0.014}$	θ_{EQ}	0.8211	$0.823^{+0.027}_{-0.025}$
β_4^1	0.43	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0060	$1.003^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07196	$0.0718^{+0.0014}_{-0.0017}$
β_5^1	0.03	$-0.1^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9895	$0.986^{+0.014}_{-0.014}$	$H(0.57)$	0.0003107	$0.0003104^{+0.000062}_{-0.000074}$
β_1^2	-0.20	$-1.21^{+1.8}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9621	$0.961^{+0.020}_{-0.020}$	$DA(0.57)$	1382.9	1384^{+39}_{-32}

Best-fit $\chi_{\text{eff}}^2 = 10525.10$; R-1 = 0.19007

χ_{eff}^2 : BAO - DR9: 0.43 DR7: 0.85 6DF: 0.02 CMB - lowlike.v22.light.clik: 2014.88 commander.v3.light.clik: -7.53 CAMspec.v6.2TN_2013.01_18.clik: 7821.36 actspt_2013.01.clik: 694.79

13.10 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02250^{+0.00070}_{-0.00064}$	β_2^2	-0.38	$-0.4^{+2.0}_{-1.9}$	c_{SPT}^{95}	0.9840	$0.982^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.1188	$0.1178^{+0.0054}_{-0.0059}$	β_3^2	0.19	$0.0^{+1.8}_{-1.8}$	c_{SPT}^{150}	0.9875	$0.986^{+0.019}_{-0.019}$
θ	1.04146	$1.0417^{+0.0013}_{-0.0012}$	β_4^2	0.23	$0.2^{+1.9}_{-2.0}$	c_{SPT}^{220}	1.0190	$1.020^{+0.046}_{-0.043}$
τ	0.0986	$0.107^{+0.034}_{-0.027}$	β_5^2	-0.50	$-0.5^{+1.9}_{-1.9}$	Ω_Λ	0.6921	$0.695^{+0.020}_{-0.020}$
Ω_K	0.0000	$-0.0012^{+0.0065}_{-0.0083}$	β_1^3	0.74	$0.7^{+1.9}_{-1.8}$	Ω_m	0.3079	$0.306^{+0.021}_{-0.019}$
n_s	0.9621	$0.961^{+0.016}_{-0.015}$	β_2^3	-0.38	$-0.5^{+2.0}_{-1.8}$	σ_8	0.0691	$0.829^{+0.023}_{-0.024}$
n_{run}	-0.0020	$-0.023^{+0.019}_{-0.020}$	β_3^3	0.13	$0.2^{+2.1}_{-1.9}$	z_{re}	11.80	$12.3^{+2.4}_{-2.1}$
$\log[10^{10} A_s]$	3.105	$3.123^{+0.063}_{-0.052}$	β_4^3	-0.13	$-0.5^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.158
r_{pivot}	0.000	< 0.250	β_5^3	-0.29	$-0.4^{+1.9}_{-1.9}$	H_0	67.82	$67.9^{+1.9}_{-2.2}$
A_{100}^{PS}	170	195^{+80}_{-80}	β_1^4	0.05	$-0.4^{+1.9}_{-2.0}$	r	0.000	< 0.301
A_{143}^{PS}	76.0	81^{+20}_{-20}	β_2^4	0.08	$-0.3^{+1.8}_{-1.9}$	$10^9 A_s$	2.230	$2.27^{+0.15}_{-0.12}$
A_{217}^{PS}	64.4	68^{+20}_{-20}	β_3^4	-0.26	$-0.2^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1416	$0.1409^{+0.0050}_{-0.0056}$
A_{143}^{CIB}	3.11	—	β_4^4	-0.095	$0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0960	$0.0957^{+0.0046}_{-0.0053}$
A_{217}^{CIB}	47.8	44^{+9}_{-8}	β_5^4	0.33	$0.3^{+2.0}_{-1.8}$	Y_{He}	0.247761	$0.24789^{+0.00029}_{-0.00028}$
A_{143}^{tSZ}	5.11	—	$A_{\text{PS,ACT}}^{148}$	10.68	$10.6^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8310	$1.835^{+0.025}_{-0.025}$
$r_{\text{PS}143/217}$	0.833	> 0.725	$A_{\text{PS,ACT}}^{218}$	80.6	$81.2^{+7.7}_{-7.5}$	Age/Gyr	13.794	$13.81^{+0.32}_{-0.26}$
r_{CIB}	0.9998	—	$A_{\text{PS,SPT}}^{95}$	6.98	$7.42^{+3.2}_{-2.7}$	z_*	1090.15	$1089.7^{+1.2}_{-1.3}$
n^{CIB}	0.517	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.26	$10.2^{+1.0}_{-0.92}$	r_*	144.88	$144.9^{+1.3}_{-1.1}$
$c_{100/143}$	1.00060	$1.00064^{+0.00080}_{-0.00074}$	$A_{\text{PS,SPT}}^{220}$	77.6	$77.7^{+8.0}_{-8.0}$	θ_*	1.04161	$1.0418^{+0.0013}_{-0.0012}$
$c_{217/143}$	0.99957	$0.9993^{+0.0021}_{-0.0022}$	$r_{\text{PS}}^{95/150}$	0.809	> 0.666	z_{drag}	1059.51	$1060.1^{+1.3}_{-1.3}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/220}$	0.552	$0.56^{+0.24}_{-0.21}$	r_{drag}	147.61	$147.5^{+1.2}_{-1.1}$
A^{kSZ}	0.84	—	$r_{\text{PS}}^{150/220}$	0.9112	> 0.906	k_D	0.14008	$0.1404^{+0.0012}_{-0.0012}$
β_1^1	0.64	$0.7^{+1.7}_{-1.5}$	$A_{\text{dust,s}}$	0.400	< 0.751	θ_D	0.16125	$0.16089^{+0.00075}_{-0.00071}$
β_2^1	0.09	$0.0^{+1.9}_{-1.8}$	$A_{\text{dust,e}}$	0.856	$0.84^{+0.39}_{-0.39}$	z_{EQ}	3369	3352^{+120}_{-130}
β_3^1	0.14	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{148}	0.9924	$0.991^{+0.014}_{-0.014}$	θ_{EQ}	0.8193	$0.824^{+0.026}_{-0.023}$
β_4^1	0.07	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{217}	1.0011	$1.003^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07183	$0.0718^{+0.0014}_{-0.0017}$
β_5^1	-0.16	$-0.1^{+1.9}_{-2.0}$	c_{ACTe}^{148}	0.9881	$0.987^{+0.014}_{-0.014}$	$H(0.57)$	0.0003105	$0.0003103^{+0.000062}_{-0.000077}$
β_1^2	-0.51	$-1.19^{+1.8}_{-1.8}$	c_{ACTe}^{217}	0.9610	$0.961^{+0.019}_{-0.020}$	$DA(0.57)$	1384.9	1385^{+40}_{-32}

Best-fit $\chi_{\text{eff}}^2 = 10531.15$; R-1 = 0.19925

χ_{eff}^2 : BAO - DR9: 0.30 6DF: 0.01 DR7: 1.09 CMB - lowlike_v22.light.clik: 2014.84 lensing_likelihood.v3_ref.clik.lensing: 11.12 commander.v3.light.clik: -7.62 CAMspec_v6.2TN_2013_01_18.clik: 7818.40 actspt_2013_01.clik: 692.93

13.11 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02231	$0.02246^{+0.00070}_{-0.00065}$	A^{kSZ}	0.0	—	σ_8	0.8242	$0.827^{+0.033}_{-0.031}$
$\Omega_c h^2$	0.1168	$0.1177^{+0.0060}_{-0.0054}$	β_1^1	0.10	$0.6^{+1.7}_{-1.7}$	z_{re}	11.86	$12.1^{+2.5}_{-2.4}$
θ	1.04185	$1.0417^{+0.0013}_{-0.0013}$	β_2^1	-0.55	$0.1^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.156
τ	0.1003	$0.104^{+0.034}_{-0.029}$	β_3^1	-0.34	$0.0^{+2.0}_{-1.9}$	H_0	69.4	69^{+9}_{-8}
Ω_K	0.0012	$0.000^{+0.017}_{-0.019}$	β_4^1	0.03	$0.0^{+2.0}_{-1.9}$	r	0.001	< 0.298
n_s	0.9665	$0.963^{+0.017}_{-0.018}$	β_5^1	-0.26	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.224	$2.26^{+0.15}_{-0.13}$
n_{run}	-0.0042	$-0.021^{+0.021}_{-0.023}$	β_1^2	-0.39	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1397	$0.1408^{+0.0056}_{-0.0051}$
$\log[10^{10} A_s]$	3.102	$3.115^{+0.067}_{-0.058}$	β_2^2	-0.32	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0969	$0.097^{+0.014}_{-0.012}$
r_{pivot}	0.001	< 0.254	β_3^2	-0.34	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247813	$0.24788^{+0.00029}_{-0.00028}$
α_{SNLS}	1.422	$1.43^{+0.22}_{-0.20}$	β_4^2	0.29	$0.0^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8196	$1.832^{+0.028}_{-0.027}$
β_{SNLS}	3.251	$3.25^{+0.22}_{-0.21}$	β_5^2	0.12	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.70	$13.71^{+0.81}_{-0.86}$
A_{100}^{PS}	207	164^{+100}_{-100}	β_1^3	0.15	$0.0^{+1.9}_{-1.9}$	z_*	1089.82	$1089.7^{+1.2}_{-1.2}$
A_{143}^{PS}	53.2	53^{+30}_{-30}	β_2^3	0.48	$-0.1^{+2.0}_{-1.9}$	r_*	145.31	$144.9^{+1.2}_{-1.3}$
A_{217}^{PS}	106.6	115^{+30}_{-30}	β_3^3	0.14	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04200	$1.0418^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	15.9	—	β_4^3	-0.09	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.63	$1060.1^{+1.4}_{-1.3}$
A_{217}^{CIB}	29.8	24^{+10}_{-10}	β_5^3	-0.10	$-0.1^{+2.0}_{-2.0}$	r_{drag}	148.01	$147.6^{+1.2}_{-1.3}$
A_{143}^{tSZ}	4.49	—	β_1^4	-0.07	$0.0^{+2.0}_{-1.9}$	k_D	0.13975	$0.1403^{+0.0014}_{-0.0014}$
$r_{PS143/217}$	0.776	> 0.654	β_2^4	-0.38	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16120	$0.16094^{+0.00078}_{-0.00075}$
r_{CIB}	0.630	—	β_3^4	-0.19	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3323	3350^{+130}_{-120}
n^{CIB}	0.281	$0.25^{+0.26}_{-0.29}$	β_4^4	0.23	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8282	$0.824^{+0.024}_{-0.026}$
$c_{100/143}$	1.00046	$1.00061^{+0.00078}_{-0.00079}$	β_5^4	0.48	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.0730	$0.0728^{+0.0068}_{-0.0058}$
$c_{217/143}$	0.99648	$0.9967^{+0.0026}_{-0.0026}$	Ω_Λ	0.709	$0.702^{+0.050}_{-0.054}$	$H(0.57)$	0.0003135	$0.000314^{+0.000025}_{-0.000021}$
$\xi^{tSZ-CIB}$	0.52	—	Ω_m	0.290	$0.297^{+0.072}_{-0.065}$	$DA(0.57)$	1363	1368^{+130}_{-130}

Best-fit $\chi_{\text{eff}}^2 = 10229.29$; R-1 = 0.11698

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.65 commander_v3.light.clik: -9.20 CAMspec_v6.2TN_2013_01_18.clik: 7801.28 SN - SNLS
 April_2012: 422.55

13.12 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02205	$0.02251^{+0.00071}_{-0.00066}$	A^{kSZ}	1.72	—	σ_8	0.0688	$0.827^{+0.033}_{-0.032}$
$\Omega_c h^2$	0.1181	$0.1175^{+0.0059}_{-0.0054}$	β_1^1	0.33	$0.6^{+1.7}_{-1.6}$	z_{re}	11.72	$12.2^{+2.5}_{-2.3}$
θ	1.04140	$1.0417^{+0.0013}_{-0.0013}$	β_2^1	-0.14	$0.1^{+1.9}_{-1.9}$	r_{10}	0.001	< 0.152
τ	0.0974	$0.106^{+0.033}_{-0.028}$	β_3^1	0.11	$0.0^{+2.0}_{-2.0}$	H_0	67.7	$67.9^{+6.3}_{-5.6}$
Ω_K	-0.0005	$-0.002^{+0.014}_{-0.017}$	β_4^1	0.31	$-0.1^{+2.0}_{-2.0}$	r	0.002	< 0.288
n_s	0.9640	$0.965^{+0.017}_{-0.018}$	β_5^1	0.14	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.218	$2.26^{+0.15}_{-0.12}$
n_{run}	-0.0006	$-0.020^{+0.021}_{-0.023}$	β_1^2	-0.38	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1408	$0.1406^{+0.0055}_{-0.0050}$
$\log[10^{10} A_s]$	3.099	$3.119^{+0.064}_{-0.056}$	β_2^2	-0.30	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0953	$0.095^{+0.011}_{-0.010}$
r_{pivot}	0.002	< 0.250	β_3^2	-0.25	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247705	$0.24790^{+0.00030}_{-0.00028}$
α_{SNLS}	1.444	$1.43^{+0.22}_{-0.20}$	β_4^2	-0.33	$0.0^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8256	$1.831^{+0.027}_{-0.026}$
β_{SNLS}	3.270	$3.25^{+0.22}_{-0.21}$	β_5^2	-0.15	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.83	$13.83^{+0.68}_{-0.68}$
A_{100}^{PS}	163	162^{+100}_{-100}	β_1^3	0.23	$0.0^{+1.9}_{-1.9}$	z_*	1090.25	$1089.6^{+1.2}_{-1.2}$
A_{143}^{PS}	59.3	53^{+30}_{-30}	β_2^3	-0.44	$-0.2^{+2.0}_{-1.9}$	r_*	145.16	$145.0^{+1.2}_{-1.3}$
A_{217}^{PS}	74.9	115^{+30}_{-30}	β_3^3	-0.29	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04156	$1.0418^{+0.0013}_{-0.0012}$
A_{143}^{CIB}	10.3	—	β_4^3	-0.08	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.13	$1060.2^{+1.4}_{-1.3}$
A_{217}^{CIB}	44.0	23^{+10}_{-10}	β_5^3	-0.34	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.94	$147.6^{+1.2}_{-1.3}$
A_{143}^{tSZ}	4.95	—	β_1^4	-0.01	$-0.1^{+2.0}_{-1.9}$	k_D	0.13963	$0.1403^{+0.0014}_{-0.0013}$
$r_{PS143/217}$	0.936	> 0.659	β_2^4	-0.42	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16145	$0.16088^{+0.00077}_{-0.00074}$
r_{CIB}	0.561	—	β_3^4	-0.30	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3349	3345^{+130}_{-120}
n^{CIB}	0.576	$0.25^{+0.26}_{-0.29}$	β_4^4	-0.17	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8225	$0.825^{+0.025}_{-0.025}$
$c_{100/143}$	1.00072	$1.00063^{+0.00076}_{-0.00080}$	β_5^4	0.02	$0.0^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07181	$0.0718^{+0.0048}_{-0.0044}$
$c_{217/143}$	0.99766	$0.9967^{+0.0025}_{-0.0025}$	Ω_Λ	0.6931	$0.695^{+0.038}_{-0.040}$	$H(0.57)$	0.0003097	$0.000310^{+0.000019}_{-0.000017}$
$\xi^{tSZ-CIB}$	0.22	—	Ω_m	0.307	$0.307^{+0.052}_{-0.049}$	$DA(0.57)$	1388	1387^{+100}_{-100}

Best-fit $\chi_{\text{eff}}^2 = 10251.93$; R-1 = 0.11444

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.71 lensing_likelihood.v3.ref.clik.lensing: 11.19 commander.v3.light.clik: -7.80 CAMspec.v6.2TN_2013_01_18.clik
7809.83 SN - SNLS April.2012: 424.00

13.13 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02221	$0.02248^{+0.00068}_{-0.00065}$	A^{kSZ}	2.87	—	σ_8	0.8277	$0.826^{+0.031}_{-0.030}$
$\Omega_c h^2$	0.1182	$0.1176^{+0.0059}_{-0.0059}$	β_1^1	0.30	$0.5^{+1.7}_{-1.6}$	z_{re}	11.70	$12.0^{+2.4}_{-2.3}$
θ	1.04167	$1.0417^{+0.0013}_{-0.0013}$	β_2^1	-0.12	$0.1^{+1.9}_{-1.9}$	r_{10}	0.001	< 0.161
τ	0.0977	$0.103^{+0.034}_{-0.028}$	β_3^1	0.30	$0.0^{+2.0}_{-1.9}$	H_0	68.09	$68.3^{+2.0}_{-1.9}$
Ω_K	-0.0001	$-0.0005^{+0.0069}_{-0.0073}$	β_4^1	0.26	$0.0^{+2.0}_{-2.0}$	r	0.001	< 0.307
n_s	0.9619	$0.964^{+0.017}_{-0.017}$	β_5^1	-0.18	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s$	2.222	$2.25^{+0.15}_{-0.13}$
n_{run}	-0.0011	$-0.021^{+0.022}_{-0.023}$	β_1^2	-0.20	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1410	$0.1407^{+0.0056}_{-0.0055}$
$\log[10^{10} A_s]$	3.101	$3.115^{+0.064}_{-0.057}$	β_2^2	-0.27	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0960	$0.0961^{+0.0051}_{-0.0050}$
r_{pivot}	0.001	< 0.258	β_3^2	0.34	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247771	$0.24789^{+0.00029}_{-0.00028}$
α_{SNLS}	1.422	$1.43^{+0.23}_{-0.20}$	β_4^2	-0.55	$0.0^{+2.1}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8275	$1.832^{+0.027}_{-0.028}$
β_{SNLS}	3.285	$3.25^{+0.22}_{-0.19}$	β_5^2	0.15	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.786	$13.78^{+0.28}_{-0.27}$
A_{100}^{PS}	163	163^{+100}_{-100}	β_1^3	-0.16	$0.0^{+2.0}_{-1.9}$	z_*	1090.06	$1089.7^{+1.1}_{-1.2}$
A_{143}^{PS}	57.0	54^{+30}_{-30}	β_2^3	0.37	$-0.2^{+1.9}_{-1.9}$	r_*	145.02	$145.0^{+1.3}_{-1.3}$
A_{217}^{PS}	88.3	115^{+30}_{-30}	β_3^3	0.58	$0.0^{+1.9}_{-1.9}$	θ_*	1.04181	$1.0418^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	12.2	—	β_4^3	-0.18	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.51	$1060.1^{+1.4}_{-1.3}$
A_{217}^{CIB}	37.0	24^{+10}_{-10}	β_5^3	-0.04	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.75	$147.6^{+1.2}_{-1.3}$
A_{143}^{tSZ}	5.50	—	β_1^4	-0.26	$0.0^{+2.0}_{-2.0}$	k_D	0.13995	$0.1403^{+0.0014}_{-0.0014}$
$r_{PS143/217}$	0.961	> 0.655	β_2^4	-0.05	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16127	$0.16092^{+0.00078}_{-0.00074}$
r_{CIB}	0.516	—	β_3^4	0.01	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3354	3347^{+130}_{-130}
n^{CIB}	0.517	$0.25^{+0.25}_{-0.28}$	β_4^4	-0.39	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8221	$0.825^{+0.026}_{-0.025}$
$c_{100/143}$	1.00075	$1.00062^{+0.00073}_{-0.00080}$	β_5^4	0.20	$0.0^{+2.0}_{-2.1}$	$r_s/D_v(0.57)$	0.07205	$0.0721^{+0.0015}_{-0.0015}$
$c_{217/143}$	0.99707	$0.9967^{+0.0026}_{-0.0025}$	Ω_Λ	0.6959	$0.699^{+0.020}_{-0.020}$	$H(0.57)$	0.0003109	$0.0003112^{+0.000067}_{-0.000067}$
$\xi^{tSZ-CIB}$	0.51	—	Ω_m	0.3041	$0.302^{+0.020}_{-0.019}$	$DA(0.57)$	1381.3	1378^{+34}_{-33}

Best-fit $\chi_{\text{eff}}^2 = 10237.72$; R-1 = 0.13112

χ_{eff}^2 : BAO - DR7: 0.69 6DF: 0.03 DR9: 0.55 CMB - lowlike.v22.light.clik: 2014.70 commander.v3.light.clik: -7.29 CAMspec.v6.2TN_2013_01_18.clik: 7805.30 SN - SNLS April.2012: 423.74

13.14 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02201	$0.02253^{+0.00071}_{-0.00066}$	β_2^1	0.26	$0.1^{+1.9}_{-1.9}$	r_{10}	0.000	< 0.181
$\Omega_c h^2$	0.1204	$0.1173^{+0.0058}_{-0.0058}$	β_3^1	-0.45	$0.0^{+1.9}_{-1.9}$	H_0	67.0	64^{+9}_{-8}
θ	1.04130	$1.0417^{+0.0013}_{-0.0013}$	β_4^1	-0.099	$0.0^{+1.9}_{-2.0}$	r	0.001	< 0.334
τ	0.0932	$0.102^{+0.033}_{-0.029}$	β_5^1	0.13	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.216	$2.24^{+0.15}_{-0.13}$
Ω_K	-0.0001	$-0.011^{+0.021}_{-0.025}$	β_1^2	-0.14	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1431	$0.1405^{+0.0055}_{-0.0054}$
n_s	0.9584	$0.965^{+0.018}_{-0.018}$	β_2^2	-0.17	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0959	$0.090^{+0.014}_{-0.012}$
n_{run}	-0.0018	$-0.020^{+0.022}_{-0.024}$	β_3^2	-0.01	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247686	$0.24791^{+0.00030}_{-0.00028}$
$\log[10^{10} A_s]$	3.098	$3.111^{+0.065}_{-0.057}$	β_4^2	0.30	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8389	$1.831^{+0.029}_{-0.028}$
r_{pivot}	0.001	< 0.279	β_5^2	-0.17	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.83	$14.21^{+0.92}_{-0.93}$
A_{100}^{PS}	137	156^{+100}_{-100}	β_1^3	0.16	$0.0^{+1.9}_{-1.9}$	z_*	1090.51	$1089.6^{+1.2}_{-1.2}$
A_{143}^{PS}	58.5	53^{+30}_{-30}	β_2^3	-0.14	$-0.1^{+2.0}_{-2.0}$	r_*	144.59	$145.0^{+1.3}_{-1.3}$
A_{217}^{PS}	76.6	116^{+30}_{-30}	β_3^3	-0.18	$0.0^{+2.0}_{-2.0}$	θ_*	1.04146	$1.0418^{+0.0012}_{-0.0013}$
A_{143}^{CIB}	7.18	—	β_4^3	-0.17	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.21	$1060.2^{+1.4}_{-1.3}$
A_{217}^{CIB}	43.3	23^{+10}_{-10}	β_5^3	0.36	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.37	$147.6^{+1.3}_{-1.2}$
A_{143}^{tSZ}	5.69	—	β_1^4	-0.01	$-0.1^{+1.9}_{-1.9}$	k_D	0.14019	$0.1403^{+0.0013}_{-0.0014}$
$r_{PS143/217}$	0.934	> 0.661	β_2^4	-0.04	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16142	$0.16087^{+0.00076}_{-0.00076}$
r_{CIB}	0.576	—	β_3^4	-0.15	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3403	3342^{+130}_{-130}
n^{CIB}	0.577	$0.24^{+0.27}_{-0.31}$	β_4^4	0.06	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8124	$0.826^{+0.026}_{-0.025}$
$c_{100/143}$	1.00082	$1.00061^{+0.00078}_{-0.00078}$	β_5^4	0.49	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.0712	$0.0691^{+0.0068}_{-0.0058}$
$c_{217/143}$	0.99829	$0.9966^{+0.0026}_{-0.0025}$	Ω_Λ	0.682	$0.667^{+0.061}_{-0.069}$	$H(0.57)$	0.0003093	$0.000301^{+0.000025}_{-0.000021}$
$\xi^{tSZ-CIB}$	0.11	—	Ω_m	0.319	$0.344^{+0.092}_{-0.080}$	$DA(0.57)$	1396	1449^{+150}_{-150}
A^{kSZ}	2.14	—	σ_8	0.8336	$0.819^{+0.034}_{-0.034}$			
β_1^1	0.45	$0.5^{+1.6}_{-1.7}$	z_{re}	11.44	$11.8^{+2.5}_{-2.4}$			

Best-fit $\chi_{\text{eff}}^2 = 9947.77$; R-1 = 0.03346

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.52 commander.v3.light.clik: -6.97 CAMspec.v6.2TN_2013_01_18.clik: 7809.55 SN - Union2.1: 130.68

13.15 base_nrun_r_omegak_planck_CAMspec_lowl_lowLike_Union2_post_BAO

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02245^{+0.00064}_{-0.00062}$	β_2^1	$0.1^{+2.0}_{-1.9}$	r_{10}	< 0.145
$\Omega_c h^2$	$0.1179^{+0.0058}_{-0.0053}$	β_3^1	$0.0^{+1.9}_{-1.8}$	H_0	$68.0^{+2.0}_{-2.0}$
θ	$1.0416^{+0.0013}_{-0.0013}$	β_4^1	$-0.1^{+1.9}_{-2.0}$	r	< 0.279
τ	$0.102^{+0.034}_{-0.028}$	β_5^1	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	$2.25^{+0.16}_{-0.13}$
Ω_K	$-0.0008^{+0.0068}_{-0.0068}$	β_1^2	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^2$	$0.1410^{+0.0054}_{-0.0049}$
n_s	$0.963^{+0.017}_{-0.018}$	β_2^2	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	$0.0959^{+0.0050}_{-0.0046}$
n_{run}	$-0.021^{+0.021}_{-0.023}$	β_3^2	$-0.1^{+2.0}_{-2.1}$	Y_{He}	$0.24787^{+0.00027}_{-0.00026}$
$\log[10^{10} A_s]$	$3.113^{+0.068}_{-0.060}$	β_4^2	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	$1.833^{+0.030}_{-0.028}$
r_{pivot}	< 0.238	β_5^2	$-0.2^{+1.9}_{-2.0}$	Age/Gyr	$13.80^{+0.28}_{-0.27}$
A_{100}^{PS}	163^{+100}_{-100}	β_1^3	$0.0^{+1.9}_{-1.8}$	z_*	$1089.7^{+1.1}_{-1.1}$
A_{143}^{PS}	53^{+30}_{-30}	β_2^3	$-0.1^{+2.0}_{-2.0}$	r_*	$144.9^{+1.2}_{-1.3}$
A_{217}^{PS}	116^{+30}_{-30}	β_3^3	$0.0^{+1.9}_{-2.0}$	θ_*	$1.0417^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	—	β_4^3	$-0.2^{+1.8}_{-1.9}$	z_{drag}	$1060.0^{+1.3}_{-1.3}$
A_{217}^{CIB}	24^{+10}_{-10}	β_5^3	$-0.1^{+2.0}_{-2.0}$	r_{drag}	$147.6^{+1.2}_{-1.3}$
A_{143}^{tSZ}	—	β_1^4	$-0.1^{+1.9}_{-2.0}$	k_D	$0.1403^{+0.0014}_{-0.0014}$
$r_{PS143/217}$	> 0.656	β_2^4	$0.0^{+1.9}_{-1.9}$	θ_D	$0.16095^{+0.00074}_{-0.00072}$
r_{CIB}	—	β_3^4	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3354^{+130}_{-120}
n^{CIB}	$0.24^{+0.27}_{-0.28}$	β_4^4	$0.1^{+1.9}_{-2.0}$	θ_{EQ}	$0.823^{+0.023}_{-0.025}$
$c_{100/143}$	$1.00062^{+0.00081}_{-0.00078}$	β_5^4	$0.0^{+2.0}_{-2.1}$	$r_s/D_v(0.57)$	$0.0719^{+0.0016}_{-0.0015}$
$c_{217/143}$	$0.9967^{+0.0027}_{-0.0026}$	Ω_Λ	$0.696^{+0.020}_{-0.021}$	$H(0.57)$	$0.0003106^{+0.0000067}_{-0.0000067}$
$\xi^{tSZ-CIB}$	—	Ω_m	$0.305^{+0.021}_{-0.020}$	$DA(0.57)$	1383^{+34}_{-34}
A^{kSZ}	—	σ_8	$0.827^{+0.033}_{-0.031}$		
β_1^1	$0.5^{+1.6}_{-1.7}$	z_{re}	$12.0^{+2.6}_{-2.4}$		

; R-1 = 0.06285

14 omegak

14.1 base_omegak_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02239^{+0.00064}_{-0.00061}$	β_2^1	0.30	$0.1^{+1.9}_{-1.9}$	σ_8	0.8304	$0.794^{+0.040}_{-0.047}$
$\Omega_c h^2$	0.1191	$0.1175^{+0.0054}_{-0.0053}$	β_3^1	0.34	$0.0^{+1.9}_{-2.0}$	z_{re}	11.61	$10.6^{+2.2}_{-2.2}$
θ	1.04150	$1.0417^{+0.0013}_{-0.0013}$	β_4^1	-0.13	$0.0^{+2.0}_{-2.0}$	H_0	66.8	55^{+10}_{-10}
τ	0.0961	$0.087^{+0.027}_{-0.024}$	β_5^1	-0.07	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.220	$2.17^{+0.11}_{-0.10}$
Ω_K	-0.002	$-0.042^{+0.040}_{-0.060}$	β_1^2	-0.31	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14192	$0.1405^{+0.0051}_{-0.0049}$
n_s	0.9623	$0.967^{+0.015}_{-0.015}$	β_2^2	-0.36	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0948	$0.078^{+0.017}_{-0.015}$
$\log[10^{10} A_s]$	3.1003	$3.079^{+0.051}_{-0.047}$	β_3^2	0.35	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247739	$0.24785^{+0.00027}_{-0.00026}$
A_{100}^{PS}	138	138^{+100}_{-100}	β_4^2	-0.24	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8323	$1.826^{+0.025}_{-0.024}$
A_{143}^{PS}	47.0	50^{+30}_{-30}	β_5^2	0.098	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.88	$15.2^{+1.4}_{-1.3}$
A_{217}^{PS}	108.5	119^{+20}_{-30}	β_1^3	0.13	$-0.1^{+1.9}_{-1.9}$	z_*	1090.25	$1089.8^{+1.1}_{-1.1}$
A_{143}^{CIB}	7.73	—	β_2^3	0.15	$-0.1^{+2.0}_{-1.9}$	r_*	144.82	$145.1^{+1.2}_{-1.2}$
A_{217}^{CIB}	28.3	$19.7^{+12}_{-8.9}$	β_3^3	-0.01	$0.0^{+1.9}_{-2.0}$	θ_*	1.04165	$1.0418^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.66	—	β_4^3	-0.69	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.40	$1059.9^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.881	> 0.670	β_5^3	-0.04	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.58	$147.7^{+1.1}_{-1.1}$
r_{CIB}	0.455	—	β_1^4	-0.15	$-0.1^{+1.9}_{-1.9}$	k_D	0.14007	$0.1401^{+0.0012}_{-0.0012}$
n^{CIB}	0.408	$0.24^{+0.26}_{-0.32}$	β_2^4	-0.03	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16131	$0.16105^{+0.00069}_{-0.00069}$
$c_{100/143}$	1.00064	$1.00062^{+0.00077}_{-0.00077}$	β_3^4	-0.27	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3376	3342^{+120}_{-120}
$c_{217/143}$	0.99648	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	-0.38	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8178	$0.825^{+0.024}_{-0.023}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.07	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.0711	$0.0626^{+0.0085}_{-0.0076}$
A^{kSZ}	1.62	—	Ω_Λ	0.684	$0.57^{+0.12}_{-0.16}$	$H(0.57)$	0.0003080	$0.000278^{+0.000030}_{-0.000026}$
β_1^1	0.57	$0.5^{+1.6}_{-1.6}$	Ω_m	0.318	$0.47^{+0.22}_{-0.16}$	$DA(0.57)$	1401	1623^{+200}_{-200}

Best-fit $\chi_{\text{eff}}^2 = 9806.69$; R-1 = 0.01954

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.76 commander_v3.light.clik: -7.29 CAMspec_v6.2TN_2013_01_18.clik: 7799.21

14.2 base_omegak_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02232^{+0.00060}_{-0.00057}$	β_2^1	0.51	$0.1^{+1.9}_{-1.9}$	σ_8	0.0690	$0.807^{+0.031}_{-0.033}$
$\Omega_c h^2$	0.1182	$0.1171^{+0.0052}_{-0.0052}$	β_3^1	0.38	$0.0^{+1.9}_{-2.0}$	z_{re}	11.61	$10.6^{+2.1}_{-2.1}$
θ	1.04159	$1.0416^{+0.0012}_{-0.0013}$	β_4^1	0.10	$0.0^{+2.1}_{-2.0}$	H_0	68.0	$62.4^{+6.2}_{-6.2}$
τ	0.0965	$0.087^{+0.025}_{-0.024}$	β_5^1	0.27	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s$	2.218	$2.17^{+0.11}_{-0.098}$
Ω_K	-0.0001	$-0.015^{+0.018}_{-0.023}$	β_1^2	-0.39	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14108	$0.1401^{+0.0048}_{-0.0048}$
n_s	0.9637	$0.967^{+0.015}_{-0.015}$	β_2^2	0.00	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0960	$0.087^{+0.011}_{-0.010}$
$\log[10^{10} A_s]$	3.0994	$3.076^{+0.048}_{-0.046}$	β_3^2	-0.19	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247762	$0.24782^{+0.00025}_{-0.00025}$
A_{100}^{PS}	163	148^{+100}_{-100}	β_4^2	-0.01	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8290	$1.823^{+0.025}_{-0.024}$
A_{143}^{PS}	55.3	50^{+30}_{-30}	β_5^2	-0.12	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.79	$14.41^{+0.80}_{-0.72}$
A_{217}^{PS}	79.7	117^{+30}_{-30}	β_1^3	0.43	$0.0^{+1.8}_{-1.9}$	z_*	1090.10	$1089.8^{+1.1}_{-1.1}$
A_{143}^{CIB}	8.90	—	β_2^3	-0.27	$-0.1^{+2.0}_{-2.0}$	r_*	145.01	$145.2^{+1.1}_{-1.1}$
A_{217}^{CIB}	40.5	21^{+10}_{-10}	β_3^3	-0.02	$0.0^{+2.0}_{-2.0}$	θ_*	1.04174	$1.0418^{+0.0012}_{-0.0013}$
A_{143}^{tSZ}	5.52	—	β_4^3	-0.73	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.47	$1059.7^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.894	> 0.663	β_5^3	0.57	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.75	$147.9^{+1.1}_{-1.1}$
r_{CIB}	0.575	—	β_1^4	0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.13993	$0.1399^{+0.0011}_{-0.0012}$
n^{CIB}	0.521	$0.24^{+0.26}_{-0.32}$	β_2^4	-0.26	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16128	$0.16115^{+0.00066}_{-0.00062}$
$c_{100/143}$	1.00072	$1.00059^{+0.00075}_{-0.00079}$	β_3^4	-0.10	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3356	3331^{+120}_{-120}
$c_{217/143}$	0.99758	$0.9964^{+0.0025}_{-0.0024}$	β_4^4	0.099	$0.0^{+2.0}_{-1.9}$	θ_{EQ}	0.8217	$0.827^{+0.024}_{-0.022}$
$\xi^{tSZ-CIB}$	0.13	—	β_5^4	-0.16	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07200	$0.0678^{+0.0047}_{-0.0047}$
A^{kSZ}	1.72	—	Ω_Λ	0.695	$0.653^{+0.048}_{-0.056}$	$H(0.57)$	0.0003107	$0.000295^{+0.000018}_{-0.000018}$
β_1^1	0.84	$0.5^{+1.7}_{-1.7}$	Ω_m	0.305	$0.362^{+0.077}_{-0.063}$	$DA(0.57)$	1382	1481^{+120}_{-110}

Best-fit $\chi_{\text{eff}}^2 = 9826.09$; R-1 = 0.05001

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.61 lensing_likelihood_v3.ref.clik.lensing: 11.10 commander_v3.light.clik: -7.30 CAMspec_v6.2TN_2013_01_18.clik: 7807.68

14.3 base_omegak_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02230	$0.02221^{+0.00058}_{-0.00063}$	β_2^1	-0.30	$0.1^{+1.6}_{-1.8}$	σ_8	0.8259	$0.828^{+0.033}_{-0.029}$
$\Omega_c h^2$	0.1169	$0.1181^{+0.0064}_{-0.0047}$	β_3^1	0.11	$0.0^{+2.0}_{-1.9}$	z_{re}	11.70	$11.5^{+2.1}_{-1.9}$
θ	1.04172	$1.0415^{+0.0012}_{-0.0013}$	β_4^1	0.15	$-0.1^{+1.9}_{-1.7}$	H_0	70.4	$71.6^{+5.3}_{-4.7}$
τ	0.0983	$0.095^{+0.025}_{-0.023}$	β_5^1	-0.01	$0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.217	$2.21^{+0.10}_{-0.087}$
Ω_K	0.0032	$0.0061^{+0.0078}_{-0.010}$	β_1^2	0.07	$-0.1^{+1.6}_{-1.9}$	$\Omega_m h^2$	0.1398	$0.1409^{+0.0060}_{-0.0046}$
n_s	0.9694	$0.965^{+0.013}_{-0.016}$	β_2^2	-0.15	$0.1^{+1.8}_{-1.7}$	$\Omega_m h^3$	0.0984	$0.1008^{+0.0065}_{-0.0077}$
$\log[10^{10} A_s]$	3.0987	$3.094^{+0.046}_{-0.040}$	β_3^2	-0.39	$-0.2^{+1.9}_{-2.0}$	Y_{He}	0.247810	$0.24777^{+0.00025}_{-0.00027}$
A_{100}^{PS}	190	146^{+100}_{-100}	β_4^2	0.00	$0.2^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8213	$1.825^{+0.032}_{-0.023}$
A_{143}^{PS}	47.5	50^{+20}_{-20}	β_5^2	-0.18	$0.0^{+2.2}_{-1.9}$	Age/Gyr	13.602	$13.47^{+0.47}_{-0.46}$
A_{217}^{PS}	120.0	118^{+30}_{-40}	β_1^3	0.32	$0.0^{+1.9}_{-1.9}$	z_*	1089.83	$1090.1^{+1.2}_{-0.92}$
A_{143}^{CIB}	11.0	—	β_2^3	-0.68	$0.0^{+2.2}_{-1.8}$	r_*	145.29	$145.1^{+1.1}_{-1.5}$
A_{217}^{CIB}	23.3	21^{+20}_{-9}	β_3^3	-0.26	$0.0^{+1.9}_{-1.7}$	θ_*	1.04186	$1.0417^{+0.0011}_{-0.0013}$
A_{143}^{tSZ}	3.71	—	β_4^3	-0.39	$0.0^{+1.7}_{-1.9}$	z_{drag}	1059.63	$1059.5^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.823	> 0.645	β_5^3	-0.08	$-0.1^{+2.4}_{-1.6}$	r_{drag}	148.00	$147.8^{+1.2}_{-1.4}$
r_{CIB}	0.426	—	β_1^4	0.40	$0.0^{+2.0}_{-1.8}$	k_D	0.13976	$0.1399^{+0.0013}_{-0.0012}$
n^{CIB}	0.322	$0.23^{+0.28}_{-0.41}$	β_2^4	-0.38	$-0.2^{+1.8}_{-1.6}$	θ_D	0.16119	$0.16126^{+0.00062}_{-0.00060}$
$c_{100/143}$	1.00053	$1.00059^{+0.00080}_{-0.00079}$	β_3^4	-0.18	$0.1^{+2.0}_{-2.1}$	z_{EQ}	3325	3351^{+140}_{-110}
$c_{217/143}$	0.99584	$0.9965^{+0.0021}_{-0.0022}$	β_4^4	0.02	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8278	$0.823^{+0.022}_{-0.027}$
$\xi^{tSZ-CIB}$	0.21	—	β_5^4	-0.12	$0.2^{+1.8}_{-2.0}$	$r_s/D_v(0.57)$	0.07383	$0.0747^{+0.0041}_{-0.0036}$
A^{kSZ}	1.13	—	Ω_Λ	0.7147	$0.718^{+0.037}_{-0.034}$	$H(0.57)$	0.0003163	$0.000320^{+0.000015}_{-0.000013}$
β_1^1	0.61	$0.5^{+1.5}_{-1.3}$	Ω_m	0.2820	$0.276^{+0.041}_{-0.040}$	$DA(0.57)$	1347	1329^{+73}_{-73}

Best-fit $\chi_{\text{eff}}^2 = 9809.52$; R-1 = 0.90515

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.42 commander.v3.light.clik: -8.23 CAMspec.v6.2TN_2013_01_18.clik: 7801.29 Hubble - HST: 2.04

14.4 base_omegak_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02204	$0.02243^{+0.00067}_{-0.00063}$	β_2^1	0.45	$0.1^{+1.9}_{-1.9}$	σ_8	0.831	$0.758^{+0.084}_{-0.064}$
$\Omega_c h^2$	0.1194	$0.1174^{+0.0057}_{-0.0057}$	β_3^1	0.31	$0.0^{+2.0}_{-2.0}$	z_{re}	11.6	$7.87^{+7.3}_{-5.6}$
θ	1.04152	$1.0417^{+0.0013}_{-0.0013}$	β_4^1	-0.16	$0.0^{+2.0}_{-2.0}$	H_0	67.2	50^{+10}_{-9}
τ	0.095	$0.062^{+0.086}_{-0.052}$	β_5^1	-0.13	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.217	$2.07^{+0.36}_{-0.20}$
Ω_K	-0.001	$-0.074^{+0.059}_{-0.068}$	β_1^2	-0.096	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1421	$0.1404^{+0.0053}_{-0.0053}$
n_s	0.9608	$0.967^{+0.018}_{-0.017}$	β_2^2	0.22	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0954	$0.070^{+0.018}_{-0.013}$
$\log[10^{10} A_s]$	3.099	$3.03^{+0.16}_{-0.099}$	β_3^2	-0.01	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247698	$0.24786^{+0.00028}_{-0.00027}$
A_{100}^{PS}	161	136^{+100}_{-100}	β_4^2	0.22	$0.0^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8316	$1.826^{+0.027}_{-0.027}$
A_{143}^{PS}	56.9	49^{+30}_{-30}	β_5^2	-0.42	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.84	$16.0^{+1.3}_{-1.6}$
A_{217}^{PS}	83.2	119^{+20}_{-30}	β_1^3	-0.05	$-0.1^{+1.9}_{-1.9}$	z_*	1090.39	$1089.7^{+1.2}_{-1.2}$
A_{143}^{CIB}	8.52	—	β_2^3	-0.54	$-0.2^{+2.0}_{-1.9}$	r_*	144.83	$145.1^{+1.2}_{-1.2}$
A_{217}^{CIB}	39.4	$19.5^{+12}_{-9.1}$	β_3^3	-0.35	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04168	$1.0418^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.06	—	β_4^3	-0.16	$-0.1^{+1.9}_{-1.9}$	z_{drag}	1059.21	$1060.0^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.857	> 0.675	β_5^3	-0.095	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.61	$147.7^{+1.2}_{-1.2}$
r_{CIB}	0.599	—	β_1^4	-0.15	$-0.1^{+1.9}_{-1.9}$	k_D	0.13996	$0.1401^{+0.0012}_{-0.0012}$
n^{CIB}	0.503	$0.24^{+0.26}_{-0.30}$	β_2^4	0.02	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16144	$0.16100^{+0.00071}_{-0.00069}$
$c_{100/143}$	1.00051	$1.00062^{+0.00077}_{-0.00078}$	β_3^4	0.03	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3380	3340^{+130}_{-130}
$c_{217/143}$	0.99811	$0.9964^{+0.0025}_{-0.0025}$	β_4^4	-0.05	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8169	$0.826^{+0.026}_{-0.024}$
$\xi^{tSZ-CIB}$	0.06	—	β_5^4	0.25	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.0714	$0.0582^{+0.0092}_{-0.0062}$
A^{kSZ}	1.95	—	Ω_Λ	0.686	$0.48^{+0.17}_{-0.18}$	$H(0.57)$	0.0003091	$0.000264^{+0.000031}_{-0.000020}$
β_1^1	0.49	$0.5^{+1.6}_{-1.6}$	Ω_m	0.315	$0.59^{+0.25}_{-0.23}$	$DA(0.57)$	1395	1760^{+200}_{-300}

Best-fit $\chi_{\text{eff}}^2 = 7798.94$; R-1 = 0.01680

χ_{eff}^2 : CMB - commander.v3.light.clik: -6.95 CAMspec.v6.2TN_2013_01_18.clik: 7805.89

14.5 base_omegak_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02231^{+0.00060}_{-0.00056}$	β_3^2	-0.02	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9988	$0.988^{+0.040}_{-0.038}$
$\Omega_c h^2$	0.1193	$0.1178^{+0.0052}_{-0.0050}$	β_4^2	-0.06	$0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9919	$0.992^{+0.020}_{-0.019}$
θ	1.04106	$1.0416^{+0.0013}_{-0.0013}$	β_5^2	-0.07	$-0.4^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0062	$1.025^{+0.047}_{-0.044}$
τ	0.0963	$0.086^{+0.026}_{-0.024}$	β_1^3	0.04	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.688	$0.57^{+0.11}_{-0.14}$
Ω_K	0.0000	$-0.042^{+0.038}_{-0.054}$	β_2^3	-0.28	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.312	$0.47^{+0.19}_{-0.14}$
n_s	0.9640	$0.963^{+0.014}_{-0.014}$	β_3^3	0.06	$0.2^{+2.0}_{-2.0}$	σ_8	0.8320	$0.793^{+0.039}_{-0.044}$
$\log[10^{10} A_s]$	3.1009	$3.076^{+0.051}_{-0.047}$	β_4^3	-0.13	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.61	$10.5^{+2.2}_{-2.2}$
A_{100}^{PS}	146	182^{+80}_{-80}	β_5^3	-0.36	$-0.3^{+1.9}_{-1.9}$	H_0	67.5	55^{+10}_{-10}
A_{143}^{PS}	59.1	72^{+20}_{-20}	β_1^4	-0.06	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.222	$2.17^{+0.11}_{-0.099}$
A_{217}^{PS}	45.4	60^{+20}_{-20}	β_2^4	0.00	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14219	$0.1407^{+0.0050}_{-0.0047}$
A_{143}^{CIB}	3.79	—	β_3^4	0.15	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0960	$0.078^{+0.016}_{-0.014}$
A_{217}^{CIB}	55.5	45^{+9}_{-9}	β_4^4	0.08	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247776	$0.24781^{+0.00025}_{-0.00024}$
A_{143}^{tSZ}	6.61	—	β_5^4	0.20	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8326	$1.826^{+0.024}_{-0.023}$
$r_{PS143/217}$	0.933	> 0.700	$A_{\text{PS,ACT}}^{148}$	10.02	$10.8^{+1.2}_{-1.1}$	Age/Gyr	13.81	$15.2^{+1.3}_{-1.2}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	76.8	$81.9^{+7.9}_{-7.9}$	z_*	1090.15	$1089.9^{+1.0}_{-1.1}$
n^{CIB}	0.611	$0.50^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	6.36	$7.85^{+3.2}_{-2.8}$	r_*	144.71	$145.0^{+1.1}_{-1.2}$
$c_{100/143}$	1.00078	$1.00063^{+0.00077}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	9.88	$10.54^{+0.99}_{-0.95}$	θ_*	1.04120	$1.0418^{+0.0012}_{-0.0013}$
$c_{217/143}$	1.00053	$0.9993^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	70.8	$78.5^{+8.2}_{-8.0}$	z_{drag}	1059.63	$1059.7^{+1.2}_{-1.2}$
$\xi^{tSZ-CIB}$	0.033	—	$r_{\text{PS}}^{95/150}$	0.859	> 0.664	r_{drag}	147.43	$147.7^{+1.1}_{-1.2}$
A^{kSZ}	0.41	—	$r_{\text{PS}}^{95/220}$	0.691	$0.55^{+0.24}_{-0.20}$	k_D	0.14029	$0.1400^{+0.0012}_{-0.0012}$
β_1^1	0.60	$0.4^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9340	> 0.902	θ_D	0.16112	$0.16114^{+0.00067}_{-0.00066}$
β_2^1	-0.03	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,s}}$	0.424	< 0.751	z_{EQ}	3382	3347^{+120}_{-110}
β_3^1	-0.44	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.789	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8166	$0.824^{+0.023}_{-0.022}$
β_4^1	0.11	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9962	$0.994^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.0716	$0.0625^{+0.0079}_{-0.0070}$
β_5^1	-0.02	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0065	$1.008^{+0.027}_{-0.026}$	$H(0.57)$	0.0003100	$0.000278^{+0.000027}_{-0.000024}$
β_1^2	-0.08	$-1.17^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9888	$0.991^{+0.014}_{-0.014}$	$DA(0.57)$	1389	1625^{+200}_{-200}
β_2^2	0.099	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9652	$0.965^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10532.99$; R-1 = 0.01675

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.66 commander.v3.light.clik: -7.56 CAMspec.v6.2TN_2013_01_18.clik: 7830.39 actspt_2013_01.clik: 695.48

14.6 base_omegak_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02227^{+0.00052}_{-0.00051}$	β_3^2	-0.15	$0.0^{+2.0}_{-2.2}$	c_{SPT}^{95}	0.9860	$0.986^{+0.039}_{-0.036}$
$\Omega_c h^2$	0.1183	$0.1173^{+0.0049}_{-0.0053}$	β_4^2	0.03	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9868	$0.990^{+0.020}_{-0.018}$
θ	1.04153	$1.0416^{+0.0013}_{-0.0012}$	β_5^2	-0.12	$-0.4^{+2.1}_{-2.0}$	c_{SPT}^{220}	1.0186	$1.024^{+0.049}_{-0.046}$
τ	0.0977	$0.086^{+0.025}_{-0.023}$	β_1^3	0.10	$0.8^{+1.8}_{-1.9}$	Ω_Λ	0.689	$0.649^{+0.049}_{-0.058}$
Ω_K	-0.0017	$-0.016^{+0.018}_{-0.022}$	β_2^3	-0.59	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.313	$0.368^{+0.079}_{-0.064}$
n_s	0.9639	$0.964^{+0.015}_{-0.014}$	β_3^3	0.47	$0.2^{+2.0}_{-2.0}$	σ_8	0.0685	$0.806^{+0.033}_{-0.032}$
$\log[10^{10} A_s]$	3.1017	$3.075^{+0.046}_{-0.045}$	β_4^3	-0.59	$-0.5^{+2.1}_{-2.1}$	z_{re}	11.71	$10.6^{+2.1}_{-2.0}$
A_{100}^{PS}	180	186^{+80}_{-80}	β_5^3	-0.29	$-0.3^{+1.9}_{-1.9}$	H_0	67.2	$62.0^{+6.4}_{-6.1}$
A_{143}^{PS}	74.7	74^{+20}_{-20}	β_1^4	-0.20	$-0.4^{+2.1}_{-2.0}$	$10^9 A_s$	2.224	$2.16^{+0.10}_{-0.095}$
A_{217}^{PS}	59.9	62^{+20}_{-20}	β_2^4	-0.53	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14116	$0.1402^{+0.0046}_{-0.0049}$
A_{143}^{CIB}	3.20	—	β_3^4	0.04	$-0.1^{+2.1}_{-1.9}$	$\Omega_m h^3$	0.0949	$0.0869^{+0.010}_{-0.0098}$
A_{217}^{CIB}	50.0	45^{+10}_{-9}	β_4^4	-0.02	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247764	$0.24780^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	5.28	—	β_5^4	0.49	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8290	$1.822^{+0.022}_{-0.023}$
$r_{PS143/217}$	0.853	> 0.707	$A_{\text{PS,ACT}}^{148}$	10.61	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.87	$14.46^{+0.77}_{-0.72}$
r_{CIB}	0.994	—	$A_{\text{PS,ACT}}^{218}$	79.2	$81.6^{+7.5}_{-8.2}$	z_*	1090.10	$1089.91^{+0.99}_{-0.99}$
n^{CIB}	0.558	$0.49^{+0.14}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.35	$7.67^{+3.0}_{-2.7}$	r_*	144.99	$145.2^{+1.2}_{-1.1}$
$c_{100/143}$	1.00064	$1.00062^{+0.00074}_{-0.00075}$	$A_{\text{PS,SPT}}^{150}$	10.23	$10.4^{+1.0}_{-0.97}$	θ_*	1.04167	$1.0418^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99990	$0.9993^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.7	$78.3^{+7.6}_{-8.5}$	z_{drag}	1059.47	$1059.6^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.793	> 0.669	r_{drag}	147.73	$147.9^{+1.1}_{-1.1}$
A^{kSZ}	0.47	—	$r_{\text{PS}}^{95/220}$	0.561	$0.56^{+0.24}_{-0.20}$	k_D	0.13996	$0.1398^{+0.0012}_{-0.0012}$
β_1^1	1.09	$0.4^{+1.6}_{-1.5}$	$r_{\text{PS}}^{150/220}$	0.9154	> 0.904	θ_D	0.16126	$0.16121^{+0.00065}_{-0.00061}$
β_2^1	-0.12	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.478	< 0.742	z_{EQ}	3358	3334^{+110}_{-120}
β_3^1	0.13	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.811	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8213	$0.826^{+0.024}_{-0.021}$
β_4^1	-0.27	$0.0^{+2.0}_{-2.0}$	c_{ACTs}^{148}	0.9933	$0.993^{+0.013}_{-0.014}$	$r_s/D_v(0.57)$	0.07138	$0.0674^{+0.0048}_{-0.0046}$
β_5^1	0.01	$0.0^{+2.0}_{-1.9}$	c_{ACTs}^{217}	1.0007	$1.007^{+0.028}_{-0.026}$	$H(0.57)$	0.0003086	$0.000294^{+0.000018}_{-0.000017}$
β_1^2	-0.50	$-1.18^{+1.9}_{-1.8}$	c_{ACTe}^{148}	0.9892	$0.990^{+0.015}_{-0.014}$	$DA(0.57)$	1395	1490^{+120}_{-110}
β_2^2	-0.29	$-0.3^{+1.9}_{-1.9}$	c_{ACTe}^{217}	0.9618	$0.964^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10531.42$; R-1 = 0.12880

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.84 lensing_likelihood.v3.ref.clik.lensing: 11.01 commander.v3.light.clik: -7.51 CAMspec.v6.2TN_2013_01_18.clik: 7820.83 actspt_2013_01.clik: 692.09

14.7 base_omegak_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02216^{+0.00064}_{-0.00051}$	β_3^2	-0.33	$-0.1^{+2.2}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9883	$0.988^{+0.037}_{-0.034}$
$\Omega_c h^2$	0.1174	$0.1182^{+0.0056}_{-0.0047}$	β_4^2	-0.02	$0.2^{+1.6}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9871	$0.988^{+0.017}_{-0.019}$
θ	1.04169	$1.0416^{+0.0014}_{-0.0013}$	β_5^2	-0.43	$-0.1^{+2.3}_{-1.7}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0228	$1.024^{+0.045}_{-0.042}$
τ	0.0977	$0.093^{+0.025}_{-0.022}$	β_1^3	0.46	$0.6^{+1.8}_{-1.7}$	Ω_Λ	0.7121	$0.711^{+0.041}_{-0.032}$
Ω_K	0.0033	$0.0045^{+0.0063}_{-0.0088}$	β_2^3	-0.65	$-0.5^{+2.5}_{-2.0}$	Ω_m	0.2846	$0.284^{+0.038}_{-0.036}$
n_s	0.9661	$0.963^{+0.014}_{-0.015}$	β_3^3	-0.13	$0.2^{+1.6}_{-1.6}$	σ_8	0.8270	$0.827^{+0.030}_{-0.028}$
$\log[10^{10} A_s]$	3.0987	$3.091^{+0.051}_{-0.040}$	β_4^3	-0.56	$-0.5^{+1.5}_{-2.0}$	z_{re}	11.68	$11.4^{+2.0}_{-1.8}$
A_{100}^{PS}	174	193^{+70}_{-60}	β_5^3	-0.33	$-0.6^{+2.0}_{-1.5}$	H_0	70.20	$70.5^{+5.2}_{-4.1}$
A_{143}^{PS}	72.6	76^{+10}_{-10}	β_1^4	-0.11	$-0.3^{+1.4}_{-1.8}$	$10^9 A_s$	2.217	$2.20^{+0.12}_{-0.087}$
A_{217}^{PS}	57.3	63^{+20}_{-20}	β_2^4	-0.42	$-0.5^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14026	$0.1410^{+0.0056}_{-0.0044}$
A_{143}^{CIB}	3.30	—	β_3^4	-0.29	$0.0^{+1.5}_{-2.4}$	$\Omega_m h^3$	0.0985	$0.0994^{+0.0050}_{-0.0064}$
A_{217}^{CIB}	50.9	44^{+10}_{-7}	β_4^4	0.16	$0.0^{+1.7}_{-1.6}$	Y_{He}	0.247793	$0.24775^{+0.00027}_{-0.00022}$
A_{143}^{tSZ}	5.39	—	β_5^4	0.07	$0.3^{+2.0}_{-2.1}$	$10^9 A_s e^{-2\tau}$	1.8234	$1.825^{+0.023}_{-0.022}$
$r_{PS143/217}$	0.853	> 0.692	$A_{\text{PS,ACT}}^{148}$	10.39	$10.57^{+0.96}_{-1.1}$	Age/Gyr	13.607	$13.56^{+0.41}_{-0.33}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	78.8	$81.8^{+7.8}_{-9.1}$	z_*	1089.92	$1090.1^{+1.0}_{-1.2}$
n^{CIB}	0.561	$0.49^{+0.15}_{-0.12}$	$A_{\text{PS,SPT}}^{95}$	6.94	$7.63^{+2.8}_{-3.1}$	r_*	145.19	$145.1^{+1.1}_{-1.4}$
$c_{100/143}$	1.00062	$1.00068^{+0.00059}_{-0.00072}$	$A_{\text{PS,SPT}}^{150}$	9.95	$10.35^{+0.86}_{-0.95}$	θ_*	1.04183	$1.0417^{+0.0014}_{-0.0013}$
$c_{217/143}$	0.99959	$0.9996^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.4	$78.0^{+6.7}_{-9.4}$	z_{drag}	1059.55	$1059.4^{+1.2}_{-1.0}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.807	> 0.639	r_{drag}	147.91	$147.8^{+1.1}_{-1.4}$
A^{kSZ}	1.16	—	$r_{\text{PS}}^{95/220}$	0.571	$0.55^{+0.23}_{-0.21}$	k_D	0.13982	$0.1398^{+0.0015}_{-0.0012}$
β_1^1	0.90	$0.5^{+1.3}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9156	> 0.912	θ_D	0.16122	$0.16132^{+0.00061}_{-0.00066}$
β_2^1	-0.16	$-0.3^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.420	< 0.726	z_{EQ}	3336	3353^{+130}_{-100}
β_3^1	0.10	$0.0^{+1.6}_{-1.6}$	$A_{\text{dust,e}}$	0.856	$0.84^{+0.38}_{-0.26}$	θ_{EQ}	0.8256	$0.822^{+0.021}_{-0.024}$
β_4^1	-0.09	$-0.2^{+1.9}_{-1.6}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9936	$0.991^{+0.013}_{-0.018}$	$r_s/D_v(0.57)$	0.07367	$0.0739^{+0.0039}_{-0.0031}$
β_5^1	-0.11	$0.1^{+1.9}_{-1.6}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0039	$1.006^{+0.018}_{-0.032}$	$H(0.57)$	0.0003161	$0.000317^{+0.000012}_{-0.000011}$
β_1^2	-0.68	$-1.08^{+2.1}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9896	$0.988^{+0.012}_{-0.012}$	$DA(0.57)$	1349	1344^{+64}_{-59}
β_2^2	-0.33	$-0.3^{+1.8}_{-1.4}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9636	$0.966^{+0.023}_{-0.015}$			

Best-fit $\chi_{\text{eff}}^2 = 10525.57$; R-1 = 4.81464

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.42 commander.v3.light.clik: -7.53 CAMspec.v6.2TN_2013_01_18.clik: 7823.41 actspt_2013_01.clik: 692.89 Hubble - HST: 2.29

14.8 base_omegak_planck_CAMspec_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02231	$0.02221^{+0.00058}_{-0.00048}$	β_3^2	0.098	$0.0^{+2.1}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9875	$0.987^{+0.038}_{-0.034}$
$\Omega_c h^2$	0.11724	$0.1176^{+0.0047}_{-0.0042}$	β_4^2	0.29	$0.2^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9872	$0.989^{+0.018}_{-0.019}$
θ	1.04179	$1.0416^{+0.0013}_{-0.0012}$	β_5^2	-0.19	$-0.3^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0142	$1.023^{+0.047}_{-0.045}$
τ	0.0985	$0.092^{+0.026}_{-0.022}$	β_1^3	0.35	$0.8^{+1.8}_{-1.9}$	Ω_Λ	0.7019	$0.690^{+0.041}_{-0.053}$
Ω_K	0.0000	$-0.003^{+0.012}_{-0.018}$	β_2^3	-0.58	$-0.5^{+2.1}_{-2.0}$	Ω_m	0.298	$0.312^{+0.068}_{-0.052}$
n_s	0.9660	$0.964^{+0.014}_{-0.014}$	β_3^3	0.19	$0.2^{+1.8}_{-2.0}$	σ_8	0.8255	$0.820^{+0.033}_{-0.027}$
$\log[10^{10} A_s]$	3.1006	$3.088^{+0.051}_{-0.042}$	β_4^3	0.09	$-0.5^{+2.0}_{-2.0}$	z_{re}	11.71	$11.2^{+2.1}_{-1.9}$
A_{100}^{PS}	165	190^{+80}_{-70}	β_5^3	-0.11	$-0.5^{+2.0}_{-1.7}$	H_0	68.6	$67.3^{+6.7}_{-6.6}$
A_{143}^{PS}	72.8	75^{+10}_{-20}	β_1^4	0.04	$-0.3^{+1.8}_{-1.8}$	$10^9 A_s$	2.221	$2.19^{+0.11}_{-0.092}$
A_{217}^{PS}	54.8	63^{+20}_{-20}	β_2^4	-0.13	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14020	$0.1405^{+0.0046}_{-0.0044}$
A_{143}^{CIB}	3.08	—	β_3^4	-0.02	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0961	$0.0946^{+0.0091}_{-0.010}$
A_{217}^{CIB}	51.6	44^{+9}_{-8}	β_4^4	-0.26	$0.1^{+1.9}_{-1.8}$	Y_{He}	0.247814	$0.24777^{+0.00024}_{-0.00021}$
A_{143}^{tSZ}	5.30	—	β_5^4	0.43	$0.3^{+1.9}_{-2.1}$	$10^9 A_s e^{-2\tau}$	1.8240	$1.823^{+0.022}_{-0.020}$
$r_{PS143/217}$	0.883	> 0.702	$A_{\text{PS,ACT}}^{148}$	10.30	$10.7^{+1.1}_{-1.2}$	Age/Gyr	13.77	$13.89^{+0.73}_{-0.63}$
r_{CIB}	0.999	—	$A_{\text{PS,ACT}}^{218}$	78.2	$81.6^{+7.4}_{-8.9}$	z_*	1089.85	$1090.02^{+0.92}_{-1.0}$
n^{CIB}	0.573	$0.49^{+0.14}_{-0.13}$	$A_{\text{PS,SPT}}^{95}$	7.29	$7.57^{+2.9}_{-2.7}$	r_*	145.18	$145.2^{+1.1}_{-1.1}$
$c_{100/143}$	1.00065	$1.00064^{+0.00071}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.07	$10.40^{+0.99}_{-0.97}$	θ_*	1.04193	$1.0418^{+0.0013}_{-0.0012}$
$c_{217/143}$	0.99992	$0.9994^{+0.0022}_{-0.0020}$	$A_{\text{PS,SPT}}^{220}$	73.8	$78.0^{+7.5}_{-8.9}$	z_{drag}	1059.67	$1059.5^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.774	> 0.664	r_{drag}	147.88	$147.9^{+1.1}_{-1.2}$
A^{kSZ}	1.37	—	$r_{\text{PS}}^{95/220}$	0.556	$0.56^{+0.26}_{-0.22}$	k_D	0.13989	$0.1398^{+0.0013}_{-0.0012}$
β_1^1	0.58	$0.5^{+1.4}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9240	> 0.904	θ_D	0.16117	$0.16128^{+0.00065}_{-0.00063}$
β_2^1	0.17	$-0.2^{+1.8}_{-1.8}$	$A_{\text{dust,s}}$	0.440	< 0.729	z_{EQ}	3335	3342^{+110}_{-110}
β_3^1	0.08	$0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.895	$0.84^{+0.38}_{-0.34}$	θ_{EQ}	0.8261	$0.825^{+0.019}_{-0.020}$
β_4^1	0.08	$-0.1^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9938	$0.993^{+0.013}_{-0.014}$	$r_s/D_v(0.57)$	0.0724	$0.0715^{+0.0051}_{-0.0050}$
β_5^1	0.22	$0.0^{+2.0}_{-1.8}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0030	$1.006^{+0.024}_{-0.030}$	$H(0.57)$	0.0003116	$0.000309^{+0.000018}_{-0.000018}$
β_1^2	-0.27	$-1.13^{+1.8}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9885	$0.989^{+0.015}_{-0.013}$	$DA(0.57)$	1375	1397^{+120}_{-98}
β_2^2	-0.20	$-0.3^{+1.8}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9653	$0.965^{+0.022}_{-0.017}$			

Best-fit $\chi_{\text{eff}}^2 = 10952.32$; R-1 = 0.47192

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.70 commander.v3.light.clik: -7.78 CAMspec.v6.2TN_2013_01_18.clik: 7824.22 actspt_2013_01.clik: 692.53 SN - SNLS April.2012: 428.38

14.9 base_omegak_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02252	$0.0226^{+0.0010}_{-0.0010}$	z_{re}	10.69	$10.6^{+2.3}_{-2.2}$	z_{drag}	1060.01	$1060.1^{+2.2}_{-2.3}$
$\Omega_c h^2$	0.1154	$0.1143^{+0.0093}_{-0.0091}$	H_0	69.0	66^{+30}_{-20}	r_{drag}	148.16	$148.4^{+2.4}_{-2.4}$
θ	1.03994	$1.0400^{+0.0045}_{-0.0045}$	$10^9 A_s$	2.214	$2.20^{+0.14}_{-0.12}$	k_D	0.13975	$0.1395^{+0.0027}_{-0.0027}$
τ	0.0879	$0.088^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1385	$0.1375^{+0.0091}_{-0.0088}$	θ_D	0.16067	$0.1607^{+0.0010}_{-0.00099}$
Ω_K	0.000	$-0.017^{+0.041}_{-0.091}$	$\Omega_m h^3$	0.0956	$0.090^{+0.033}_{-0.029}$	z_{EQ}	3295	3270^{+220}_{-210}
n_s	0.9714	$0.971^{+0.028}_{-0.026}$	Y_{He}	0.247902	$0.24792^{+0.00043}_{-0.00043}$	θ_{EQ}	0.8327	$0.838^{+0.044}_{-0.041}$
$\log[10^{10} A_s]$	3.098	$3.091^{+0.062}_{-0.056}$	$10^9 A_s e^{-2\tau}$	1.857	$1.846^{+0.062}_{-0.060}$	$r_s/D_v(0.57)$	0.0727	$0.070^{+0.020}_{-0.016}$
A_{SZ}	0.00	—	Age/Gyr	13.77	$14.3^{+2.6}_{-2.2}$	$H(0.57)$	0.000312	$0.000303^{+0.000070}_{-0.000054}$
Ω_Λ	0.709	$0.66^{+0.16}_{-0.29}$	z_*	1089.43	$1089.3^{+1.7}_{-1.7}$	$DA(0.57)$	1370	1453^{+500}_{-400}
Ω_m	0.291	$0.36^{+0.38}_{-0.20}$	r_*	145.52	$145.8^{+2.3}_{-2.3}$			
σ_8	0.817	$0.799^{+0.052}_{-0.055}$	θ_*	1.04005	$1.0401^{+0.0045}_{-0.0045}$			

Best-fit $\chi_{\text{eff}}^2 = 7557.92$; R-1 = 0.00640

χ_{eff}^2 : CMB - WMAP: 7557.92

14.10 base_omegak_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02250	$0.02263^{+0.00094}_{-0.00095}$	z_{re}	10.94	$10.7^{+2.2}_{-2.1}$	z_{drag}	1059.97	$1060.1^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.1153	$0.1137^{+0.0087}_{-0.0083}$	H_0	68.15	$68.1^{+2.1}_{-2.1}$	r_{drag}	148.19	$148.5^{+2.4}_{-2.3}$
θ	1.03931	$1.0402^{+0.0044}_{-0.0044}$	$10^9 A_s$	2.222	$2.20^{+0.14}_{-0.12}$	k_D	0.13971	$0.1395^{+0.0027}_{-0.0026}$
τ	0.0907	$0.089^{+0.030}_{-0.025}$	$\Omega_m h^2$	0.1385	$0.1369^{+0.0086}_{-0.0082}$	θ_D	0.16060	$0.1606^{+0.0010}_{-0.00095}$
Ω_K	-0.0009	$-0.0030^{+0.0090}_{-0.0081}$	$\Omega_m h^3$	0.0944	$0.0932^{+0.0072}_{-0.0065}$	z_{EQ}	3294	3257^{+200}_{-200}
n_s	0.9698	$0.973^{+0.023}_{-0.023}$	Y_{He}	0.247895	$0.24795^{+0.00039}_{-0.00041}$	θ_{EQ}	0.8323	$0.841^{+0.040}_{-0.039}$
$\log[10^{10} A_s]$	3.101	$3.092^{+0.061}_{-0.057}$	$10^9 A_s e^{-2\tau}$	1.853	$1.843^{+0.059}_{-0.058}$	$r_s/D_v(0.57)$	0.07208	$0.0720^{+0.0015}_{-0.0016}$
A_{SZ}	0.70	—	Age/Gyr	13.855	$13.92^{+0.37}_{-0.37}$	$H(0.57)$	0.0003096	$0.0003084^{+0.000085}_{-0.000082}$
Ω_Λ	0.7027	$0.707^{+0.026}_{-0.028}$	z_*	1089.45	$1089.2^{+1.5}_{-1.4}$	$DA(0.57)$	1383.6	1387^{+38}_{-37}
Ω_m	0.2982	$0.296^{+0.024}_{-0.022}$	r_*	145.54	$145.9^{+2.2}_{-2.2}$			
σ_8	0.8165	$0.807^{+0.046}_{-0.045}$	θ_*	1.03943	$1.0403^{+0.0043}_{-0.0043}$			

Best-fit $\chi_{\text{eff}}^2 = 7559.44$; R-1 = 0.01350

χ_{eff}^2 : BAO - 6DF: 0.03 DR7: 0.55 DR9: 0.59 CMB - WMAP: 7558.27

14.11 base_omegak_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02260	$0.02270^{+0.00095}_{-0.00087}$	z_{re}	10.75	$10.7^{+2.2}_{-2.1}$	z_{drag}	1060.16	$1060.3^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.1150	$0.1132^{+0.0085}_{-0.0084}$	H_0	73.86	$73.5^{+4.7}_{-4.7}$	r_{drag}	148.17	$148.6^{+2.4}_{-2.3}$
θ	1.04007	$1.0404^{+0.0044}_{-0.0043}$	$10^9 A_s$	2.216	$2.20^{+0.14}_{-0.12}$	k_D	0.13980	$0.1395^{+0.0027}_{-0.0026}$
τ	0.0884	$0.090^{+0.029}_{-0.025}$	$\Omega_m h^2$	0.1382	$0.1365^{+0.0084}_{-0.0083}$	θ_D	0.16059	$0.16058^{+0.00098}_{-0.00094}$
Ω_K	0.0082	$0.0060^{+0.0090}_{-0.010}$	$\Omega_m h^3$	0.1021	$0.1004^{+0.0086}_{-0.0084}$	z_{EQ}	3287	3247^{+200}_{-200}
n_s	0.9740	$0.976^{+0.023}_{-0.023}$	Y_{He}	0.247937	$0.24798^{+0.00039}_{-0.00037}$	θ_{EQ}	0.8344	$0.843^{+0.040}_{-0.037}$
$\log[10^{10} A_s]$	3.098	$3.093^{+0.062}_{-0.055}$	$10^9 A_s e^{-2\tau}$	1.857	$1.842^{+0.059}_{-0.057}$	$r_s/D_v(0.57)$	0.07646	$0.0763^{+0.0037}_{-0.0037}$
A_{sz}	0.00	—	Age/Gyr	13.329	$13.41^{+0.50}_{-0.46}$	$H(0.57)$	0.0003249	$0.000323^{+0.000014}_{-0.000014}$
Ω_Λ	0.7384	$0.741^{+0.033}_{-0.036}$	z_*	1089.30	$1089.0^{+1.4}_{-1.5}$	$DA(0.57)$	1297	1305^{+70}_{-65}
Ω_m	0.2534	$0.253^{+0.040}_{-0.035}$	r_*	145.56	$146.0^{+2.3}_{-2.2}$			
σ_8	0.8196	$0.809^{+0.049}_{-0.046}$	θ_*	1.04018	$1.0405^{+0.0043}_{-0.0043}$			

Best-fit $\chi_{\text{eff}}^2 = 7557.96$; R-1 = 0.02781

χ_{eff}^2 : CMB - WMAP: 7557.96 Hubble - HST: 0.00

14.12 base_omegak_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02269	$0.02277^{+0.00096}_{-0.00092}$	z_{re}	10.87	$10.8^{+2.2}_{-2.1}$	z_{drag}	1060.31	$1060.4^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.1140	$0.1124^{+0.0084}_{-0.0083}$	H_0	78.5	77^{+10}_{-10}	r_{drag}	148.35	$148.7^{+2.4}_{-2.3}$
θ	1.04030	$1.0405^{+0.0043}_{-0.0044}$	$10^9 A_s$	2.218	$2.20^{+0.14}_{-0.12}$	k_D	0.13968	$0.1394^{+0.0026}_{-0.0027}$
τ	0.0901	$0.090^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1373	$0.1358^{+0.0081}_{-0.0083}$	θ_D	0.16054	$0.1605^{+0.0010}_{-0.00095}$
Ω_K	0.0135	$0.009^{+0.015}_{-0.019}$	$\Omega_m h^3$	0.1077	$0.104^{+0.019}_{-0.016}$	z_{EQ}	3265	3230^{+190}_{-200}
n_s	0.9773	$0.978^{+0.024}_{-0.024}$	Y_{He}	0.247975	$0.24801^{+0.00040}_{-0.00039}$	θ_{EQ}	0.8391	$0.847^{+0.041}_{-0.038}$
$\log[10^{10} A_s]$	3.099	$3.092^{+0.062}_{-0.056}$	$10^9 A_s e^{-2\tau}$	1.852	$1.839^{+0.059}_{-0.058}$	$r_s/D_v(0.57)$	0.0801	$0.0787^{+0.010}_{-0.0084}$
A_{sz}	0.00	—	Age/Gyr	12.96	$13.2^{+1.0}_{-1.1}$	$H(0.57)$	0.0003372	$0.000331^{+0.000038}_{-0.000030}$
Ω_Λ	0.763	$0.756^{+0.057}_{-0.064}$	z_*	1089.10	$1088.9^{+1.5}_{-1.4}$	$DA(0.57)$	1236	1267^{+200}_{-200}
Ω_m	0.223	$0.236^{+0.079}_{-0.069}$	r_*	145.76	$146.1^{+2.3}_{-2.2}$			
σ_8	0.8187	$0.807^{+0.050}_{-0.048}$	θ_*	1.04041	$1.0406^{+0.0043}_{-0.0044}$			

Best-fit $\chi_{\text{eff}}^2 = 7983.44$; R-1 = 0.01698

χ_{eff}^2 : CMB - WMAP: 7558.15 SN - SNLS April_2012: 425.29

14.13 base_omegak_planck_CAMspec_lowl_lowLike_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.02217^{+0.00059}_{-0.00058}$	β_2^1	0.57	$0.1^{+1.9}_{-1.9}$	σ_8	0.8302	$0.824^{+0.027}_{-0.027}$
$\Omega_c h^2$	0.1189	$0.1183^{+0.0054}_{-0.0052}$	β_3^1	-0.03	$0.0^{+1.9}_{-2.0}$	z_{re}	11.62	$11.2^{+2.2}_{-2.2}$
θ	1.04151	$1.0415^{+0.0013}_{-0.0012}$	β_4^1	0.11	$0.0^{+2.0}_{-2.0}$	H_0	67.77	$67.8^{+2.1}_{-2.0}$
τ	0.0963	$0.092^{+0.027}_{-0.025}$	β_5^1	-0.06	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.20^{+0.12}_{-0.11}$
Ω_K	0.0000	$-0.0005^{+0.0065}_{-0.0067}$	β_1^2	-0.38	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1417	$0.1411^{+0.0050}_{-0.0049}$
n_s	0.9620	$0.965^{+0.015}_{-0.016}$	β_2^2	-0.06	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09600	$0.0957^{+0.0046}_{-0.0045}$
$\log[10^{10} A_s]$	3.100	$3.089^{+0.052}_{-0.049}$	β_3^2	-0.04	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247751	$0.24776^{+0.00025}_{-0.00025}$
A_{100}^{PS}	130	148^{+100}_{-100}	β_4^2	0.17	$0.0^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8314	$1.827^{+0.025}_{-0.025}$
A_{143}^{PS}	40	51^{+30}_{-30}	β_5^2	-0.48	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.798	$13.81^{+0.27}_{-0.26}$
A_{217}^{PS}	104.4	119^{+30}_{-30}	β_1^3	0.08	$-0.1^{+1.9}_{-1.9}$	z_*	1090.18	$1090.1^{+1.1}_{-1.1}$
A_{143}^{CIB}	9.23	—	β_2^3	0.03	$-0.1^{+1.9}_{-1.9}$	r_*	144.88	$145.0^{+1.2}_{-1.2}$
A_{217}^{CIB}	30.6	21^{+10}_{-10}	β_3^3	0.02	$0.0^{+1.9}_{-2.0}$	θ_*	1.04166	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	7.72	—	β_4^3	-0.30	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.953	> 0.669	β_5^3	0.099	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.62	$147.8^{+1.2}_{-1.2}$
r_{CIB}	0.450	—	β_1^4	-0.29	$-0.1^{+1.9}_{-1.9}$	k_D	0.14005	$0.1399^{+0.0012}_{-0.0012}$
n^{CIB}	0.473	$0.24^{+0.26}_{-0.31}$	β_2^4	0.11	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16129	$0.16130^{+0.00069}_{-0.00067}$
$c_{100/143}$	1.00052	$1.00060^{+0.00078}_{-0.00077}$	β_3^4	-0.30	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3370	3356^{+120}_{-120}
$c_{217/143}$	0.99595	$0.9965^{+0.0026}_{-0.0025}$	β_4^4	0.21	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8191	$0.822^{+0.023}_{-0.023}$
$\xi^{tSZ-CIB}$	0.04	—	β_5^4	0.14	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07180	$0.0718^{+0.0016}_{-0.0015}$
A^{kSZ}	1.92	—	Ω_Λ	0.6916	$0.693^{+0.020}_{-0.022}$	$H(0.57)$	0.0003104	$0.0003102^{+0.0000065}_{-0.0000064}$
β_1^1	0.58	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3085	$0.307^{+0.022}_{-0.020}$	$DA(0.57)$	1385.6	1386^{+34}_{-34}

Best-fit $\chi_{\text{eff}}^2 = 9809.68$; R-1 = 0.04879

χ_{eff}^2 : BAO - DR7: 1.15 6DF: 0.01 DR9: 0.28 CMB - lowlike.v22.light.clik: 2014.65 commander.v3.light.clik: -6.97 CAMspec.v6.2TN.2013_01_18.clik: 7800.56

14.14 base_omegak_planck_CAMspec_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02218	$0.02219_{-0.00058}^{+0.00059}$	β_2^1	0.07	$0.1_{-1.9}^{+1.9}$	σ_8	0.0691	$0.827_{-0.023}^{+0.023}$
$\Omega_c h^2$	0.1181	$0.1184_{-0.0049}^{+0.0051}$	β_3^1	-0.23	$0.0_{-2.0}^{+1.9}$	z_{re}	11.60	$11.5_{-2.0}^{+2.0}$
θ	1.04184	$1.0415_{-0.0012}^{+0.0012}$	β_4^1	-0.05	$0.0_{-1.9}^{+2.0}$	H_0	68.15	$67.7_{-2.0}^{+2.0}$
τ	0.0965	$0.095_{-0.024}^{+0.026}$	β_5^1	-0.46	$0.0_{-2.0}^{+2.0}$	$10^9 A_s$	2.218	$2.21_{-0.096}^{+0.10}$
Ω_K	-0.0001	$-0.0006_{-0.0066}^{+0.0064}$	β_1^2	-0.08	$-0.1_{-1.8}^{+1.8}$	$\Omega_m h^2$	0.14092	$0.1413_{-0.0046}^{+0.0048}$
n_s	0.9660	$0.964_{-0.016}^{+0.015}$	β_2^2	-0.17	$0.0_{-1.9}^{+1.9}$	$\Omega_m h^3$	0.09603	$0.0956_{-0.0045}^{+0.0045}$
$\log[10^{10} A_s]$	3.0991	$3.096_{-0.044}^{+0.047}$	β_3^2	0.13	$-0.1_{-2.0}^{+2.0}$	Y_{He}	0.247759	$0.24776_{-0.00025}^{+0.00025}$
A_{100}^{PS}	173	147_{-100}^{+100}	β_4^2	-0.08	$0.0_{-1.9}^{+1.9}$	$10^9 A_s e^{-2\tau}$	1.8287	$1.828_{-0.023}^{+0.024}$
A_{143}^{PS}	62.4	51_{-30}^{+30}	β_5^2	-0.14	$-0.1_{-1.9}^{+2.0}$	Age/Gyr	13.784	$13.82_{-0.26}^{+0.27}$
A_{217}^{PS}	84.0	119_{-30}^{+30}	β_1^3	0.14	$-0.1_{-1.9}^{+1.9}$	z_*	1090.09	$1090.1_{-1.0}^{+1.1}$
A_{143}^{CIB}	8.54	—	β_2^3	-0.46	$-0.1_{-1.9}^{+1.9}$	r_*	145.06	$145.0_{-1.1}^{+1.1}$
A_{217}^{CIB}	39.3	21_{-10}^{+10}	β_3^3	-0.12	$0.0_{-2.0}^{+2.0}$	θ_*	1.04198	$1.0416_{-0.0012}^{+0.0012}$
A_{143}^{tSZ}	4.12	—	β_4^3	-0.17	$-0.2_{-2.0}^{+2.0}$	z_{drag}	1059.44	$1059.5_{-1.2}^{+1.2}$
$r_{PS143/217}$	0.920	> 0.671	β_5^3	-0.16	$-0.1_{-1.9}^{+1.9}$	r_{drag}	147.80	$147.7_{-1.1}^{+1.1}$
r_{CIB}	0.509	—	β_1^4	0.06	$-0.1_{-1.9}^{+1.9}$	k_D	0.13988	$0.1400_{-0.0011}^{+0.0012}$
n^{CIB}	0.538	$0.24_{-0.32}^{+0.26}$	β_2^4	-0.12	$0.0_{-2.0}^{+2.0}$	θ_D	0.16133	$0.16126_{-0.00066}^{+0.00068}$
$c_{100/143}$	1.00074	$1.00060_{-0.00079}^{+0.00080}$	β_3^4	-0.27	$-0.1_{-1.9}^{+2.0}$	z_{EQ}	3352	3360_{-110}^{+110}
$c_{217/143}$	0.99788	$0.9965_{-0.0025}^{+0.0026}$	β_4^4	-0.41	$0.0_{-2.0}^{+2.0}$	θ_{EQ}	0.8226	$0.821_{-0.022}^{+0.022}$
$\xi^{tSZ-CIB}$	0.31	—	β_5^4	0.23	$0.1_{-1.9}^{+1.9}$	$r_s/D_v(0.57)$	0.07211	$0.0717_{-0.0015}^{+0.0016}$
A^{kSZ}	1.18	—	Ω_Λ	0.6966	$0.692_{-0.020}^{+0.019}$	$H(0.57)$	0.0003109	$0.0003099_{-0.000064}^{+0.000065}$
β_1^1	0.36	$0.5_{-1.7}^{+1.6}$	Ω_m	0.3035	$0.309_{-0.019}^{+0.021}$	$DA(0.57)$	1380.6	1388_{-33}^{+34}

Best-fit $\chi_{\text{eff}}^2 = 9827.00$; R-1 = 0.04227

χ_{eff}^2 : BAO - DR7: 0.61 6DF: 0.04 DR9: 0.62 CMB - lowlike_v22.light.clik: 2014.57 lensing_likelihood_v3_ref.clik.lensing: 11.26 commander_v3.light.clik: -7.89 CAMspec_v6.2TN_2013_01_18.clik: 7807.80

14.15 base_omegak_planck_CAMspec_lowl_lowLike_highL_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.02216^{+0.00057}_{-0.00052}$	β_3^2	-0.12	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9853	$0.985^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1186	$0.1184^{+0.0052}_{-0.0052}$	β_4^2	0.17	$0.3^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9863	$0.989^{+0.019}_{-0.018}$
θ	1.04140	$1.0415^{+0.0013}_{-0.0012}$	β_5^2	-0.37	$-0.4^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0139	$1.022^{+0.046}_{-0.044}$
τ	0.0963	$0.092^{+0.027}_{-0.025}$	β_1^3	0.77	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6928	$0.692^{+0.020}_{-0.021}$
Ω_K	0.0000	$-0.0006^{+0.0062}_{-0.0067}$	β_2^3	-0.58	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.3072	$0.308^{+0.021}_{-0.020}$
n_s	0.9621	$0.962^{+0.014}_{-0.014}$	β_3^3	0.42	$0.2^{+2.0}_{-1.9}$	σ_8	0.8285	$0.824^{+0.028}_{-0.027}$
$\log[10^{10} A_s]$	3.0985	$3.090^{+0.050}_{-0.048}$	β_4^3	-0.45	$-0.4^{+1.9}_{-2.0}$	z_{re}	11.62	$11.2^{+2.1}_{-2.2}$
A_{100}^{PS}	170	186^{+80}_{-80}	β_5^3	-0.22	$-0.4^{+2.0}_{-1.9}$	H_0	67.83	$67.7^{+2.1}_{-2.0}$
A_{143}^{PS}	74.5	75^{+20}_{-20}	β_1^4	-0.09	$-0.3^{+1.9}_{-2.0}$	$10^9 A_s$	2.217	$2.20^{+0.11}_{-0.10}$
A_{217}^{PS}	64.8	63^{+20}_{-20}	β_2^4	-0.32	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14135	$0.1412^{+0.0049}_{-0.0049}$
A_{143}^{CIB}	3.27	—	β_3^4	-0.10	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09588	$0.0956^{+0.0045}_{-0.0045}$
A_{217}^{CIB}	47.5	44^{+9}_{-9}	β_4^4	0.19	$0.2^{+2.0}_{-1.9}$	Y_{He}	0.247740	$0.24775^{+0.00024}_{-0.00022}$
A_{143}^{tSZ}	5.40	—	β_5^4	0.22	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8282	$1.827^{+0.024}_{-0.024}$
$r_{PS143/217}$	0.820	> 0.708	$A_{\text{PS,ACT}}^{148}$	10.37	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.800	$13.82^{+0.26}_{-0.25}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.8	$81.6^{+7.6}_{-8.0}$	z_*	1090.19	$1090.1^{+1.0}_{-1.1}$
n^{CIB}	0.512	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	6.90	$7.54^{+3.1}_{-2.7}$	r_*	144.97	$145.0^{+1.2}_{-1.2}$
$c_{100/143}$	1.00064	$1.00062^{+0.00077}_{-0.00079}$	$A_{\text{PS,SPT}}^{150}$	10.01	$10.3^{+1.0}_{-0.94}$	θ_*	1.04155	$1.0417^{+0.0013}_{-0.0012}$
$c_{217/143}$	0.99935	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.5	$78.1^{+8.1}_{-8.1}$	z_{drag}	1059.36	$1059.4^{+1.1}_{-1.0}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.804	> 0.664	r_{drag}	147.72	$147.8^{+1.2}_{-1.2}$
A^{kSZ}	1.10	—	$r_{\text{PS}}^{95/220}$	0.562	$0.56^{+0.25}_{-0.21}$	k_D	0.13992	$0.1399^{+0.0012}_{-0.0012}$
β_1^1	0.68	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9168	> 0.904	θ_D	0.16131	$0.16131^{+0.00062}_{-0.00063}$
β_2^1	0.07	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,s}}$	0.437	< 0.759	z_{EQ}	3362	3358^{+120}_{-120}
β_3^1	0.18	$0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.823	$0.85^{+0.38}_{-0.38}$	θ_{EQ}	0.8202	$0.821^{+0.023}_{-0.022}$
β_4^1	-0.06	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9925	$0.993^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07188	$0.0718^{+0.0015}_{-0.0015}$
β_5^1	-0.27	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0008	$1.006^{+0.026}_{-0.026}$	$H(0.57)$	0.0003104	$0.0003100^{+0.0000063}_{-0.0000064}$
β_1^2	-0.85	$-1.16^{+1.8}_{-1.8}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9881	$0.989^{+0.014}_{-0.013}$	$DA(0.57)$	1385.0	1387^{+35}_{-33}
β_2^2	-0.26	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9596	$0.964^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10521.59$; R-1 = 0.06798

χ_{eff}^2 : BAO - DR9: 0.35 DR7: 1.01 6DF: 0.01 CMB - lowlike.v22.light.clik: 2014.64 commander.v3.light.clik: -7.07 CAMspec.v6.2TN_2013.01.18.clik: 7817.91 actspt_2013.01.clik: 694.70

14.16 base_omegak_planck_CAMspec_lowl_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02228	$0.02217^{+0.00057}_{-0.00053}$	β_3^2	-0.11	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9891	$0.986^{+0.041}_{-0.039}$
$\Omega_c h^2$	0.11807	$0.1186^{+0.0050}_{-0.0049}$	β_4^2	-0.15	$0.3^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9893	$0.989^{+0.019}_{-0.018}$
θ	1.04161	$1.0415^{+0.0013}_{-0.0013}$	β_5^2	-0.22	$-0.4^{+2.0}_{-1.9}$	c_{SPT}^{220}	1.0159	$1.023^{+0.044}_{-0.044}$
τ	0.0992	$0.096^{+0.025}_{-0.024}$	β_1^3	0.17	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6967	$0.691^{+0.019}_{-0.020}$
Ω_K	-0.0001	$-0.0007^{+0.0063}_{-0.0068}$	β_2^3	-0.42	$-0.6^{+2.0}_{-1.8}$	Ω_m	0.3034	$0.310^{+0.020}_{-0.019}$
n_s	0.9651	$0.961^{+0.014}_{-0.014}$	β_3^3	0.08	$0.2^{+1.9}_{-1.8}$	σ_8	0.0692	$0.827^{+0.023}_{-0.023}$
$\log[10^{10} A_s]$	3.1043	$3.097^{+0.045}_{-0.045}$	β_4^3	-0.38	$-0.4^{+1.9}_{-2.0}$	z_{re}	11.80	$11.5^{+2.0}_{-2.0}$
A_{100}^{PS}	156	184^{+80}_{-80}	β_5^3	-0.16	$-0.4^{+2.0}_{-1.9}$	H_0	68.17	$67.6^{+1.9}_{-2.0}$
A_{143}^{PS}	74.0	75^{+20}_{-20}	β_1^4	-0.097	$-0.3^{+1.8}_{-1.9}$	$10^9 A_s$	2.229	$2.21^{+0.10}_{-0.098}$
A_{217}^{PS}	59.0	63^{+20}_{-20}	β_2^4	-0.19	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14099	$0.1414^{+0.0047}_{-0.0046}$
A_{143}^{CIB}	3.20	—	β_3^4	0.09	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09612	$0.0956^{+0.0046}_{-0.0045}$
A_{217}^{CIB}	50.1	44^{+9}_{-9}	β_4^4	0.09	$0.2^{+2.1}_{-1.9}$	Y_{He}	0.247803	$0.24775^{+0.00024}_{-0.00023}$
A_{143}^{tSZ}	5.64	—	β_5^4	0.18	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8283	$1.828^{+0.024}_{-0.022}$
$r_{PS143/217}$	0.865	> 0.708	$A_{\text{PS,ACT}}^{148}$	10.69	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.780	$13.83^{+0.26}_{-0.26}$
r_{CIB}	0.995	—	$A_{\text{PS,ACT}}^{218}$	78.9	$81.5^{+7.6}_{-7.8}$	z_*	1089.96	$1090.2^{+1.0}_{-0.97}$
n^{CIB}	0.559	$0.49^{+0.13}_{-0.14}$	$A_{\text{PS,SPT}}^{95}$	7.03	$7.56^{+3.1}_{-2.7}$	r_*	144.99	$145.0^{+1.1}_{-1.1}$
$c_{100/143}$	1.00059	$1.00063^{+0.00075}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.33	$10.3^{+1.0}_{-0.91}$	θ_*	1.04175	$1.0416^{+0.0012}_{-0.0013}$
$c_{217/143}$	0.99984	$0.9994^{+0.0022}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	74.7	$78.0^{+8.0}_{-7.7}$	z_{drag}	1059.67	$1059.4^{+1.2}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.812	> 0.663	r_{drag}	147.69	$147.7^{+1.1}_{-1.1}$
A^{kSZ}	0.06	—	$r_{\text{PS}}^{95/220}$	0.581	$0.56^{+0.24}_{-0.20}$	k_D	0.14007	$0.1400^{+0.0012}_{-0.0012}$
β_1^1	0.55	$0.5^{+1.5}_{-1.5}$	$r_{\text{PS}}^{150/220}$	0.9170	> 0.906	θ_D	0.16116	$0.16129^{+0.00062}_{-0.00064}$
β_2^1	0.05	$0.0^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.434	< 0.767	z_{EQ}	3354	3363^{+110}_{-110}
β_3^1	0.13	$0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.928	$0.85^{+0.38}_{-0.37}$	θ_{EQ}	0.8224	$0.821^{+0.022}_{-0.021}$
β_4^1	0.02	$0.0^{+2.1}_{-1.9}$	c_{ACTs}^{148}	0.9944	$0.993^{+0.014}_{-0.013}$	$r_s/D_v(0.57)$	0.07208	$0.0717^{+0.0015}_{-0.0015}$
β_5^1	-0.42	$-0.1^{+2.0}_{-1.9}$	c_{ACTs}^{217}	1.0020	$1.005^{+0.025}_{-0.026}$	$H(0.57)$	0.0003110	$0.0003098^{+0.0000065}_{-0.0000065}$
β_1^2	-0.31	$-1.14^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9910	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1380.1	1389^{+34}_{-32}
β_2^2	-0.01	$-0.3^{+2.1}_{-2.0}$	c_{ACTe}^{217}	0.9600	$0.964^{+0.021}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10534.09$; R-1 = 0.11064

χ_{eff}^2 : BAO - DR9: 0.58 6DF: 0.04 DR7: 0.65 CMB - lowlike_v22.light.clik: 2014.85 lensing_likelihood_v3_ref.clik.lensing: 11.02 commander_v3.light.clik: -7.46 CAMspec_v6.2TN_2013_01_18.clik: 7821.20 actspt_2013_01.clik: 692.78

14.17 base_omegak_planck_CAMspec_lowl_lowLike_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02214	$0.02222^{+0.00059}_{-0.00060}$	β_1^1	0.55	$0.5^{+1.6}_{-1.6}$	σ_8	0.8270	$0.822^{+0.030}_{-0.030}$
$\Omega_c h^2$	0.1182	$0.1176^{+0.0055}_{-0.0054}$	β_2^1	0.39	$0.1^{+1.9}_{-1.9}$	z_{re}	11.52	$11.3^{+2.3}_{-2.2}$
θ	1.04148	$1.0416^{+0.0013}_{-0.0013}$	β_3^1	0.01	$0.0^{+2.0}_{-2.0}$	H_0	68.0	69^{+9}_{-8}
τ	0.0953	$0.093^{+0.028}_{-0.025}$	β_4^1	0.08	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.212	$2.20^{+0.12}_{-0.11}$
Ω_K	-0.0001	$0.000^{+0.016}_{-0.020}$	β_5^1	0.14	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1409	$0.1405^{+0.0051}_{-0.0050}$
n_s	0.9645	$0.966^{+0.016}_{-0.016}$	β_1^2	0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.0958	$0.096^{+0.014}_{-0.012}$
$\log[10^{10} A_s]$	3.097	$3.090^{+0.054}_{-0.049}$	β_2^2	0.59	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247741	$0.24778^{+0.00025}_{-0.00026}$
α_{SNLS}	1.417	$1.43^{+0.22}_{-0.20}$	β_3^2	-0.20	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8284	$1.824^{+0.025}_{-0.024}$
β_{SNLS}	3.223	$3.26^{+0.23}_{-0.22}$	β_4^2	0.23	$0.1^{+2.0}_{-1.9}$	Age/Gyr	13.80	$13.77^{+0.84}_{-0.85}$
A_{100}^{PS}	146	149^{+100}_{-100}	β_5^2	-0.08	$-0.1^{+1.9}_{-1.9}$	z_*	1090.15	$1090.0^{+1.1}_{-1.1}$
A_{143}^{PS}	54.5	52^{+30}_{-30}	β_1^3	0.08	$-0.1^{+1.9}_{-1.9}$	r_*	145.08	$145.2^{+1.2}_{-1.2}$
A_{217}^{PS}	110.4	118^{+30}_{-30}	β_2^3	-0.04	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04164	$1.0417^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	6.56	—	β_3^3	-0.09	$0.0^{+1.9}_{-1.9}$	z_{drag}	1059.36	$1059.5^{+1.2}_{-1.2}$
A_{217}^{CIB}	28.5	21^{+10}_{-10}	β_4^3	-0.42	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.83	$147.9^{+1.2}_{-1.2}$
A_{143}^{tSZ}	6.31	—	β_5^3	-0.099	$-0.1^{+2.0}_{-2.0}$	k_D	0.13981	$0.1398^{+0.0012}_{-0.0013}$
$r_{PS143/217}$	0.864	> 0.667	β_1^4	0.09	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16134	$0.16126^{+0.00068}_{-0.00064}$
r_{CIB}	0.454	—	β_2^4	-0.03	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3352	3342^{+120}_{-120}
n^{CIB}	0.414	$0.24^{+0.26}_{-0.30}$	β_3^4	0.46	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8221	$0.825^{+0.024}_{-0.024}$
$c_{100/143}$	1.00065	$1.00061^{+0.00076}_{-0.00078}$	β_4^4	0.26	$0.0^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.0720	$0.0725^{+0.0069}_{-0.0060}$
$c_{217/143}$	0.99719	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.07	$0.1^{+1.9}_{-1.9}$	$H(0.57)$	0.0003105	$0.000312^{+0.000025}_{-0.000021}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.695	$0.699^{+0.054}_{-0.058}$	$DA(0.57)$	1383	1377^{+130}_{-130}
A^{kSZ}	0.7	—	Ω_m	0.305	$0.302^{+0.077}_{-0.069}$			

Best-fit $\chi_{\text{eff}}^2 = 10230.56$; R-1 = 0.03740

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.50 commander_v3.light.clik: -7.66 CAMspec_v6.2TN_2013_01_18.clik: 7799.98 SN - SNLS
 April_2012: 423.75

14.18 base_omegak_planck_CAMspec_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02217	$0.02228^{+0.00060}_{-0.00060}$	β_1^1	0.40	$0.5^{+1.6}_{-1.6}$	σ_8	0.0698	$0.822^{+0.031}_{-0.029}$
$\Omega_c h^2$	0.1187	$0.1176^{+0.0054}_{-0.0053}$	β_2^1	0.08	$0.1^{+1.9}_{-2.0}$	z_{re}	11.57	$11.4^{+2.3}_{-2.1}$
θ	1.04143	$1.0416^{+0.0013}_{-0.0013}$	β_3^1	-0.19	$0.0^{+2.0}_{-2.0}$	H_0	69.1	$66.8^{+5.8}_{-5.6}$
τ	0.0957	$0.095^{+0.028}_{-0.024}$	β_4^1	0.01	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.216	$2.21^{+0.12}_{-0.10}$
Ω_K	0.0025	$-0.004^{+0.013}_{-0.016}$	β_5^1	-0.28	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1415	$0.1405^{+0.0050}_{-0.0049}$
n_s	0.9641	$0.967^{+0.016}_{-0.016}$	β_1^2	-0.01	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.0978	$0.0939^{+0.0097}_{-0.0094}$
$\log[10^{10} A_s]$	3.098	$3.095^{+0.053}_{-0.047}$	β_2^2	0.06	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247752	$0.24780^{+0.00025}_{-0.00026}$
α_{SNLS}	1.425	$1.43^{+0.23}_{-0.20}$	β_3^2	-0.19	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8297	$1.825^{+0.024}_{-0.024}$
β_{SNLS}	3.262	$3.26^{+0.23}_{-0.22}$	β_4^2	0.23	$0.0^{+2.0}_{-2.0}$	Age/Gyr	13.67	$13.94^{+0.65}_{-0.62}$
A_{100}^{PS}	190	145^{+100}_{-100}	β_5^2	-0.17	$-0.1^{+1.9}_{-1.9}$	z_*	1090.16	$1089.9^{+1.1}_{-1.1}$
A_{143}^{PS}	46.4	51^{+30}_{-30}	β_1^3	-0.31	$-0.1^{+2.0}_{-1.9}$	r_*	144.92	$145.1^{+1.2}_{-1.2}$
A_{217}^{PS}	120.1	118^{+30}_{-30}	β_2^3	0.00	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04158	$1.0417^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	11.2	—	β_3^3	0.12	$0.0^{+2.0}_{-1.9}$	z_{drag}	1059.44	$1059.6^{+1.2}_{-1.2}$
A_{217}^{CIB}	23.5	21^{+10}_{-9}	β_4^3	-0.20	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.66	$147.8^{+1.2}_{-1.1}$
A_{143}^{tSZ}	3.50	—	β_5^3	-0.26	$-0.1^{+2.0}_{-1.9}$	k_D	0.14001	$0.1399^{+0.0012}_{-0.0012}$
$r_{PS143/217}$	0.788	> 0.671	β_1^4	-0.21	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16127	$0.16118^{+0.00068}_{-0.00062}$
r_{CIB}	0.463	—	β_2^4	-0.04	$-0.1^{+2.1}_{-2.0}$	z_{EQ}	3365	3342^{+120}_{-120}
n^{CIB}	0.289	$0.25^{+0.26}_{-0.29}$	β_3^4	-0.08	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8198	$0.825^{+0.024}_{-0.023}$
$c_{100/143}$	1.00055	$1.00061^{+0.00077}_{-0.00078}$	β_4^4	0.23	$0.0^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07284	$0.0711^{+0.0045}_{-0.0043}$
$c_{217/143}$	0.99634	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.20	$0.1^{+2.0}_{-2.0}$	$H(0.57)$	0.0003139	$0.000307^{+0.00017}_{-0.00016}$
$\xi^{tSZ-CIB}$	0.03	—	Ω_Λ	0.7013	$0.688^{+0.037}_{-0.041}$	$DA(0.57)$	1364	1404^{+99}_{-94}
A^{kSZ}	0.7	—	Ω_m	0.296	$0.316^{+0.054}_{-0.047}$			

Best-fit $\chi_{\text{eff}}^2 = 10239.44$; R-1 = 0.06119

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.41 lensing_likelihood.v3.ref.clik.lensing: 11.46 commander.v3.light.clik: -7.26 CAMspec.v6.2TN_2013_01_18.clik
7797.77 SN - SNLS April.2012: 423.05

14.19 base_omegak_planck_CAMspec_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02224	$0.02223^{+0.00058}_{-0.00059}$	β_1^1	0.64	$0.5^{+1.6}_{-1.6}$	σ_8	0.8251	$0.822^{+0.027}_{-0.028}$
$\Omega_c h^2$	0.1173	$0.1176^{+0.0055}_{-0.0055}$	β_2^1	-0.08	$0.1^{+1.9}_{-1.8}$	z_{re}	11.67	$11.2^{+2.3}_{-2.2}$
θ	1.04164	$1.0416^{+0.0012}_{-0.0013}$	β_3^1	1.02	$0.0^{+2.1}_{-2.1}$	H_0	68.42	$68.1^{+2.0}_{-2.0}$
τ	0.0977	$0.093^{+0.028}_{-0.025}$	β_4^1	0.39	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.216	$2.20^{+0.12}_{-0.11}$
Ω_K	-0.0001	$-0.0005^{+0.0064}_{-0.0067}$	β_5^1	0.43	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1402	$0.1404^{+0.0050}_{-0.0051}$
n_s	0.9668	$0.966^{+0.016}_{-0.016}$	β_1^2	0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.09592	$0.0957^{+0.0047}_{-0.0045}$
$\log[10^{10} A_s]$	3.098	$3.089^{+0.055}_{-0.051}$	β_2^2	0.08	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247784	$0.24778^{+0.00025}_{-0.00026}$
α_{SNLS}	1.412	$1.42^{+0.22}_{-0.20}$	β_3^2	0.14	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8224	$1.824^{+0.025}_{-0.025}$
β_{SNLS}	3.260	$3.26^{+0.23}_{-0.22}$	β_4^2	0.07	$0.0^{+2.1}_{-1.9}$	Age/Gyr	13.780	$13.80^{+0.27}_{-0.26}$
A_{100}^{PS}	160	148^{+100}_{-100}	β_5^2	-0.36	$-0.1^{+2.0}_{-1.9}$	z_*	1089.95	$1090.0^{+1.1}_{-1.1}$
A_{143}^{PS}	44	52^{+30}_{-30}	β_1^3	-0.30	$0.0^{+2.0}_{-1.9}$	r_*	145.22	$145.2^{+1.3}_{-1.2}$
A_{217}^{PS}	105.6	118^{+30}_{-30}	β_2^3	-0.44	$-0.1^{+2.0}_{-1.9}$	θ_*	1.04178	$1.0417^{+0.0012}_{-0.0013}$
A_{143}^{CIB}	12.6	—	β_3^3	-0.24	$0.0^{+1.9}_{-2.0}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.2}$
A_{217}^{CIB}	30.6	21^{+10}_{-9}	β_4^3	-0.06	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.95	$147.9^{+1.2}_{-1.2}$
A_{143}^{tSZ}	7.02	—	β_5^3	0.11	$-0.1^{+1.9}_{-2.0}$	k_D	0.13977	$0.1398^{+0.0013}_{-0.0013}$
$r_{PS143/217}$	0.885	> 0.667	β_1^4	-0.21	$0.0^{+2.0}_{-2.0}$	θ_D	0.16125	$0.16125^{+0.00067}_{-0.00064}$
r_{CIB}	0.529	—	β_2^4	0.00	$-0.1^{+2.1}_{-2.0}$	z_{EQ}	3334	3340^{+120}_{-120}
n^{CIB}	0.425	$0.24^{+0.26}_{-0.29}$	β_3^4	-0.07	$-0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8258	$0.825^{+0.025}_{-0.023}$
$c_{100/143}$	1.00047	$1.00060^{+0.00080}_{-0.00076}$	β_4^4	-0.39	$0.0^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07232	$0.0721^{+0.0015}_{-0.0015}$
$c_{217/143}$	0.99649	$0.9966^{+0.0026}_{-0.0026}$	β_5^4	0.42	$0.1^{+2.0}_{-1.8}$	$H(0.57)$	0.0003112	$0.0003106^{+0.0000066}_{-0.0000064}$
$\xi^{tSZ-CIB}$	0.16	—	Ω_Λ	0.7006	$0.698^{+0.020}_{-0.021}$	$DA(0.57)$	1377.1	1382^{+34}_{-33}
A^{kSZ}	0.0	—	Ω_m	0.2995	$0.303^{+0.021}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10233.16$; R-1 = 0.08970

χ_{eff}^2 : BAO - DR7: 0.33 6DF: 0.06 DR9: 0.94 CMB - lowlike.v22.light.clik: 2014.63 commander.v3.light.clik: -8.11 CAMspec.v6.2TN_2013_01_18.clik: 7802.07 SN - SNLS April.2012: 423.24

14.20 base_omegak_planck_CAMspec_lowl_lowLike_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02217	$0.02228^{+0.00061}_{-0.00061}$	β_2^1	-0.46	$0.1^{+1.9}_{-1.9}$	σ_8	0.8308	$0.816^{+0.031}_{-0.031}$
$\Omega_c h^2$	0.1190	$0.1176^{+0.0055}_{-0.0052}$	β_3^1	0.23	$0.0^{+2.0}_{-1.9}$	z_{re}	11.71	$11.1^{+2.2}_{-2.1}$
θ	1.04150	$1.0416^{+0.0013}_{-0.0013}$	β_4^1	-0.32	$0.0^{+1.9}_{-1.9}$	H_0	67.0	64^{+8}_{-7}
τ	0.0974	$0.092^{+0.028}_{-0.025}$	β_5^1	0.43	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s$	2.225	$2.19^{+0.12}_{-0.10}$
Ω_K	-0.0015	$-0.011^{+0.020}_{-0.022}$	β_1^2	-0.18	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1418	$0.1406^{+0.0051}_{-0.0049}$
n_s	0.9622	$0.966^{+0.016}_{-0.016}$	β_2^2	0.20	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0950	$0.090^{+0.013}_{-0.011}$
$\log[10^{10} A_s]$	3.102	$3.088^{+0.053}_{-0.048}$	β_3^2	0.01	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247753	$0.24780^{+0.00026}_{-0.00026}$
A_{100}^{PS}	195	144^{+100}_{-100}	β_4^2	0.22	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8309	$1.825^{+0.025}_{-0.025}$
A_{143}^{PS}	40	51^{+30}_{-30}	β_5^2	-0.32	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.87	$14.24^{+0.80}_{-0.88}$
A_{217}^{PS}	99.1	119^{+30}_{-30}	β_1^3	0.05	$-0.1^{+1.9}_{-1.9}$	z_*	1090.19	$1089.9^{+1.1}_{-1.1}$
A_{143}^{CIB}	18.0	—	β_2^3	-0.05	$-0.1^{+2.0}_{-1.9}$	r_*	144.83	$145.1^{+1.2}_{-1.2}$
A_{217}^{CIB}	34.6	20^{+10}_{-9}	β_3^3	0.07	$0.0^{+2.0}_{-1.9}$	θ_*	1.04164	$1.0418^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	3.12	—	β_4^3	-0.30	$-0.1^{+2.0}_{-1.9}$	z_{drag}	1059.47	$1059.6^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.952	> 0.674	β_5^3	-0.23	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.57	$147.8^{+1.2}_{-1.2}$
r_{CIB}	0.447	—	β_1^4	-0.16	$-0.1^{+1.9}_{-1.9}$	k_D	0.14011	$0.1399^{+0.0012}_{-0.0012}$
n^{CIB}	0.518	$0.24^{+0.26}_{-0.31}$	β_2^4	0.13	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16127	$0.16119^{+0.00069}_{-0.00067}$
$c_{100/143}$	1.00056	$1.00062^{+0.00077}_{-0.00078}$	β_3^4	0.09	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3374	3343^{+120}_{-120}
$c_{217/143}$	0.99601	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.21	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8183	$0.825^{+0.024}_{-0.024}$
$\xi^{tSZ-CIB}$	0.21	—	β_5^4	0.37	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.0712	$0.0689^{+0.0065}_{-0.0052}$
A^{kSZ}	0.3	—	Ω_Λ	0.686	$0.663^{+0.061}_{-0.063}$	$H(0.57)$	0.0003085	$0.000300^{+0.000023}_{-0.000019}$
β_1^1	0.23	$0.5^{+1.6}_{-1.6}$	Ω_m	0.316	$0.348^{+0.083}_{-0.079}$	$DA(0.57)$	1398	1455^{+130}_{-140}

Best-fit $\chi_{\text{eff}}^2 = 9938.63$; R-1 = 0.02679

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.86 commander.v3.light.clik: -7.20 CAMspec.v6.2TN_2013_01_18.clik: 7800.40 SN - Union2.1: 130.57

14.21 base_omegak_planck_CAMspec_lowl_lowLike_Union2_post_BAO

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02221^{+0.00061}_{-0.00059}$	β_2^1	$0.1^{+1.8}_{-1.9}$	σ_8	$0.823^{+0.027}_{-0.029}$
$\Omega_c h^2$	$0.1180^{+0.0053}_{-0.0052}$	β_3^1	$0.0^{+2.0}_{-1.9}$	z_{re}	$11.2^{+2.1}_{-2.2}$
θ	$1.0416^{+0.0012}_{-0.0012}$	β_4^1	$0.0^{+1.9}_{-1.9}$	H_0	$67.9^{+2.0}_{-2.0}$
τ	$0.093^{+0.027}_{-0.025}$	β_5^1	$-0.1^{+1.9}_{-2.0}$	$10^9 A_s$	$2.20^{+0.11}_{-0.11}$
Ω_K	$-0.0006^{+0.0063}_{-0.0063}$	β_1^2	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	$0.1408^{+0.0050}_{-0.0049}$
n_s	$0.965^{+0.014}_{-0.015}$	β_2^2	$0.0^{+2.0}_{-1.8}$	$\Omega_m h^3$	$0.0956^{+0.0046}_{-0.0043}$
$\log[10^{10} A_s]$	$3.090^{+0.050}_{-0.050}$	β_3^2	$0.0^{+1.9}_{-2.0}$	Y_{He}	$0.24777^{+0.00026}_{-0.00026}$
A_{100}^{PS}	148^{+100}_{-100}	β_4^2	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	$1.826^{+0.026}_{-0.024}$
A_{143}^{PS}	52^{+30}_{-30}	β_5^2	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	$13.81^{+0.26}_{-0.25}$
A_{217}^{PS}	119^{+30}_{-30}	β_1^3	$-0.1^{+1.9}_{-1.9}$	z_*	$1090.1^{+1.1}_{-1.1}$
A_{143}^{CIB}	—	β_2^3	$-0.1^{+2.0}_{-2.0}$	r_*	$145.1^{+1.2}_{-1.2}$
A_{217}^{CIB}	21^{+10}_{-10}	β_3^3	$-0.1^{+2.0}_{-2.0}$	θ_*	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	—	β_4^3	$-0.1^{+1.9}_{-1.9}$	z_{drag}	$1059.5^{+1.2}_{-1.2}$
$r_{PS143/217}$	> 0.674	β_5^3	$-0.1^{+1.9}_{-2.0}$	r_{drag}	$147.8^{+1.2}_{-1.1}$
r_{CIB}	—	β_1^4	$-0.1^{+1.9}_{-1.9}$	k_D	$0.1399^{+0.0012}_{-0.0013}$
n^{CIB}	$0.24^{+0.26}_{-0.31}$	β_2^4	$0.0^{+2.0}_{-1.9}$	θ_D	$0.16127^{+0.00073}_{-0.00067}$
$c_{100/143}$	$1.00061^{+0.00075}_{-0.00080}$	β_3^4	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3350^{+120}_{-120}
$c_{217/143}$	$0.9965^{+0.0025}_{-0.0027}$	β_4^4	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	$0.823^{+0.023}_{-0.022}$
$\xi^{tSZ-CIB}$	—	β_5^4	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	$0.0719^{+0.0015}_{-0.0016}$
A^{kSZ}	—	Ω_Λ	$0.695^{+0.020}_{-0.021}$	$H(0.57)$	$0.0003102^{+0.0000063}_{-0.0000064}$
β_1^1	$0.5^{+1.6}_{-1.6}$	Ω_m	$0.306^{+0.021}_{-0.020}$	$DA(0.57)$	1385^{+35}_{-33}

; R-1 = 0.08838

15 r

15.1 base_r_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02208	$0.02211^{+0.00056}_{-0.00055}$	β_3^1	0.00	$0.0^{+2.0}_{-1.9}$	r_{10}	0.0000	< 0.0625
$\Omega_c h^2$	0.1196	$0.1190^{+0.0053}_{-0.0052}$	β_4^1	0.02	$0.0^{+2.0}_{-2.0}$	H_0	67.41	$67.7^{+2.4}_{-2.4}$
θ	1.04134	$1.0414^{+0.0012}_{-0.0013}$	β_5^1	-0.11	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.125
τ	0.0951	$0.090^{+0.027}_{-0.025}$	β_1^2	0.04	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.219	$2.19^{+0.11}_{-0.10}$
n_s	0.9625	$0.963^{+0.015}_{-0.015}$	β_2^2	-0.13	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1423	$0.1417^{+0.0050}_{-0.0050}$
$\log[10^{10} A_s]$	3.0996	$3.086^{+0.050}_{-0.048}$	β_3^2	0.00	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09593	$0.0959^{+0.0012}_{-0.0011}$
r_{pivot}	0.000	< 0.132	β_4^2	0.17	$0.1^{+2.0}_{-1.9}$	Y_{He}	0.247717	$0.24773^{+0.00024}_{-0.00024}$
A_{100}^{PS}	190	147^{+100}_{-100}	β_5^2	-0.22	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8347	$1.830^{+0.025}_{-0.025}$
A_{143}^{PS}	58.6	52^{+30}_{-30}	β_1^3	-0.10	$0.0^{+1.8}_{-1.9}$	Age/Gyr	13.812	$13.804^{+0.095}_{-0.097}$
A_{217}^{PS}	124.6	119^{+30}_{-30}	β_2^3	-0.26	$-0.1^{+1.9}_{-1.9}$	z_*	1090.35	$1090.3^{+1.0}_{-1.0}$
A_{143}^{CIB}	9.58	—	β_3^3	0.00	$0.0^{+2.0}_{-1.9}$	r_*	144.75	$144.9^{+1.2}_{-1.2}$
A_{217}^{CIB}	22.5	21^{+10}_{-10}	β_4^3	-0.26	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04149	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	2.81	—	β_5^3	-0.32	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.32	$1059.3^{+1.2}_{-1.1}$
$r_{PS143/217}$	0.794	> 0.672	β_1^4	-0.05	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.51	$147.6^{+1.2}_{-1.2}$
r_{CIB}	0.413	—	β_2^4	0.03	$-0.1^{+1.9}_{-1.9}$	k_D	0.14010	$0.1400^{+0.0013}_{-0.0012}$
n^{CIB}	0.294	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.24	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16135	$0.16135^{+0.00067}_{-0.00065}$
$c_{100/143}$	1.00057	$1.00061^{+0.00078}_{-0.00079}$	β_4^4	-0.04	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3385	3372^{+120}_{-120}
$c_{217/143}$	0.99648	$0.9965^{+0.0026}_{-0.0025}$	β_5^4	0.07	$0.1^{+1.9}_{-2.0}$	θ_{EQ}	0.8159	$0.819^{+0.023}_{-0.022}$
$\xi^{tSZ-CIB}$	0.25	—	Ω_Λ	0.6868	$0.690^{+0.031}_{-0.034}$	$r_s/D_v(0.57)$	0.07154	$0.0718^{+0.0019}_{-0.0018}$
A^{kSZ}	0.0	—	Ω_m	0.3132	$0.310^{+0.034}_{-0.031}$	$H(0.57)$	0.00030987	$0.0003102^{+0.000036}_{-0.000033}$
β_1^1	0.46	$0.5^{+1.6}_{-1.6}$	σ_8	0.8328	$0.825^{+0.025}_{-0.025}$	$DA(0.57)$	1390.5	1387^{+32}_{-32}
β_2^1	-0.04	$0.1^{+1.9}_{-1.9}$	z_{re}	11.56	$11.0^{+2.2}_{-2.2}$			

Best-fit $\chi_{\text{eff}}^2 = 9804.01$; R-1 = 0.04256

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.62 commander_v3.light.clik: -7.17 CAMspec_v6.2TN_2013_01_18.clik: 7796.57

15.2 base_r_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02212^{+0.00054}_{-0.00053}$	β_3^1	0.04	$0.0^{+2.0}_{-1.9}$	r_{10}	0.0000	< 0.0595
$\Omega_c h^2$	0.11889	$0.1195^{+0.0044}_{-0.0044}$	β_4^1	0.05	$0.0^{+1.9}_{-2.0}$	H_0	67.78	$67.5^{+2.1}_{-2.0}$
θ	1.04144	$1.0413^{+0.0012}_{-0.0012}$	β_5^1	0.11	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.119
τ	0.0964	$0.092^{+0.026}_{-0.024}$	β_1^2	-0.06	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.221	$2.20^{+0.11}_{-0.096}$
n_s	0.9646	$0.962^{+0.014}_{-0.014}$	β_2^2	-0.01	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14173	$0.1422^{+0.0041}_{-0.0042}$
$\log[10^{10} A_s]$	3.1007	$3.092^{+0.047}_{-0.044}$	β_3^2	-0.03	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09606	$0.0960^{+0.0011}_{-0.0011}$
r_{pivot}	0.000	< 0.126	β_4^2	0.07	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.247764	$0.24773^{+0.00023}_{-0.00023}$
A_{100}^{PS}	158	146^{+100}_{-100}	β_5^2	-0.07	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8320	$1.832^{+0.021}_{-0.021}$
A_{143}^{PS}	53.5	53^{+30}_{-30}	β_1^3	-0.08	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.794	$13.807^{+0.089}_{-0.090}$
A_{217}^{PS}	125.3	119^{+30}_{-30}	β_2^3	-0.03	$-0.1^{+1.9}_{-2.0}$	z_*	1090.15	$1090.30^{+0.97}_{-0.95}$
A_{143}^{CIB}	6.72	—	β_3^3	0.05	$0.0^{+2.0}_{-1.9}$	r_*	144.84	$144.8^{+1.0}_{-0.98}$
A_{217}^{CIB}	21.1	21^{+10}_{-10}	β_4^3	-0.07	$-0.2^{+1.9}_{-2.0}$	θ_*	1.04159	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.60	—	β_5^3	-0.18	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.51	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.771	> 0.674	β_1^4	-0.09	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.58	$147.5^{+1.0}_{-0.98}$
r_{CIB}	0.480	—	β_2^4	-0.05	$-0.1^{+1.9}_{-1.9}$	k_D	0.14012	$0.1401^{+0.0011}_{-0.0011}$
n^{CIB}	0.226	$0.24^{+0.26}_{-0.30}$	β_3^4	0.00	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16123	$0.16131^{+0.00066}_{-0.00064}$
$c_{100/143}$	1.00059	$1.00061^{+0.00078}_{-0.00079}$	β_4^4	0.00	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3371	3383^{+98}_{-100}
$c_{217/143}$	0.99660	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.13	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8188	$0.817^{+0.019}_{-0.018}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6915	$0.687^{+0.027}_{-0.028}$	$r_s/D_v(0.57)$	0.07180	$0.0716^{+0.0016}_{-0.0015}$
A^{kSZ}	0.0	—	Ω_m	0.3085	$0.313^{+0.028}_{-0.027}$	$H(0.57)$	0.00031048	$0.0003101^{+0.000032}_{-0.000030}$
β_1^1	0.57	$0.5^{+1.6}_{-1.6}$	σ_8	0.0690	$0.829^{+0.019}_{-0.019}$	$DA(0.57)$	1385.3	1389^{+27}_{-28}
β_2^1	0.02	$0.1^{+1.9}_{-1.9}$	z_{re}	11.61	$11.2^{+2.1}_{-2.1}$			

Best-fit $\chi_{\text{eff}}^2 = 9814.61$; R-1 = 0.01730

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.63 lensing_likelihood_v3.ref.clik.lensing: 11.13 commander_v3.light.clik: -7.54 CAMspec.v6.2TN_2013_01_18.clik
7796.39

15.3 base_r_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022190	$0.02215^{+0.00049}_{-0.00048}$	β_3^1	-0.02	$0.0^{+2.0}_{-1.9}$	r_{10}	0.0000	< 0.0632
$\Omega_c h^2$	0.11867	$0.1184^{+0.0035}_{-0.0034}$	β_4^1	0.01	$0.0^{+1.9}_{-2.0}$	H_0	67.89	$67.9^{+1.5}_{-1.5}$
θ	1.04156	$1.0415^{+0.0011}_{-0.0011}$	β_5^1	-0.15	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.126
τ	0.0965	$0.091^{+0.026}_{-0.024}$	β_1^2	-0.13	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.219	$2.19^{+0.11}_{-0.10}$
n_s	0.9641	$0.965^{+0.012}_{-0.012}$	β_2^2	-0.08	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14150	$0.1412^{+0.0033}_{-0.0033}$
$\log[10^{10} A_s]$	3.0998	$3.087^{+0.051}_{-0.048}$	β_3^2	0.03	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09607	$0.0959^{+0.0011}_{-0.0011}$
r_{pivot}	0.000	< 0.133	β_4^2	-0.05	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247763	$0.24774^{+0.00021}_{-0.00021}$
A_{100}^{PS}	157	146^{+100}_{-100}	β_5^2	-0.21	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8297	$1.827^{+0.018}_{-0.018}$
A_{143}^{PS}	49.2	52^{+30}_{-30}	β_1^3	-0.28	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.791	$13.795^{+0.074}_{-0.074}$
A_{217}^{PS}	118.6	119^{+30}_{-30}	β_2^3	-0.28	$-0.1^{+1.9}_{-1.9}$	z_*	1090.13	$1090.16^{+0.79}_{-0.77}$
A_{143}^{CIB}	8.76	—	β_3^3	0.00	$0.0^{+2.0}_{-2.0}$	r_*	144.90	$145.01^{+0.85}_{-0.85}$
A_{217}^{CIB}	23.1	21^{+10}_{-10}	β_4^3	-0.24	$-0.2^{+1.9}_{-2.0}$	θ_*	1.04170	$1.0416^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	5.91	—	β_5^3	-0.06	$-0.1^{+1.9}_{-1.9}$	z_{drag}	1059.51	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.817	> 0.672	β_1^4	-0.29	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.64	$147.76^{+0.90}_{-0.89}$
r_{CIB}	0.487	—	β_2^4	-0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.14005	$0.1399^{+0.0011}_{-0.0011}$
n^{CIB}	0.287	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.18	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16126	$0.16132^{+0.00064}_{-0.00062}$
$c_{100/143}$	1.00056	$1.00061^{+0.00079}_{-0.00080}$	β_4^4	-0.10	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3366	3358^{+80}_{-78}
$c_{217/143}$	0.99646	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.03	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8198	$0.821^{+0.015}_{-0.015}$
$\xi^{tSZ-CIB}$	0.20	—	Ω_Λ	0.6930	$0.694^{+0.020}_{-0.021}$	$r_s/D_v(0.57)$	0.07189	$0.0720^{+0.0012}_{-0.0012}$
A^{kSZ}	1.79	—	Ω_m	0.3070	$0.306^{+0.021}_{-0.020}$	$H(0.57)$	0.00031064	$0.0003106^{+0.0000025}_{-0.0000024}$
β_1^1	0.59	$0.5^{+1.6}_{-1.6}$	σ_8	0.8299	$0.824^{+0.023}_{-0.022}$	$DA(0.57)$	1383.8	1383^{+21}_{-21}
β_2^1	0.05	$0.1^{+1.9}_{-1.9}$	z_{re}	11.62	$11.1^{+2.1}_{-2.1}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.70$; R-1 = 0.01923

χ_{eff}^2 : BAO - DR7: 0.98 6DF: 0.02 DR9: 0.36 CMB - lowlike.v22.light.clik: 2014.63 commander.v3.light.clik: -7.47 CAMspec.v6.2TN.2013.01.18.clik: 7797.18

15.4 base_r_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02231	$0.02231^{+0.00054}_{-0.00053}$	β_3^1	-0.03	$0.0^{+2.0}_{-1.9}$	r_{10}	0.0000	< 0.0678
$\Omega_c h^2$	0.11682	$0.1164^{+0.0048}_{-0.0046}$	β_4^1	-0.09	$-0.1^{+2.0}_{-1.9}$	H_0	68.72	$68.9^{+2.2}_{-2.1}$
θ	1.04174	$1.0418^{+0.0012}_{-0.0012}$	β_5^1	-0.04	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.136
τ	0.0971	$0.094^{+0.027}_{-0.025}$	β_1^2	0.00	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.213	$2.20^{+0.12}_{-0.11}$
n_s	0.9692	$0.970^{+0.014}_{-0.014}$	β_2^2	0.098	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.13978	$0.1394^{+0.0045}_{-0.0043}$
$\log[10^{10} A_s]$	3.097	$3.089^{+0.052}_{-0.049}$	β_3^2	-0.04	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09606	$0.0960^{+0.0012}_{-0.0011}$
r_{pivot}	0.000	< 0.141	β_4^2	0.05	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247816	$0.24781^{+0.00023}_{-0.00023}$
A_{100}^{PS}	165	144^{+100}_{-100}	β_5^2	-0.07	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8224	$1.819^{+0.023}_{-0.022}$
A_{143}^{PS}	52.3	51^{+30}_{-30}	β_1^3	-0.02	$-0.1^{+1.8}_{-1.8}$	Age/Gyr	13.764	$13.760^{+0.088}_{-0.090}$
A_{217}^{PS}	124.0	118^{+30}_{-30}	β_2^3	-0.14	$-0.1^{+1.9}_{-2.0}$	z_*	1089.81	$1089.78^{+0.95}_{-0.95}$
A_{143}^{CIB}	8.07	—	β_3^3	-0.08	$0.0^{+2.0}_{-2.0}$	r_*	145.29	$145.4^{+1.1}_{-1.1}$
A_{217}^{CIB}	22.0	21^{+10}_{-10}	β_4^3	-0.09	$-0.2^{+1.9}_{-2.0}$	θ_*	1.04189	$1.0419^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.62	—	β_5^3	-0.12	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.67	$1059.6^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.781	> 0.670	β_1^4	-0.01	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.99	$148.1^{+1.1}_{-1.1}$
r_{CIB}	0.453	—	β_2^4	-0.02	$-0.1^{+1.9}_{-2.0}$	k_D	0.13977	$0.1396^{+0.0012}_{-0.0012}$
n^{CIB}	0.258	$0.24^{+0.26}_{-0.31}$	β_3^4	0.02	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16118	$0.16121^{+0.00065}_{-0.00062}$
$c_{100/143}$	1.00060	$1.00061^{+0.00080}_{-0.00078}$	β_4^4	0.00	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3325	3314^{+110}_{-100}
$c_{217/143}$	0.99652	$0.9965^{+0.0026}_{-0.0025}$	β_5^4	0.01	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8279	$0.830^{+0.021}_{-0.021}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7040	$0.706^{+0.026}_{-0.029}$	$r_s/D_v(0.57)$	0.07253	$0.0727^{+0.0017}_{-0.0017}$
A^{kSZ}	0.0	—	Ω_m	0.2960	$0.294^{+0.029}_{-0.026}$	$H(0.57)$	0.00031178	$0.0003120^{+0.000034}_{-0.000032}$
β_1^1	0.33	$0.4^{+1.6}_{-1.6}$	σ_8	0.8234	$0.819^{+0.025}_{-0.024}$	$DA(0.57)$	1372.9	1371^{+29}_{-29}
β_2^1	0.14	$0.1^{+1.9}_{-1.9}$	z_{re}	11.58	$11.3^{+2.2}_{-2.2}$			

Best-fit $\chi_{\text{eff}}^2 = 9809.08$; R-1 = 0.02212

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.51 commander.v3.light.clik: -8.54 CAMspec.v6.2TN_2013_01_18.clik: 7798.63 Hubble - HST: 4.48

15.5 base_r_planck_CAMspec_lowl_lowLike_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02222	$0.02223^{+0.00055}_{-0.00053}$	β_3^1	-0.08	$0.0^{+2.0}_{-1.9}$	r_{10}	0.0000	< 0.0657
$\Omega_c h^2$	0.11775	$0.1173^{+0.0049}_{-0.0048}$	β_4^1	-0.095	$0.0^{+2.0}_{-2.0}$	H_0	68.27	$68.4^{+2.2}_{-2.2}$
θ	1.04162	$1.0416^{+0.0012}_{-0.0012}$	β_5^1	0.07	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.131
τ	0.0978	$0.093^{+0.027}_{-0.025}$	β_1^2	0.02	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.220	$2.19^{+0.12}_{-0.10}$
n_s	0.9663	$0.967^{+0.015}_{-0.015}$	β_2^2	-0.11	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14061	$0.1402^{+0.0047}_{-0.0045}$
$\log[10^{10} A_s]$	3.100	$3.088^{+0.052}_{-0.048}$	β_3^2	-0.09	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09600	$0.0959^{+0.0011}_{-0.0011}$
r_{pivot}	0.000	< 0.138	β_4^2	0.01	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247776	$0.24778^{+0.00024}_{-0.00023}$
A_{100}^{PS}	153	145^{+100}_{-100}	β_5^2	-0.098	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8252	$1.823^{+0.024}_{-0.023}$
A_{143}^{PS}	48.5	52^{+30}_{-30}	β_1^3	0.03	$-0.1^{+1.8}_{-1.9}$	Age/Gyr	13.781	$13.778^{+0.091}_{-0.093}$
A_{217}^{PS}	124.1	119^{+30}_{-30}	β_2^3	-0.19	$-0.1^{+1.9}_{-2.0}$	z_*	1090.01	$1089.97^{+0.99}_{-0.98}$
A_{143}^{CIB}	8.06	—	β_3^3	-0.08	$0.0^{+2.0}_{-2.0}$	r_*	145.12	$145.2^{+1.1}_{-1.1}$
A_{217}^{CIB}	21.9	21^{+10}_{-10}	β_4^3	-0.09	$-0.2^{+1.9}_{-2.0}$	θ_*	1.04177	$1.0418^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	6.45	—	β_5^3	-0.13	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.775	> 0.671	β_1^4	0.07	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.85	$148.0^{+1.1}_{-1.1}$
r_{CIB}	0.542	—	β_2^4	-0.11	$-0.1^{+1.9}_{-2.0}$	k_D	0.13985	$0.1397^{+0.0012}_{-0.0012}$
n^{CIB}	0.208	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.13	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16126	$0.16127^{+0.00066}_{-0.00063}$
$c_{100/143}$	1.00062	$1.00061^{+0.00079}_{-0.00079}$	β_4^4	-0.05	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3345	3334^{+110}_{-110}
$c_{217/143}$	0.99657	$0.9965^{+0.0026}_{-0.0025}$	β_5^4	0.01	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8239	$0.826^{+0.022}_{-0.021}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6983	$0.700^{+0.028}_{-0.030}$	$r_s/D_v(0.57)$	0.07220	$0.0724^{+0.0017}_{-0.0017}$
A^{kSZ}	0.3	—	Ω_m	0.3017	$0.300^{+0.030}_{-0.028}$	$H(0.57)$	0.00031110	$0.0003113^{+0.000035}_{-0.000033}$
β_1^1	0.35	$0.5^{+1.6}_{-1.6}$	σ_8	0.8273	$0.821^{+0.025}_{-0.024}$	$DA(0.57)$	1379.0	1377^{+30}_{-29}
β_2^1	0.09	$0.1^{+1.9}_{-1.9}$	z_{re}	11.70	$11.2^{+2.2}_{-2.2}$			

Best-fit $\chi_{\text{eff}}^2 = 10232.59$; R-1 = 0.01896

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.67 commander.v3.light.clik: -7.95 CAMspec_v6.2TN_2013_01_18.clik: 7797.19 SN - SNLS
 April_2012: 428.67

15.6 base_r_planck_CAMspec_lowl_lowLike_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02210	$0.02215^{+0.00055}_{-0.00054}$	β_3^1	0.07	$0.0^{+2.0}_{-1.9}$	r_{10}	0.0000	< 0.0634
$\Omega_c h^2$	0.1191	$0.1185^{+0.0050}_{-0.0049}$	β_4^1	-0.07	$0.0^{+2.0}_{-2.0}$	H_0	67.62	$67.9^{+2.3}_{-2.3}$
θ	1.04141	$1.0415^{+0.0012}_{-0.0012}$	β_5^1	-0.05	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.127
τ	0.0971	$0.091^{+0.027}_{-0.025}$	β_1^2	0.09	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.223	$2.19^{+0.11}_{-0.10}$
n_s	0.9625	$0.965^{+0.015}_{-0.015}$	β_2^2	-0.29	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14184	$0.1412^{+0.0048}_{-0.0047}$
$\log[10^{10} A_s]$	3.1013	$3.087^{+0.051}_{-0.048}$	β_3^2	0.35	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09591	$0.0959^{+0.0011}_{-0.0011}$
r_{pivot}	0.000	< 0.133	β_4^2	0.09	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247724	$0.24774^{+0.00023}_{-0.00023}$
A_{100}^{PS}	206	146^{+100}_{-100}	β_5^2	-0.11	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8302	$1.827^{+0.025}_{-0.024}$
A_{143}^{PS}	47.8	52^{+30}_{-30}	β_1^3	-0.28	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.806	$13.796^{+0.093}_{-0.094}$
A_{217}^{PS}	115.0	119^{+30}_{-30}	β_2^3	-0.10	$-0.1^{+1.9}_{-1.9}$	z_*	1090.29	$1090.2^{+1.0}_{-0.99}$
A_{143}^{CIB}	14.1	—	β_3^3	0.04	$0.0^{+2.0}_{-2.0}$	r_*	144.86	$145.0^{+1.1}_{-1.1}$
A_{217}^{CIB}	26.7	21^{+10}_{-10}	β_4^3	-0.20	$-0.2^{+1.9}_{-2.0}$	θ_*	1.04156	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	2.97	—	β_5^3	-0.37	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.32	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.792	> 0.672	β_1^4	-0.18	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.62	$147.7^{+1.1}_{-1.1}$
r_{CIB}	0.512	—	β_2^4	0.16	$-0.1^{+1.9}_{-1.9}$	k_D	0.14000	$0.1399^{+0.0012}_{-0.0012}$
n^{CIB}	0.316	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.32	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16135	$0.16132^{+0.00066}_{-0.00064}$
$c_{100/143}$	1.00060	$1.00061^{+0.00079}_{-0.00079}$	β_4^4	-0.38	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3374	3360^{+110}_{-110}
$c_{217/143}$	0.99652	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.26	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8180	$0.821^{+0.022}_{-0.021}$
$\xi^{tSZ-CIB}$	0.17	—	Ω_Λ	0.6898	$0.693^{+0.029}_{-0.032}$	$r_s/D_v(0.57)$	0.07171	$0.0719^{+0.0018}_{-0.0017}$
A^{kSZ}	0.0	—	Ω_m	0.3102	$0.307^{+0.032}_{-0.029}$	$H(0.57)$	0.00031015	$0.0003106^{+0.000035}_{-0.000033}$
β_1^1	0.23	$0.5^{+1.6}_{-1.6}$	σ_8	0.8317	$0.824^{+0.025}_{-0.024}$	$DA(0.57)$	1387.7	1384^{+30}_{-30}
β_2^1	-0.21	$0.1^{+1.9}_{-1.9}$	z_{re}	11.71	$11.1^{+2.2}_{-2.2}$			

Best-fit $\chi_{\text{eff}}^2 = 9935.36$; R-1 = 0.01828

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.75 commander.v3.light.clik: -7.13 CAMspec.v6.2TN_2013_01_18.clik: 7797.32 SN - Union2.1: 130.41

15.7 base_r_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02213^{+0.00066}_{-0.00062}$	β_3^1	0.08	$0.0^{+2.0}_{-2.0}$	r_{10}	0.0000	< 0.0555
$\Omega_c h^2$	0.1191	$0.1189^{+0.0060}_{-0.0061}$	β_4^1	-0.17	$0.0^{+1.9}_{-1.9}$	H_0	67.64	$67.8^{+2.9}_{-2.7}$
θ	1.04136	$1.0414^{+0.0014}_{-0.0013}$	β_5^1	-0.06	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.112
τ	0.095	$0.098^{+0.075}_{-0.074}$	β_1^2	0.05	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.215	$2.23^{+0.33}_{-0.30}$
n_s	0.9633	$0.964^{+0.020}_{-0.018}$	β_2^2	-0.02	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1418	$0.1416^{+0.0056}_{-0.0057}$
$\log[10^{10} A_s]$	3.098	$3.10^{+0.14}_{-0.14}$	β_3^2	-0.05	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09593	$0.0959^{+0.0012}_{-0.0011}$
r_{pivot}	0.000	< 0.118	β_4^2	0.14	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247735	$0.24774^{+0.00028}_{-0.00027}$
A_{100}^{PS}	165	145^{+100}_{-100}	β_5^2	-0.18	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8318	$1.829^{+0.029}_{-0.029}$
A_{143}^{PS}	52.1	52^{+30}_{-30}	β_1^3	0.00	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.804	$13.80^{+0.11}_{-0.12}$
A_{217}^{PS}	124.9	119^{+30}_{-30}	β_2^3	-0.06	$-0.1^{+1.9}_{-1.9}$	z_*	1090.25	$1090.2^{+1.2}_{-1.2}$
A_{143}^{CIB}	7.53	—	β_3^3	-0.15	$0.0^{+1.9}_{-2.0}$	r_*	144.85	$144.9^{+1.3}_{-1.3}$
A_{217}^{CIB}	21.2	21^{+10}_{-10}	β_4^3	-0.17	$-0.2^{+2.0}_{-2.0}$	θ_*	1.04152	$1.0416^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.69	—	β_5^3	-0.02	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.36	$1059.4^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.780	> 0.672	β_1^4	0.02	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.61	$147.7^{+1.3}_{-1.3}$
r_{CIB}	0.436	—	β_2^4	0.04	$-0.1^{+1.9}_{-2.0}$	k_D	0.14004	$0.1400^{+0.0013}_{-0.0012}$
n^{CIB}	0.251	$0.24^{+0.26}_{-0.31}$	β_3^4	-0.15	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16131	$0.16133^{+0.00071}_{-0.00070}$
$c_{100/143}$	1.00060	$1.00060^{+0.00078}_{-0.00077}$	β_4^4	0.06	$0.1^{+1.9}_{-1.9}$	z_{EQ}	3374	3369^{+130}_{-140}
$c_{217/143}$	0.99648	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.15	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8181	$0.819^{+0.027}_{-0.025}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6900	$0.691^{+0.036}_{-0.038}$	$r_s/D_v(0.57)$	0.07172	$0.0718^{+0.0022}_{-0.0020}$
A^{kSZ}	1.24	—	Ω_m	0.3100	$0.309^{+0.038}_{-0.036}$	$H(0.57)$	0.00031018	$0.0003104^{+0.000044}_{-0.000038}$
β_1^1	0.53	$0.5^{+1.6}_{-1.7}$	σ_8	0.830	$0.832^{+0.054}_{-0.052}$	$DA(0.57)$	1387.4	1386^{+36}_{-38}
β_2^1	0.01	$0.1^{+1.9}_{-1.9}$	z_{re}	11.5	$11.5^{+5.7}_{-7.2}$			

Best-fit $\chi_{\text{eff}}^2 = 7789.14$; R-1 = 0.01911

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.40 CAMspec.v6.2TN_2013_01_18.clik: 7796.54

15.8 base_r_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02218	$0.02221^{+0.00064}_{-0.00062}$	β_3^1	-0.13	$0.0^{+2.0}_{-2.0}$	r_{10}	0.0000	< 0.0545
$\Omega_c h^2$	0.1192	$0.1183^{+0.0061}_{-0.0060}$	β_4^1	-0.24	$0.0^{+1.9}_{-1.9}$	H_0	67.67	$68.0^{+2.9}_{-2.8}$
θ	1.04142	$1.0415^{+0.0014}_{-0.0013}$	β_5^1	0.12	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.111
τ	0.096	$0.108^{+0.060}_{-0.059}$	β_1^2	-0.08	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.222	$2.27^{+0.25}_{-0.24}$
n_s	0.9633	$0.966^{+0.020}_{-0.019}$	β_2^2	-0.06	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1420	$0.1412^{+0.0057}_{-0.0056}$
$\log[10^{10} A_s]$	3.101	$3.12^{+0.11}_{-0.11}$	β_3^2	-0.19	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09608	$0.0960^{+0.0011}_{-0.0011}$
r_{pivot}	0.000	< 0.116	β_4^2	0.13	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247758	$0.24777^{+0.00027}_{-0.00027}$
A_{100}^{PS}	153	142^{+100}_{-100}	β_5^2	-0.24	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8319	$1.827^{+0.029}_{-0.029}$
A_{143}^{PS}	49.3	52^{+30}_{-30}	β_1^3	-0.19	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.798	$13.79^{+0.11}_{-0.12}$
A_{217}^{PS}	120.7	119^{+30}_{-30}	β_2^3	-0.14	$-0.1^{+2.0}_{-2.0}$	z_*	1090.19	$1090.1^{+1.2}_{-1.2}$
A_{143}^{CIB}	8.92	—	β_3^3	-0.04	$0.0^{+1.9}_{-2.0}$	r_*	144.78	$145.0^{+1.3}_{-1.3}$
A_{217}^{CIB}	23.0	20^{+10}_{-9}	β_4^3	-0.16	$-0.2^{+2.0}_{-1.9}$	θ_*	1.04157	$1.0416^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.45	—	β_5^3	-0.13	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.51	$1059.5^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.781	> 0.672	β_1^4	-0.17	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.52	$147.7^{+1.3}_{-1.2}$
r_{CIB}	0.561	—	β_2^4	-0.06	$-0.1^{+1.9}_{-1.9}$	k_D	0.14017	$0.1400^{+0.0012}_{-0.0012}$
n^{CIB}	0.225	$0.24^{+0.26}_{-0.31}$	β_3^4	-0.24	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16124	$0.16125^{+0.00069}_{-0.00067}$
$c_{100/143}$	1.00061	$1.00060^{+0.00078}_{-0.00078}$	β_4^4	0.17	$0.1^{+1.9}_{-1.9}$	z_{EQ}	3377	3358^{+140}_{-130}
$c_{217/143}$	0.99668	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.01	$0.1^{+1.9}_{-2.0}$	θ_{EQ}	0.8176	$0.822^{+0.027}_{-0.026}$
$\xi^{tSZ-CIB}$	0.13	—	Ω_Λ	0.6899	$0.694^{+0.036}_{-0.039}$	$r_s/D_v(0.57)$	0.07171	$0.0720^{+0.0022}_{-0.0021}$
A^{kSZ}	0.0	—	Ω_m	0.3101	$0.306^{+0.039}_{-0.036}$	$H(0.57)$	0.00031034	$0.0003108^{+0.000045}_{-0.000040}$
β_1^1	0.31	$0.5^{+1.6}_{-1.7}$	σ_8	0.0690	$0.838^{+0.034}_{-0.035}$	$DA(0.57)$	1386.8	1382^{+38}_{-38}
β_2^1	0.20	$0.1^{+1.9}_{-1.9}$	z_{re}	11.63	$12.4^{+4.3}_{-5.1}$			

Best-fit $\chi_{\text{eff}}^2 = 7800.22$; R-1 = 0.02431

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik_lensing: 11.15 commander.v3.light.clik: -7.26 CAMspec.v6.2TN_2013.01.18.clik: 7796.33

15.9 base_r_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02215	$0.02217^{+0.00052}_{-0.00051}$	β_3^1	0.01	$0.0^{+2.0}_{-2.0}$	r_{10}	0.0000	< 0.0563
$\Omega_c h^2$	0.11856	$0.1183^{+0.0036}_{-0.0035}$	β_4^1	-0.14	$0.0^{+2.0}_{-1.9}$	H_0	67.86	$68.0^{+1.6}_{-1.7}$
θ	1.04145	$1.0415^{+0.0012}_{-0.0011}$	β_5^1	-0.07	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.113
τ	0.095	$0.102^{+0.066}_{-0.069}$	β_1^2	-0.05	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.213	$2.24^{+0.30}_{-0.29}$
n_s	0.9645	$0.966^{+0.014}_{-0.014}$	β_2^2	-0.20	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14135	$0.1411^{+0.0034}_{-0.0033}$
$\log[10^{10} A_s]$	3.097	$3.11^{+0.13}_{-0.14}$	β_3^2	-0.11	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09592	$0.0959^{+0.0011}_{-0.0011}$
r_{pivot}	0.000	< 0.120	β_4^2	0.02	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247744	$0.24775^{+0.00022}_{-0.00022}$
A_{100}^{PS}	166	144^{+100}_{-100}	β_5^2	-0.21	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8292	$1.826^{+0.019}_{-0.019}$
A_{143}^{PS}	60.3	52^{+30}_{-30}	β_1^3	0.05	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.798	$13.792^{+0.079}_{-0.079}$
A_{217}^{PS}	126.1	119^{+30}_{-30}	β_2^3	0.03	$-0.1^{+1.9}_{-1.9}$	z_*	1090.18	$1090.12^{+0.85}_{-0.84}$
A_{143}^{CIB}	7.75	—	β_3^3	-0.03	$0.0^{+1.9}_{-2.0}$	r_*	144.97	$145.02^{+0.84}_{-0.84}$
A_{217}^{CIB}	21.3	21^{+10}_{-10}	β_4^3	-0.13	$-0.2^{+2.0}_{-2.0}$	θ_*	1.04160	$1.0417^{+0.0012}_{-0.0011}$
A_{143}^{tSZ}	5.26	—	β_5^3	0.02	$-0.1^{+1.9}_{-1.9}$	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.770	> 0.672	β_1^4	0.02	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.72	$147.77^{+0.89}_{-0.87}$
r_{CIB}	0.529	—	β_2^4	-0.02	$-0.1^{+1.9}_{-1.9}$	k_D	0.13993	$0.1399^{+0.0011}_{-0.0011}$
n^{CIB}	0.199	$0.24^{+0.26}_{-0.31}$	β_3^4	-0.28	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16131	$0.16129^{+0.00067}_{-0.00065}$
$c_{100/143}$	1.00059	$1.00061^{+0.00079}_{-0.00077}$	β_4^4	0.07	$0.1^{+1.9}_{-1.9}$	z_{EQ}	3362	3356^{+82}_{-80}
$c_{217/143}$	0.99666	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.06	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8203	$0.822^{+0.016}_{-0.016}$
$\xi^{tSZ-CIB}$	0.28	—	Ω_Λ	0.6930	$0.695^{+0.021}_{-0.022}$	$r_s/D_v(0.57)$	0.07189	$0.0720^{+0.0012}_{-0.0012}$
A^{kSZ}	0.0	—	Ω_m	0.3070	$0.305^{+0.022}_{-0.021}$	$H(0.57)$	0.00031048	$0.0003107^{+0.000027}_{-0.000026}$
β_1^1	0.47	$0.5^{+1.6}_{-1.7}$	σ_8	0.829	$0.833^{+0.054}_{-0.053}$	$DA(0.57)$	1384.5	1383^{+22}_{-22}
β_2^1	-0.01	$0.1^{+1.9}_{-1.9}$	z_{re}	11.5	$11.9^{+5.1}_{-6.5}$			

Best-fit $\chi_{\text{eff}}^2 = 7790.54$; R-1 = 0.02144

χ_{eff}^2 : BAO - DR7: 0.97 6DF: 0.01 DR9: 0.36 CMB - commander.v3.light.clik: -7.67 CAMspec.v6.2TN_2013_01_18.clik: 7796.86

15.10 base_r_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02231	$0.02242^{+0.00060}_{-0.00059}$	β_3^1	-0.02	$0.0^{+2.0}_{-2.0}$	r_{10}	0.0000	< 0.0620
$\Omega_c h^2$	0.1165	$0.1155^{+0.0053}_{-0.0053}$	β_4^1	-0.01	$0.0^{+2.0}_{-1.9}$	H_0	68.83	$69.4^{+2.6}_{-2.5}$
θ	1.04177	$1.0419^{+0.0012}_{-0.0013}$	β_5^1	-0.02	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.127
τ	0.098	$0.125^{+0.074}_{-0.077}$	β_1^2	-0.09	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.215	$2.34^{+0.35}_{-0.33}$
n_s	0.9693	$0.974^{+0.017}_{-0.018}$	β_2^2	-0.09	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.13951	$0.1386^{+0.0050}_{-0.0049}$
$\log[10^{10} A_s]$	3.098	$3.15^{+0.14}_{-0.15}$	β_3^2	-0.17	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09602	$0.0961^{+0.0011}_{-0.0011}$
r_{pivot}	0.000	< 0.131	β_4^2	0.09	$0.1^{+2.0}_{-2.0}$	Y_{He}	0.247815	$0.24786^{+0.00025}_{-0.00025}$
A_{100}^{PS}	134	137^{+100}_{-100}	β_5^2	-0.03	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8195	$1.815^{+0.026}_{-0.026}$
A_{143}^{PS}	46.6	50^{+30}_{-30}	β_1^3	-0.06	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.762	$13.74^{+0.10}_{-0.10}$
A_{217}^{PS}	125.1	119^{+20}_{-30}	β_2^3	-0.12	$-0.1^{+1.9}_{-1.9}$	z_*	1089.79	$1089.6^{+1.1}_{-1.0}$
A_{143}^{CIB}	6.66	—	β_3^3	-0.09	$0.0^{+1.9}_{-2.0}$	r_*	145.37	$145.6^{+1.2}_{-1.2}$
A_{217}^{CIB}	20.6	$19.8^{+13}_{-9.2}$	β_4^3	-0.09	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04191	$1.0421^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	7.77	—	β_5^3	-0.05	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.781	> 0.667	β_1^4	-0.05	$-0.1^{+2.0}_{-2.0}$	r_{drag}	148.07	$148.2^{+1.2}_{-1.1}$
r_{CIB}	0.551	—	β_2^4	-0.19	$-0.1^{+2.0}_{-2.0}$	k_D	0.13969	$0.1396^{+0.0012}_{-0.0013}$
n^{CIB}	0.185	$0.23^{+0.27}_{-0.32}$	β_3^4	-0.16	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16119	$0.16111^{+0.00068}_{-0.00067}$
$c_{100/143}$	1.00060	$1.00060^{+0.00076}_{-0.00077}$	β_4^4	0.04	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3318	3296^{+120}_{-120}
$c_{217/143}$	0.99646	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.07	$0.1^{+1.9}_{-2.0}$	θ_{EQ}	0.8292	$0.834^{+0.025}_{-0.023}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7055	$0.711^{+0.030}_{-0.032}$	$r_s/D_v(0.57)$	0.07262	$0.0730^{+0.0020}_{-0.0019}$
A^{kSZ}	1.07	—	Ω_m	0.2945	$0.289^{+0.032}_{-0.030}$	$H(0.57)$	0.00031189	$0.0003128^{+0.000039}_{-0.000038}$
β_1^1	0.35	$0.4^{+1.6}_{-1.7}$	σ_8	0.823	$0.842^{+0.057}_{-0.057}$	$DA(0.57)$	1371.7	1365^{+33}_{-33}
β_2^1	0.09	$0.1^{+1.9}_{-1.9}$	z_{re}	11.7	$13.6^{+5.2}_{-6.5}$			

Best-fit $\chi_{\text{eff}}^2 = 7794.24$; R-1 = 0.03193

χ_{eff}^2 : CMB - commander.v3.light.clik: -8.56 CAMspec.v6.2TN_2013_01_18.clik: 7798.50 Hubble - HST: 4.31

15.11 base_r_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02223	$0.02230^{+0.00062}_{-0.00061}$	β_3^1	0.08	$0.0^{+2.0}_{-2.0}$	r_{10}	0.0000	< 0.0599
$\Omega_c h^2$	0.1176	$0.1167^{+0.0055}_{-0.0055}$	β_4^1	-0.05	$0.0^{+2.0}_{-1.9}$	H_0	68.32	$68.8^{+2.6}_{-2.6}$
θ	1.04154	$1.0417^{+0.0013}_{-0.0013}$	β_5^1	-0.14	$0.0^{+2.0}_{-1.9}$	r	0.000	< 0.123
τ	0.098	$0.115^{+0.073}_{-0.077}$	β_1^2	0.00	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.221	$2.30^{+0.34}_{-0.32}$
n_s	0.9675	$0.970^{+0.019}_{-0.018}$	β_2^2	0.03	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1404	$0.1396^{+0.0052}_{-0.0052}$
$\log[10^{10} A_s]$	3.101	$3.13^{+0.14}_{-0.15}$	β_3^2	-0.14	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09595	$0.0960^{+0.0012}_{-0.0011}$
r_{pivot}	0.000	< 0.127	β_4^2	0.08	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247780	$0.24781^{+0.00026}_{-0.00026}$
A_{100}^{PS}	173	140^{+100}_{-100}	β_5^2	0.01	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8255	$1.819^{+0.027}_{-0.027}$
A_{143}^{PS}	53.7	51^{+30}_{-30}	β_1^3	-0.08	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.782	$13.76^{+0.11}_{-0.11}$
A_{217}^{PS}	124.4	119^{+30}_{-30}	β_2^3	-0.08	$-0.1^{+1.9}_{-1.9}$	z_*	1089.98	$1089.8^{+1.2}_{-1.1}$
A_{143}^{CIB}	7.91	—	β_3^3	-0.03	$0.0^{+1.9}_{-2.0}$	r_*	145.16	$145.3^{+1.2}_{-1.2}$
A_{217}^{CIB}	21.3	20^{+10}_{-9}	β_4^3	-0.09	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04169	$1.0419^{+0.0012}_{-0.0013}$
A_{143}^{tSZ}	3.58	—	β_5^3	-0.02	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.51	$1059.6^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.777	> 0.670	β_1^4	-0.02	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.89	$148.1^{+1.2}_{-1.2}$
r_{CIB}	0.397	—	β_2^4	-0.14	$-0.1^{+2.0}_{-1.9}$	k_D	0.13982	$0.1397^{+0.0012}_{-0.0012}$
n^{CIB}	0.271	$0.23^{+0.27}_{-0.32}$	β_3^4	-0.02	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16124	$0.16120^{+0.00069}_{-0.00067}$
$c_{100/143}$	1.00060	$1.00060^{+0.00077}_{-0.00077}$	β_4^4	0.05	$0.0^{+1.9}_{-1.9}$	z_{EQ}	3340	3321^{+120}_{-120}
$c_{217/143}$	0.99642	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.10	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8246	$0.829^{+0.025}_{-0.024}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.6991	$0.704^{+0.031}_{-0.034}$	$r_s/D_v(0.57)$	0.07224	$0.0726^{+0.0020}_{-0.0019}$
A^{kSZ}	0.9	—	Ω_m	0.3009	$0.296^{+0.034}_{-0.031}$	$H(0.57)$	0.00031113	$0.0003119^{+0.000043}_{-0.000038}$
β_1^1	0.43	$0.4^{+1.6}_{-1.7}$	σ_8	0.827	$0.838^{+0.055}_{-0.055}$	$DA(0.57)$	1378.4	1372^{+34}_{-35}
β_2^1	0.05	$0.1^{+1.9}_{-1.9}$	z_{re}	11.7	$12.8^{+5.3}_{-6.9}$			

Best-fit $\chi_{\text{eff}}^2 = 8218.23$; R-1 = 0.02058

χ_{eff}^2 : CMB - commander.v3.light.clik: -8.17 CAMspec.v6.2TN_2013_01_18.clik: 7797.79 SN - SNLS April_2012: 428.61

15.12 base_r_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02212	$0.02219^{+0.00063}_{-0.00061}$	β_3^1	-0.02	$0.0^{+2.0}_{-2.0}$	r_{10}	0.0000	< 0.0572
$\Omega_c h^2$	0.1190	$0.1181^{+0.0057}_{-0.0057}$	β_4^1	0.04	$0.0^{+2.0}_{-1.9}$	H_0	67.66	$68.1^{+2.7}_{-2.6}$
θ	1.04135	$1.0415^{+0.0013}_{-0.0013}$	β_5^1	-0.096	$0.0^{+2.0}_{-2.0}$	r	0.000	< 0.115
τ	0.097	$0.104^{+0.074}_{-0.075}$	β_1^2	0.11	$-0.1^{+1.8}_{-1.8}$	$10^9 A_s$	2.222	$2.25^{+0.33}_{-0.31}$
n_s	0.9636	$0.966^{+0.019}_{-0.018}$	β_2^2	-0.02	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.1417	$0.1410^{+0.0053}_{-0.0053}$
$\log[10^{10} A_s]$	3.101	$3.11^{+0.14}_{-0.14}$	β_3^2	-0.11	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09590	$0.0959^{+0.0012}_{-0.0011}$
r_{pivot}	0.000	< 0.122	β_4^2	0.14	$0.1^{+1.9}_{-1.9}$	Y_{He}	0.247733	$0.24776^{+0.00027}_{-0.00026}$
A_{100}^{PS}	187	143^{+100}_{-100}	β_5^2	-0.12	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8315	$1.826^{+0.027}_{-0.027}$
A_{143}^{PS}	55.5	52^{+30}_{-30}	β_1^3	-0.09	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.805	$13.79^{+0.10}_{-0.11}$
A_{217}^{PS}	123.3	119^{+30}_{-30}	β_2^3	-0.02	$-0.1^{+1.9}_{-1.9}$	z_*	1090.25	$1090.1^{+1.2}_{-1.2}$
A_{143}^{CIB}	9.77	—	β_3^3	0.01	$0.0^{+1.9}_{-2.0}$	r_*	144.88	$145.0^{+1.3}_{-1.2}$
A_{217}^{CIB}	22.6	21^{+10}_{-10}	β_4^3	-0.26	$-0.1^{+2.0}_{-2.0}$	θ_*	1.04151	$1.0417^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	2.78	—	β_5^3	-0.07	$-0.1^{+1.9}_{-2.0}$	z_{drag}	1059.36	$1059.5^{+1.2}_{-1.2}$
$r_{PS143/217}$	0.795	> 0.671	β_1^4	0.04	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.64	$147.8^{+1.2}_{-1.2}$
r_{CIB}	0.404	—	β_2^4	-0.02	$-0.1^{+2.0}_{-1.9}$	k_D	0.14000	$0.1399^{+0.0012}_{-0.0012}$
n^{CIB}	0.302	$0.24^{+0.26}_{-0.31}$	β_3^4	-0.095	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16132	$0.16129^{+0.00071}_{-0.00068}$
$c_{100/143}$	1.00060	$1.00060^{+0.00078}_{-0.00077}$	β_4^4	0.10	$0.1^{+1.9}_{-1.9}$	z_{EQ}	3371	3353^{+130}_{-130}
$c_{217/143}$	0.99640	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.19	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8185	$0.822^{+0.025}_{-0.024}$
$\xi^{tSZ-CIB}$	0.17	—	Ω_Λ	0.6904	$0.695^{+0.034}_{-0.036}$	$r_s/D_v(0.57)$	0.07174	$0.0721^{+0.0021}_{-0.0019}$
A^{kSZ}	0.7	—	Ω_m	0.3096	$0.305^{+0.036}_{-0.034}$	$H(0.57)$	0.00031020	$0.0003109^{+0.000042}_{-0.000037}$
β_1^1	0.43	$0.5^{+1.6}_{-1.7}$	σ_8	0.831	$0.834^{+0.054}_{-0.053}$	$DA(0.57)$	1387.1	1382^{+35}_{-36}
β_2^1	-0.04	$0.1^{+1.9}_{-1.9}$	z_{re}	11.7	$12.0^{+5.5}_{-7.1}$			

Best-fit $\chi_{\text{eff}}^2 = 7919.78$; R-1 = 0.01838

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.37 CAMspec.v6.2TN_2013_01_18.clik: 7796.76 SN - Union2.1: 130.40

15.13 base_r_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02208	$0.02206^{+0.00053}_{-0.00053}$	β_4^2	0.37	$0.3^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0150	$1.022^{+0.047}_{-0.043}$
$\Omega_c h^2$	0.1196	$0.1193^{+0.0054}_{-0.0051}$	β_5^2	-0.34	$-0.4^{+2.0}_{-2.0}$	Ω_Λ	0.6864	$0.688^{+0.031}_{-0.034}$
θ	1.04132	$1.0414^{+0.0012}_{-0.0012}$	β_1^3	0.85	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3136	$0.312^{+0.034}_{-0.031}$
τ	0.0957	$0.090^{+0.027}_{-0.025}$	β_2^3	-0.60	$-0.6^{+1.9}_{-1.9}$	σ_8	0.8320	$0.826^{+0.024}_{-0.025}$
n_s	0.9591	$0.960^{+0.015}_{-0.015}$	β_3^3	0.04	$0.2^{+1.9}_{-2.0}$	z_{re}	11.61	$11.1^{+2.2}_{-2.2}$
$\log[10^{10} A_s]$	3.0999	$3.086^{+0.050}_{-0.047}$	β_4^3	-0.19	$-0.5^{+1.9}_{-1.9}$	r_{10}	0.0000	< 0.0586
r_{pivot}	0.000	< 0.125	β_5^3	-0.41	$-0.3^{+2.0}_{-2.0}$	H_0	67.38	$67.5^{+2.4}_{-2.4}$
A_{100}^{PS}	183	185^{+80}_{-80}	β_1^4	-0.28	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.117
A_{143}^{PS}	75.5	76^{+20}_{-20}	β_2^4	-0.25	$-0.3^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.19^{+0.11}_{-0.10}$
A_{217}^{PS}	64.0	64^{+20}_{-20}	β_3^4	-0.19	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.1424	$0.1420^{+0.0051}_{-0.0049}$
A_{143}^{CIB}	2.89	—	β_4^4	-0.08	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09592	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	47.3	44^{+9}_{-9}	β_5^4	0.54	$0.3^{+1.9}_{-1.9}$	Y_{He}	0.247714	$0.24771^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	4.49	—	$A_{\text{PS,ACT}}^{148}$	10.42	$10.7^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8329	$1.830^{+0.026}_{-0.025}$
$r_{PS143/217}$	0.821	> 0.709	$A_{\text{PS,ACT}}^{218}$	80.6	$81.5^{+7.7}_{-7.9}$	Age/Gyr	13.813	$13.811^{+0.094}_{-0.094}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.24	$7.53^{+3.1}_{-2.7}$	z_*	1090.36	$1090.4^{+1.0}_{-1.0}$
n^{CIB}	0.519	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.04	$10.32^{+0.99}_{-0.95}$	r_*	144.74	$144.8^{+1.2}_{-1.2}$
$c_{100/143}$	1.00063	$1.00061^{+0.00077}_{-0.00079}$	$A_{\text{PS,SPT}}^{220}$	76.3	$78.0^{+8.2}_{-7.9}$	θ_*	1.04147	$1.0415^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99926	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.775	> 0.665	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.001	—	$r_{\text{PS}}^{95/220}$	0.526	$0.56^{+0.25}_{-0.21}$	r_{drag}	147.50	$147.6^{+1.2}_{-1.2}$
A^{kSZ}	2.32	—	$r_{\text{PS}}^{150/220}$	0.9155	> 0.904	k_D	0.14010	$0.1400^{+0.0012}_{-0.0013}$
β_1^1	0.73	$0.5^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.417	< 0.756	θ_D	0.16135	$0.16140^{+0.00065}_{-0.00062}$
β_2^1	-0.25	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.841	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3386	3378^{+120}_{-120}
β_3^1	0.33	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9916	$0.993^{+0.014}_{-0.014}$	θ_{EQ}	0.8156	$0.817^{+0.023}_{-0.023}$
β_4^1	0.25	$0.0^{+1.9}_{-2.0}$	c_{ACTs}^{217}	1.0038	$1.005^{+0.026}_{-0.026}$	$r_s/D_v(0.57)$	0.07152	$0.0716^{+0.0018}_{-0.0018}$
β_5^1	-0.08	$0.0^{+1.9}_{-2.0}$	c_{ACTe}^{148}	0.9878	$0.989^{+0.014}_{-0.014}$	$H(0.57)$	0.00030983	$0.0003100^{+0.000035}_{-0.000033}$
β_1^2	-1.11	$-1.15^{+1.7}_{-1.7}$	c_{ACTe}^{217}	0.9610	$0.963^{+0.020}_{-0.020}$	$DA(0.57)$	1390.9	1389^{+32}_{-31}
β_2^2	-0.45	$-0.3^{+1.9}_{-1.9}$	c_{SPT}^{95}	0.9848	$0.984^{+0.040}_{-0.037}$			
β_3^2	0.18	$0.0^{+2.0}_{-2.0}$	c_{SPT}^{150}	0.9850	$0.988^{+0.019}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.74$; R-1 = 0.03238

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.68 commander.v3.light.clik: -6.31 CAMspec.v6.2TN_2013_01_18.clik: 7817.92 actspt_2013_01.clik: 693.40

15.14 base_r_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02207^{+0.00052}_{-0.00051}$	β_4^2	0.21	$0.3^{+2.0}_{-1.9}$	c_{SPT}^{220}	1.0180	$1.022^{+0.047}_{-0.043}$
$\Omega_c h^2$	0.11934	$0.1198^{+0.0043}_{-0.0044}$	β_5^2	-0.43	$-0.4^{+2.0}_{-2.0}$	Ω_Λ	0.6887	$0.685^{+0.027}_{-0.028}$
θ	1.04144	$1.0413^{+0.0012}_{-0.0012}$	β_1^3	0.73	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3113	$0.315^{+0.028}_{-0.027}$
τ	0.0952	$0.092^{+0.026}_{-0.024}$	β_2^3	-0.30	$-0.6^{+1.9}_{-2.0}$	σ_8	0.0689	$0.829^{+0.019}_{-0.019}$
n_s	0.9608	$0.959^{+0.013}_{-0.013}$	β_3^3	0.18	$0.2^{+1.9}_{-2.0}$	z_{re}	11.54	$11.2^{+2.1}_{-2.1}$
$\log[10^{10} A_s]$	3.0989	$3.092^{+0.047}_{-0.044}$	β_4^3	-0.51	$-0.4^{+1.9}_{-1.9}$	r_{10}	0.0000	< 0.0548
r_{pivot}	0.000	< 0.119	β_5^3	-0.49	$-0.3^{+2.0}_{-1.9}$	H_0	67.57	$67.3^{+2.0}_{-2.0}$
A_{100}^{PS}	178	186^{+80}_{-80}	β_1^4	-0.05	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.110
A_{143}^{PS}	75.7	76^{+20}_{-20}	β_2^4	-0.08	$-0.3^{+2.0}_{-2.0}$	$10^9 A_s$	2.217	$2.20^{+0.10}_{-0.095}$
A_{217}^{PS}	65.0	64^{+20}_{-20}	β_3^4	-0.21	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14211	$0.1425^{+0.0041}_{-0.0042}$
A_{143}^{CIB}	2.89	—	β_4^4	0.18	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09602	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	46.5	44^{+9}_{-9}	β_5^4	0.26	$0.3^{+1.9}_{-1.9}$	Y_{He}	0.247736	$0.24771^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	4.42	—	$A_{\text{PS,ACT}}^{148}$	10.63	$10.7^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8331	$1.833^{+0.021}_{-0.021}$
$r_{PS143/217}$	0.807	> 0.709	$A_{\text{PS,ACT}}^{218}$	81.4	$81.5^{+7.7}_{-8.0}$	Age/Gyr	13.803	$13.814^{+0.087}_{-0.087}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.71	$7.57^{+3.1}_{-2.7}$	z_*	1090.27	$1090.38^{+0.93}_{-0.92}$
n^{CIB}	0.504	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.28	$10.34^{+0.99}_{-0.94}$	r_*	144.78	$144.7^{+1.0}_{-0.97}$
$c_{100/143}$	1.00065	$1.00062^{+0.00077}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	77.4	$78.0^{+8.2}_{-8.0}$	θ_*	1.04159	$1.0415^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99965	$0.9994^{+0.0022}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.764	> 0.664	z_{drag}	1059.40	$1059.3^{+1.0}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/220}$	0.510	$0.56^{+0.24}_{-0.21}$	r_{drag}	147.53	$147.5^{+1.0}_{-0.99}$
A^{kSZ}	1.69	—	$r_{\text{PS}}^{150/220}$	0.9116	> 0.904	k_D	0.14012	$0.1401^{+0.0011}_{-0.0011}$
β_1^1	0.68	$0.5^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.418	< 0.755	θ_D	0.16131	$0.16136^{+0.00064}_{-0.00062}$
β_2^1	0.05	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,e}}$	0.846	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3380	3389^{+98}_{-100}
β_3^1	0.15	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9924	$0.993^{+0.015}_{-0.014}$	θ_{EQ}	0.8169	$0.815^{+0.019}_{-0.018}$
β_4^1	0.31	$0.0^{+1.9}_{-1.9}$	c_{ACTs}^{217}	1.0030	$1.005^{+0.027}_{-0.026}$	$r_s/D_v(0.57)$	0.07165	$0.0715^{+0.0016}_{-0.0015}$
β_5^1	-0.05	$0.0^{+1.9}_{-1.9}$	c_{ACTe}^{148}	0.9887	$0.989^{+0.014}_{-0.014}$	$H(0.57)$	0.00031016	$0.0003098^{+0.0000031}_{-0.0000029}$
β_1^2	-0.70	$-1.14^{+1.8}_{-1.7}$	c_{ACTe}^{217}	0.9618	$0.963^{+0.020}_{-0.020}$	$DA(0.57)$	1388.2	1391^{+27}_{-27}
β_2^2	-0.28	$-0.3^{+2.0}_{-2.0}$	c_{SPT}^{95}	0.9848	$0.984^{+0.039}_{-0.037}$			
β_3^2	-0.02	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9869	$0.988^{+0.019}_{-0.018}$			

Best-fit $\chi_{\text{eff}}^2 = 10529.71$; R-1 = 0.01674

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.59 lensing_likelihood.v3.ref.clik.lensing: 11.15 commander.v3.light.clik: -6.69 CAMspec.v6.2TN_2013_01_18.clik: 7817.86 actspt_2013_01.clik: 692.74

15.15 base_r_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022146	$0.02212^{+0.00047}_{-0.00047}$	β_4^2	0.27	$0.3^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0173	$1.022^{+0.047}_{-0.043}$
$\Omega_c h^2$	0.11868	$0.1185^{+0.0035}_{-0.0034}$	β_5^2	-0.41	$-0.4^{+2.0}_{-2.0}$	Ω_Λ	0.6924	$0.693^{+0.020}_{-0.021}$
θ	1.04147	$1.0415^{+0.0011}_{-0.0011}$	β_1^3	0.89	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3076	$0.307^{+0.021}_{-0.020}$
τ	0.0963	$0.091^{+0.026}_{-0.024}$	β_2^3	-0.53	$-0.6^{+2.0}_{-2.0}$	σ_8	0.8289	$0.824^{+0.023}_{-0.022}$
n_s	0.9613	$0.962^{+0.011}_{-0.011}$	β_3^3	0.11	$0.2^{+1.9}_{-2.0}$	z_{re}	11.62	$11.1^{+2.1}_{-2.1}$
$\log[10^{10} A_s]$	3.0991	$3.087^{+0.050}_{-0.047}$	β_4^3	-0.56	$-0.4^{+1.9}_{-2.0}$	r_{10}	0.0000	< 0.0594
r_{pivot}	0.000	< 0.127	β_5^3	-0.10	$-0.3^{+2.0}_{-1.9}$	H_0	67.82	$67.9^{+1.5}_{-1.5}$
A_{100}^{PS}	174	186^{+80}_{-80}	β_1^4	-0.13	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.119
A_{143}^{PS}	75.4	75^{+20}_{-20}	β_2^4	-0.21	$-0.3^{+2.0}_{-2.0}$	$10^9 A_s$	2.218	$2.19^{+0.11}_{-0.10}$
A_{217}^{PS}	64.6	63^{+20}_{-20}	β_3^4	-0.03	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14147	$0.1413^{+0.0034}_{-0.0033}$
A_{143}^{CIB}	2.85	—	β_4^4	0.24	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09595	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	46.7	44^{+9}_{-9}	β_5^4	0.28	$0.3^{+1.9}_{-1.9}$	Y_{He}	0.247744	$0.24773^{+0.00020}_{-0.00020}$
A_{143}^{tSZ}	4.51	—	$A_{\text{PS,ACT}}^{148}$	10.41	$10.7^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8292	$1.827^{+0.018}_{-0.018}$
$r_{PS143/217}$	0.814	> 0.708	$A_{\text{PS,ACT}}^{218}$	80.9	$81.5^{+7.6}_{-7.8}$	Age/Gyr	13.798	$13.799^{+0.071}_{-0.073}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.40	$7.54^{+3.1}_{-2.7}$	z_*	1090.19	$1090.21^{+0.77}_{-0.75}$
n^{CIB}	0.512	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.09	$10.33^{+0.99}_{-0.94}$	r_*	144.93	$145.00^{+0.85}_{-0.85}$
$c_{100/143}$	1.00066	$1.00062^{+0.00076}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	77.2	$78.0^{+8.1}_{-8.0}$	θ_*	1.04162	$1.0416^{+0.0011}_{-0.0011}$
$c_{217/143}$	0.99930	$0.9994^{+0.0022}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.763	> 0.664	z_{drag}	1059.40	$1059.3^{+1.0}_{-1.0}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/220}$	0.514	$0.56^{+0.24}_{-0.21}$	r_{drag}	147.68	$147.76^{+0.88}_{-0.89}$
A^{kSZ}	2.39	—	$r_{\text{PS}}^{150/220}$	0.9166	> 0.904	k_D	0.13997	$0.1399^{+0.0011}_{-0.0011}$
β_1^1	0.59	$0.5^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.432	< 0.756	θ_D	0.16131	$0.16136^{+0.00062}_{-0.00060}$
β_2^1	-0.03	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.831	$0.85^{+0.38}_{-0.39}$	z_{EQ}	3365	3360^{+81}_{-78}
β_3^1	0.19	$0.1^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9919	$0.993^{+0.015}_{-0.014}$	θ_{EQ}	0.8198	$0.821^{+0.015}_{-0.015}$
β_4^1	-0.03	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0021	$1.006^{+0.026}_{-0.025}$	$r_s/D_v(0.57)$	0.07186	$0.0719^{+0.0012}_{-0.0012}$
β_5^1	-0.03	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9879	$0.989^{+0.014}_{-0.014}$	$H(0.57)$	0.00031045	$0.0003105^{+0.0000024}_{-0.0000023}$
β_1^2	-0.96	$-1.15^{+1.8}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9612	$0.963^{+0.020}_{-0.019}$	$DA(0.57)$	1384.9	1384^{+21}_{-21}
β_2^2	-0.14	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9858	$0.985^{+0.039}_{-0.037}$			
β_3^2	-0.06	$0.0^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9860	$0.989^{+0.019}_{-0.018}$			

Best-fit $\chi_{\text{eff}}^2 = 10521.08$; R-1 = 0.01455

χ_{eff}^2 : BAO - DR9: 0.33 DR7: 1.04 6DF: 0.01 CMB - lowlike.v22.light.clik: 2014.65 commander.v3.light.clik: -6.83 CAMspec.v6.2TN_2013.01_18.clik: 7817.92 actspt_2013.01.clik: 693.92

15.16 base_r_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02228	$0.02227^{+0.00052}_{-0.00051}$	β_4^2	0.16	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0174	$1.023^{+0.048}_{-0.043}$
$\Omega_c h^2$	0.11683	$0.1166^{+0.0049}_{-0.0049}$	β_5^2	-0.47	$-0.4^{+2.0}_{-2.0}$	Ω_Λ	0.7039	$0.705^{+0.027}_{-0.029}$
θ	1.04178	$1.0418^{+0.0012}_{-0.0012}$	β_1^3	0.62	$0.8^{+1.8}_{-1.8}$	Ω_m	0.2961	$0.295^{+0.029}_{-0.027}$
τ	0.0992	$0.094^{+0.027}_{-0.025}$	β_2^3	-0.67	$-0.6^{+2.0}_{-1.9}$	σ_8	0.8241	$0.819^{+0.025}_{-0.024}$
n_s	0.9662	$0.967^{+0.014}_{-0.014}$	β_3^3	0.07	$0.2^{+1.9}_{-1.9}$	z_{re}	11.77	$11.3^{+2.2}_{-2.1}$
$\log[10^{10} A_s]$	3.1006	$3.089^{+0.051}_{-0.048}$	β_4^3	-0.47	$-0.4^{+2.0}_{-1.9}$	r_{10}	0.0000	< 0.0656
r_{pivot}	0.000	< 0.138	β_5^3	-0.23	$-0.3^{+2.0}_{-2.0}$	H_0	68.71	$68.8^{+2.2}_{-2.2}$
A_{100}^{PS}	170	185^{+80}_{-80}	β_1^4	-0.07	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.132
A_{143}^{PS}	74.4	74^{+20}_{-20}	β_2^4	-0.22	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.221	$2.20^{+0.12}_{-0.10}$
A_{217}^{PS}	63.4	62^{+20}_{-20}	β_3^4	-0.25	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.13976	$0.1395^{+0.0046}_{-0.0046}$
A_{143}^{CIB}	2.61	—	β_4^4	0.05	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09602	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	46.0	44^{+10}_{-9}	β_5^4	0.17	$0.3^{+1.9}_{-1.9}$	Y_{He}	0.247803	$0.24780^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	3.94	—	$A_{\text{PS,ACT}}^{148}$	10.53	$10.7^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8214	$1.819^{+0.023}_{-0.023}$
$r_{PS143/217}$	0.804	> 0.705	$A_{\text{PS,ACT}}^{218}$	81.8	$81.6^{+7.8}_{-7.9}$	Age/Gyr	13.766	$13.766^{+0.087}_{-0.090}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.66	$7.60^{+3.0}_{-2.7}$	z_*	1089.85	$1089.85^{+0.95}_{-0.93}$
n^{CIB}	0.508	$0.49^{+0.14}_{-0.14}$	$A_{\text{PS,SPT}}^{150}$	10.18	$10.36^{+0.99}_{-0.95}$	r_*	145.31	$145.4^{+1.1}_{-1.1}$
$c_{100/143}$	1.00063	$1.00063^{+0.00075}_{-0.00077}$	$A_{\text{PS,SPT}}^{220}$	77.7	$78.2^{+8.2}_{-7.9}$	θ_*	1.04191	$1.0419^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99976	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.748	> 0.662	z_{drag}	1059.59	$1059.5^{+1.0}_{-1.1}$
$\xi^{tSZ-CIB}$	0.006	—	$r_{\text{PS}}^{95/220}$	0.492	$0.56^{+0.24}_{-0.21}$	r_{drag}	148.03	$148.1^{+1.1}_{-1.1}$
A^{kSZ}	3.14	—	$r_{\text{PS}}^{150/220}$	0.9152	> 0.905	k_D	0.13972	$0.1396^{+0.0012}_{-0.0012}$
β_1^1	0.48	$0.4^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.406	< 0.747	θ_D	0.16122	$0.16125^{+0.00061}_{-0.00059}$
β_2^1	0.13	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,e}}$	0.871	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3324	3319^{+110}_{-110}
β_3^1	-0.17	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9929	$0.994^{+0.014}_{-0.014}$	θ_{EQ}	0.8280	$0.829^{+0.022}_{-0.021}$
β_4^1	0.12	$0.0^{+1.9}_{-1.9}$	c_{ACTs}^{217}	1.0058	$1.006^{+0.027}_{-0.025}$	$r_s/D_v(0.57)$	0.07253	$0.0726^{+0.0017}_{-0.0017}$
β_5^1	0.14	$0.0^{+2.0}_{-1.9}$	c_{ACTe}^{148}	0.9898	$0.990^{+0.014}_{-0.014}$	$H(0.57)$	0.00031173	$0.0003118^{+0.0000035}_{-0.0000032}$
β_1^2	-0.67	$-1.17^{+1.7}_{-1.7}$	c_{ACTe}^{217}	0.9638	$0.964^{+0.021}_{-0.020}$	$DA(0.57)$	1373.2	1372^{+29}_{-29}
β_2^2	-0.33	$-0.3^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9835	$0.986^{+0.040}_{-0.037}$			
β_3^2	-0.07	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{150}	0.9870	$0.990^{+0.019}_{-0.018}$			

Best-fit $\chi_{\text{eff}}^2 = 10525.86$; R-1 = 0.01869

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.74 commander.v3.light.clik: -7.79 CAMspec.v6.2TN_2013_01_18.clik: 7820.64 actspt_2013_01.clik: 693.63 Hubble - HST: 4.52

15.17 base_r_planck_CAMspec_lowl_lowLike_highL_post_SNL5

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02221	$0.02218^{+0.00054}_{-0.00052}$	β_4^2	0.06	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0154	$1.022^{+0.047}_{-0.043}$
$\Omega_c h^2$	0.11787	$0.1176^{+0.0050}_{-0.0049}$	β_5^2	-0.35	$-0.4^{+2.0}_{-2.0}$	Ω_Λ	0.6975	$0.699^{+0.029}_{-0.031}$
θ	1.04158	$1.0416^{+0.0012}_{-0.0012}$	β_1^3	0.997	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3025	$0.301^{+0.031}_{-0.029}$
τ	0.0967	$0.093^{+0.027}_{-0.025}$	β_2^3	-0.52	$-0.6^{+2.0}_{-1.9}$	σ_8	0.8261	$0.821^{+0.025}_{-0.025}$
n_s	0.9637	$0.964^{+0.014}_{-0.014}$	β_3^3	0.14	$0.2^{+1.9}_{-2.0}$	z_{re}	11.61	$11.2^{+2.2}_{-2.1}$
$\log[10^{10} A_s]$	3.0979	$3.088^{+0.051}_{-0.047}$	β_4^3	-0.55	$-0.4^{+2.0}_{-1.9}$	r_{10}	0.0000	< 0.0626
r_{pivot}	0.000	< 0.133	β_5^3	-0.33	$-0.3^{+2.0}_{-2.0}$	H_0	68.20	$68.3^{+2.3}_{-2.2}$
A_{100}^{PS}	174	185^{+80}_{-80}	β_1^4	0.07	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.126
A_{143}^{PS}	73.9	75^{+20}_{-20}	β_2^4	-0.31	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.215	$2.19^{+0.11}_{-0.10}$
A_{217}^{PS}	62.7	63^{+20}_{-20}	β_3^4	-0.06	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14073	$0.1404^{+0.0047}_{-0.0047}$
A_{143}^{CIB}	2.79	—	β_4^4	0.18	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09598	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	47.0	44^{+9}_{-9}	β_5^4	0.09	$0.3^{+1.9}_{-1.9}$	Y_{He}	0.247772	$0.24776^{+0.00023}_{-0.00022}$
A_{143}^{tSZ}	4.36	—	$A_{\text{PS,ACT}}^{148}$	10.46	$10.7^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8257	$1.823^{+0.024}_{-0.023}$
$r_{PS143/217}$	0.816	> 0.706	$A_{\text{PS,ACT}}^{218}$	80.8	$81.5^{+7.8}_{-7.9}$	Age/Gyr	13.784	$13.784^{+0.089}_{-0.093}$
r_{CIB}	0.9999	—	$A_{\text{PS,SPT}}^{95}$	7.45	$7.57^{+3.1}_{-2.7}$	z_*	1090.03	$1090.05^{+0.97}_{-0.98}$
n^{CIB}	0.516	$0.49^{+0.14}_{-0.14}$	$A_{\text{PS,SPT}}^{150}$	10.11	$10.34^{+0.99}_{-0.95}$	r_*	145.09	$145.2^{+1.1}_{-1.1}$
$c_{100/143}$	1.00063	$1.00062^{+0.00076}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	76.9	$78.1^{+8.1}_{-8.0}$	θ_*	1.04173	$1.0417^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99932	$0.9994^{+0.0021}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.761	> 0.663	z_{drag}	1059.47	$1059.4^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.006	—	$r_{\text{PS}}^{95/220}$	0.514	$0.56^{+0.24}_{-0.21}$	r_{drag}	147.83	$147.9^{+1.1}_{-1.1}$
A^{kSZ}	2.64	—	$r_{\text{PS}}^{150/220}$	0.9170	> 0.905	k_D	0.13987	$0.1397^{+0.0012}_{-0.0012}$
β_1^1	0.61	$0.5^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.424	< 0.752	θ_D	0.16126	$0.16132^{+0.00062}_{-0.00060}$
β_2^1	-0.16	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.834	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3347	3339^{+110}_{-110}
β_3^1	0.13	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9925	$0.993^{+0.014}_{-0.014}$	θ_{EQ}	0.8233	$0.825^{+0.022}_{-0.022}$
β_4^1	0.24	$0.0^{+1.9}_{-1.9}$	c_{ACTs}^{217}	1.0041	$1.006^{+0.027}_{-0.025}$	$r_s/D_v(0.57)$	0.07215	$0.0723^{+0.0018}_{-0.0017}$
β_5^1	0.07	$0.0^{+1.9}_{-1.9}$	c_{ACTe}^{148}	0.9891	$0.990^{+0.014}_{-0.014}$	$H(0.57)$	0.00031100	$0.0003111^{+0.0000035}_{-0.0000032}$
β_1^2	-0.87	$-1.16^{+1.8}_{-1.7}$	c_{ACTe}^{217}	0.9624	$0.964^{+0.021}_{-0.020}$	$DA(0.57)$	1379.9	1379^{+30}_{-30}
β_2^2	-0.23	$-0.3^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9869	$0.985^{+0.040}_{-0.037}$			
β_3^2	-0.15	$0.0^{+1.9}_{-2.0}$	c_{SPT}^{150}	0.9870	$0.989^{+0.019}_{-0.018}$			

Best-fit $\chi_{\text{eff}}^2 = 10948.86$; R-1 = 0.01392

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.59 commander.v3.light.clik: -7.38 CAMspec.v6.2TN_2013_01_18.clik: 7819.46 actspt_2013_01.clik: 693.41 SN - SNLS April_2012: 428.75

15.18 base_r_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02211^{+0.00053}_{-0.00052}$	β_4^2	0.39	$0.3^{+1.9}_{-1.9}$	c_{SPT}^{220}	1.0153	$1.022^{+0.047}_{-0.043}$
$\Omega_c h^2$	0.1189	$0.1187^{+0.0051}_{-0.0050}$	β_5^2	-0.24	$-0.4^{+2.0}_{-2.0}$	Ω_Λ	0.6911	$0.691^{+0.030}_{-0.032}$
θ	1.04145	$1.0414^{+0.0012}_{-0.0012}$	β_1^3	0.85	$0.8^{+1.8}_{-1.8}$	Ω_m	0.3089	$0.309^{+0.032}_{-0.030}$
τ	0.0981	$0.091^{+0.027}_{-0.025}$	β_2^3	-0.64	$-0.6^{+2.0}_{-1.9}$	σ_8	0.8314	$0.824^{+0.024}_{-0.024}$
n_s	0.9612	$0.961^{+0.014}_{-0.014}$	β_3^3	0.06	$0.2^{+1.9}_{-2.0}$	z_{re}	11.78	$11.1^{+2.2}_{-2.2}$
$\log[10^{10} A_s]$	3.1031	$3.087^{+0.050}_{-0.047}$	β_4^3	-0.48	$-0.4^{+1.9}_{-1.9}$	r_{10}	0.0000	< 0.0594
r_{pivot}	0.000	< 0.127	β_5^3	-0.42	$-0.3^{+2.0}_{-1.9}$	H_0	67.73	$67.8^{+2.3}_{-2.2}$
A_{100}^{PS}	178	186^{+80}_{-80}	β_1^4	-0.23	$-0.3^{+1.9}_{-1.9}$	r	0.000	< 0.119
A_{143}^{PS}	74.5	75^{+20}_{-20}	β_2^4	-0.22	$-0.3^{+2.0}_{-1.9}$	$10^9 A_s$	2.227	$2.19^{+0.11}_{-0.10}$
A_{217}^{PS}	64.6	63^{+20}_{-20}	β_3^4	0.17	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14168	$0.1415^{+0.0048}_{-0.0048}$
A_{143}^{CIB}	2.70	—	β_4^4	0.07	$0.2^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09596	$0.0959^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	46.4	44^{+9}_{-9}	β_5^4	0.39	$0.3^{+1.9}_{-1.9}$	Y_{He}	0.247739	$0.24773^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	4.26	—	$A_{\text{PS,ACT}}^{148}$	10.45	$10.7^{+1.2}_{-1.1}$	$10^9 A_s e^{-2\tau}$	1.8300	$1.828^{+0.024}_{-0.024}$
$r_{PS143/217}$	0.809	> 0.708	$A_{\text{PS,ACT}}^{218}$	80.8	$81.5^{+7.7}_{-7.9}$	Age/Gyr	13.800	$13.802^{+0.090}_{-0.093}$
r_{CIB}	1.000	—	$A_{\text{PS,SPT}}^{95}$	7.57	$7.55^{+3.1}_{-2.7}$	z_*	1090.22	$1090.3^{+1.0}_{-1.0}$
n^{CIB}	0.516	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{150}$	10.12	$10.33^{+0.99}_{-0.94}$	r_*	144.88	$145.0^{+1.2}_{-1.1}$
$c_{100/143}$	1.00062	$1.00062^{+0.00077}_{-0.00078}$	$A_{\text{PS,SPT}}^{220}$	76.9	$78.0^{+8.2}_{-8.0}$	θ_*	1.04159	$1.0416^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99929	$0.9994^{+0.0022}_{-0.0021}$	$r_{\text{PS}}^{95/150}$	0.751	> 0.663	z_{drag}	1059.40	$1059.3^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.001	—	$r_{\text{PS}}^{95/220}$	0.504	$0.56^{+0.24}_{-0.21}$	r_{drag}	147.63	$147.7^{+1.2}_{-1.1}$
A^{kSZ}	2.73	—	$r_{\text{PS}}^{150/220}$	0.9167	> 0.905	k_D	0.14001	$0.1399^{+0.0012}_{-0.0012}$
β_1^1	0.66	$0.5^{+1.6}_{-1.6}$	$A_{\text{dust,s}}$	0.413	< 0.754	θ_D	0.16131	$0.16136^{+0.00063}_{-0.00062}$
β_2^1	-0.13	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.866	$0.85^{+0.39}_{-0.39}$	z_{EQ}	3370	3366^{+110}_{-110}
β_3^1	0.17	$0.1^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9918	$0.993^{+0.015}_{-0.014}$	θ_{EQ}	0.8188	$0.820^{+0.022}_{-0.021}$
β_4^1	-0.09	$0.0^{+1.9}_{-1.9}$	c_{ACTs}^{217}	1.0027	$1.005^{+0.027}_{-0.025}$	$r_s/D_v(0.57)$	0.07178	$0.0718^{+0.0018}_{-0.0017}$
β_5^1	0.07	$0.0^{+1.9}_{-1.9}$	c_{ACTe}^{148}	0.9882	$0.989^{+0.014}_{-0.014}$	$H(0.57)$	0.00031033	$0.0003104^{+0.000034}_{-0.000032}$
β_1^2	-1.04	$-1.15^{+1.8}_{-1.7}$	c_{ACTe}^{217}	0.9608	$0.963^{+0.020}_{-0.020}$	$DA(0.57)$	1386.2	1386^{+30}_{-31}
β_2^2	-0.03	$-0.3^{+1.9}_{-2.0}$	c_{SPT}^{95}	0.9851	$0.985^{+0.039}_{-0.037}$			
β_3^2	0.12	$0.0^{+1.9}_{-1.9}$	c_{SPT}^{150}	0.9861	$0.989^{+0.019}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10650.16$; R-1 = 0.01236

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.86 commander.v3.light.clik: -6.68 CAMspec.v6.2TN_2013_01_18.clik: 7817.73 actspt_2013_01.clik: 693.76 SN - Union2.1: 130.38

15.19 base_r_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02255	$0.0233^{+0.0015}_{-0.0012}$	z_{re}	10.70	$10.6^{+2.2}_{-2.1}$	r_*	145.65	$146.7^{+2.5}_{-2.5}$
$\Omega_c h^2$	0.1148	$0.109^{+0.011}_{-0.011}$	r_{10}	0.003	< 0.206	θ_*	1.03997	$1.0415^{+0.0049}_{-0.0047}$
θ	1.03985	$1.0414^{+0.0050}_{-0.0048}$	H_0	69.0	$72.6^{+6.6}_{-5.4}$	z_{drag}	1060.05	$1061.2^{+2.8}_{-2.6}$
τ	0.0882	$0.092^{+0.030}_{-0.026}$	r	0.006	< 0.422	r_{drag}	148.28	$149.2^{+2.5}_{-2.4}$
n_s	0.9729	$0.996^{+0.045}_{-0.035}$	$10^9 A_s$	2.212	$2.19^{+0.14}_{-0.13}$	k_D	0.13965	$0.1392^{+0.0026}_{-0.0027}$
$\log[10^{10} A_s]$	3.096	$3.088^{+0.062}_{-0.059}$	$\Omega_m h^2$	0.1380	$0.133^{+0.010}_{-0.010}$	θ_D	0.16063	$0.1602^{+0.0011}_{-0.0011}$
r_{pivot}	0.007	< 0.339	$\Omega_m h^3$	0.09524	$0.0961^{+0.0038}_{-0.0037}$	z_{EQ}	3282	3154^{+240}_{-250}
A_{SZ}	0.01	—	Y_{He}	0.24792	$0.24821^{+0.00059}_{-0.00051}$	θ_{EQ}	0.835	$0.865^{+0.058}_{-0.050}$
Ω_Λ	0.710	$0.746^{+0.058}_{-0.061}$	$10^9 A_s e^{-2\tau}$	1.854	$1.826^{+0.063}_{-0.061}$	$r_s/D_v(0.57)$	0.07275	$0.0754^{+0.0051}_{-0.0042}$
Ω_m	0.290	$0.254^{+0.061}_{-0.058}$	Age/Gyr	13.787	$13.63^{+0.28}_{-0.32}$	$H(0.57)$	0.0003116	$0.000318^{+0.000013}_{-0.0000096}$
σ_8	0.814	$0.791^{+0.050}_{-0.054}$	z_*	1089.34	$1088.0^{+2.1}_{-2.4}$	$DA(0.57)$	1370	1325^{+72}_{-82}

Best-fit $\chi^2_{\text{eff}} = 7557.82$; R-1 = 0.01033

χ^2_{eff} : CMB - WMAP: 7557.82

15.20 base_r_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02249	$0.02268^{+0.00086}_{-0.00088}$	z_{re}	10.71	$10.4^{+2.2}_{-2.2}$	r_*	145.26	$145.3^{+1.5}_{-1.5}$
$\Omega_c h^2$	0.11644	$0.1156^{+0.0047}_{-0.0049}$	r_{10}	0.000	< 0.104	θ_*	1.03996	$1.0398^{+0.0039}_{-0.0041}$
θ	1.03984	$1.0397^{+0.0040}_{-0.0042}$	H_0	68.36	$68.8^{+2.0}_{-2.0}$	z_{drag}	1060.05	$1060.4^{+2.0}_{-2.2}$
τ	0.0877	$0.086^{+0.027}_{-0.025}$	r	0.000	< 0.206	r_{drag}	147.90	$147.9^{+1.8}_{-1.7}$
n_s	0.9703	$0.976^{+0.023}_{-0.022}$	$10^9 A_s$	2.221	$2.21^{+0.13}_{-0.12}$	k_D	0.14000	$0.1401^{+0.0022}_{-0.0023}$
$\log[10^{10} A_s]$	3.101	$3.094^{+0.059}_{-0.058}$	$\Omega_m h^2$	0.1396	$0.1389^{+0.0051}_{-0.0051}$	θ_D	0.16065	$0.1604^{+0.0010}_{-0.00090}$
r_{pivot}	0.000	< 0.199	$\Omega_m h^3$	0.09542	$0.0955^{+0.0035}_{-0.0034}$	z_{EQ}	3320	3304^{+120}_{-120}
A_{SZ}	0.00	—	Y_{He}	0.247890	$0.24797^{+0.00036}_{-0.00037}$	θ_{EQ}	0.8278	$0.831^{+0.021}_{-0.020}$
Ω_Λ	0.7014	$0.706^{+0.022}_{-0.024}$	$10^9 A_s e^{-2\tau}$	1.8640	$1.858^{+0.046}_{-0.043}$	$r_s/D_v(0.57)$	0.07221	$0.0725^{+0.0014}_{-0.0014}$
Ω_m	0.2986	$0.294^{+0.024}_{-0.022}$	Age/Gyr	13.802	$13.78^{+0.17}_{-0.17}$	$H(0.57)$	0.00031080	$0.0003115^{+0.0000045}_{-0.0000044}$
σ_8	0.8214	$0.816^{+0.036}_{-0.036}$	z_*	1089.56	$1089.3^{+1.1}_{-1.0}$	$DA(0.57)$	1378.7	1373^{+29}_{-28}

Best-fit $\chi^2_{\text{eff}} = 7559.28$; R-1 = 0.02449

χ^2_{eff} : BAO - 6DF: 0.05 DR7: 0.43 DR9: 0.76 CMB - WMAP: 7558.03

15.21 base_r_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02332	$0.0234^{+0.0011}_{-0.0010}$	z_{re}	10.74	$10.6^{+2.2}_{-2.1}$	r_*	146.81	$147.0^{+2.0}_{-2.0}$
$\Omega_c h^2$	0.1083	$0.1074^{+0.0078}_{-0.0074}$	r_{10}	0.076	< 0.194	θ_*	1.04186	$1.0418^{+0.0042}_{-0.0042}$
θ	1.04181	$1.0418^{+0.0042}_{-0.0043}$	H_0	72.84	$73.3^{+3.9}_{-3.7}$	z_{drag}	1061.34	$1061.4^{+2.3}_{-2.2}$
τ	0.0933	$0.093^{+0.029}_{-0.026}$	r	0.156	< 0.393	r_{drag}	149.21	$149.4^{+2.2}_{-2.1}$
n_s	0.9986	$0.999^{+0.032}_{-0.029}$	$10^9 A_s$	2.204	$2.19^{+0.14}_{-0.13}$	k_D	0.13920	$0.1390^{+0.0025}_{-0.0026}$
$\log[10^{10} A_s]$	3.093	$3.087^{+0.064}_{-0.060}$	$\Omega_m h^2$	0.1322	$0.1314^{+0.0076}_{-0.0071}$	θ_D	0.16017	$0.1602^{+0.0010}_{-0.0010}$
r_{pivot}	0.148	< 0.326	$\Omega_m h^3$	0.09631	$0.0962^{+0.0036}_{-0.0036}$	z_{EQ}	3144	3125^{+180}_{-170}
A_{SZ}	0.01	—	Y_{He}	0.248237	$0.24826^{+0.00043}_{-0.00042}$	θ_{EQ}	0.8664	$0.871^{+0.037}_{-0.037}$
Ω_Λ	0.7508	$0.754^{+0.035}_{-0.040}$	$10^9 A_s e^{-2\tau}$	1.829	$1.820^{+0.053}_{-0.052}$	$r_s/D_v(0.57)$	0.07559	$0.0760^{+0.0031}_{-0.0029}$
Ω_m	0.2492	$0.246^{+0.040}_{-0.035}$	Age/Gyr	13.616	$13.60^{+0.21}_{-0.22}$	$H(0.57)$	0.0003182	$0.0003190^{+0.0000077}_{-0.0000070}$
σ_8	0.7929	$0.787^{+0.045}_{-0.044}$	z_*	1087.86	$1087.7^{+1.5}_{-1.5}$	$DA(0.57)$	1319.9	1315^{+48}_{-49}

Best-fit $\chi_{\text{eff}}^2 = 7558.32$; R-1 = 0.01435

χ_{eff}^2 : CMB - WMAP: 7558.12 Hubble - HST: 0.20

15.22 base_r_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02316	$0.0234^{+0.0014}_{-0.0012}$	z_{re}	10.68	$10.6^{+2.2}_{-2.1}$	r_*	146.52	$147.1^{+2.2}_{-2.1}$
$\Omega_c h^2$	0.1098	$0.1070^{+0.0089}_{-0.0091}$	r_{10}	0.055	< 0.213	θ_*	1.04175	$1.0419^{+0.0047}_{-0.0046}$
θ	1.04170	$1.0418^{+0.0048}_{-0.0047}$	H_0	72.1	$73.5^{+5.5}_{-4.6}$	z_{drag}	1061.08	$1061.4^{+2.7}_{-2.5}$
τ	0.0916	$0.093^{+0.030}_{-0.027}$	r	0.112	< 0.436	r_{drag}	148.97	$149.5^{+2.2}_{-2.2}$
n_s	0.9925	$1.001^{+0.040}_{-0.033}$	$10^9 A_s$	2.203	$2.19^{+0.14}_{-0.13}$	k_D	0.13934	$0.1390^{+0.0025}_{-0.0025}$
$\log[10^{10} A_s]$	3.092	$3.087^{+0.063}_{-0.060}$	$\Omega_m h^2$	0.1336	$0.1310^{+0.0084}_{-0.0085}$	θ_D	0.16030	$0.1601^{+0.0011}_{-0.0011}$
r_{pivot}	0.110	< 0.347	$\Omega_m h^3$	0.09625	$0.0962^{+0.0038}_{-0.0037}$	z_{EQ}	3176	3116^{+200}_{-200}
A_{SZ}	0.22	—	Y_{He}	0.24817	$0.24827^{+0.00055}_{-0.00049}$	θ_{EQ}	0.8592	$0.873^{+0.048}_{-0.043}$
Ω_Λ	0.7428	$0.756^{+0.046}_{-0.048}$	$10^9 A_s e^{-2\tau}$	1.835	$1.818^{+0.055}_{-0.054}$	$r_s/D_v(0.57)$	0.07500	$0.0761^{+0.0043}_{-0.0036}$
Ω_m	0.2572	$0.244^{+0.048}_{-0.046}$	Age/Gyr	13.644	$13.60^{+0.25}_{-0.28}$	$H(0.57)$	0.0003169	$0.000319^{+0.000011}_{-0.0000086}$
σ_8	0.7978	$0.785^{+0.047}_{-0.048}$	z_*	1088.18	$1087.7^{+1.8}_{-2.0}$	$DA(0.57)$	1330	1312^{+61}_{-68}

Best-fit $\chi_{\text{eff}}^2 = 7983.85$; R-1 = 0.01268

χ_{eff}^2 : CMB - WMAP: 7557.91 SN - SNLS April_2012: 425.94

15.23 base_r_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02249	$0.0232^{+0.0013}_{-0.0011}$	z_{re}	10.85	$10.6^{+2.2}_{-2.1}$	r_*	145.77	$146.5^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1145	$0.1098^{+0.0090}_{-0.0093}$	r_{10}	0.002	< 0.177	θ_*	1.03968	$1.0412^{+0.0046}_{-0.0045}$
θ	1.03955	$1.0411^{+0.0046}_{-0.0045}$	H_0	68.99	$71.9^{+5.3}_{-4.6}$	z_{drag}	1059.89	$1061.1^{+2.6}_{-2.4}$
τ	0.0899	$0.091^{+0.029}_{-0.026}$	r	0.005	< 0.360	r_{drag}	148.42	$149.0^{+2.3}_{-2.2}$
n_s	0.9721	$0.992^{+0.038}_{-0.031}$	$10^9 A_s$	2.216	$2.20^{+0.14}_{-0.13}$	k_D	0.13946	$0.1393^{+0.0025}_{-0.0026}$
$\log[10^{10} A_s]$	3.098	$3.089^{+0.063}_{-0.059}$	$\Omega_m h^2$	0.1376	$0.1336^{+0.0086}_{-0.0086}$	θ_D	0.16067	$0.1602^{+0.0011}_{-0.0010}$
r_{pivot}	0.005	< 0.302	$\Omega_m h^3$	0.09495	$0.0960^{+0.0037}_{-0.0036}$	z_{EQ}	3273	3178^{+210}_{-210}
A_{SZ}	0.00	—	Y_{He}	0.247892	$0.24816^{+0.00051}_{-0.00046}$	θ_{EQ}	0.8364	$0.859^{+0.047}_{-0.042}$
Ω_Λ	0.711	$0.740^{+0.049}_{-0.052}$	$10^9 A_s e^{-2\tau}$	1.851	$1.831^{+0.057}_{-0.055}$	$r_s/D_v(0.57)$	0.07277	$0.0749^{+0.0041}_{-0.0035}$
Ω_m	0.289	$0.260^{+0.052}_{-0.049}$	Age/Gyr	13.800	$13.66^{+0.24}_{-0.27}$	$H(0.57)$	0.0003113	$0.000317^{+0.000010}_{-0.0000081}$
σ_8	0.8137	$0.795^{+0.046}_{-0.047}$	z_*	1089.38	$1088.2^{+1.8}_{-2.0}$	$DA(0.57)$	1371	1333^{+61}_{-67}

Best-fit $\chi^2_{eff} = 7687.91$; R-1 = 0.00918

χ^2_{eff} : CMB - WMAP: 7557.94 SN - Union2.1: 129.97

16 w

16.1 base_w_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.02212^{+0.00056}_{-0.00055}$	β_2^1	0.14	$0.1^{+1.9}_{-1.9}$	σ_8	0.854	$0.96^{+0.14}_{-0.19}$
$\Omega_c h^2$	0.1189	$0.1193^{+0.0051}_{-0.0052}$	β_3^1	0.12	$0.0^{+2.0}_{-1.9}$	z_{re}	11.52	$11.1^{+2.2}_{-2.1}$
θ	1.04147	$1.0414^{+0.0013}_{-0.0012}$	β_4^1	-0.16	$0.0^{+2.0}_{-1.9}$	H_0	70.3	83^{+20}_{-20}
τ	0.0953	$0.090^{+0.027}_{-0.024}$	β_5^1	-0.03	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.216	$2.20^{+0.12}_{-0.10}$
w	-1.08	$-1.48^{+0.66}_{-0.48}$	β_1^2	0.16	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14175	$0.1421^{+0.0049}_{-0.0048}$
n_s	0.9633	$0.962^{+0.015}_{-0.015}$	β_2^2	-0.04	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0996	$0.119^{+0.023}_{-0.030}$
$\log[10^{10} A_s]$	3.0981	$3.089^{+0.052}_{-0.047}$	β_3^2	-0.03	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247748	$0.24773^{+0.00024}_{-0.00024}$
A_{100}^{PS}	163	147^{+100}_{-100}	β_4^2	0.11	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8313	$1.832^{+0.025}_{-0.025}$
A_{143}^{PS}	48	53^{+30}_{-30}	β_5^2	-0.16	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.748	$13.60^{+0.36}_{-0.20}$
A_{217}^{PS}	121.4	119^{+30}_{-30}	β_1^3	-0.09	$-0.1^{+1.9}_{-1.9}$	z_*	1090.20	$1090.3^{+1.0}_{-1.0}$
A_{143}^{CIB}	9.03	—	β_2^3	-0.04	$-0.1^{+1.9}_{-1.9}$	r_*	144.86	$144.8^{+1.2}_{-1.2}$
A_{217}^{CIB}	23.2	21^{+10}_{-10}	β_3^3	0.00	$0.0^{+1.9}_{-2.0}$	θ_*	1.04161	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.38	—	β_4^3	-0.22	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.44	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.816	> 0.676	β_5^3	-0.08	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.60	$147.5^{+1.2}_{-1.1}$
r_{CIB}	0.462	—	β_1^4	0.05	$-0.1^{+1.9}_{-1.9}$	k_D	0.14006	$0.1401^{+0.0012}_{-0.0012}$
n^{CIB}	0.290	$0.24^{+0.26}_{-0.31}$	β_2^4	0.06	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16128	$0.16131^{+0.00066}_{-0.00064}$
$c_{100/143}$	1.00065	$1.00060^{+0.00078}_{-0.00078}$	β_3^4	-0.18	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3372	3380^{+120}_{-110}
$c_{217/143}$	0.99647	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.01	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8186	$0.817^{+0.023}_{-0.022}$
$\xi^{tSZ-CIB}$	0.01	—	β_5^4	0.06	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07243	$0.0744^{+0.0033}_{-0.0048}$
A^{kSZ}	0.8	—	Ω_Λ	0.713	$0.785^{+0.071}_{-0.16}$	$H(0.57)$	0.0003100	$0.0003041^{+0.000077}_{-0.000099}$
β_1^1	0.50	$0.5^{+1.6}_{-1.6}$	Ω_m	0.287	$0.215^{+0.16}_{-0.071}$	$DA(0.57)$	1367	1302^{+140}_{-76}

Best-fit $\chi_{\text{eff}}^2 = 9803.41$; R-1 = 0.02264

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.59 commander_v3.light.clik: -7.59 CAMspec_v6.2TN_2013_01_18.clik: 7796.41

16.2 base_w_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02217^{+0.00056}_{-0.00054}$	β_2^1	0.04	$0.1^{+1.9}_{-1.9}$	σ_8	0.072	$0.97^{+0.12}_{-0.17}$
$\Omega_c h^2$	0.11889	$0.1189^{+0.0043}_{-0.0043}$	β_3^1	-0.08	$0.0^{+1.9}_{-1.9}$	z_{re}	11.43	$11.1^{+2.1}_{-2.1}$
θ	1.04141	$1.0414^{+0.0012}_{-0.0012}$	β_4^1	-0.07	$0.0^{+2.0}_{-1.9}$	H_0	72.2	85^{+10}_{-20}
τ	0.0945	$0.091^{+0.027}_{-0.024}$	β_5^1	-0.06	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.212	$2.20^{+0.11}_{-0.095}$
w	-1.14	$-1.52^{+0.61}_{-0.42}$	β_1^2	-0.09	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.14174	$0.1417^{+0.0041}_{-0.0041}$
n_s	0.9639	$0.963^{+0.014}_{-0.014}$	β_2^2	0.00	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1024	$0.120^{+0.020}_{-0.028}$
$\log[10^{10} A_s]$	3.0966	$3.089^{+0.048}_{-0.044}$	β_3^2	-0.11	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247768	$0.24775^{+0.00024}_{-0.00023}$
A_{100}^{PS}	143	147^{+100}_{-100}	β_4^2	0.08	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8313	$1.831^{+0.021}_{-0.021}$
A_{143}^{PS}	48.7	52^{+30}_{-30}	β_5^2	-0.15	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.711	$13.57^{+0.32}_{-0.18}$
A_{217}^{PS}	124.2	119^{+30}_{-30}	β_1^3	0.04	$-0.1^{+1.9}_{-1.9}$	z_*	1090.13	$1090.19^{+0.96}_{-0.97}$
A_{143}^{CIB}	6.77	—	β_2^3	-0.13	$-0.1^{+2.0}_{-2.0}$	r_*	144.83	$144.85^{+0.98}_{-0.98}$
A_{217}^{CIB}	21.3	21^{+10}_{-10}	β_3^3	-0.10	$0.0^{+1.9}_{-2.0}$	θ_*	1.04157	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	7.59	—	β_4^3	-0.15	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.773	> 0.674	β_5^3	-0.096	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.56	$147.59^{+0.97}_{-0.97}$
r_{CIB}	0.569	—	β_1^4	-0.03	$-0.1^{+1.9}_{-2.0}$	k_D	0.14014	$0.1401^{+0.0011}_{-0.0011}$
n^{CIB}	0.190	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.06	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16121	$0.16127^{+0.00065}_{-0.00064}$
$c_{100/143}$	1.00062	$1.00060^{+0.00076}_{-0.00077}$	β_3^4	-0.08	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3372	3372^{+97}_{-97}
$c_{217/143}$	0.99665	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.08	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8187	$0.819^{+0.019}_{-0.018}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.06	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07288	$0.0748^{+0.0029}_{-0.0044}$
A^{kSZ}	0.0	—	Ω_Λ	0.728	$0.795^{+0.062}_{-0.14}$	$H(0.57)$	0.0003096	$0.0003041^{+0.000073}_{-0.000088}$
β_1^1	0.58	$0.5^{+1.6}_{-1.6}$	Ω_m	0.272	$0.205^{+0.14}_{-0.062}$	$DA(0.57)$	1353	1292^{+130}_{-68}

Best-fit $\chi_{\text{eff}}^2 = 9813.31$; R-1 = 0.02183

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.55 lensing_likelihood.v3.ref.clik.lensing: 10.90 commander.v3.light.clik: -7.88 CAMspec.v6.2TN_2013_01_18.clik
7795.75

16.3 base_w_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02211^{+0.00054}_{-0.00055}$	β_2^1	0.07	$0.1^{+1.9}_{-1.8}$	σ_8	0.896	$0.894^{+0.063}_{-0.061}$
$\Omega_c h^2$	0.1193	$0.1196^{+0.0051}_{-0.0051}$	β_3^1	-0.09	$0.0^{+1.9}_{-2.0}$	z_{re}	11.51	$11.1^{+2.2}_{-2.1}$
θ	1.04142	$1.0414^{+0.0012}_{-0.0013}$	β_4^1	-0.15	$-0.1^{+2.0}_{-2.0}$	H_0	74.5	$74.6^{+5.0}_{-4.9}$
τ	0.0951	$0.090^{+0.028}_{-0.024}$	β_5^1	0.10	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.217	$2.20^{+0.12}_{-0.10}$
w	-1.224	$-1.23^{+0.18}_{-0.19}$	β_1^2	0.096	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14210	$0.1423^{+0.0049}_{-0.0048}$
n_s	0.9621	$0.961^{+0.015}_{-0.015}$	β_2^2	0.09	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1059	$0.1062^{+0.0080}_{-0.0078}$
$\log[10^{10} A_s]$	3.0986	$3.089^{+0.052}_{-0.047}$	β_3^2	-0.16	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247737	$0.24773^{+0.00023}_{-0.00024}$
A_{100}^{PS}	174	146^{+100}_{-100}	β_4^2	0.12	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8326	$1.833^{+0.025}_{-0.025}$
A_{143}^{PS}	53.0	53^{+30}_{-30}	β_5^2	-0.17	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.680	$13.68^{+0.10}_{-0.097}$
A_{217}^{PS}	122.8	119^{+30}_{-30}	β_1^3	0.02	$-0.1^{+1.9}_{-1.9}$	z_*	1090.27	$1090.3^{+1.0}_{-1.0}$
A_{143}^{CIB}	10.3	—	β_2^3	0.02	$-0.1^{+1.9}_{-2.0}$	r_*	144.78	$144.7^{+1.2}_{-1.1}$
A_{217}^{CIB}	23.0	21^{+10}_{-10}	β_3^3	-0.12	$0.0^{+1.9}_{-1.9}$	θ_*	1.04157	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.07	—	β_4^3	-0.19	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.796	> 0.677	β_5^3	-0.04	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.53	$147.5^{+1.2}_{-1.1}$
r_{CIB}	0.519	—	β_1^4	0.09	$-0.2^{+1.9}_{-2.0}$	k_D	0.14012	$0.1401^{+0.0012}_{-0.0013}$
n^{CIB}	0.251	$0.24^{+0.27}_{-0.31}$	β_2^4	0.03	$-0.1^{+2.1}_{-2.0}$	θ_D	0.16130	$0.16133^{+0.00066}_{-0.00063}$
$c_{100/143}$	1.00059	$1.00061^{+0.00078}_{-0.00078}$	β_3^4	-0.06	$0.0^{+2.0}_{-2.0}$	z_{EQ}	3380	3386^{+120}_{-120}
$c_{217/143}$	0.99640	$0.9966^{+0.0025}_{-0.0026}$	β_4^4	0.18	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8170	$0.816^{+0.022}_{-0.021}$
$\xi^{tSZ-CIB}$	0.26	—	β_5^4	0.07	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07325	$0.0732^{+0.0018}_{-0.0017}$
A^{kSZ}	0.0	—	Ω_Λ	0.7441	$0.743^{+0.033}_{-0.038}$	$H(0.57)$	0.0003085	$0.0003081^{+0.0000048}_{-0.0000053}$
β_1^1	0.43	$0.5^{+1.6}_{-1.7}$	Ω_m	0.2559	$0.257^{+0.038}_{-0.033}$	$DA(0.57)$	1339.2	1341^{+36}_{-34}

Best-fit $\chi_{\text{eff}}^2 = 9802.71$; R-1 = 0.06514

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.68 commander.v3.light.clik: -7.66 CAMspec.v6.2TN_2013_01_18.clik: 7795.68 Hubble - HST: 0.01

16.4 base_w_planck_CAMspec_lowl

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02212	$0.02216^{+0.00068}_{-0.00064}$	β_2^1	0.11	$0.1^{+1.8}_{-1.9}$	σ_8	0.840	$0.98^{+0.14}_{-0.20}$
$\Omega_c h^2$	0.1188	$0.1191^{+0.0062}_{-0.0061}$	β_3^1	0.17	$0.0^{+2.0}_{-2.0}$	z_{re}	11.8	$11.6^{+5.8}_{-7.3}$
θ	1.04144	$1.0414^{+0.0013}_{-0.0013}$	β_4^1	0.03	$0.0^{+2.0}_{-2.0}$	H_0	68.6	85^{+20}_{-20}
τ	0.098	$0.099^{+0.077}_{-0.075}$	β_5^1	-0.05	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.225	$2.24^{+0.34}_{-0.30}$
w	-1.03	$-1.51^{+0.66}_{-0.47}$	β_1^2	-0.12	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1416	$0.1419^{+0.0058}_{-0.0056}$
n_s	0.9634	$0.963^{+0.020}_{-0.019}$	β_2^2	-0.03	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0971	$0.120^{+0.022}_{-0.031}$
$\log[10^{10} A_s]$	3.102	$3.11^{+0.14}_{-0.14}$	β_3^2	0.14	$0.0^{+1.9}_{-2.0}$	Y_{He}	0.247733	$0.24775^{+0.00029}_{-0.00028}$
A_{100}^{PS}	158	145^{+100}_{-100}	β_4^2	-0.07	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8284	$1.831^{+0.028}_{-0.028}$
A_{143}^{PS}	49.1	52^{+30}_{-30}	β_5^2	0.01	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.784	$13.58^{+0.36}_{-0.20}$
A_{217}^{PS}	120.8	120^{+30}_{-30}	β_1^3	-0.10	$-0.1^{+1.8}_{-1.9}$	z_*	1090.23	$1090.2^{+1.3}_{-1.3}$
A_{143}^{CIB}	9.53	—	β_2^3	-0.15	$-0.1^{+1.9}_{-2.0}$	r_*	144.93	$144.8^{+1.3}_{-1.3}$
A_{217}^{CIB}	23.6	21^{+10}_{-9}	β_3^3	0.14	$0.0^{+2.0}_{-2.0}$	θ_*	1.04159	$1.0416^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.76	—	β_4^3	0.00	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.36	$1059.5^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.785	> 0.674	β_5^3	-0.24	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.68	$147.6^{+1.3}_{-1.3}$
r_{CIB}	0.584	—	β_1^4	-0.17	$-0.1^{+1.9}_{-1.9}$	k_D	0.13995	$0.1401^{+0.0012}_{-0.0013}$
n^{CIB}	0.221	$0.24^{+0.26}_{-0.29}$	β_2^4	-0.03	$0.0^{+2.0}_{-2.0}$	θ_D	0.16134	$0.16128^{+0.00073}_{-0.00071}$
$c_{100/143}$	1.00062	$1.00060^{+0.00078}_{-0.00077}$	β_3^4	0.02	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3367	3375^{+140}_{-130}
$c_{217/143}$	0.99660	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.22	$0.0^{+1.9}_{-1.9}$	θ_{EQ}	0.8194	$0.818^{+0.027}_{-0.026}$
$\xi^{tSZ-CIB}$	0.12	—	β_5^4	-0.01	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07204	$0.0747^{+0.0035}_{-0.0048}$
A^{kSZ}	0.0	—	Ω_Λ	0.699	$0.792^{+0.065}_{-0.15}$	$H(0.57)$	0.0003102	$0.0003040^{+0.0000087}_{-0.000011}$
β_1^1	0.25	$0.5^{+1.6}_{-1.6}$	Ω_m	0.301	$0.208^{+0.15}_{-0.065}$	$DA(0.57)$	1379	1295^{+140}_{-76}

Best-fit $\chi_{\text{eff}}^2 = 7788.94$; R-1 = 0.03903

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.41 CAMspec.v6.2TN_2013_01_18.clik: 7796.35

16.5 base_w_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02219	$0.02221^{+0.00069}_{-0.00065}$	β_2^1	0.12	$0.1^{+1.8}_{-1.9}$	σ_8	0.071	$0.98^{+0.11}_{-0.17}$
$\Omega_c h^2$	0.1187	$0.1185^{+0.0063}_{-0.0061}$	β_3^1	0.06	$0.0^{+2.0}_{-2.0}$	z_{re}	11.6	$11.4^{+4.7}_{-5.7}$
θ	1.04134	$1.0415^{+0.0013}_{-0.0013}$	β_4^1	0.13	$0.0^{+1.9}_{-1.9}$	H_0	70.4	86^{+10}_{-20}
τ	0.097	$0.097^{+0.063}_{-0.061}$	β_5^1	-0.10	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.222	$2.22^{+0.26}_{-0.24}$
w	-1.08	$-1.53^{+0.62}_{-0.45}$	β_1^2	-0.02	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1415	$0.1414^{+0.0058}_{-0.0056}$
n_s	0.9651	$0.964^{+0.020}_{-0.019}$	β_2^2	-0.098	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0996	$0.121^{+0.021}_{-0.029}$
$\log[10^{10} A_s]$	3.101	$3.10^{+0.11}_{-0.11}$	β_3^2	0.08	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247764	$0.24777^{+0.00029}_{-0.00028}$
A_{100}^{PS}	161	145^{+100}_{-100}	β_4^2	-0.03	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8311	$1.829^{+0.028}_{-0.029}$
A_{143}^{PS}	62.8	52^{+30}_{-30}	β_5^2	-0.25	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.746	$13.56^{+0.32}_{-0.19}$
A_{217}^{PS}	124.7	119^{+30}_{-30}	β_1^3	0.07	$-0.1^{+1.8}_{-1.9}$	z_*	1090.13	$1090.1^{+1.3}_{-1.3}$
A_{143}^{CIB}	8.60	—	β_2^3	0.03	$-0.1^{+1.9}_{-1.9}$	r_*	144.90	$144.9^{+1.3}_{-1.3}$
A_{217}^{CIB}	21.2	21^{+10}_{-10}	β_3^3	-0.03	$0.0^{+2.0}_{-2.0}$	θ_*	1.04149	$1.0416^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.64	—	β_4^3	0.07	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.51	$1059.5^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.807	> 0.672	β_5^3	-0.17	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.63	$147.7^{+1.3}_{-1.2}$
r_{CIB}	0.482	—	β_1^4	-0.01	$-0.1^{+1.9}_{-1.9}$	k_D	0.14006	$0.1400^{+0.0012}_{-0.0013}$
n^{CIB}	0.237	$0.24^{+0.26}_{-0.30}$	β_2^4	0.16	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16122	$0.16124^{+0.00072}_{-0.00069}$
$c_{100/143}$	1.00062	$1.00061^{+0.00079}_{-0.00079}$	β_3^4	-0.19	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3366	3363^{+140}_{-130}
$c_{217/143}$	0.99642	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	-0.08	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8196	$0.821^{+0.027}_{-0.027}$
$\xi^{tSZ-CIB}$	0.65	—	β_5^4	0.01	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07250	$0.0750^{+0.0035}_{-0.0045}$
A^{kSZ}	0.0	—	Ω_Λ	0.715	$0.799^{+0.059}_{-0.14}$	$H(0.57)$	0.0003101	$0.0003042^{+0.000089}_{-0.000011}$
β_1^1	0.37	$0.5^{+1.6}_{-1.6}$	Ω_m	0.285	$0.201^{+0.14}_{-0.059}$	$DA(0.57)$	1365	1287^{+130}_{-72}

Best-fit $\chi_{\text{eff}}^2 = 7799.72$; R-1 = 0.05400

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik.lensing: 10.96 commander.v3.light.clik: -7.88 CAMspec.v6.2TN.2013.01.18.clik: 7796.63

16.6 base_w_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02207	$0.02201^{+0.00059}_{-0.00057}$	β_2^1	0.13	$0.2^{+1.8}_{-1.9}$	σ_8	0.855	$0.865^{+0.082}_{-0.077}$
$\Omega_c h^2$	0.1197	$0.1206^{+0.0053}_{-0.0053}$	β_3^1	-0.03	$0.0^{+1.9}_{-1.9}$	z_{re}	11.4	$10.7^{+5.4}_{-6.7}$
θ	1.04126	$1.0412^{+0.0012}_{-0.0012}$	β_4^1	-0.02	$-0.1^{+2.0}_{-2.0}$	H_0	69.8	$70.6^{+6.4}_{-5.1}$
τ	0.093	$0.088^{+0.068}_{-0.066}$	β_5^1	0.00	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.209	$2.20^{+0.30}_{-0.27}$
w	-1.081	$-1.13^{+0.22}_{-0.29}$	β_1^2	-0.16	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.14238	$0.1432^{+0.0050}_{-0.0049}$
n_s	0.9613	$0.959^{+0.018}_{-0.016}$	β_2^2	0.14	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0994	$0.101^{+0.012}_{-0.0095}$
$\log[10^{10} A_s]$	3.095	$3.09^{+0.13}_{-0.13}$	β_3^2	-0.20	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247711	$0.24769^{+0.00025}_{-0.00025}$
A_{100}^{PS}	153	149^{+100}_{-100}	β_4^2	0.21	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.837^{+0.025}_{-0.026}$
A_{143}^{PS}	51.5	54^{+30}_{-30}	β_5^2	-0.25	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.767	$13.76^{+0.10}_{-0.10}$
A_{217}^{PS}	122.2	120^{+30}_{-30}	β_1^3	-0.11	$-0.1^{+1.9}_{-1.8}$	z_*	1090.38	$1090.5^{+1.1}_{-1.1}$
A_{143}^{CIB}	8.76	—	β_2^3	-0.15	$-0.1^{+1.9}_{-2.0}$	r_*	144.74	$144.5^{+1.2}_{-1.2}$
A_{217}^{CIB}	22.5	21^{+10}_{-10}	β_3^3	-0.13	$0.0^{+2.0}_{-2.0}$	θ_*	1.04142	$1.0414^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.80	—	β_4^3	-0.23	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1059.28	$1059.2^{+1.2}_{-1.1}$
$r_{PS143/217}$	0.819	> 0.682	β_5^3	-0.23	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.51	$147.3^{+1.1}_{-1.1}$
r_{CIB}	0.481	—	β_1^4	-0.20	$-0.2^{+1.9}_{-1.9}$	k_D	0.14009	$0.1402^{+0.0012}_{-0.0012}$
n^{CIB}	0.279	$0.25^{+0.26}_{-0.31}$	β_2^4	-0.04	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16136	$0.16141^{+0.00065}_{-0.00067}$
$c_{100/143}$	1.00061	$1.00059^{+0.00077}_{-0.00080}$	β_3^4	-0.05	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3387	3407^{+120}_{-120}
$c_{217/143}$	0.99627	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.24	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8155	$0.812^{+0.023}_{-0.022}$
$\xi^{tSZ-CIB}$	0.23	—	β_5^4	0.05	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07212	$0.0720^{+0.0013}_{-0.0013}$
A^{kSZ}	1.53	—	Ω_Λ	0.7077	$0.712^{+0.043}_{-0.041}$	$H(0.57)$	0.0003093	$0.0003082^{+0.000047}_{-0.000062}$
β_1^1	0.40	$0.5^{+1.5}_{-1.6}$	Ω_m	0.2923	$0.288^{+0.041}_{-0.043}$	$DA(0.57)$	1372.5	1371^{+35}_{-33}

Best-fit $\chi_{\text{eff}}^2 = 7790.07$; R-1 = 0.06700

χ_{eff}^2 : BAO - DR7: 0.24 6DF: 0.23 DR9: 0.64 CMB - commander.v3.light.clik: -7.29 CAMspec.v6.2TN_2013_01_18.clik: 7796.26

16.7 base_w_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02211	$0.02212^{+0.00068}_{-0.00063}$	β_2^1	0.13	$0.2^{+1.8}_{-1.8}$	σ_8	0.900	$0.900^{+0.072}_{-0.072}$
$\Omega_c h^2$	0.1193	$0.1194^{+0.0061}_{-0.0058}$	β_3^1	0.14	$0.0^{+1.9}_{-1.9}$	z_{re}	11.7	$11.5^{+5.9}_{-7.2}$
θ	1.04142	$1.0414^{+0.0013}_{-0.0013}$	β_4^1	-0.06	$0.0^{+2.0}_{-2.0}$	H_0	74.7	$74.6^{+5.1}_{-4.9}$
τ	0.097	$0.098^{+0.078}_{-0.074}$	β_5^1	-0.11	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.224	$2.24^{+0.35}_{-0.30}$
w	-1.230	$-1.23^{+0.19}_{-0.21}$	β_1^2	-0.04	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.1421	$0.1421^{+0.0057}_{-0.0055}$
n_s	0.9625	$0.963^{+0.021}_{-0.018}$	β_2^2	-0.01	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.1061	$0.1061^{+0.0086}_{-0.0081}$
$\log[10^{10} A_s]$	3.102	$3.10^{+0.15}_{-0.14}$	β_3^2	0.11	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247730	$0.24773^{+0.00029}_{-0.00027}$
A_{100}^{PS}	168	148^{+100}_{-100}	β_4^2	0.05	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8327	$1.831^{+0.029}_{-0.027}$
A_{143}^{PS}	52.1	53^{+30}_{-30}	β_5^2	-0.10	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.679	$13.68^{+0.11}_{-0.11}$
A_{217}^{PS}	123.3	119^{+30}_{-30}	β_1^3	-0.09	$-0.1^{+1.9}_{-1.9}$	z_*	1090.29	$1090.3^{+1.2}_{-1.3}$
A_{143}^{CIB}	7.45	—	β_2^3	-0.05	$-0.1^{+1.9}_{-2.0}$	r_*	144.79	$144.8^{+1.2}_{-1.3}$
A_{217}^{CIB}	21.1	21^{+10}_{-10}	β_3^3	0.03	$0.0^{+2.0}_{-2.0}$	θ_*	1.04157	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	3.93	—	β_4^3	-0.04	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1059.36	$1059.4^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.779	> 0.680	β_5^3	-0.15	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.55	$147.5^{+1.2}_{-1.3}$
r_{CIB}	0.395	—	β_1^4	-0.13	$-0.1^{+1.9}_{-1.9}$	k_D	0.14008	$0.1401^{+0.0013}_{-0.0012}$
n^{CIB}	0.265	$0.24^{+0.26}_{-0.30}$	β_2^4	0.07	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16132	$0.16131^{+0.00071}_{-0.00072}$
$c_{100/143}$	1.00058	$1.00059^{+0.00076}_{-0.00076}$	β_3^4	-0.06	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3379	3381^{+140}_{-130}
$c_{217/143}$	0.99644	$0.9965^{+0.0025}_{-0.0026}$	β_4^4	-0.097	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8171	$0.817^{+0.026}_{-0.025}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.07	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07329	$0.0732^{+0.0019}_{-0.0020}$
A^{kSZ}	2.48	—	Ω_Λ	0.7454	$0.744^{+0.034}_{-0.040}$	$H(0.57)$	0.0003084	$0.0003083^{+0.0000059}_{-0.0000061}$
β_1^1	0.47	$0.5^{+1.5}_{-1.6}$	Ω_m	0.2546	$0.256^{+0.040}_{-0.034}$	$DA(0.57)$	1338.3	1340^{+38}_{-36}

Best-fit $\chi_{\text{eff}}^2 = 7788.03$; R-1 = 0.04854

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.66 CAMspec.v6.2TN_2013_01_18.clik: 7795.65 Hubble - HST: 0.03

16.8 base_w_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02216^{+0.00068}_{-0.00062}$	β_2^1	0.02	$0.2^{+1.8}_{-1.8}$	σ_8	0.873	$0.873^{+0.069}_{-0.063}$
$\Omega_c h^2$	0.1193	$0.1188^{+0.0063}_{-0.0060}$	β_3^1	-0.08	$0.0^{+1.9}_{-1.9}$	z_{re}	11.7	$11.9^{+5.7}_{-7.4}$
θ	1.04132	$1.0414^{+0.0013}_{-0.0013}$	β_4^1	-0.02	$-0.1^{+2.0}_{-2.0}$	H_0	71.71	$71.7^{+4.4}_{-4.3}$
τ	0.097	$0.103^{+0.077}_{-0.077}$	β_5^1	-0.07	$0.0^{+1.9}_{-2.1}$	$10^9 A_s$	2.227	$2.25^{+0.34}_{-0.31}$
w	-1.136	$-1.13^{+0.14}_{-0.14}$	β_1^2	-0.05	$-0.2^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.1421	$0.1416^{+0.0059}_{-0.0055}$
n_s	0.9630	$0.964^{+0.021}_{-0.019}$	β_2^2	-0.11	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.1019	$0.1015^{+0.0061}_{-0.0060}$
$\log[10^{10} A_s]$	3.103	$3.11^{+0.14}_{-0.15}$	β_3^2	-0.14	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247737	$0.24775^{+0.00029}_{-0.00027}$
A_{100}^{PS}	175	145^{+100}_{-100}	β_4^2	0.04	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.829^{+0.029}_{-0.028}$
A_{143}^{PS}	53.7	52^{+30}_{-30}	β_5^2	-0.15	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.727	$13.72^{+0.12}_{-0.12}$
A_{217}^{PS}	123.6	119^{+30}_{-30}	β_1^3	-0.06	$-0.1^{+1.9}_{-1.9}$	z_*	1090.27	$1090.2^{+1.3}_{-1.3}$
A_{143}^{CIB}	8.54	—	β_2^3	-0.12	$-0.1^{+1.9}_{-2.0}$	r_*	144.78	$144.9^{+1.2}_{-1.3}$
A_{217}^{CIB}	22.7	21^{+10}_{-10}	β_3^3	-0.04	$0.0^{+2.0}_{-2.0}$	θ_*	1.04147	$1.0416^{+0.0012}_{-0.0013}$
A_{143}^{tSZ}	4.26	—	β_4^3	-0.19	$-0.1^{+2.0}_{-2.0}$	z_{drag}	1059.40	$1059.4^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.781	> 0.682	β_5^3	-0.10	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.53	$147.6^{+1.2}_{-1.3}$
r_{CIB}	0.453	—	β_1^4	-0.05	$-0.2^{+1.9}_{-1.9}$	k_D	0.14012	$0.1400^{+0.0012}_{-0.0012}$
n^{CIB}	0.273	$0.24^{+0.26}_{-0.31}$	β_2^4	-0.09	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16129	$0.16129^{+0.00073}_{-0.00070}$
$c_{100/143}$	1.00059	$1.00059^{+0.00077}_{-0.00079}$	β_3^4	-0.19	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3380	3368^{+140}_{-130}
$c_{217/143}$	0.99651	$0.9964^{+0.0025}_{-0.0024}$	β_4^4	0.09	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8169	$0.820^{+0.026}_{-0.027}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.07	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07265	$0.0728^{+0.0021}_{-0.0022}$
A^{kSZ}	0.0	—	Ω_Λ	0.7237	$0.724^{+0.036}_{-0.042}$	$H(0.57)$	0.0003092	$0.0003097^{+0.0000051}_{-0.0000050}$
β_1^1	0.42	$0.5^{+1.5}_{-1.6}$	Ω_m	0.2763	$0.276^{+0.042}_{-0.036}$	$DA(0.57)$	1357.6	1357^{+41}_{-40}

Best-fit $\chi_{\text{eff}}^2 = 8214.58$; R-1 = 0.08606

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.55 CAMspec.v6.2TN_2013_01_18.clik: 7795.75 SN - SNLS April_2012: 426.38

16.9 base_w_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02211	$0.02210^{+0.00069}_{-0.00061}$	β_2^1	-0.05	$0.2^{+1.9}_{-1.9}$	σ_8	0.855	$0.859^{+0.073}_{-0.071}$
$\Omega_c h^2$	0.1192	$0.1195^{+0.0061}_{-0.0062}$	β_3^1	-0.05	$0.0^{+1.9}_{-1.9}$	z_{re}	11.6	$11.4^{+5.7}_{-7.2}$
θ	1.04141	$1.0414^{+0.0013}_{-0.0013}$	β_4^1	0.03	$-0.1^{+1.9}_{-2.0}$	H_0	70.0	$70.1^{+5.2}_{-5.1}$
τ	0.096	$0.097^{+0.075}_{-0.074}$	β_5^1	0.06	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.220	$2.23^{+0.33}_{-0.30}$
w	-1.079	$-1.09^{+0.17}_{-0.17}$	β_1^2	0.01	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^2$	0.1419	$0.1423^{+0.0057}_{-0.0058}$
n_s	0.9633	$0.962^{+0.021}_{-0.018}$	β_2^2	-0.13	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0994	$0.0997^{+0.0074}_{-0.0073}$
$\log[10^{10} A_s]$	3.100	$3.10^{+0.14}_{-0.14}$	β_3^2	0.04	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.247727	$0.24772^{+0.00029}_{-0.00027}$
A_{100}^{PS}	187	147^{+100}_{-100}	β_4^2	0.06	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8321	$1.832^{+0.028}_{-0.029}$
A_{143}^{PS}	53.2	53^{+30}_{-30}	β_5^2	-0.04	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.758	$13.76^{+0.13}_{-0.13}$
A_{217}^{PS}	122.4	119^{+30}_{-30}	β_1^3	-0.11	$-0.1^{+1.9}_{-1.9}$	z_*	1090.29	$1090.3^{+1.3}_{-1.3}$
A_{143}^{CIB}	9.90	—	β_2^3	-0.23	$-0.1^{+1.9}_{-2.0}$	r_*	144.83	$144.8^{+1.3}_{-1.3}$
A_{217}^{CIB}	23.5	21^{+10}_{-10}	β_3^3	0.15	$0.0^{+2.1}_{-2.0}$	θ_*	1.04156	$1.0415^{+0.0012}_{-0.0013}$
A_{143}^{tSZ}	3.24	—	β_4^3	-0.01	$-0.2^{+2.0}_{-1.9}$	z_{drag}	1059.36	$1059.3^{+1.3}_{-1.2}$
$r_{PS143/217}$	0.791	> 0.680	β_5^3	-0.18	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.59	$147.5^{+1.2}_{-1.3}$
r_{CIB}	0.427	—	β_1^4	-0.06	$-0.2^{+1.9}_{-1.8}$	k_D	0.14003	$0.1401^{+0.0012}_{-0.0012}$
n^{CIB}	0.305	$0.25^{+0.26}_{-0.31}$	β_2^4	-0.07	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16134	$0.16134^{+0.00070}_{-0.00070}$
$c_{100/143}$	1.00060	$1.00059^{+0.00077}_{-0.00080}$	β_3^4	-0.09	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3376	3384^{+140}_{-140}
$c_{217/143}$	0.99637	$0.9965^{+0.0025}_{-0.0024}$	β_4^4	-0.11	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8176	$0.816^{+0.027}_{-0.026}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.16	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07230	$0.0722^{+0.0023}_{-0.0021}$
A^{kSZ}	0.0	—	Ω_Λ	0.7104	$0.709^{+0.044}_{-0.049}$	$H(0.57)$	0.00030974	$0.0003094^{+0.0000050}_{-0.0000048}$
β_1^1	0.37	$0.5^{+1.5}_{-1.6}$	Ω_m	0.2896	$0.291^{+0.049}_{-0.044}$	$DA(0.57)$	1369.3	1370^{+45}_{-45}

Best-fit $\chi_{\text{eff}}^2 = 7918.64$; R-1 = 0.06782

χ_{eff}^2 : CMB - commander.v3.light.clik: -7.58 CAMspec.v6.2TN_2013_01_18.clik: 7796.38 SN - Union2.1: 129.85

16.10 base_w_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02207	$0.02209^{+0.00053}_{-0.00052}$	β_3^2	-0.04	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9836	$0.985^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.1198	$0.1197^{+0.0052}_{-0.0050}$	β_4^2	0.15	$0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9840	$0.988^{+0.019}_{-0.019}$
θ	1.04131	$1.0413^{+0.0012}_{-0.0012}$	β_5^2	-0.39	$-0.4^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0147	$1.022^{+0.047}_{-0.043}$
τ	0.0936	$0.090^{+0.026}_{-0.024}$	β_1^3	0.77	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.685	$0.786^{+0.070}_{-0.15}$
w	-0.998	$-1.50^{+0.65}_{-0.47}$	β_2^3	-0.63	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.315	$0.214^{+0.15}_{-0.070}$
n_s	0.9589	$0.958^{+0.014}_{-0.014}$	β_3^3	0.31	$0.2^{+1.9}_{-1.9}$	σ_8	0.831	$0.97^{+0.13}_{-0.19}$
$\log[10^{10} A_s]$	3.0965	$3.088^{+0.048}_{-0.047}$	β_4^3	-0.52	$-0.4^{+1.9}_{-2.0}$	z_{re}	11.44	$11.0^{+2.1}_{-2.2}$
A_{100}^{PS}	172	187^{+80}_{-80}	β_5^3	-0.24	$-0.3^{+2.0}_{-2.0}$	H_0	67.3	84^{+20}_{-20}
A_{143}^{PS}	75.0	76^{+20}_{-20}	β_1^4	-0.34	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.212	$2.19^{+0.11}_{-0.10}$
A_{217}^{PS}	64.9	64^{+20}_{-20}	β_2^4	-0.29	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14254	$0.1424^{+0.0049}_{-0.0047}$
A_{143}^{CIB}	3.31	—	β_3^4	-0.01	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0959	$0.119^{+0.022}_{-0.030}$
A_{217}^{CIB}	48.0	44^{+9}_{-9}	β_4^4	0.18	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247713	$0.24772^{+0.00023}_{-0.00023}$
A_{143}^{tSZ}	5.37	—	β_5^4	0.10	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8342	$1.833^{+0.025}_{-0.024}$
$r_{PS143/217}$	0.824	> 0.711	$A_{\text{PS,ACT}}^{148}$	10.43	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.815	$13.60^{+0.34}_{-0.19}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.3	$81.4^{+7.9}_{-7.8}$	z_*	1090.38	$1090.4^{+1.0}_{-0.99}$
n^{CIB}	0.516	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	6.97	$7.54^{+3.1}_{-2.7}$	r_*	144.69	$144.7^{+1.1}_{-1.2}$
$c_{100/143}$	1.00062	$1.00063^{+0.00079}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.02	$10.35^{+0.98}_{-0.94}$	θ_*	1.04147	$1.0415^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99925	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.4	$78.0^{+8.1}_{-7.9}$	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.807	> 0.666	r_{drag}	147.46	$147.5^{+1.1}_{-1.2}$
A^{kSZ}	0.95	—	$r_{\text{PS}}^{95/220}$	0.564	$0.56^{+0.24}_{-0.21}$	k_D	0.14015	$0.1401^{+0.0013}_{-0.0012}$
β_1^1	0.56	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9133	> 0.904	θ_D	0.16135	$0.16134^{+0.00064}_{-0.00063}$
β_2^1	0.11	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.440	< 0.758	z_{EQ}	3391	3388^{+120}_{-110}
β_3^1	0.06	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.862	$0.85^{+0.39}_{-0.38}$	θ_{EQ}	0.8149	$0.816^{+0.022}_{-0.022}$
β_4^1	0.00	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9917	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07145	$0.0743^{+0.0032}_{-0.0044}$
β_5^1	0.08	$0.0^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0014	$1.005^{+0.027}_{-0.026}$	$H(0.57)$	0.0003098	$0.0003036^{+0.000079}_{-0.000096}$
β_1^2	-1.14	$-1.19^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9878	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1392	1302^{+130}_{-75}
β_2^2	-0.14	$-0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9584	$0.963^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.96$; R-1 = 0.05327

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.51 commander.v3.light.clik: -6.35 CAMspec.v6.2TN_2013_01_18.clik: 7817.30 actspt_2013_01.clik: 694.36

16.11 base_w_planck_CAMspec_lowL_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02215	$0.02214^{+0.00052}_{-0.00051}$	β_3^2	-0.07	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9844	$0.985^{+0.040}_{-0.037}$
$\Omega_c h^2$	0.11908	$0.1193^{+0.0043}_{-0.0043}$	β_4^2	0.15	$0.3^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9868	$0.989^{+0.019}_{-0.018}$
θ	1.04140	$1.0414^{+0.0012}_{-0.0012}$	β_5^2	-0.30	$-0.4^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0168	$1.022^{+0.047}_{-0.044}$
τ	0.0973	$0.090^{+0.025}_{-0.024}$	β_1^3	0.70	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.712	$0.796^{+0.061}_{-0.14}$
w	-1.08	$-1.53^{+0.62}_{-0.41}$	β_2^3	-0.50	$-0.6^{+2.0}_{-2.0}$	Ω_m	0.288	$0.204^{+0.14}_{-0.061}$
n_s	0.9610	$0.959^{+0.013}_{-0.013}$	β_3^3	0.25	$0.2^{+1.9}_{-2.0}$	σ_8	0.071	$0.98^{+0.12}_{-0.17}$
$\log[10^{10} A_s]$	3.1025	$3.087^{+0.046}_{-0.044}$	β_4^3	-0.53	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.70	$11.0^{+2.0}_{-2.1}$
A_{100}^{PS}	180	187^{+80}_{-80}	β_5^3	-0.36	$-0.3^{+1.9}_{-1.9}$	H_0	70.1	85^{+10}_{-20}
A_{143}^{PS}	75.0	76^{+20}_{-20}	β_1^4	-0.29	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.225	$2.19^{+0.10}_{-0.094}$
A_{217}^{PS}	63.8	64^{+20}_{-20}	β_2^4	-0.39	$-0.3^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14188	$0.1420^{+0.0041}_{-0.0040}$
A_{143}^{CIB}	2.76	—	β_3^4	-0.15	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0995	$0.121^{+0.020}_{-0.029}$
A_{217}^{CIB}	46.7	44^{+9}_{-9}	β_4^4	0.096	$0.2^{+2.0}_{-1.9}$	Y_{He}	0.247747	$0.24774^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	4.29	—	β_5^4	0.28	$0.3^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8320	$1.831^{+0.021}_{-0.020}$
$r_{PS143/217}$	0.811	> 0.708	$A_{\text{PS,ACT}}^{148}$	10.65	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.751	$13.57^{+0.31}_{-0.17}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.8	$81.4^{+7.9}_{-7.8}$	z_*	1090.22	$1090.25^{+0.92}_{-0.92}$
n^{CIB}	0.515	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.53	$7.59^{+3.0}_{-2.7}$	r_*	144.82	$144.79^{+0.97}_{-0.99}$
$c_{100/143}$	1.00062	$1.00063^{+0.00078}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.30	$10.38^{+0.98}_{-0.93}$	θ_*	1.04156	$1.0415^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99936	$0.9993^{+0.0020}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	77.1	$78.1^{+8.2}_{-7.8}$	z_{drag}	1059.44	$1059.4^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.767	> 0.665	r_{drag}	147.57	$147.54^{+0.99}_{-1.0}$
A^{kSZ}	1.96	—	$r_{\text{PS}}^{95/220}$	0.511	$0.56^{+0.24}_{-0.21}$	k_D	0.14010	$0.1401^{+0.0011}_{-0.0011}$
β_1^1	0.75	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9128	> 0.904	θ_D	0.16127	$0.16129^{+0.00064}_{-0.00062}$
β_2^1	-0.08	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.431	< 0.753	z_{EQ}	3375	3379^{+98}_{-96}
β_3^1	0.095	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.840	$0.84^{+0.40}_{-0.39}$	θ_{EQ}	0.8180	$0.817^{+0.019}_{-0.018}$
β_4^1	0.16	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9922	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07236	$0.0747^{+0.0029}_{-0.0042}$
β_5^1	0.10	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0024	$1.005^{+0.028}_{-0.026}$	$H(0.57)$	0.0003099	$0.0003035^{+0.000076}_{-0.000085}$
β_1^2	-1.07	$-1.20^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9889	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1368	1292^{+120}_{-67}
β_2^2	-0.37	$-0.3^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9610	$0.963^{+0.021}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10528.78$; R-1 = 0.04995

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.81 lensing_likelihood_v3.ref.clik.lensing: 10.97 commander_v3.light.clik: -6.85 CAMspec_v6.2TN_2013_01_18.clik: 7817.49 actspt_2013_01.clik: 692.30

16.12 base_w_planck_CAMspec_lowL_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02211	$0.02207^{+0.00052}_{-0.00048}$	β_3^2	0.13	$0.1^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9852	$0.984^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.1194	$0.1200^{+0.0052}_{-0.0052}$	β_4^2	0.21	$0.2^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9855	$0.988^{+0.019}_{-0.019}$
θ	1.04136	$1.0413^{+0.0013}_{-0.0012}$	β_5^2	-0.64	$-0.4^{+1.9}_{-1.8}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0137	$1.022^{+0.047}_{-0.044}$
τ	0.0970	$0.089^{+0.026}_{-0.025}$	β_1^3	0.80	$0.7^{+1.8}_{-1.8}$	Ω_Λ	0.7425	$0.742^{+0.033}_{-0.038}$
w	-1.219	$-1.24^{+0.18}_{-0.19}$	β_2^3	-0.61	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.2575	$0.258^{+0.038}_{-0.033}$
n_s	0.9601	$0.958^{+0.014}_{-0.014}$	β_3^3	0.33	$0.2^{+2.0}_{-2.0}$	σ_8	0.896	$0.895^{+0.062}_{-0.059}$
$\log[10^{10} A_s]$	3.1019	$3.088^{+0.047}_{-0.047}$	β_4^3	-0.46	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.68	$11.0^{+2.1}_{-2.2}$
A_{100}^{PS}	175	186^{+80}_{-80}	β_5^3	-0.25	$-0.4^{+1.9}_{-1.9}$	H_0	74.30	$74.5^{+5.0}_{-4.9}$
A_{143}^{PS}	75.5	76^{+20}_{-20}	β_1^4	-0.33	$-0.4^{+1.9}_{-1.8}$	$10^9 A_s$	2.224	$2.19^{+0.10}_{-0.10}$
A_{217}^{PS}	64.2	64^{+20}_{-20}	β_2^4	0.05	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1421	$0.1427^{+0.0050}_{-0.0050}$
A_{143}^{CIB}	2.84	—	β_3^4	-0.02	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1056	$0.1063^{+0.0082}_{-0.0078}$
A_{217}^{CIB}	46.9	44^{+9}_{-9}	β_4^4	0.27	$0.1^{+1.9}_{-1.8}$	Y_{He}	0.247727	$0.24771^{+0.00022}_{-0.00021}$
A_{143}^{tSZ}	4.42	—	β_5^4	0.16	$0.3^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8317	$1.834^{+0.024}_{-0.025}$
$r_{PS143/217}$	0.811	> 0.713	$A_{\text{PS,ACT}}^{148}$	10.43	$10.6^{+1.1}_{-1.1}$	Age/Gyr	13.687	$13.69^{+0.10}_{-0.099}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	81.1	$81.3^{+7.8}_{-8.1}$	z_*	1090.30	$1090.41^{+0.96}_{-0.99}$
n^{CIB}	0.515	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.40	$7.53^{+3.0}_{-2.7}$	r_*	144.78	$144.7^{+1.2}_{-1.2}$
$c_{100/143}$	1.00061	$1.00063^{+0.00076}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	10.08	$10.32^{+0.97}_{-0.91}$	θ_*	1.04152	$1.0414^{+0.0013}_{-0.0012}$
$c_{217/143}$	0.99934	$0.9994^{+0.0020}_{-0.0020}$	$A_{\text{PS,SPT}}^{220}$	76.8	$78.0^{+8.2}_{-7.5}$	z_{drag}	1059.36	$1059.3^{+1.1}_{-1.0}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.768	> 0.669	r_{drag}	147.54	$147.4^{+1.2}_{-1.2}$
A^{kSZ}	2.37	—	$r_{\text{PS}}^{95/220}$	0.518	$0.56^{+0.25}_{-0.21}$	k_D	0.14009	$0.1402^{+0.0013}_{-0.0012}$
β_1^1	0.58	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9151	> 0.903	θ_D	0.16132	$0.16136^{+0.00063}_{-0.00063}$
β_2^1	0.05	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.444	< 0.767	z_{EQ}	3381	3394^{+120}_{-120}
β_3^1	0.08	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.845	$0.85^{+0.37}_{-0.39}$	θ_{EQ}	0.8168	$0.814^{+0.023}_{-0.022}$
β_4^1	-0.13	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9919	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07319	$0.0730^{+0.0018}_{-0.0017}$
β_5^1	-0.20	$-0.1^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0040	$1.005^{+0.028}_{-0.027}$	$H(0.57)$	0.00030840	$0.0003077^{+0.0000047}_{-0.0000050}$
β_1^2	-1.02	$-1.20^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9882	$0.989^{+0.015}_{-0.014}$	$DA(0.57)$	1341.0	1343^{+35}_{-35}
β_2^2	-0.07	$-0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9611	$0.963^{+0.021}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10518.49$; R-1 = 0.08394

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.89 commander.v3.light.clik: -7.09 CAMspec.v6.2TN_2013_01_18.clik: 7817.24 actspt_2013_01.clik: 693.34 Hubble - HST: 0.00

16.13 base_w_planck_CAMspec_lowL_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02207	$0.02209^{+0.00052}_{-0.00050}$	β_3^2	0.09	$0.0^{+1.9}_{-2.1}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9850	$0.984^{+0.039}_{-0.035}$
$\Omega_c h^2$	0.1195	$0.1195^{+0.0051}_{-0.0051}$	β_4^2	0.11	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9856	$0.988^{+0.019}_{-0.019}$
θ	1.04137	$1.0413^{+0.0013}_{-0.0012}$	β_5^2	-0.29	$-0.4^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0134	$1.023^{+0.046}_{-0.044}$
τ	0.0967	$0.090^{+0.025}_{-0.025}$	β_1^3	0.70	$0.7^{+1.9}_{-1.9}$	Ω_Λ	0.7222	$0.721^{+0.035}_{-0.037}$
w	-1.136	$-1.13^{+0.13}_{-0.14}$	β_2^3	-0.62	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.2778	$0.279^{+0.037}_{-0.035}$
n_s	0.9596	$0.959^{+0.014}_{-0.013}$	β_3^3	0.21	$0.2^{+2.0}_{-2.1}$	σ_8	0.8721	$0.864^{+0.048}_{-0.047}$
$\log[10^{10} A_s]$	3.1017	$3.089^{+0.046}_{-0.048}$	β_4^3	-0.32	$-0.4^{+2.1}_{-2.0}$	z_{re}	11.68	$11.1^{+2.0}_{-2.2}$
A_{100}^{PS}	176	187^{+80}_{-80}	β_5^3	-0.28	$-0.4^{+1.8}_{-1.9}$	H_0	71.56	$71.4^{+4.3}_{-4.0}$
A_{143}^{PS}	75.7	76^{+20}_{-20}	β_1^4	-0.31	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.224	$2.20^{+0.10}_{-0.10}$
A_{217}^{PS}	65.0	63^{+20}_{-20}	β_2^4	-0.19	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14226	$0.1422^{+0.0049}_{-0.0047}$
A_{143}^{CIB}	2.76	—	β_3^4	0.16	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.1018	$0.1016^{+0.0061}_{-0.0058}$
A_{217}^{CIB}	46.4	44^{+9}_{-9}	β_4^4	0.05	$0.1^{+1.9}_{-1.8}$	Y_{He}	0.247711	$0.24772^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	4.34	—	β_5^4	0.14	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8327	$1.832^{+0.024}_{-0.023}$
$r_{PS143/217}$	0.811	> 0.711	$A_{\text{PS,ACT}}^{148}$	10.44	$10.6^{+1.1}_{-1.1}$	Age/Gyr	13.734	$13.74^{+0.10}_{-0.10}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.9	$81.4^{+7.4}_{-7.8}$	z_*	1090.37	$1090.34^{+0.96}_{-0.97}$
n^{CIB}	0.510	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.36	$7.53^{+3.0}_{-2.8}$	r_*	144.77	$144.8^{+1.2}_{-1.2}$
$c_{100/143}$	1.00060	$1.00062^{+0.00076}_{-0.00075}$	$A_{\text{PS,SPT}}^{150}$	10.10	$10.33^{+0.95}_{-0.90}$	θ_*	1.04152	$1.0415^{+0.0013}_{-0.0012}$
$c_{217/143}$	0.99945	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.9	$78.0^{+8.6}_{-7.7}$	z_{drag}	1059.28	$1059.3^{+1.1}_{-1.0}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.764	> 0.669	r_{drag}	147.54	$147.5^{+1.1}_{-1.2}$
A^{kSZ}	2.57	—	$r_{\text{PS}}^{95/220}$	0.512	$0.56^{+0.25}_{-0.20}$	k_D	0.14006	$0.1401^{+0.0013}_{-0.0012}$
β_1^1	0.65	$0.5^{+1.6}_{-1.5}$	$r_{\text{PS}}^{150/220}$	0.9161	> 0.904	θ_D	0.16137	$0.16135^{+0.00060}_{-0.00063}$
β_2^1	0.17	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.437	< 0.747	z_{EQ}	3384	3384^{+120}_{-110}
β_3^1	0.02	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.841	$0.84^{+0.40}_{-0.39}$	θ_{EQ}	0.8161	$0.816^{+0.023}_{-0.021}$
β_4^1	0.08	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9916	$0.992^{+0.013}_{-0.014}$	$r_s/D_v(0.57)$	0.07257	$0.0725^{+0.0018}_{-0.0018}$
β_5^1	-0.16	$-0.1^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0017	$1.006^{+0.027}_{-0.026}$	$H(0.57)$	0.00030904	$0.0003091^{+0.0000038}_{-0.0000041}$
β_1^2	-0.999	$-1.20^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9879	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1359.5	1361^{+35}_{-35}
β_2^2	0.02	$-0.3^{+1.8}_{-2.0}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9604	$0.963^{+0.021}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10945.25$; R-1 = 0.11524

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.84 commander.v3.light.clik: -6.78 CAMspec.v6.2TN_2013_01_18.clik: 7816.96 actspt_2013_01.clik: 693.76 SN - SNLS April.2012: 426.39

16.14 base_w_planck_CAMspec_lowL_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02208	$0.02206^{+0.00050}_{-0.00051}$	β_3^2	0.13	$0.0^{+2.0}_{-2.1}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9847	$0.984^{+0.039}_{-0.035}$
$\Omega_c h^2$	0.1195	$0.1199^{+0.0053}_{-0.0048}$	β_4^2	0.20	$0.3^{+1.9}_{-2.1}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9854	$0.988^{+0.019}_{-0.019}$
θ	1.04134	$1.0413^{+0.0012}_{-0.0013}$	β_5^2	-0.30	$-0.4^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0149	$1.022^{+0.046}_{-0.043}$
τ	0.0964	$0.090^{+0.025}_{-0.024}$	β_1^3	0.82	$0.7^{+1.9}_{-1.9}$	Ω_Λ	0.7048	$0.708^{+0.041}_{-0.046}$
w	-1.066	$-1.09^{+0.17}_{-0.17}$	β_2^3	-0.57	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.2952	$0.292^{+0.046}_{-0.041}$
n_s	0.9592	$0.958^{+0.014}_{-0.014}$	β_3^3	0.37	$0.2^{+2.0}_{-2.0}$	σ_8	0.852	$0.855^{+0.054}_{-0.055}$
$\log[10^{10} A_s]$	3.1012	$3.089^{+0.049}_{-0.047}$	β_4^3	-0.60	$-0.4^{+2.0}_{-2.0}$	z_{re}	11.66	$11.1^{+2.1}_{-2.2}$
A_{100}^{PS}	175	187^{+80}_{-80}	β_5^3	-0.34	$-0.4^{+1.8}_{-1.9}$	H_0	69.42	$70.1^{+5.0}_{-4.8}$
A_{143}^{PS}	75.7	76^{+20}_{-20}	β_1^4	-0.29	$-0.4^{+1.9}_{-1.9}$	$10^9 A_s$	2.222	$2.20^{+0.11}_{-0.10}$
A_{217}^{PS}	64.5	64^{+20}_{-20}	β_2^4	-0.22	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14227	$0.1427^{+0.0049}_{-0.0046}$
A_{143}^{CIB}	2.92	—	β_3^4	0.00	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0988	$0.09995^{+0.0074}_{-0.0071}$
A_{217}^{CIB}	47.1	44^{+9}_{-9}	β_4^4	0.07	$0.2^{+1.9}_{-1.8}$	Y_{He}	0.247715	$0.24771^{+0.00021}_{-0.00022}$
A_{143}^{tSZ}	4.64	—	β_5^4	0.26	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.834^{+0.025}_{-0.023}$
$r_{PS143/217}$	0.819	> 0.712	$A_{\text{PS,ACT}}^{148}$	10.43	$10.7^{+1.1}_{-1.1}$	Age/Gyr	13.772	$13.76^{+0.11}_{-0.11}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.7	$81.3^{+7.4}_{-7.8}$	z_*	1090.35	$1090.42^{+0.99}_{-0.96}$
n^{CIB}	0.515	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.22	$7.52^{+2.9}_{-2.8}$	r_*	144.76	$144.7^{+1.1}_{-1.1}$
$c_{100/143}$	1.00064	$1.00062^{+0.00077}_{-0.00075}$	$A_{\text{PS,SPT}}^{150}$	10.07	$10.32^{+0.94}_{-0.90}$	θ_*	1.04150	$1.0414^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99921	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.6	$78.0^{+8.5}_{-7.6}$	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.0}$
$\xi^{tSZ-CIB}$	0.002	—	$r_{\text{PS}}^{95/150}$	0.776	> 0.670	r_{drag}	147.53	$147.5^{+1.1}_{-1.2}$
A^{kSZ}	2.16	—	$r_{\text{PS}}^{95/220}$	0.530	$0.56^{+0.25}_{-0.20}$	k_D	0.14008	$0.1401^{+0.0013}_{-0.0011}$
β_1^1	0.61	$0.5^{+1.6}_{-1.5}$	$r_{\text{PS}}^{150/220}$	0.9160	> 0.905	θ_D	0.16136	$0.16137^{+0.00062}_{-0.00063}$
β_2^1	-0.07	$-0.1^{+2.0}_{-2.0}$	$A_{\text{dust,s}}$	0.428	< 0.744	z_{EQ}	3384	3393^{+120}_{-110}
β_3^1	0.19	$0.1^{+2.0}_{-2.0}$	$A_{\text{dust,e}}$	0.868	$0.84^{+0.40}_{-0.39}$	θ_{EQ}	0.8161	$0.814^{+0.021}_{-0.022}$
β_4^1	-0.03	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9915	$0.992^{+0.013}_{-0.014}$	$r_s/D_v(0.57)$	0.07207	$0.0721^{+0.0019}_{-0.0018}$
β_5^1	0.01	$-0.1^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0023	$1.005^{+0.027}_{-0.026}$	$H(0.57)$	0.00030956	$0.0003090^{+0.0000037}_{-0.0000041}$
β_1^2	-1.08	$-1.18^{+1.7}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9884	$0.988^{+0.015}_{-0.014}$	$DA(0.57)$	1374.7	1372^{+42}_{-40}
β_2^2	-0.20	$-0.3^{+1.9}_{-2.1}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9605	$0.963^{+0.021}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10649.00$; R-1 = 0.10386

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.78 commander.v3.light.clik: -6.50 CAMspec.v6.2TN_2013_01_18.clik: 7817.11 actspt_2013_01.clik: 693.65 SN - Union2.1: 129.82

16.15 base_w_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02257	$0.0227^{+0.0011}_{-0.00099}$	z_{re}	10.77	$10.7^{+2.2}_{-2.2}$	z_{drag}	1060.12	$1060.2^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1148	$0.1136^{+0.0094}_{-0.0097}$	H_0	69.2	71^{+30}_{-20}	r_{drag}	148.25	$148.5^{+2.4}_{-2.4}$
θ	1.04003	$1.0402^{+0.0046}_{-0.0045}$	$10^9 A_s$	2.217	$2.20^{+0.14}_{-0.12}$	k_D	0.13969	$0.1395^{+0.0027}_{-0.0027}$
τ	0.0891	$0.089^{+0.028}_{-0.026}$	$\Omega_m h^2$	0.1380	$0.1369^{+0.0091}_{-0.0093}$	θ_D	0.16062	$0.1606^{+0.0010}_{-0.00098}$
w	-1.00	$-1.03^{+0.68}_{-0.81}$	$\Omega_m h^3$	0.0954	$0.098^{+0.038}_{-0.030}$	z_{EQ}	3282	3256^{+220}_{-220}
n_s	0.9733	$0.975^{+0.031}_{-0.027}$	Y_{He}	0.247926	$0.24797^{+0.00045}_{-0.00042}$	θ_{EQ}	0.8354	$0.841^{+0.047}_{-0.042}$
$\log[10^{10} A_s]$	3.099	$3.093^{+0.060}_{-0.057}$	$10^9 A_s e^{-2\tau}$	1.855	$1.844^{+0.061}_{-0.060}$	$r_s/D_v(0.57)$	0.0728	$0.0725^{+0.0066}_{-0.0076}$
A_{SZ}	0.00	—	Age/Gyr	13.78	$13.83^{+0.71}_{-0.47}$	$H(0.57)$	0.0003118	$0.0003085^{+0.0000098}_{-0.000013}$
Ω_Λ	0.711	$0.70^{+0.16}_{-0.23}$	z_*	1089.31	$1089.1^{+1.7}_{-1.8}$	$DA(0.57)$	1369	1380^{+200}_{-200}
Ω_m	0.289	$0.30^{+0.23}_{-0.16}$	r_*	145.63	$145.9^{+2.4}_{-2.3}$			
σ_8	0.816	$0.81^{+0.26}_{-0.25}$	θ_*	1.04015	$1.0403^{+0.0046}_{-0.0045}$			

Best-fit $\chi^2_{\text{eff}} = 7557.83$; R-1 = 0.01319

χ^2_{eff} : CMB - WMAP: 7557.83

16.16 base_w_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02244	$0.0226^{+0.0011}_{-0.00098}$	z_{re}	10.78	$10.7^{+2.2}_{-2.2}$	z_{drag}	1059.93	$1060.1^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1163	$0.1152^{+0.0080}_{-0.0089}$	H_0	68.5	$68.1^{+6.5}_{-5.1}$	r_{drag}	147.98	$148.2^{+2.2}_{-2.1}$
θ	1.03958	$1.0398^{+0.0048}_{-0.0043}$	$10^9 A_s$	2.222	$2.21^{+0.13}_{-0.13}$	k_D	0.13988	$0.1398^{+0.0026}_{-0.0024}$
τ	0.0883	$0.088^{+0.028}_{-0.026}$	$\Omega_m h^2$	0.1394	$0.1384^{+0.0080}_{-0.0086}$	θ_D	0.16068	$0.1606^{+0.0011}_{-0.0010}$
w	-1.006	$-0.98^{+0.25}_{-0.31}$	$\Omega_m h^3$	0.0955	$0.094^{+0.013}_{-0.012}$	z_{EQ}	3316	3292^{+190}_{-210}
n_s	0.9693	$0.971^{+0.027}_{-0.023}$	Y_{He}	0.247870	$0.24792^{+0.00044}_{-0.00042}$	θ_{EQ}	0.8282	$0.834^{+0.043}_{-0.035}$
$\log[10^{10} A_s]$	3.101	$3.096^{+0.059}_{-0.060}$	$10^9 A_s e^{-2\tau}$	1.862	$1.852^{+0.053}_{-0.056}$	$r_s/D_v(0.57)$	0.07223	$0.0723^{+0.0015}_{-0.0014}$
A_{SZ}	0.00	—	Age/Gyr	13.809	$13.82^{+0.18}_{-0.19}$	$H(0.57)$	0.0003105	$0.0003109^{+0.0000066}_{-0.0000077}$
Ω_Λ	0.7027	$0.701^{+0.043}_{-0.038}$	z_*	1089.61	$1089.4^{+1.5}_{-1.7}$	$DA(0.57)$	1378.6	1381^{+39}_{-38}
Ω_m	0.2973	$0.299^{+0.038}_{-0.043}$	r_*	145.32	$145.5^{+2.2}_{-2.0}$			
σ_8	0.823	$0.81^{+0.11}_{-0.11}$	θ_*	1.03970	$1.0399^{+0.0048}_{-0.0043}$			

Best-fit $\chi^2_{\text{eff}} = 7559.32$; R-1 = 0.02882

χ^2_{eff} : BAO - 6DF: 0.06 DR7: 0.38 DR9: 0.79 CMB - WMAP: 7558.09

16.17 base_w_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02257	$0.02262^{+0.00099}_{-0.00091}$	z_{re}	10.84	$10.7^{+2.1}_{-2.2}$	z_{drag}	1060.09	$1060.1^{+2.2}_{-2.1}$
$\Omega_c h^2$	0.1144	$0.1139^{+0.0089}_{-0.0089}$	H_0	74.0	$74.0^{+5.1}_{-5.2}$	r_{drag}	148.36	$148.5^{+2.4}_{-2.4}$
θ	1.04011	$1.0401^{+0.0044}_{-0.0043}$	$10^9 A_s$	2.218	$2.21^{+0.13}_{-0.12}$	k_D	0.13959	$0.1395^{+0.0028}_{-0.0027}$
τ	0.0902	$0.089^{+0.027}_{-0.026}$	$\Omega_m h^2$	0.1376	$0.1371^{+0.0088}_{-0.0086}$	θ_D	0.16065	$0.16063^{+0.00099}_{-0.00097}$
w	-1.142	$-1.14^{+0.21}_{-0.23}$	$\Omega_m h^3$	0.1019	$0.1015^{+0.0099}_{-0.0094}$	z_{EQ}	3273	3261^{+210}_{-200}
n_s	0.9731	$0.973^{+0.025}_{-0.024}$	Y_{He}	0.247926	$0.24794^{+0.00041}_{-0.00039}$	θ_{EQ}	0.8371	$0.840^{+0.043}_{-0.039}$
$\log[10^{10} A_s]$	3.099	$3.093^{+0.057}_{-0.057}$	$10^9 A_s e^{-2\tau}$	1.852	$1.845^{+0.059}_{-0.061}$	$r_s/D_v(0.57)$	0.07416	$0.0742^{+0.0026}_{-0.0026}$
A_{sz}	0.02	—	Age/Gyr	13.686	$13.69^{+0.18}_{-0.17}$	$H(0.57)$	0.0003114	$0.0003117^{+0.000083}_{-0.000084}$
Ω_Λ	0.7489	$0.749^{+0.035}_{-0.041}$	z_*	1089.28	$1089.2^{+1.6}_{-1.6}$	$DA(0.57)$	1332.0	1332^{+44}_{-42}
Ω_m	0.2511	$0.251^{+0.041}_{-0.035}$	r_*	145.73	$145.9^{+2.3}_{-2.3}$			
σ_8	0.857	$0.848^{+0.090}_{-0.090}$	θ_*	1.04022	$1.0402^{+0.0044}_{-0.0043}$			

Best-fit $\chi_{\text{eff}}^2 = 7557.98$; R-1 = 0.03683

χ_{eff}^2 : CMB - WMAP: 7557.98 Hubble - HST: 0.00

16.18 base_w_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02261	$0.02265^{+0.00098}_{-0.00098}$	z_{re}	10.70	$10.7^{+2.2}_{-2.1}$	z_{drag}	1060.20	$1060.2^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.1149	$0.1131^{+0.0086}_{-0.0083}$	H_0	72.09	$72.1^{+5.1}_{-4.5}$	r_{drag}	148.18	$148.7^{+2.3}_{-2.3}$
θ	1.04047	$1.0402^{+0.0044}_{-0.0044}$	$10^9 A_s$	2.217	$2.20^{+0.13}_{-0.13}$	k_D	0.13980	$0.1393^{+0.0027}_{-0.0027}$
τ	0.0885	$0.090^{+0.027}_{-0.025}$	$\Omega_m h^2$	0.1381	$0.1364^{+0.0084}_{-0.0084}$	θ_D	0.16064	$0.1606^{+0.0011}_{-0.0010}$
w	-1.086	$-1.07^{+0.15}_{-0.16}$	$\Omega_m h^3$	0.0996	$0.0982^{+0.0077}_{-0.0074}$	z_{EQ}	3286	3243^{+200}_{-200}
n_s	0.9739	$0.974^{+0.024}_{-0.024}$	Y_{He}	0.247942	$0.24796^{+0.00041}_{-0.00042}$	θ_{EQ}	0.8351	$0.844^{+0.041}_{-0.039}$
$\log[10^{10} A_s]$	3.099	$3.092^{+0.057}_{-0.060}$	$10^9 A_s e^{-2\tau}$	1.857	$1.840^{+0.059}_{-0.061}$	$r_s/D_v(0.57)$	0.07363	$0.0740^{+0.0030}_{-0.0029}$
A_{sz}	0.00	—	Age/Gyr	13.708	$13.72^{+0.21}_{-0.20}$	$H(0.57)$	0.0003119	$0.0003127^{+0.000081}_{-0.000079}$
Ω_Λ	0.7342	$0.736^{+0.041}_{-0.043}$	z_*	1089.27	$1089.1^{+1.6}_{-1.6}$	$DA(0.57)$	1345	1343^{+50}_{-52}
Ω_m	0.2658	$0.264^{+0.043}_{-0.041}$	r_*	145.57	$146.0^{+2.2}_{-2.3}$			
σ_8	0.842	$0.825^{+0.074}_{-0.071}$	θ_*	1.04057	$1.0403^{+0.0043}_{-0.0044}$			

Best-fit $\chi_{\text{eff}}^2 = 7983.89$; R-1 = 0.05442

χ_{eff}^2 : CMB - WMAP: 7557.91 SN - SNLS April_2012: 425.98

16.19 base_w_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02262	$0.0226^{+0.0010}_{-0.00097}$	z_{re}	10.85	$10.7^{+2.2}_{-2.2}$	z_{drag}	1060.20	$1060.2^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1148	$0.1138^{+0.0088}_{-0.0089}$	H_0	70.2	$70.0^{+5.6}_{-5.2}$	r_{drag}	148.20	$148.5^{+2.4}_{-2.4}$
θ	1.04040	$1.0401^{+0.0044}_{-0.0045}$	$10^9 A_s$	2.224	$2.21^{+0.13}_{-0.13}$	k_D	0.13978	$0.1395^{+0.0028}_{-0.0026}$
τ	0.0903	$0.089^{+0.028}_{-0.026}$	$\Omega_m h^2$	0.1380	$0.1370^{+0.0088}_{-0.0086}$	θ_D	0.16062	$0.1606^{+0.0010}_{-0.0010}$
w	-1.029	$-1.01^{+0.18}_{-0.19}$	$\Omega_m h^3$	0.0969	$0.0959^{+0.0089}_{-0.0084}$	z_{EQ}	3283	3259^{+210}_{-210}
n_s	0.9744	$0.973^{+0.026}_{-0.024}$	Y_{He}	0.247946	$0.24795^{+0.00042}_{-0.00042}$	θ_{EQ}	0.8355	$0.841^{+0.043}_{-0.039}$
$\log[10^{10} A_s]$	3.102	$3.093^{+0.057}_{-0.060}$	$10^9 A_s e^{-2\tau}$	1.856	$1.844^{+0.058}_{-0.059}$	$r_s/D_v(0.57)$	0.07316	$0.0732^{+0.0032}_{-0.0028}$
A_{sz}	0.00	—	Age/Gyr	13.744	$13.76^{+0.22}_{-0.21}$	$H(0.57)$	0.0003122	$0.0003123^{+0.000073}_{-0.000076}$
Ω_Λ	0.7201	$0.719^{+0.046}_{-0.052}$	z_*	1089.25	$1089.2^{+1.7}_{-1.6}$	$DA(0.57)$	1359	1361^{+54}_{-53}
Ω_m	0.2799	$0.281^{+0.052}_{-0.046}$	r_*	145.59	$145.9^{+2.3}_{-2.3}$			
σ_8	0.826	$0.812^{+0.080}_{-0.082}$	θ_*	1.04051	$1.0402^{+0.0044}_{-0.0044}$			

Best-fit $\chi_{\text{eff}}^2 = 7687.74$; R-1 = 0.04222

χ_{eff}^2 : CMB - WMAP: 7557.89 SN - Union2.1: 129.85

16.20 base_w_planck_CAMspec_lowl_lowLike_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02204	$0.02204^{+0.00054}_{-0.00051}$	β_2^1	0.21	$0.1^{+1.9}_{-1.9}$	σ_8	0.863	$0.862^{+0.079}_{-0.071}$
$\Omega_c h^2$	0.11976	$0.1203^{+0.0047}_{-0.0048}$	β_3^1	-0.05	$0.0^{+1.9}_{-1.9}$	z_{re}	11.62	$11.0^{+2.2}_{-2.2}$
θ	1.04129	$1.0412^{+0.0012}_{-0.0012}$	β_4^1	0.32	$0.0^{+1.9}_{-2.0}$	H_0	70.4	$70.5^{+5.9}_{-4.9}$
τ	0.0957	$0.089^{+0.027}_{-0.024}$	β_5^1	-0.04	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.221	$2.19^{+0.12}_{-0.10}$
w	-1.102	$-1.12^{+0.20}_{-0.25}$	β_1^2	0.21	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14244	$0.1429^{+0.0045}_{-0.0045}$
n_s	0.9593	$0.960^{+0.014}_{-0.014}$	β_2^2	0.23	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1002	$0.101^{+0.010}_{-0.0087}$
$\log[10^{10} A_s]$	3.1004	$3.088^{+0.052}_{-0.047}$	β_3^2	0.06	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247698	$0.24770^{+0.00023}_{-0.00022}$
A_{100}^{PS}	169	149^{+100}_{-100}	β_4^2	0.22	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8338	$1.836^{+0.023}_{-0.023}$
A_{143}^{PS}	36	53^{+30}_{-30}	β_5^2	-0.13	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.758	$13.76^{+0.10}_{-0.098}$
A_{217}^{PS}	112.8	119^{+30}_{-30}	β_1^3	-0.16	$0.0^{+1.9}_{-1.9}$	z_*	1090.42	$1090.47^{+0.96}_{-0.97}$
A_{143}^{CIB}	12.6	—	β_2^3	-0.04	$-0.1^{+2.0}_{-1.9}$	r_*	144.74	$144.6^{+1.1}_{-1.1}$
A_{217}^{CIB}	27.7	21^{+10}_{-10}	β_3^3	0.13	$0.0^{+1.9}_{-2.0}$	θ_*	1.04145	$1.0414^{+0.0012}_{-0.0011}$
A_{143}^{tSZ}	6.59	—	β_4^3	-0.08	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1059.25	$1059.3^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.885	> 0.670	β_5^3	-0.17	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.51	$147.4^{+1.1}_{-1.1}$
r_{CIB}	0.515	—	β_1^4	-0.01	$-0.1^{+2.0}_{-1.9}$	k_D	0.14006	$0.1402^{+0.0012}_{-0.0012}$
n^{CIB}	0.372	$0.24^{+0.26}_{-0.30}$	β_2^4	0.18	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16140	$0.16138^{+0.00065}_{-0.00065}$
$c_{100/143}$	1.00063	$1.00061^{+0.00078}_{-0.00077}$	β_3^4	0.19	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3388	3400^{+110}_{-110}
$c_{217/143}$	0.99623	$0.9965^{+0.0025}_{-0.0025}$	β_4^4	0.04	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8152	$0.813^{+0.021}_{-0.019}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.33	$0.1^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07224	$0.0721^{+0.0012}_{-0.0012}$
A^{kSZ}	1.10	—	Ω_Λ	0.7124	$0.711^{+0.040}_{-0.040}$	$H(0.57)$	0.00030909	$0.0003085^{+0.000042}_{-0.000052}$
β_1^1	0.80	$0.5^{+1.6}_{-1.7}$	Ω_m	0.2876	$0.289^{+0.040}_{-0.040}$	$DA(0.57)$	1368.6	1371^{+35}_{-33}

Best-fit $\chi_{\text{eff}}^2 = 9806.53$; R-1 = 0.02429

χ_{eff}^2 : BAO - DR7: 0.09 6DF: 0.34 DR9: 0.81 CMB - lowlike.v22.light.clik: 2014.74 commander.v3.light.clik: -6.69 CAMspec.v6.2TN.2013_01_18.clik: 7797.24

16.21 base_w_planck_CAMspec_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02215	$0.02205^{+0.00052}_{-0.00050}$	β_2^1	0.06	$0.1^{+1.8}_{-1.9}$	σ_8	0.070	$0.861^{+0.063}_{-0.054}$
$\Omega_c h^2$	0.11956	$0.1202^{+0.0039}_{-0.0038}$	β_3^1	-0.05	$0.0^{+1.9}_{-1.9}$	z_{re}	11.36	$11.0^{+2.1}_{-2.1}$
θ	1.04132	$1.0412^{+0.0012}_{-0.0011}$	β_4^1	0.00	$0.0^{+1.9}_{-2.0}$	H_0	69.9	$70.5^{+5.5}_{-4.6}$
τ	0.0932	$0.089^{+0.026}_{-0.024}$	β_5^1	-0.02	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.210	$2.19^{+0.11}_{-0.094}$
w	-1.080	$-1.12^{+0.18}_{-0.22}$	β_1^2	-0.17	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14236	$0.1429^{+0.0037}_{-0.0037}$
n_s	0.9622	$0.959^{+0.013}_{-0.013}$	β_2^2	0.099	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.0995	$0.1008^{+0.0091}_{-0.0076}$
$\log[10^{10} A_s]$	3.0955	$3.088^{+0.048}_{-0.044}$	β_3^2	0.00	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.247747	$0.24770^{+0.00022}_{-0.00022}$
A_{100}^{PS}	169	149^{+100}_{-100}	β_4^2	-0.02	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8341	$1.835^{+0.019}_{-0.019}$
A_{143}^{PS}	47	53^{+30}_{-30}	β_5^2	0.06	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.757	$13.760^{+0.098}_{-0.097}$
A_{217}^{PS}	120.4	119^{+30}_{-30}	β_1^3	-0.09	$-0.1^{+1.9}_{-1.9}$	z_*	1090.26	$1090.45^{+0.87}_{-0.89}$
A_{143}^{CIB}	9.25	—	β_2^3	-0.11	$-0.1^{+2.0}_{-1.9}$	r_*	144.70	$144.62^{+0.91}_{-0.89}$
A_{217}^{CIB}	23.0	21^{+10}_{-10}	β_3^3	0.08	$0.0^{+1.9}_{-2.0}$	θ_*	1.04147	$1.0413^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	4.99	—	β_4^3	-0.11	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.47	$1059.3^{+1.1}_{-1.1}$
$r_{PS143/217}$	0.790	> 0.673	β_5^3	-0.11	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.44	$147.39^{+0.93}_{-0.90}$
r_{CIB}	0.479	—	β_1^4	-0.17	$-0.1^{+1.9}_{-2.0}$	k_D	0.14023	$0.1402^{+0.0011}_{-0.0011}$
n^{CIB}	0.273	$0.24^{+0.26}_{-0.30}$	β_2^4	-0.12	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16125	$0.16136^{+0.00065}_{-0.00065}$
$c_{100/143}$	1.00059	$1.00061^{+0.00078}_{-0.00076}$	β_3^4	0.12	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3386	3399^{+89}_{-88}
$c_{217/143}$	0.99629	$0.9965^{+0.0024}_{-0.0025}$	β_4^4	-0.04	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8159	$0.813^{+0.017}_{-0.016}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.04	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07218	$0.0721^{+0.0012}_{-0.0012}$
A^{kSZ}	0.6	—	Ω_Λ	0.7087	$0.712^{+0.039}_{-0.040}$	$H(0.57)$	0.00030964	$0.0003086^{+0.000036}_{-0.000044}$
β_1^1	0.40	$0.5^{+1.7}_{-1.7}$	Ω_m	0.2913	$0.288^{+0.040}_{-0.039}$	$DA(0.57)$	1370.6	1370^{+34}_{-32}

Best-fit $\chi_{\text{eff}}^2 = 9815.47$; R-1 = 0.03053

χ_{eff}^2 : BAO - DR7: 0.19 6DF: 0.25 DR9: 0.71 CMB - lowlike_v22.light.clik: 2014.48 lensing_likelihood_v3_ref.clik.lensing: 11.09 commander_v3.light.clik: -7.42 CAMspec_v6.2TN_2013_01_18.clik: 7796.16

16.22 base_w_planck_CAMspec_lowl_lowLike_highL_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02208	$0.02201^{+0.00050}_{-0.00051}$	β_3^2	-0.25	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9837	$0.984^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.11957	$0.1206^{+0.0048}_{-0.0045}$	β_4^2	0.54	$0.3^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9855	$0.988^{+0.019}_{-0.018}$
θ	1.04138	$1.0412^{+0.0012}_{-0.0012}$	β_5^2	-0.53	$-0.4^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0130	$1.021^{+0.047}_{-0.044}$
τ	0.0944	$0.088^{+0.025}_{-0.024}$	β_1^3	0.75	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.7050	$0.712^{+0.041}_{-0.040}$
w	-1.067	$-1.13^{+0.20}_{-0.26}$	β_2^3	-0.56	$-0.6^{+1.9}_{-2.0}$	Ω_m	0.2950	$0.288^{+0.040}_{-0.041}$
n_s	0.9594	$0.956^{+0.013}_{-0.013}$	β_3^3	-0.05	$0.2^{+1.9}_{-1.9}$	σ_8	0.850	$0.864^{+0.078}_{-0.069}$
$\log[10^{10} A_s]$	3.0973	$3.087^{+0.047}_{-0.047}$	β_4^3	-0.67	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.49	$11.0^{+2.1}_{-2.1}$
A_{100}^{PS}	179	187^{+80}_{-80}	β_5^3	-0.34	$-0.4^{+1.9}_{-1.9}$	H_0	69.5	$70.6^{+6.0}_{-4.9}$
A_{143}^{PS}	75.4	77^{+20}_{-20}	β_1^4	-0.32	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.214	$2.19^{+0.10}_{-0.10}$
A_{217}^{PS}	65.1	64^{+20}_{-20}	β_2^4	-0.30	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14229	$0.1432^{+0.0045}_{-0.0043}$
A_{143}^{CIB}	3.03	—	β_3^4	-0.33	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0988	$0.101^{+0.011}_{-0.0087}$
A_{217}^{CIB}	47.3	44^{+9}_{-9}	β_4^4	0.48	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.247716	$0.24768^{+0.00021}_{-0.00022}$
A_{143}^{tSZ}	4.80	—	β_5^4	0.42	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.836^{+0.023}_{-0.022}$
$r_{PS143/217}$	0.816	> 0.715	$A_{\text{PS,ACT}}^{148}$	10.44	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.770	$13.76^{+0.10}_{-0.099}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.5	$81.3^{+7.8}_{-7.9}$	z_*	1090.35	$1090.54^{+0.95}_{-0.90}$
n^{CIB}	0.516	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.16	$7.54^{+3.1}_{-2.7}$	r_*	144.75	$144.6^{+1.1}_{-1.1}$
$c_{100/143}$	1.00064	$1.00062^{+0.00077}_{-0.00076}$	$A_{\text{PS,SPT}}^{150}$	10.04	$10.32^{+0.99}_{-0.94}$	θ_*	1.04153	$1.0414^{+0.0012}_{-0.0011}$
$c_{217/143}$	0.99930	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.5	$77.9^{+8.3}_{-8.0}$	z_{drag}	1059.32	$1059.2^{+1.1}_{-1.1}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.785	> 0.663	r_{drag}	147.52	$147.3^{+1.1}_{-1.0}$
A^{kSZ}	1.83	—	$r_{\text{PS}}^{95/220}$	0.538	$0.56^{+0.24}_{-0.21}$	k_D	0.14009	$0.1402^{+0.0011}_{-0.0012}$
β_1^1	0.67	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9146	> 0.905	θ_D	0.16136	$0.16141^{+0.00064}_{-0.00062}$
β_2^1	-0.11	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,s}}$	0.417	< 0.753	z_{EQ}	3385	3407^{+110}_{-100}
β_3^1	-0.01	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.834	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8160	$0.812^{+0.019}_{-0.020}$
β_4^1	-0.07	$0.0^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9915	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07208	$0.0720^{+0.0012}_{-0.0012}$
β_5^1	-0.11	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0011	$1.005^{+0.027}_{-0.026}$	$H(0.57)$	0.00030958	$0.0003083^{+0.0000039}_{-0.0000054}$
β_1^2	-1.12	$-1.13^{+1.8}_{-1.7}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9878	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1374.4	1370^{+34}_{-34}
β_2^2	-0.32	$-0.3^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9595	$0.963^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10520.32$; R-1 = 0.02953

χ_{eff}^2 : BAO - DR9: 0.58 DR7: 0.33 6DF: 0.17 CMB - lowlike.v22.light.clik: 2014.59 commander.v3.light.clik: -6.68 CAMspec.v6.2TN_2013.01.18.clik: 7817.34 actspt_2013.01.clik: 693.94

16.23 base_w_planck_CAMspec_lowL_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.022116	$0.02203^{+0.00049}_{-0.00048}$	β_3^2	0.08	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9855	$0.984^{+0.038}_{-0.038}$
$\Omega_c h^2$	0.11986	$0.1204^{+0.0038}_{-0.0037}$	β_4^2	0.26	$0.3^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9861	$0.988^{+0.019}_{-0.019}$
θ	1.04134	$1.0412^{+0.0011}_{-0.0011}$	β_5^2	-0.53	$-0.4^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0205	$1.022^{+0.047}_{-0.044}$
τ	0.0950	$0.089^{+0.025}_{-0.023}$	β_1^3	0.90	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.7082	$0.712^{+0.038}_{-0.039}$
w	-1.086	$-1.12^{+0.18}_{-0.22}$	β_2^3	-0.75	$-0.6^{+2.0}_{-2.0}$	Ω_m	0.2918	$0.288^{+0.039}_{-0.038}$
n_s	0.9592	$0.957^{+0.012}_{-0.012}$	β_3^3	0.23	$0.2^{+1.9}_{-1.9}$	σ_8	0.071	$0.864^{+0.063}_{-0.056}$
$\log[10^{10} A_s]$	3.0998	$3.088^{+0.045}_{-0.043}$	β_4^3	-0.49	$-0.4^{+1.9}_{-2.0}$	z_{re}	11.54	$11.0^{+2.0}_{-2.1}$
A_{100}^{PS}	180	188^{+80}_{-80}	β_5^3	-0.43	$-0.4^{+1.9}_{-1.9}$	H_0	69.9	$70.7^{+5.5}_{-4.6}$
A_{143}^{PS}	76.0	76^{+20}_{-20}	β_1^4	-0.17	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.219	$2.19^{+0.10}_{-0.093}$
A_{217}^{PS}	62.1	64^{+20}_{-20}	β_2^4	-0.15	$-0.3^{+1.9}_{-2.0}$	$\Omega_m h^2$	0.14262	$0.1431^{+0.0036}_{-0.0035}$
A_{143}^{CIB}	2.75	—	β_3^4	-0.15	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0997	$0.1011^{+0.0092}_{-0.0077}$
A_{217}^{CIB}	47.8	44^{+9}_{-9}	β_4^4	0.10	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247731	$0.24769^{+0.00021}_{-0.00021}$
A_{143}^{tSZ}	4.13	—	β_5^4	0.28	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8353	$1.836^{+0.019}_{-0.019}$
$r_{PS143/217}$	0.823	> 0.714	$A_{\text{PS,ACT}}^{148}$	10.63	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.759	$13.759^{+0.098}_{-0.10}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.7	$81.4^{+7.7}_{-7.9}$	z_*	1090.33	$1090.50^{+0.84}_{-0.81}$
n^{CIB}	0.530	$0.49^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.81	$7.52^{+3.2}_{-2.8}$	r_*	144.65	$144.58^{+0.88}_{-0.87}$
$c_{100/143}$	1.00063	$1.00062^{+0.00077}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.28	$10.3^{+1.0}_{-0.94}$	θ_*	1.04149	$1.0414^{+0.0011}_{-0.0011}$
$c_{217/143}$	0.99930	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.8	$78.0^{+8.1}_{-7.7}$	z_{drag}	1059.40	$1059.2^{+1.1}_{-1.0}$
$\xi^{tSZ-CIB}$	0.000	—	$r_{\text{PS}}^{95/150}$	0.758	> 0.668	r_{drag}	147.40	$147.36^{+0.90}_{-0.89}$
A^{kSZ}	2.06	—	$r_{\text{PS}}^{95/220}$	0.502	$0.56^{+0.25}_{-0.21}$	k_D	0.14024	$0.1402^{+0.0011}_{-0.0011}$
β_1^1	0.69	$0.5^{+1.5}_{-1.5}$	$r_{\text{PS}}^{150/220}$	0.9120	> 0.906	θ_D	0.16129	$0.16139^{+0.00063}_{-0.00062}$
β_2^1	-0.18	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,s}}$	0.425	< 0.752	z_{EQ}	3393	3404^{+85}_{-84}
β_3^1	0.07	$0.0^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.856	$0.85^{+0.40}_{-0.40}$	θ_{EQ}	0.8146	$0.812^{+0.016}_{-0.016}$
β_4^1	-0.08	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9922	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07212	$0.0721^{+0.0012}_{-0.0012}$
β_5^1	-0.21	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0048	$1.005^{+0.028}_{-0.026}$	$H(0.57)$	0.00030941	$0.0003084^{+0.0000034}_{-0.0000045}$
β_1^2	-0.99	$-1.15^{+1.7}_{-1.7}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9885	$0.989^{+0.014}_{-0.014}$	$DA(0.57)$	1371.3	1369^{+34}_{-33}
β_2^2	-0.30	$-0.3^{+2.0}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9632	$0.963^{+0.021}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10529.93$; R-1 = 0.03747

χ_{eff}^2 : BAO - DR9: 0.63 6DF: 0.25 DR7: 0.23 CMB - lowlike_v22.light.clik: 2014.66 lensing_likelihood_v3_ref.clik.lensing: 11.14 commander_v3.light.clik: -6.54 CAMspec_v6.2TN_2013_01_18.clik: 7818.08 actspt_2013_01.clik: 691.39

16.24 base_w_planck_CAMspec_lowl_lowLike_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02216	$0.02212^{+0.00055}_{-0.00054}$	β_1^1	0.36	$0.5^{+1.7}_{-1.7}$	σ_8	0.8679	$0.864^{+0.049}_{-0.050}$
$\Omega_c h^2$	0.1188	$0.1191^{+0.0051}_{-0.0050}$	β_2^1	0.14	$0.1^{+1.9}_{-1.9}$	z_{re}	11.61	$11.1^{+2.1}_{-2.1}$
θ	1.04139	$1.0414^{+0.0013}_{-0.0013}$	β_3^1	0.25	$0.0^{+2.0}_{-2.0}$	H_0	71.89	$71.6^{+4.4}_{-4.1}$
τ	0.0964	$0.091^{+0.026}_{-0.024}$	β_4^1	-0.13	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.217	$2.20^{+0.11}_{-0.10}$
w	-1.133	$-1.13^{+0.13}_{-0.14}$	β_5^1	-0.02	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14156	$0.1419^{+0.0048}_{-0.0048}$
n_s	0.9619	$0.962^{+0.015}_{-0.015}$	β_1^2	-0.14	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^3$	0.1018	$0.1016^{+0.0060}_{-0.0060}$
$\log[10^{10} A_s]$	3.0988	$3.089^{+0.050}_{-0.047}$	β_2^2	0.11	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.247751	$0.24773^{+0.00024}_{-0.00024}$
α_{SNLS}	1.409	$1.43^{+0.22}_{-0.20}$	β_3^2	-0.03	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8283	$1.831^{+0.025}_{-0.024}$
β_{SNLS}	3.264	$3.26^{+0.22}_{-0.21}$	β_4^2	0.19	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.721	$13.73^{+0.11}_{-0.11}$
A_{100}^{PS}	144	147^{+100}_{-100}	β_5^2	0.15	$-0.1^{+1.9}_{-2.0}$	z_*	1090.17	$1090.3^{+1.1}_{-1.0}$
A_{143}^{PS}	45	53^{+30}_{-30}	β_1^3	0.00	$0.0^{+1.9}_{-1.9}$	r_*	144.90	$144.8^{+1.2}_{-1.1}$
A_{217}^{PS}	113.8	119^{+30}_{-30}	β_2^3	0.05	$-0.1^{+2.0}_{-1.9}$	θ_*	1.04154	$1.0416^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	9.86	—	β_3^3	-0.07	$0.0^{+2.0}_{-2.0}$	z_{drag}	1059.44	$1059.4^{+1.1}_{-1.1}$
A_{217}^{CIB}	24.1	21^{+10}_{-10}	β_4^3	-0.13	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.65	$147.6^{+1.2}_{-1.1}$
A_{143}^{tSZ}	7.09	—	β_5^3	-0.02	$-0.1^{+2.0}_{-2.0}$	k_D	0.14002	$0.1400^{+0.0012}_{-0.0012}$
$r_{PS143/217}$	0.838	> 0.670	β_1^4	-0.08	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16127	$0.16133^{+0.00065}_{-0.00063}$
r_{CIB}	0.545	—	β_2^4	-0.11	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3367	3375^{+120}_{-110}
n^{CIB}	0.279	$0.24^{+0.26}_{-0.30}$	β_3^4	0.07	$-0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8194	$0.818^{+0.022}_{-0.022}$
$c_{100/143}$	1.00059	$1.00061^{+0.00077}_{-0.00078}$	β_4^4	0.02	$0.0^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07284	$0.0727^{+0.0019}_{-0.0018}$
$c_{217/143}$	0.99626	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.23	$0.0^{+1.9}_{-2.0}$	$H(0.57)$	0.00030963	$0.0003094^{+0.000040}_{-0.000041}$
$\xi^{tSZ-CIB}$	0.32	—	Ω_Λ	0.7261	$0.722^{+0.035}_{-0.038}$	$DA(0.57)$	1354.8	1359^{+37}_{-37}
A^{kSZ}	3.50	—	Ω_m	0.2739	$0.278^{+0.038}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 10225.15$; R-1 = 0.02770

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.71 commander.v3.light.clik: -7.43 CAMspec_v6.2TN_2013_01_18.clik: 7796.77 SN - SNLS
 April_2012: 421.10

16.25 base_w_planck_CAMSpec_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02225	$0.02214^{+0.00053}_{-0.00052}$	β_1^1	0.53	$0.5^{+1.7}_{-1.7}$	σ_8	0.0716	$0.866^{+0.041}_{-0.041}$
$\Omega_c h^2$	0.11850	$0.1192^{+0.0044}_{-0.0042}$	β_2^1	0.25	$0.1^{+1.9}_{-1.9}$	z_{re}	11.61	$11.2^{+2.0}_{-2.0}$
θ	1.04152	$1.0414^{+0.0012}_{-0.0012}$	β_3^1	-0.03	$0.0^{+1.9}_{-2.0}$	H_0	71.66	$71.7^{+4.4}_{-4.1}$
τ	0.0968	$0.092^{+0.026}_{-0.024}$	β_4^1	-0.04	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.221	$2.20^{+0.11}_{-0.096}$
w	-1.118	$-1.13^{+0.13}_{-0.13}$	β_5^1	-0.05	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14139	$0.1420^{+0.0041}_{-0.0040}$
n_s	0.9653	$0.962^{+0.014}_{-0.014}$	β_1^2	-0.18	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^3$	0.1013	$0.1018^{+0.0059}_{-0.0057}$
$\log[10^{10} A_s]$	3.1007	$3.092^{+0.047}_{-0.044}$	β_2^2	-0.08	$0.0^{+2.0}_{-1.9}$	Y_{He}	0.247788	$0.24774^{+0.00023}_{-0.00023}$
α_{SNLS}	1.418	$1.43^{+0.22}_{-0.20}$	β_3^2	-0.12	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8304	$1.832^{+0.021}_{-0.020}$
β_{SNLS}	3.259	$3.26^{+0.22}_{-0.21}$	β_4^2	0.07	$0.1^{+2.0}_{-1.9}$	Age/Gyr	13.715	$13.73^{+0.10}_{-0.11}$
A_{100}^{PS}	140	147^{+100}_{-100}	β_5^2	-0.08	$-0.1^{+1.9}_{-2.0}$	z_*	1090.04	$1090.24^{+0.95}_{-0.91}$
A_{143}^{PS}	50.8	52^{+30}_{-30}	β_1^3	-0.07	$-0.1^{+1.9}_{-1.8}$	r_*	144.90	$144.80^{+0.98}_{-0.96}$
A_{217}^{PS}	124.8	119^{+30}_{-30}	β_2^3	0.00	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04165	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	5.41	—	β_3^3	0.00	$0.0^{+2.0}_{-2.0}$	z_{drag}	1059.63	$1059.4^{+1.1}_{-1.1}$
A_{217}^{CIB}	19.9	21^{+10}_{-10}	β_4^3	-0.20	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.62	$147.54^{+0.98}_{-0.97}$
A_{143}^{tSZ}	6.47	—	β_5^3	-0.12	$-0.1^{+2.0}_{-2.0}$	k_D	0.14012	$0.1401^{+0.0011}_{-0.0011}$
$r_{PS143/217}$	0.768	> 0.671	β_1^4	-0.15	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16118	$0.16129^{+0.00066}_{-0.00064}$
r_{CIB}	0.484	—	β_2^4	-0.12	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3363	3378^{+98}_{-97}
n^{CIB}	0.199	$0.24^{+0.26}_{-0.30}$	β_3^4	-0.14	$-0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8205	$0.818^{+0.019}_{-0.018}$
$c_{100/143}$	1.00062	$1.00061^{+0.00075}_{-0.00077}$	β_4^4	0.08	$0.0^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07286	$0.0727^{+0.0017}_{-0.0016}$
$c_{217/143}$	0.99661	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.01	$0.1^{+2.0}_{-2.0}$	$H(0.57)$	0.00031017	$0.0003094^{+0.000035}_{-0.000036}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7246	$0.723^{+0.035}_{-0.037}$	$DA(0.57)$	1354.9	1358^{+36}_{-36}
A^{kSZ}	1.35	—	Ω_m	0.2754	$0.277^{+0.037}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 10234.74$; R-1 = 0.02621

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.68 lensing_likelihood.v3.ref.clik.lensing: 10.88 commander.v3.light.clik: -7.98 CAMSpec.v6.2TN_2013_01_18.clik
7796.17 SN - SNLS April.2012: 420.98

16.26 base_w_planck_CAMspec_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02205	$0.02204^{+0.00051}_{-0.00050}$	β_1^1	0.49	$0.5^{+1.7}_{-1.7}$	σ_8	0.8652	$0.863^{+0.050}_{-0.048}$
$\Omega_c h^2$	0.12016	$0.1203^{+0.0042}_{-0.0042}$	β_2^1	0.10	$0.1^{+1.9}_{-1.9}$	z_{re}	11.31	$11.0^{+2.1}_{-2.1}$
θ	1.04124	$1.0412^{+0.0012}_{-0.0012}$	β_3^1	0.01	$0.0^{+1.9}_{-2.0}$	H_0	70.60	$70.6^{+3.1}_{-3.0}$
τ	0.0921	$0.089^{+0.026}_{-0.023}$	β_4^1	-0.10	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.207	$2.19^{+0.11}_{-0.10}$
w	-1.116	$-1.12^{+0.13}_{-0.14}$	β_5^1	-0.05	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14286	$0.1430^{+0.0040}_{-0.0040}$
n_s	0.9604	$0.959^{+0.013}_{-0.013}$	β_1^2	0.05	$-0.1^{+1.9}_{-1.8}$	$\Omega_m h^3$	0.1009	$0.1010^{+0.0058}_{-0.0055}$
$\log[10^{10} A_s]$	3.0943	$3.087^{+0.049}_{-0.047}$	β_2^2	-0.03	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.247702	$0.24770^{+0.00022}_{-0.00022}$
α_{SNLS}	1.421	$1.43^{+0.22}_{-0.20}$	β_3^2	0.03	$-0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8359	$1.836^{+0.021}_{-0.021}$
β_{SNLS}	3.252	$3.26^{+0.22}_{-0.21}$	β_4^2	-0.02	$0.0^{+2.0}_{-2.0}$	Age/Gyr	13.754	$13.756^{+0.078}_{-0.080}$
A_{100}^{PS}	160	149^{+100}_{-100}	β_5^2	-0.17	$-0.2^{+2.0}_{-2.0}$	z_*	1090.44	$1090.47^{+0.92}_{-0.86}$
A_{143}^{PS}	51.6	53^{+30}_{-30}	β_1^3	0.02	$0.0^{+1.8}_{-1.8}$	r_*	144.62	$144.60^{+0.97}_{-0.97}$
A_{217}^{PS}	126.0	119^{+30}_{-30}	β_2^3	-0.06	$-0.1^{+1.9}_{-2.0}$	θ_*	1.04140	$1.0414^{+0.0012}_{-0.0011}$
A_{143}^{CIB}	7.97	—	β_3^3	0.08	$0.0^{+2.0}_{-2.0}$	z_{drag}	1059.28	$1059.3^{+1.1}_{-1.1}$
A_{217}^{CIB}	21.8	21^{+10}_{-10}	β_4^3	-0.11	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.40	$147.38^{+0.99}_{-1.0}$
A_{143}^{tSZ}	6.14	—	β_5^3	-0.06	$-0.1^{+2.0}_{-2.0}$	k_D	0.14019	$0.1402^{+0.0011}_{-0.0011}$
$r_{PS143/217}$	0.772	> 0.669	β_1^4	0.02	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16136	$0.16138^{+0.00064}_{-0.00062}$
r_{CIB}	0.535	—	β_2^4	0.08	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3398	3401^{+96}_{-95}
n^{CIB}	0.207	$0.25^{+0.26}_{-0.30}$	β_3^4	-0.08	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8134	$0.813^{+0.018}_{-0.017}$
$c_{100/143}$	1.00061	$1.00060^{+0.00076}_{-0.00077}$	β_4^4	0.00	$0.0^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07219	$0.0721^{+0.0012}_{-0.0011}$
$c_{217/143}$	0.99660	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	-0.01	$0.1^{+2.0}_{-2.0}$	$H(0.57)$	0.00030883	$0.0003087^{+0.000035}_{-0.000038}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7134	$0.713^{+0.024}_{-0.026}$	$DA(0.57)$	1367.8	1369^{+23}_{-23}
A^{kSZ}	0.0	—	Ω_m	0.2866	$0.287^{+0.026}_{-0.024}$			

Best-fit $\chi_{\text{eff}}^2 = 10225.22$; R-1 = 0.05060

χ_{eff}^2 : BAO - DR7: 0.09 6DF: 0.38 DR9: 0.74 CMB - lowlike.v22.light.clik: 2014.49 commander.v3.light.clik: -7.21 CAMspec.v6.2TN_2013_01_18.clik: 7795.54 SN - SNLS April.2012: 421.19

16.27 base_w_planck_CAMspec_lowl_lowLike_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02203	$0.02209^{+0.00058}_{-0.00055}$	β_2^1	0.10	$0.1^{+1.9}_{-1.9}$	σ_8	0.861	$0.852^{+0.057}_{-0.058}$
$\Omega_c h^2$	0.1198	$0.1195^{+0.0054}_{-0.0052}$	β_3^1	0.14	$0.0^{+2.0}_{-1.9}$	z_{re}	11.44	$11.1^{+2.2}_{-2.1}$
θ	1.04126	$1.0413^{+0.0013}_{-0.0013}$	β_4^1	-0.28	$0.0^{+2.0}_{-2.0}$	H_0	70.30	$70.0^{+5.0}_{-4.9}$
τ	0.0936	$0.090^{+0.027}_{-0.025}$	β_5^1	0.05	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.212	$2.20^{+0.11}_{-0.10}$
w	-1.101	$-1.09^{+0.17}_{-0.17}$	β_1^2	-0.16	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14247	$0.1422^{+0.0051}_{-0.0048}$
n_s	0.9603	$0.961^{+0.015}_{-0.015}$	β_2^2	0.44	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.1001	$0.0996^{+0.0074}_{-0.0073}$
$\log[10^{10} A_s]$	3.0965	$3.089^{+0.051}_{-0.047}$	β_3^2	-0.18	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.247692	$0.24772^{+0.00025}_{-0.00024}$
A_{100}^{PS}	193	149^{+100}_{-100}	β_4^2	0.32	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8346	$1.832^{+0.026}_{-0.025}$
A_{143}^{PS}	56.5	53^{+30}_{-30}	β_5^2	-0.07	$-0.2^{+2.0}_{-1.9}$	Age/Gyr	13.762	$13.76^{+0.12}_{-0.12}$
A_{217}^{PS}	122.1	119^{+30}_{-30}	β_1^3	0.23	$-0.1^{+1.9}_{-1.9}$	z_*	1090.44	$1090.3^{+1.1}_{-1.0}$
A_{143}^{CIB}	9.69	—	β_2^3	-0.11	$-0.1^{+2.0}_{-2.0}$	r_*	144.74	$144.8^{+1.2}_{-1.2}$
A_{217}^{CIB}	23.5	21^{+10}_{-10}	β_3^3	-0.16	$0.0^{+1.9}_{-1.9}$	θ_*	1.04142	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.02	—	β_4^3	-0.13	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1059.21	$1059.3^{+1.2}_{-1.1}$
$r_{PS143/217}$	0.757	> 0.673	β_5^3	-0.09	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.52	$147.5^{+1.1}_{-1.2}$
r_{CIB}	0.524	—	β_1^4	0.01	$-0.1^{+2.0}_{-1.9}$	k_D	0.14004	$0.1401^{+0.0013}_{-0.0012}$
n^{CIB}	0.243	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.01	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16141	$0.16135^{+0.00066}_{-0.00067}$
$c_{100/143}$	1.00060	$1.00061^{+0.00076}_{-0.00076}$	β_3^4	0.34	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3389	3384^{+120}_{-120}
$c_{217/143}$	0.99645	$0.9965^{+0.0024}_{-0.0025}$	β_4^4	0.38	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8150	$0.816^{+0.023}_{-0.023}$
$\xi^{tSZ-CIB}$	0.12	—	β_5^4	0.12	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07221	$0.0722^{+0.0020}_{-0.0019}$
A^{kSZ}	0.0	—	Ω_Λ	0.7117	$0.709^{+0.041}_{-0.047}$	$H(0.57)$	0.00030903	$0.0003094^{+0.000040}_{-0.000042}$
β_1^1	0.58	$0.5^{+1.6}_{-1.6}$	Ω_m	0.2883	$0.291^{+0.047}_{-0.041}$	$DA(0.57)$	1369.4	1371^{+43}_{-41}

Best-fit $\chi_{\text{eff}}^2 = 9933.84$; R-1 = 0.04151

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.56 commander.v3.light.clik: -7.05 CAMspec.v6.2TN_2013_01_18.clik: 7796.41 SN - Union2.1: 129.93

16.28 base_w_planck_CAMspec_lowl_lowLike_Union2_post_BAO

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02205^{+0.00053}_{-0.00050}$	β_2^1	$0.1^{+1.9}_{-1.9}$	σ_8	$0.853^{+0.055}_{-0.055}$
$\Omega_c h^2$	$0.1200^{+0.0045}_{-0.0044}$	β_3^1	$0.0^{+2.1}_{-1.9}$	z_{re}	$11.0^{+2.1}_{-2.1}$
θ	$1.0413^{+0.0012}_{-0.0012}$	β_4^1	$0.0^{+2.0}_{-2.0}$	H_0	$69.8^{+3.5}_{-3.5}$
τ	$0.089^{+0.026}_{-0.024}$	β_5^1	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	$2.19^{+0.11}_{-0.10}$
w	$-1.09^{+0.15}_{-0.16}$	β_1^2	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	$0.1427^{+0.0043}_{-0.0041}$
n_s	$0.960^{+0.014}_{-0.013}$	β_2^2	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	$0.0996^{+0.0066}_{-0.0064}$
$\log[10^{10} A_s]$	$3.088^{+0.050}_{-0.047}$	β_3^2	$-0.1^{+2.0}_{-2.0}$	Y_{He}	$0.24770^{+0.00023}_{-0.00022}$
A_{100}^{PS}	149^{+100}_{-100}	β_4^2	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	$1.834^{+0.023}_{-0.022}$
A_{143}^{PS}	53^{+30}_{-30}	β_5^2	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	$13.770^{+0.084}_{-0.083}$
A_{217}^{PS}	119^{+30}_{-30}	β_1^3	$-0.1^{+1.8}_{-1.9}$	z_*	$1090.43^{+0.93}_{-0.92}$
A_{143}^{CIB}	—	β_2^3	$-0.2^{+1.9}_{-1.9}$	r_*	$144.7^{+1.0}_{-1.0}$
A_{217}^{CIB}	22^{+10}_{-10}	β_3^3	$0.0^{+1.9}_{-1.9}$	θ_*	$1.0414^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	—	β_4^3	$-0.1^{+2.0}_{-1.9}$	z_{drag}	$1059.3^{+1.1}_{-1.1}$
$r_{PS143/217}$	> 0.671	β_5^3	$-0.1^{+2.0}_{-1.9}$	r_{drag}	$147.4^{+1.0}_{-1.0}$
r_{CIB}	—	β_1^4	$-0.1^{+1.9}_{-1.9}$	k_D	$0.1401^{+0.0012}_{-0.0011}$
n^{CIB}	$0.25^{+0.26}_{-0.29}$	β_2^4	$0.0^{+1.9}_{-1.9}$	θ_D	$0.16137^{+0.00065}_{-0.00065}$
$c_{100/143}$	$1.00061^{+0.00077}_{-0.00076}$	β_3^4	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3394^{+100}_{-99}
$c_{217/143}$	$0.9965^{+0.0024}_{-0.0025}$	β_4^4	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	$0.814^{+0.019}_{-0.019}$
$\xi^{tSZ-CIB}$	—	β_5^4	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	$0.0720^{+0.0012}_{-0.0011}$
A^{kSZ}	—	Ω_Λ	$0.706^{+0.027}_{-0.029}$	$H(0.57)$	$0.0003090^{+0.0000036}_{-0.0000040}$
β_1^1	$0.5^{+1.6}_{-1.6}$	Ω_m	$0.294^{+0.029}_{-0.027}$	$DA(0.57)$	1374^{+26}_{-25}

; R-1 = 0.04875

17 w+wa

17.1 base_w_wa_planck_CAMspec_lowl_lowLike_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02205	$0.02202^{+0.00054}_{-0.00054}$	β_2^1	0.10	$0.1^{+1.9}_{-1.9}$	z_{re}	11.45	$11.0^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.12038	$0.1205^{+0.0049}_{-0.0048}$	β_3^1	-0.16	$0.0^{+1.9}_{-1.9}$	H_0	69.6	70^{+10}_{-7}
θ	1.04130	$1.0412^{+0.0012}_{-0.0012}$	β_4^1	-0.20	$0.0^{+2.0}_{-1.9}$	$10^9 A_s$	2.216	$2.19^{+0.12}_{-0.10}$
τ	0.0937	$0.088^{+0.028}_{-0.025}$	β_5^1	-0.01	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14308	$0.1432^{+0.0047}_{-0.0046}$
w	-1.06	$-1.03^{+0.63}_{-0.77}$	β_1^2	-0.16	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0996	$0.100^{+0.016}_{-0.012}$
w_a	-0.11	—	β_2^2	-0.11	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247704	$0.24769^{+0.00023}_{-0.00023}$
n_s	0.9608	$0.959^{+0.014}_{-0.014}$	β_3^2	0.097	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8373	$1.837^{+0.024}_{-0.024}$
$\log[10^{10} A_s]$	3.098	$3.087^{+0.054}_{-0.048}$	β_4^2	-0.15	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.762	$13.76^{+0.11}_{-0.099}$
A_{100}^{PS}	169	148^{+100}_{-100}	β_5^2	-0.51	$-0.1^{+2.0}_{-2.0}$	z_*	1090.46	$1090.5^{+1.0}_{-0.95}$
A_{143}^{PS}	57.7	54^{+30}_{-30}	β_1^3	-0.13	$0.0^{+1.9}_{-1.9}$	r_*	144.56	$144.6^{+1.1}_{-1.1}$
A_{217}^{PS}	122.1	119^{+30}_{-30}	β_2^3	-0.22	$-0.1^{+2.0}_{-2.0}$	θ_*	1.04145	$1.0414^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	8.92	—	β_3^3	0.08	$0.0^{+2.0}_{-2.0}$	z_{drag}	1059.32	$1059.2^{+1.1}_{-1.1}$
A_{217}^{CIB}	22.3	21^{+10}_{-10}	β_4^3	-0.27	$-0.2^{+1.9}_{-1.9}$	r_{drag}	147.33	$147.3^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.52	—	β_5^3	-0.35	$-0.1^{+1.9}_{-2.0}$	k_D	0.14026	$0.1402^{+0.0012}_{-0.0012}$
$r_{PS143/217}$	0.836	> 0.676	β_1^4	-0.28	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16136	$0.16140^{+0.00068}_{-0.00066}$
r_{CIB}	0.420	—	β_2^4	0.17	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3404	3406^{+110}_{-110}
n^{CIB}	0.309	$0.25^{+0.26}_{-0.31}$	β_3^4	-0.30	$-0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8125	$0.812^{+0.021}_{-0.020}$
$c_{100/143}$	1.00060	$1.00060^{+0.00077}_{-0.00078}$	β_4^4	-0.06	$0.0^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07206	$0.0722^{+0.0015}_{-0.0015}$
$c_{217/143}$	0.99624	$0.9965^{+0.0026}_{-0.0025}$	β_5^4	-0.20	$0.1^{+1.9}_{-1.9}$	$H(0.57)$	0.0003096	$0.000309^{+0.000010}_{-0.000011}$
$\xi^{tSZ-CIB}$	0.48	—	Ω_Λ	0.704	$0.705^{+0.071}_{-0.068}$	$DA(0.57)$	1372.2	1369^{+34}_{-33}
A^{kSZ}	1.61	—	Ω_m	0.296	$0.295^{+0.068}_{-0.071}$			
β_1^1	0.59	$0.5^{+1.6}_{-1.6}$	σ_8	0.859	$0.859^{+0.098}_{-0.083}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.17$; R-1 = 0.03327

χ_{eff}^2 : BAO - DR7: 0.29 6DF: 0.21 DR9: 0.56 CMB - lowlike.v22.light.clik: 2014.58 commander.v3.light.clik: -7.13 CAMspec.v6.2TN.2013.01.18.clik: 7796.65

17.2 base_w_wa_planck_CAMspec_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02215	$0.02204^{+0.00053}_{-0.00052}$	β_2^1	0.03	$0.1^{+1.9}_{-1.9}$	z_{re}	11.48	$11.0^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.11924	$0.1203^{+0.0039}_{-0.0039}$	β_3^1	0.10	$0.0^{+1.9}_{-1.9}$	H_0	69.0	70^{+10}_{-7}
θ	1.04134	$1.0412^{+0.0012}_{-0.0012}$	β_4^1	-0.16	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.215	$2.19^{+0.11}_{-0.097}$
τ	0.0947	$0.089^{+0.027}_{-0.025}$	β_5^1	0.06	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14204	$0.1430^{+0.0037}_{-0.0037}$
w	-1.00	$-1.02^{+0.62}_{-0.78}$	β_1^2	0.09	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.0980	$0.100^{+0.016}_{-0.011}$
w_a	-0.17	—	β_2^2	0.12	$0.0^{+2.0}_{-2.0}$	Y_{He}	0.247747	$0.24770^{+0.00023}_{-0.00022}$
n_s	0.9629	$0.959^{+0.013}_{-0.013}$	β_3^2	-0.04	$-0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8324	$1.836^{+0.019}_{-0.019}$
$\log[10^{10} A_s]$	3.0977	$3.088^{+0.051}_{-0.045}$	β_4^2	-0.03	$0.1^{+1.9}_{-1.9}$	Age/Gyr	13.761	$13.76^{+0.10}_{-0.096}$
A_{100}^{PS}	171	148^{+100}_{-100}	β_5^2	0.01	$-0.1^{+2.0}_{-1.9}$	z_*	1090.23	$1090.48^{+0.90}_{-0.87}$
A_{143}^{PS}	46	54^{+30}_{-30}	β_1^3	-0.06	$-0.1^{+1.9}_{-1.9}$	r_*	144.78	$144.58^{+0.91}_{-0.89}$
A_{217}^{PS}	121.4	119^{+30}_{-30}	β_2^3	0.06	$-0.1^{+2.0}_{-2.0}$	θ_*	1.04148	$1.0414^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	9.88	—	β_3^3	0.06	$0.0^{+2.0}_{-1.9}$	z_{drag}	1059.47	$1059.3^{+1.1}_{-1.1}$
A_{217}^{CIB}	22.9	21^{+10}_{-10}	β_4^3	-0.07	$-0.2^{+1.9}_{-1.9}$	r_{drag}	147.52	$147.36^{+0.94}_{-0.93}$
A_{143}^{tSZ}	5.04	—	β_5^3	-0.11	$-0.1^{+1.9}_{-2.0}$	k_D	0.14014	$0.1402^{+0.0011}_{-0.0011}$
$r_{PS143/217}$	0.788	> 0.678	β_1^4	0.03	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16126	$0.16137^{+0.00067}_{-0.00066}$
r_{CIB}	0.499	—	β_2^4	0.00	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3379	3402^{+88}_{-88}
n^{CIB}	0.253	$0.25^{+0.26}_{-0.32}$	β_3^4	0.08	$-0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8172	$0.813^{+0.017}_{-0.016}$
$c_{100/143}$	1.00059	$1.00060^{+0.00077}_{-0.00080}$	β_4^4	0.01	$0.0^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07227	$0.0723^{+0.0014}_{-0.0015}$
$c_{217/143}$	0.99636	$0.9966^{+0.0026}_{-0.0026}$	β_5^4	0.05	$0.1^{+1.9}_{-2.0}$	$H(0.57)$	0.0003108	$0.000310^{+0.000010}_{-0.000011}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.701	$0.704^{+0.073}_{-0.067}$	$DA(0.57)$	1371.9	1368^{+34}_{-33}
A^{kSZ}	0.2	—	Ω_m	0.299	$0.296^{+0.067}_{-0.073}$			
β_1^1	0.38	$0.5^{+1.6}_{-1.6}$	σ_8	0.070	$0.857^{+0.092}_{-0.074}$			

Best-fit $\chi_{\text{eff}}^2 = 9815.58$; R-1 = 0.04037

χ_{eff}^2 : BAO - DR7: 0.23 6DF: 0.14 DR9: 0.85 CMB - lowlike_v22.light.clik: 2014.55 lensing_likelihood_v3_ref.clik.lensing: 11.05 commander_v3.light.clik: -7.45 CAMspec_v6.2TN_2013_01_18.clik: 7796.21

17.3 base_w_wa_planck_CAMspec_lowL_lowLike_highL_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02207	$0.02200^{+0.00051}_{-0.00050}$	β_2^2	-0.35	$-0.3^{+1.9}_{-2.0}$	$\mathbf{C}_{\text{ACTe}}^{217}$	0.9621	$0.963^{+0.020}_{-0.020}$
$\Omega_c h^2$	0.11985	$0.1207^{+0.0049}_{-0.0049}$	β_3^2	-0.16	$0.0^{+1.9}_{-1.9}$	$\mathbf{C}_{\text{SPT}}^{95}$	0.9882	$0.984^{+0.040}_{-0.037}$
θ	1.04131	$1.0412^{+0.0012}_{-0.0012}$	β_4^2	0.39	$0.3^{+1.9}_{-1.9}$	$\mathbf{C}_{\text{SPT}}^{150}$	0.9856	$0.988^{+0.019}_{-0.019}$
τ	0.0948	$0.088^{+0.026}_{-0.024}$	β_5^2	-0.58	$-0.4^{+1.9}_{-1.9}$	$\mathbf{C}_{\text{SPT}}^{220}$	1.0178	$1.021^{+0.047}_{-0.043}$
w	-1.03	$-1.06^{+0.65}_{-0.74}$	β_1^3	0.68	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.702	$0.707^{+0.068}_{-0.069}$
w_a	-0.14	—	β_2^3	-0.55	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.298	$0.293^{+0.069}_{-0.068}$
n_s	0.9588	$0.956^{+0.013}_{-0.013}$	β_3^3	-0.01	$0.2^{+2.0}_{-2.0}$	σ_8	0.851	$0.862^{+0.098}_{-0.082}$
$\log[10^{10} A_s]$	3.0990	$3.087^{+0.050}_{-0.045}$	β_4^3	-0.47	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.53	$10.9^{+2.2}_{-2.2}$
A_{100}^{PS}	181	187^{+80}_{-80}	β_5^3	-0.42	$-0.3^{+2.0}_{-2.0}$	H_0	69.2	70^{+10}_{-8}
A_{143}^{PS}	76.2	77^{+20}_{-20}	β_1^4	-0.06	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.218	$2.19^{+0.11}_{-0.098}$
A_{217}^{PS}	63.8	64^{+20}_{-20}	β_2^4	-0.18	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14257	$0.1433^{+0.0047}_{-0.0046}$
A_{143}^{CIB}	3.01	—	β_3^4	-0.28	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.0986	$0.101^{+0.015}_{-0.012}$
A_{217}^{CIB}	47.3	44^{+9}_{-9}	β_4^4	0.26	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.247710	$0.24768^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	4.59	—	β_5^4	0.40	$0.3^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8345	$1.837^{+0.024}_{-0.023}$
$r_{PS143/217}$	0.818	> 0.712	$A_{\text{PS,ACT}}^{148}$	10.52	$10.7^{+1.2}_{-1.1}$	Age/Gyr	13.766	$13.76^{+0.10}_{-0.095}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.9	$81.4^{+7.9}_{-7.9}$	z_*	1090.39	$1090.57^{+0.97}_{-0.97}$
n^{CIB}	0.520	$0.49^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.10	$7.55^{+3.0}_{-2.7}$	r_*	144.69	$144.5^{+1.1}_{-1.1}$
$c_{100/143}$	1.00065	$1.00063^{+0.00077}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	10.09	$10.32^{+0.98}_{-0.94}$	θ_*	1.04147	$1.0414^{+0.0012}_{-0.0012}$
$c_{217/143}$	0.99952	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	76.7	$77.9^{+8.1}_{-8.1}$	z_{drag}	1059.28	$1059.2^{+1.0}_{-1.0}$
$\xi^{tSZ-CIB}$	0.031	—	$r_{\text{PS}}^{95/150}$	0.789	> 0.665	r_{drag}	147.46	$147.3^{+1.1}_{-1.1}$
A^{kSZ}	2.35	—	$r_{\text{PS}}^{95/220}$	0.545	$0.56^{+0.24}_{-0.21}$	k_D	0.14014	$0.1402^{+0.0012}_{-0.0012}$
β_1^1	0.84	$0.5^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9177	> 0.903	θ_D	0.16136	$0.16142^{+0.00062}_{-0.00062}$
β_2^1	-0.16	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.439	< 0.766	z_{EQ}	3391	3410^{+110}_{-110}
β_3^1	-0.12	$0.1^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.849	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8147	$0.811^{+0.021}_{-0.020}$
β_4^1	-0.098	$0.0^{+2.0}_{-2.0}$	$\mathbf{C}_{\text{ACTs}}^{148}$	0.9922	$0.992^{+0.014}_{-0.014}$	$r_s/D_v(0.57)$	0.07214	$0.0722^{+0.0015}_{-0.0014}$
β_5^1	-0.14	$0.0^{+2.0}_{-1.9}$	$\mathbf{C}_{\text{ACTs}}^{217}$	1.0063	$1.005^{+0.026}_{-0.026}$	$H(0.57)$	0.0003101	$0.000309^{+0.000010}_{-0.000010}$
β_1^2	-0.70	$-1.14^{+1.7}_{-1.7}$	$\mathbf{C}_{\text{ACTe}}^{148}$	0.9886	$0.988^{+0.014}_{-0.014}$	$DA(0.57)$	1373.1	1368^{+34}_{-32}

Best-fit $\chi_{\text{eff}}^2 = 10520.56$; R-1 = 0.01853

χ_{eff}^2 : BAO - DR9: 0.66 DR7: 0.30 6DF: 0.15 CMB - lowlike.v22.light.clik: 2014.63 commander.v3.light.clik: -6.49 CAMspec.v6.2TN_2013.01.18.clik: 7817.70 actspt_2013.01.clik: 693.51

17.4 base_w_wa_planck_CAMspec_lowL_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02213	$0.02202^{+0.00051}_{-0.00050}$	β_2^2	-0.18	$-0.3^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9621	$0.963^{+0.022}_{-0.021}$
$\Omega_c h^2$	0.11947	$0.1205^{+0.0039}_{-0.0041}$	β_3^2	0.12	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9876	$0.984^{+0.041}_{-0.038}$
θ	1.04136	$1.0412^{+0.0012}_{-0.0012}$	β_4^2	0.34	$0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9871	$0.988^{+0.019}_{-0.019}$
τ	0.0982	$0.088^{+0.026}_{-0.024}$	β_5^2	-0.49	$-0.4^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0187	$1.022^{+0.048}_{-0.043}$
w	-1.03	$-1.06^{+0.65}_{-0.77}$	β_1^3	0.89	$0.8^{+1.7}_{-1.8}$	Ω_Λ	0.704	$0.708^{+0.072}_{-0.069}$
w_a	-0.12	—	β_2^3	-0.63	$-0.6^{+2.0}_{-2.0}$	Ω_m	0.296	$0.292^{+0.069}_{-0.072}$
n_s	0.9607	$0.957^{+0.012}_{-0.012}$	β_3^3	0.29	$0.2^{+2.0}_{-2.0}$	σ_8	0.070	$0.861^{+0.092}_{-0.077}$
$\log[10^{10} A_s]$	3.1051	$3.087^{+0.048}_{-0.044}$	β_4^3	-0.46	$-0.5^{+1.9}_{-2.0}$	z_{re}	11.79	$11.0^{+2.1}_{-2.1}$
A_{100}^{PS}	170	187^{+80}_{-80}	β_5^3	-0.42	$-0.4^{+1.9}_{-2.0}$	H_0	69.3	70^{+10}_{-8}
A_{143}^{PS}	74.6	76^{+20}_{-20}	β_1^4	-0.11	$-0.3^{+2.0}_{-2.0}$	$10^9 A_s$	2.231	$2.19^{+0.11}_{-0.094}$
A_{217}^{PS}	63.1	64^{+20}_{-20}	β_2^4	-0.05	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14224	$0.1431^{+0.0037}_{-0.0039}$
A_{143}^{CIB}	2.98	—	β_3^4	-0.04	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.0986	$0.101^{+0.015}_{-0.012}$
A_{217}^{CIB}	47.8	44^{+10}_{-9}	β_4^4	0.14	$0.1^{+2.0}_{-2.0}$	Y_{He}	0.247735	$0.24769^{+0.00022}_{-0.00022}$
A_{143}^{tSZ}	4.73	—	β_5^4	0.34	$0.3^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.836^{+0.020}_{-0.019}$
$r_{PS143/217}$	0.820	> 0.708	$A_{\text{PS,ACT}}^{148}$	10.60	$10.7^{+1.3}_{-1.1}$	Age/Gyr	13.759	$13.76^{+0.10}_{-0.093}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.8	$81.4^{+8.1}_{-8.2}$	z_*	1090.29	$1090.52^{+0.87}_{-0.87}$
n^{CIB}	0.525	$0.49^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.42	$7.55^{+3.2}_{-2.7}$	r_*	144.75	$144.57^{+0.92}_{-0.89}$
$c_{100/143}$	1.00063	$1.00063^{+0.00077}_{-0.00079}$	$A_{\text{PS,SPT}}^{150}$	10.25	$10.3^{+1.0}_{-0.97}$	θ_*	1.04151	$1.0414^{+0.0011}_{-0.0011}$
$c_{217/143}$	0.99938	$0.9994^{+0.0022}_{-0.0020}$	$A_{\text{PS,SPT}}^{220}$	76.8	$78.0^{+8.1}_{-7.9}$	z_{drag}	1059.40	$1059.2^{+1.1}_{-1.0}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.784	> 0.663	r_{drag}	147.50	$147.36^{+0.94}_{-0.90}$
A^{kSZ}	1.30	—	$r_{\text{PS}}^{95/220}$	0.536	$0.56^{+0.25}_{-0.21}$	k_D	0.14015	$0.1402^{+0.0010}_{-0.0011}$
β_1^1	0.61	$0.6^{+1.7}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9128	> 0.903	θ_D	0.16130	$0.16140^{+0.00063}_{-0.00063}$
β_2^1	-0.11	$-0.1^{+1.9}_{-1.8}$	$A_{\text{dust,s}}$	0.413	< 0.756	z_{EQ}	3383	3404^{+89}_{-92}
β_3^1	0.14	$0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.848	$0.85^{+0.38}_{-0.38}$	θ_{EQ}	0.8163	$0.812^{+0.018}_{-0.016}$
β_4^1	0.14	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9918	$0.992^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07225	$0.0722^{+0.0014}_{-0.0014}$
β_5^1	0.04	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0045	$1.005^{+0.027}_{-0.026}$	$H(0.57)$	0.0003104	$0.000309^{+0.000010}_{-0.000011}$
β_1^2	-0.85	$-1.12^{+1.8}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9890	$0.989^{+0.015}_{-0.014}$	$DA(0.57)$	1371.0	1367^{+34}_{-32}

Best-fit $\chi_{\text{eff}}^2 = 10530.39$; R-1 = 0.04315

χ_{eff}^2 : BAO - DR9: 0.82 6DF: 0.18 DR7: 0.19 CMB - lowlike_v22.light.clik: 2014.93 lensing_likelihood.v3_ref.clik.lensing: 11.12 commander.v3.light.clik: -6.70 CAMspec_v6.2TN_2013_01_18.clik: 7817.70 actspt_2013_01.clik: 692.08

17.5 base_w_wa_planck_CAMspec_lowl_lowLike_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02215	$0.02213^{+0.00057}_{-0.00054}$	A^{kSZ}	0.1	—	Ω_m	0.2596	$0.265^{+0.040}_{-0.034}$
$\Omega_c h^2$	0.1193	$0.1192^{+0.0052}_{-0.0052}$	β_1^1	0.34	$0.5^{+1.7}_{-1.6}$	σ_8	0.895	$0.882^{+0.050}_{-0.054}$
θ	1.04142	$1.0414^{+0.0013}_{-0.0012}$	β_2^1	0.11	$0.1^{+1.9}_{-1.9}$	z_{re}	11.34	$11.0^{+2.3}_{-2.3}$
τ	0.0934	$0.090^{+0.029}_{-0.026}$	β_3^1	-0.07	$0.0^{+2.0}_{-2.0}$	H_0	73.99	$73.3^{+4.6}_{-4.6}$
w	-0.897	$-0.93^{+0.24}_{-0.31}$	β_4^1	-0.15	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.211	$2.19^{+0.12}_{-0.11}$
w_a	-1.34	—	β_5^1	-0.05	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14209	$0.1419^{+0.0049}_{-0.0049}$
n_s	0.9632	$0.962^{+0.015}_{-0.015}$	β_1^2	-0.11	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.1051	$0.1040^{+0.0063}_{-0.0066}$
$\log[10^{10} A_s]$	3.096	$3.088^{+0.054}_{-0.050}$	β_2^2	-0.03	$0.0^{+1.9}_{-1.9}$	Y_{He}	0.247745	$0.24774^{+0.00024}_{-0.00023}$
α_{SNLS}	1.426	$1.43^{+0.22}_{-0.20}$	β_3^2	-0.12	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8339	$1.831^{+0.025}_{-0.025}$
β_{SNLS}	3.261	$3.27^{+0.22}_{-0.21}$	β_4^2	0.13	$0.1^{+1.9}_{-1.9}$	Age/Gyr	13.615	$13.64^{+0.17}_{-0.13}$
A_{100}^{PS}	187	148^{+100}_{-100}	β_5^2	-0.07	$-0.1^{+2.0}_{-2.0}$	z_*	1090.24	$1090.3^{+1.0}_{-1.0}$
A_{143}^{PS}	57.2	53^{+30}_{-30}	β_1^3	0.02	$-0.1^{+1.8}_{-1.9}$	r_*	144.77	$144.8^{+1.2}_{-1.2}$
A_{217}^{PS}	124.4	119^{+30}_{-30}	β_2^3	-0.03	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04156	$1.0416^{+0.0013}_{-0.0012}$
A_{143}^{CIB}	8.88	—	β_3^3	-0.15	$0.0^{+1.9}_{-1.9}$	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.1}$
A_{217}^{CIB}	22.3	21^{+10}_{-10}	β_4^3	-0.20	$-0.2^{+2.0}_{-2.0}$	r_{drag}	147.52	$147.6^{+1.2}_{-1.2}$
A_{143}^{tSZ}	2.27	—	β_5^3	0.00	$-0.1^{+2.0}_{-1.9}$	k_D	0.14014	$0.1401^{+0.0012}_{-0.0013}$
$r_{PS143/217}$	0.775	> 0.675	β_1^4	-0.04	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16128	$0.16132^{+0.00066}_{-0.00065}$
r_{CIB}	0.386	—	β_2^4	-0.10	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3380	3376^{+120}_{-120}
n^{CIB}	0.289	$0.25^{+0.26}_{-0.30}$	β_3^4	-0.13	$-0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8171	$0.818^{+0.023}_{-0.022}$
$c_{100/143}$	1.00059	$1.00060^{+0.00079}_{-0.00078}$	β_4^4	0.05	$0.0^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07464	$0.0742^{+0.0027}_{-0.0029}$
$c_{217/143}$	0.99637	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.09	$0.1^{+1.9}_{-1.9}$	$H(0.57)$	0.0003125	$0.0003120^{+0.0000066}_{-0.0000065}$
$\xi^{tSZ-CIB}$	0.01	—	Ω_Λ	0.7404	$0.735^{+0.034}_{-0.040}$	$DA(0.57)$	1310	1322^{+65}_{-49}

Best-fit $\chi_{\text{eff}}^2 = 10221.40$; R-1 = 0.04103

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.54 commander.v3.light.clik: -8.03 CAMspec_v6.2TN_2013_01_18.clik: 7795.58 SN - SNLS
 April_2012: 419.31

17.6 base_w_wa_planck_CAMspec_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02216^{+0.00056}_{-0.00054}$	A^{kSZ}	0.0	—	Ω_m	0.2568	$0.263^{+0.038}_{-0.033}$
$\Omega_c h^2$	0.11825	$0.1189^{+0.0043}_{-0.0045}$	β_1^1	0.41	$0.5^{+1.7}_{-1.7}$	σ_8	0.0731	$0.883^{+0.045}_{-0.045}$
θ	1.04151	$1.0414^{+0.0012}_{-0.0012}$	β_2^1	0.02	$0.1^{+1.9}_{-1.9}$	z_{re}	11.48	$11.1^{+2.2}_{-2.2}$
τ	0.0958	$0.091^{+0.028}_{-0.026}$	β_3^1	-0.04	$0.0^{+2.0}_{-2.0}$	H_0	74.15	$73.5^{+4.5}_{-4.6}$
w	-0.930	$-0.92^{+0.23}_{-0.30}$	β_4^1	-0.099	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.217	$2.20^{+0.11}_{-0.10}$
w_a	-1.10	—	β_5^1	-0.13	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14116	$0.1418^{+0.0041}_{-0.0042}$
n_s	0.9665	$0.963^{+0.014}_{-0.015}$	β_1^2	0.12	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.1047	$0.1042^{+0.0061}_{-0.0062}$
$\log[10^{10} A_s]$	3.0986	$3.089^{+0.051}_{-0.047}$	β_2^2	-0.08	$0.0^{+1.9}_{-2.0}$	Y_{He}	0.247794	$0.24775^{+0.0024}_{-0.0023}$
α_{SNLS}	1.424	$1.44^{+0.22}_{-0.20}$	β_3^2	0.099	$-0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8303	$1.830^{+0.021}_{-0.021}$
β_{SNLS}	3.259	$3.27^{+0.22}_{-0.21}$	β_4^2	0.15	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.608	$13.63^{+0.16}_{-0.13}$
A_{100}^{PS}	188	149^{+100}_{-100}	β_5^2	-0.11	$-0.1^{+2.0}_{-2.0}$	z_*	1090.00	$1090.19^{+0.97}_{-0.98}$
A_{143}^{PS}	52.4	52^{+30}_{-30}	β_1^3	-0.11	$-0.1^{+1.8}_{-1.9}$	r_*	144.96	$144.9^{+1.0}_{-0.96}$
A_{217}^{PS}	123.8	119^{+30}_{-30}	β_2^3	-0.17	$-0.1^{+2.0}_{-2.0}$	θ_*	1.04166	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	9.40	—	β_3^3	-0.02	$0.0^{+2.0}_{-1.9}$	z_{drag}	1059.63	$1059.5^{+1.2}_{-1.1}$
A_{217}^{CIB}	21.8	21^{+10}_{-10}	β_4^3	-0.16	$-0.2^{+1.9}_{-2.0}$	r_{drag}	147.67	$147.6^{+1.0}_{-0.96}$
A_{143}^{tSZ}	2.18	—	β_5^3	-0.14	$-0.1^{+1.9}_{-2.0}$	k_D	0.14008	$0.1401^{+0.0011}_{-0.0012}$
$r_{PS143/217}$	0.801	> 0.670	β_1^4	0.00	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16117	$0.16127^{+0.00066}_{-0.00066}$
r_{CIB}	0.336	—	β_2^4	0.07	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3358	3372^{+98}_{-100}
n^{CIB}	0.317	$0.24^{+0.27}_{-0.31}$	β_3^4	-0.16	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8215	$0.819^{+0.020}_{-0.018}$
$c_{100/143}$	1.00060	$1.00061^{+0.00080}_{-0.00079}$	β_4^4	-0.13	$0.0^{+1.9}_{-2.0}$	$r_s/D_v(0.57)$	0.07479	$0.0744^{+0.0024}_{-0.0027}$
$c_{217/143}$	0.99621	$0.9965^{+0.0026}_{-0.0025}$	β_5^4	0.14	$0.1^{+2.0}_{-1.9}$	$H(0.57)$	0.0003133	$0.0003124^{+0.000062}_{-0.000059}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7432	$0.737^{+0.033}_{-0.038}$	$DA(0.57)$	1310	1318^{+62}_{-47}

Best-fit $\chi^2_{\text{eff}} = 10232.55$; R-1 = 0.04516

χ^2_{eff} : CMB - lowlike.v22.light.clik: 2014.60 lensing_likelihood.v3.ref.clik.lensing: 10.71 commander.v3.light.clik: -8.50 CAMspec.v6.2TN_2013_01_18.clik
7796.29 SN - SNLS April.2012: 419.44

17.7 base_w_wa_planck_CAMspec_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02202	$0.02198^{+0.00054}_{-0.00051}$	A^{kSZ}	0.0	—	Ω_m	0.2883	$0.288^{+0.026}_{-0.024}$
$\Omega_c h^2$	0.12093	$0.1212^{+0.0048}_{-0.0050}$	β_1^1	0.38	$0.5^{+1.8}_{-1.8}$	σ_8	0.873	$0.870^{+0.054}_{-0.051}$
θ	1.04117	$1.0411^{+0.0013}_{-0.0013}$	β_2^1	0.05	$0.1^{+1.9}_{-1.9}$	z_{re}	11.35	$10.8^{+2.1}_{-2.2}$
τ	0.0923	$0.087^{+0.027}_{-0.024}$	β_3^1	0.06	$0.0^{+2.0}_{-1.8}$	H_0	70.57	$70.7^{+3.0}_{-2.9}$
w	-1.058	$-1.05^{+0.28}_{-0.25}$	β_4^1	0.01	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.213	$2.19^{+0.11}_{-0.098}$
w_a	-0.27	—	β_5^1	0.06	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14359	$0.1438^{+0.0045}_{-0.0047}$
n_s	0.9588	$0.957^{+0.015}_{-0.016}$	β_1^2	0.02	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.1013	$0.1017^{+0.0059}_{-0.0057}$
$\log[10^{10} A_s]$	3.0969	$3.085^{+0.048}_{-0.046}$	β_2^2	-0.06	$0.0^{+2.0}_{-1.8}$	Y_{He}	0.247689	$0.24767^{+0.00023}_{-0.00022}$
α_{SNLS}	1.424	$1.42^{+0.21}_{-0.20}$	β_3^2	0.01	$-0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8397	$1.840^{+0.024}_{-0.027}$
β_{SNLS}	3.256	$3.27^{+0.21}_{-0.20}$	β_4^2	0.04	$0.0^{+1.9}_{-2.0}$	Age/Gyr	13.738	$13.740^{+0.097}_{-0.090}$
A_{100}^{PS}	182	151^{+100}_{-100}	β_5^2	-0.17	$-0.1^{+2.0}_{-2.0}$	z_*	1090.55	$1090.63^{+0.91}_{-0.99}$
A_{143}^{PS}	51.8	53^{+30}_{-30}	β_1^3	-0.12	$-0.1^{+1.9}_{-2.0}$	r_*	144.45	$144.4^{+1.1}_{-1.1}$
A_{217}^{PS}	123.8	119^{+30}_{-30}	β_2^3	-0.15	$-0.1^{+2.0}_{-1.9}$	θ_*	1.04133	$1.0413^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	9.75	—	β_3^3	0.07	$0.0^{+2.0}_{-2.1}$	z_{drag}	1059.28	$1059.2^{+1.1}_{-1.1}$
A_{217}^{CIB}	23.0	22^{+10}_{-10}	β_4^3	-0.05	$-0.2^{+2.0}_{-2.0}$	r_{drag}	147.23	$147.2^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.07	—	β_5^3	-0.10	$-0.1^{+1.9}_{-1.8}$	k_D	0.14034	$0.1403^{+0.0012}_{-0.0012}$
$r_{PS143/217}$	0.783	> 0.668	β_1^4	-0.08	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16137	$0.16142^{+0.00064}_{-0.00061}$
r_{CIB}	0.470	—	β_2^4	0.03	$-0.1^{+2.0}_{-2.1}$	z_{EQ}	3416	3421^{+110}_{-110}
n^{CIB}	0.271	$0.25^{+0.27}_{-0.33}$	β_3^4	-0.13	$-0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8101	$0.809^{+0.022}_{-0.020}$
$c_{100/143}$	1.00061	$1.00060^{+0.00076}_{-0.00078}$	β_4^4	-0.04	$0.0^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07235	$0.0723^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99645	$0.9965^{+0.0025}_{-0.0026}$	β_5^4	0.06	$0.1^{+1.9}_{-1.8}$	$H(0.57)$	0.00030945	$0.0003090^{+0.000046}_{-0.000044}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7117	$0.712^{+0.024}_{-0.026}$	$DA(0.57)$	1362.4	1361^{+31}_{-31}

Best-fit $\chi_{\text{eff}}^2 = 10225.40$; R-1 = 0.17163

χ_{eff}^2 : BAO - DR7: 0.01 6DF: 0.44 DR9: 0.98 CMB - lowlike.v22.light.clik: 2014.56 commander.v3.light.clik: -6.83 CAMspec.v6.2TN_2013_01_18.clik: 7795.47 SN - SNLS April.2012: 420.77

17.8 base_w_wa_planck_CAMspec_lowl_lowLike_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02212	$0.02211^{+0.00056}_{-0.00054}$	β_2^1	0.04	$0.1^{+1.9}_{-1.9}$	z_{re}	11.42	$11.0^{+2.1}_{-2.2}$
$\Omega_c h^2$	0.1193	$0.1195^{+0.0053}_{-0.0050}$	β_3^1	0.12	$0.0^{+2.0}_{-1.9}$	H_0	70.7	$70.7^{+5.2}_{-5.0}$
θ	1.04145	$1.0414^{+0.0012}_{-0.0012}$	β_4^1	-0.12	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.212	$2.19^{+0.11}_{-0.10}$
τ	0.0940	$0.090^{+0.026}_{-0.025}$	β_5^1	-0.19	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^2$	0.14211	$0.1423^{+0.0050}_{-0.0047}$
w	-0.989	$-0.94^{+0.34}_{-0.42}$	β_1^2	-0.08	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	0.1004	$0.1005^{+0.0075}_{-0.0072}$
w_a	-0.45	—	β_2^2	0.01	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.247734	$0.24773^{+0.00024}_{-0.00024}$
n_s	0.9624	$0.962^{+0.015}_{-0.015}$	β_3^2	0.02	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8325	$1.833^{+0.025}_{-0.024}$
$\log[10^{10} A_s]$	3.0963	$3.088^{+0.051}_{-0.048}$	β_4^2	0.02	$0.0^{+1.9}_{-1.9}$	Age/Gyr	13.711	$13.71^{+0.21}_{-0.15}$
A_{100}^{PS}	167	147^{+100}_{-100}	β_5^2	-0.097	$-0.1^{+2.0}_{-1.9}$	z_*	1090.28	$1090.3^{+1.1}_{-1.0}$
A_{143}^{PS}	47	53^{+30}_{-30}	β_1^3	-0.14	$-0.1^{+1.8}_{-1.8}$	r_*	144.78	$144.8^{+1.1}_{-1.2}$
A_{217}^{PS}	122.1	119^{+30}_{-30}	β_2^3	-0.10	$-0.1^{+1.9}_{-1.9}$	θ_*	1.04159	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	9.67	—	β_3^3	-0.11	$0.0^{+2.0}_{-2.0}$	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.1}$
A_{217}^{CIB}	23.5	21^{+10}_{-10}	β_4^3	-0.03	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.53	$147.5^{+1.1}_{-1.1}$
A_{143}^{tSZ}	5.48	—	β_5^3	-0.01	$-0.1^{+2.0}_{-2.0}$	k_D	0.14011	$0.1401^{+0.0012}_{-0.0012}$
$r_{PS143/217}$	0.808	> 0.670	β_1^4	-0.15	$-0.1^{+1.9}_{-2.0}$	θ_D	0.16131	$0.16133^{+0.00066}_{-0.00065}$
r_{CIB}	0.494	—	β_2^4	-0.04	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3380	3384^{+120}_{-110}
n^{CIB}	0.277	$0.24^{+0.26}_{-0.31}$	β_3^4	-0.08	$-0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8169	$0.816^{+0.022}_{-0.022}$
$c_{100/143}$	1.00060	$1.00061^{+0.00077}_{-0.00077}$	β_4^4	-0.13	$0.0^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07303	$0.0732^{+0.0029}_{-0.0033}$
$c_{217/143}$	0.99633	$0.9965^{+0.0025}_{-0.0025}$	β_5^4	0.11	$0.1^{+1.9}_{-1.9}$	$H(0.57)$	0.0003115	$0.0003115^{+0.000077}_{-0.000088}$
$\xi^{tSZ-CIB}$	0.00	—	Ω_Λ	0.7154	$0.714^{+0.042}_{-0.047}$	$DA(0.57)$	1352	1349^{+73}_{-59}
A^{kSZ}	0.0	—	Ω_m	0.2846	$0.286^{+0.047}_{-0.042}$			
β_1^1	0.41	$0.5^{+1.7}_{-1.7}$	σ_8	0.862	$0.860^{+0.057}_{-0.058}$			

Best-fit $\chi_{\text{eff}}^2 = 9932.77$; R-1 = 0.03223

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.52 commander.v3.light.clik: -7.59 CAMspec.v6.2TN_2013_01_18.clik: 7795.88 SN - Union2.1: 129.97

17.9 base_w_wa_planck_CAMspec_lowl_lowLike_Union2_post_BAO

Parameter	95.0% limits	Parameter	95.0% limits	Parameter	95.0% limits
$\Omega_b h^2$	$0.02203^{+0.00054}_{-0.00052}$	β_2^1	$0.1^{+1.8}_{-1.8}$	z_{re}	$11.0^{+2.2}_{-2.1}$
$\Omega_c h^2$	$0.1206^{+0.0048}_{-0.0048}$	β_3^1	$0.0^{+2.0}_{-2.0}$	H_0	$69.6^{+3.9}_{-3.7}$
θ	$1.0412^{+0.0012}_{-0.0012}$	β_4^1	$0.0^{+2.1}_{-2.0}$	$10^9 A_s$	$2.19^{+0.11}_{-0.10}$
τ	$0.088^{+0.026}_{-0.024}$	β_5^1	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^2$	$0.1433^{+0.0046}_{-0.0045}$
w	$-1.01^{+0.36}_{-0.36}$	β_1^2	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^3$	$0.0997^{+0.0065}_{-0.0061}$
w_a	—	β_2^2	$-0.1^{+1.9}_{-2.0}$	Y_{He}	$0.24769^{+0.00023}_{-0.00023}$
n_s	$0.959^{+0.014}_{-0.014}$	β_3^2	$-0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	$1.837^{+0.023}_{-0.024}$
$\log[10^{10} A_s]$	$3.087^{+0.051}_{-0.047}$	β_4^2	$0.0^{+1.9}_{-1.9}$	Age/Gyr	$13.76^{+0.10}_{-0.092}$
A_{100}^{PS}	148^{+100}_{-100}	β_5^2	$-0.1^{+2.0}_{-2.0}$	z_*	$1090.52^{+0.98}_{-0.97}$
A_{143}^{PS}	53^{+30}_{-30}	β_1^3	$0.0^{+1.9}_{-1.8}$	r_*	$144.5^{+1.1}_{-1.1}$
A_{217}^{PS}	119^{+30}_{-30}	β_2^3	$-0.1^{+1.9}_{-1.9}$	θ_*	$1.0414^{+0.0011}_{-0.0012}$
A_{143}^{CIB}	—	β_3^3	$0.0^{+1.9}_{-2.0}$	z_{drag}	$1059.3^{+1.1}_{-1.1}$
A_{217}^{CIB}	21^{+10}_{-10}	β_4^3	$-0.2^{+2.0}_{-2.0}$	r_{drag}	$147.3^{+1.1}_{-1.1}$
A_{143}^{tSZ}	—	β_5^3	$-0.1^{+2.0}_{-2.0}$	k_D	$0.1403^{+0.0012}_{-0.0012}$
$r_{PS143/217}$	> 0.679	β_1^4	$-0.1^{+1.9}_{-1.9}$	θ_D	$0.16139^{+0.00065}_{-0.00064}$
r_{CIB}	—	β_2^4	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3408^{+110}_{-110}
n^{CIB}	$0.24^{+0.27}_{-0.30}$	β_3^4	$-0.1^{+1.9}_{-2.0}$	θ_{EQ}	$0.812^{+0.020}_{-0.020}$
$c_{100/143}$	$1.00061^{+0.00075}_{-0.00078}$	β_4^4	$0.0^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	$0.0722^{+0.0014}_{-0.0014}$
$c_{217/143}$	$0.9966^{+0.0025}_{-0.0026}$	β_5^4	$0.1^{+1.9}_{-1.9}$	$H(0.57)$	$0.0003097^{+0.0000056}_{-0.0000059}$
$\xi^{tSZ-CIB}$	—	Ω_Λ	$0.703^{+0.032}_{-0.034}$	$DA(0.57)$	1369^{+32}_{-31}
A^{kSZ}	—	Ω_m	$0.297^{+0.034}_{-0.032}$		
β_1^1	$0.6^{+1.6}_{-1.7}$	σ_8	$0.856^{+0.053}_{-0.053}$		

; R-1 =0.03849

18 yhe

18.1 base_yhe_planck_CAMspec_lowl_lowLike

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02249^{+0.00078}_{-0.00076}$	β_2^1	0.08	$0.1^{+1.9}_{-1.8}$	σ_8	0.8362	$0.836^{+0.030}_{-0.028}$
$\Omega_c h^2$	0.1201	$0.1182^{+0.0055}_{-0.0054}$	β_3^1	0.04	$0.0^{+1.9}_{-1.9}$	z_{re}	11.38	$11.7^{+2.5}_{-2.4}$
θ	1.04201	$1.0428^{+0.0024}_{-0.0023}$	β_4^1	-0.20	$0.0^{+2.0}_{-2.0}$	H_0	67.53	$68.8^{+3.0}_{-2.9}$
τ	0.0914	$0.096^{+0.031}_{-0.027}$	β_5^1	-0.05	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.217	$2.24^{+0.14}_{-0.12}$
Y_P	0.2714	$0.286^{+0.049}_{-0.050}$	β_1^2	0.08	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.1430	$0.1413^{+0.0050}_{-0.0050}$
n_s	0.9678	$0.979^{+0.028}_{-0.027}$	β_2^2	-0.07	$0.0^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09656	$0.0971^{+0.0020}_{-0.0019}$
$\log[10^{10} A_s]$	3.099	$3.107^{+0.063}_{-0.057}$	β_3^2	-0.13	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2714	$0.286^{+0.049}_{-0.050}$
A_{100}^{PS}	185	166^{+100}_{-100}	β_4^2	-0.01	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8466	$1.845^{+0.030}_{-0.030}$
A_{143}^{PS}	51.9	58^{+30}_{-30}	β_5^2	-0.24	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.783	$13.72^{+0.15}_{-0.15}$
A_{217}^{PS}	117.1	118^{+30}_{-30}	β_1^3	-0.02	$0.0^{+1.9}_{-1.9}$	z_*	1091.25	$1091.4^{+1.8}_{-1.7}$
A_{143}^{CIB}	12.3	—	β_2^3	-0.05	$-0.1^{+2.0}_{-2.0}$	r_*	144.43	$144.7^{+1.2}_{-1.2}$
A_{217}^{CIB}	26.6	24^{+10}_{-10}	β_3^3	-0.05	$0.0^{+1.9}_{-2.0}$	θ_*	1.04151	$1.0419^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.29	—	β_4^3	-0.80	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1060.43	$1061.5^{+3.1}_{-3.0}$
$r_{PS143/217}$	0.817	> 0.674	β_5^3	-0.25	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.16	$147.3^{+1.2}_{-1.2}$
r_{CIB}	0.506	—	β_1^4	0.08	$-0.1^{+1.9}_{-1.9}$	k_D	0.13957	$0.1390^{+0.0018}_{-0.0019}$
n^{CIB}	0.329	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.05	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16231	$0.1628^{+0.0020}_{-0.0020}$
$c_{100/143}$	1.00061	$1.00061^{+0.00078}_{-0.00077}$	β_3^4	-0.23	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3401	3361^{+120}_{-120}
$c_{217/143}$	0.99642	$0.9967^{+0.0026}_{-0.0026}$	β_4^4	0.03	$0.1^{+1.9}_{-2.0}$	θ_{EQ}	0.8138	$0.823^{+0.024}_{-0.023}$
$\xi^{tSZ-CIB}$	0.17	—	β_5^4	-0.06	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07152	$0.0724^{+0.0021}_{-0.0020}$
A^{kSZ}	2.64	—	Ω_Λ	0.6865	$0.701^{+0.034}_{-0.037}$	$H(0.57)$	0.0003105	$0.0003127^{+0.0000053}_{-0.0000048}$
β_1^1	0.52	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3135	$0.299^{+0.037}_{-0.034}$	$DA(0.57)$	1387.7	1371^{+40}_{-40}

Best-fit $\chi_{\text{eff}}^2 = 9802.96$; R-1 = 0.03163

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.38 commander_v3.light.clik: -8.19 CAMspec_v6.2TN_2013_01_18.clik: 7796.77

18.2 base_yhe_planck_CAMspec_lowl_lowLike_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02239	$0.02243^{+0.00076}_{-0.00073}$	β_2^1	0.01	$0.1^{+1.9}_{-1.9}$	σ_8	0.0695	$0.839^{+0.025}_{-0.024}$
$\Omega_c h^2$	0.11879	$0.1189^{+0.0046}_{-0.0046}$	β_3^1	-0.03	$0.0^{+2.0}_{-1.9}$	z_{re}	11.43	$11.9^{+2.4}_{-2.4}$
θ	1.04234	$1.0425^{+0.0023}_{-0.0022}$	β_4^1	-0.04	$0.0^{+2.0}_{-1.9}$	H_0	68.28	$68.4^{+2.6}_{-2.5}$
τ	0.0929	$0.098^{+0.030}_{-0.027}$	β_5^1	-0.02	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.221	$2.25^{+0.14}_{-0.12}$
Y_P	0.2749	$0.280^{+0.048}_{-0.050}$	β_1^2	-0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14183	$0.1419^{+0.0042}_{-0.0042}$
n_s	0.9741	$0.975^{+0.027}_{-0.026}$	β_2^2	-0.05	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09684	$0.0970^{+0.0020}_{-0.0019}$
$\log[10^{10} A_s]$	3.100	$3.111^{+0.059}_{-0.055}$	β_3^2	-0.11	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2749	$0.280^{+0.048}_{-0.050}$
A_{100}^{PS}	209	162^{+100}_{-100}	β_4^2	0.09	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8444	$1.846^{+0.028}_{-0.028}$
A_{143}^{PS}	61.2	57^{+30}_{-30}	β_5^2	0.02	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.747	$13.74^{+0.14}_{-0.15}$
A_{217}^{PS}	121.5	119^{+30}_{-30}	β_1^3	0.03	$0.0^{+1.9}_{-1.9}$	z_*	1091.02	$1091.2^{+1.7}_{-1.7}$
A_{143}^{CIB}	12.5	—	β_2^3	-0.12	$-0.1^{+2.0}_{-1.9}$	r_*	144.62	$144.5^{+1.0}_{-1.0}$
A_{217}^{CIB}	25.5	23^{+10}_{-10}	β_3^3	-0.03	$0.0^{+1.9}_{-1.9}$	θ_*	1.04173	$1.0418^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	2.24	—	β_4^3	-0.12	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1060.92	$1061.2^{+3.1}_{-3.0}$
$r_{PS143/217}$	0.785	> 0.676	β_5^3	-0.13	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.29	$147.2^{+1.1}_{-1.1}$
r_{CIB}	0.494	—	β_1^4	0.04	$-0.1^{+1.9}_{-1.9}$	k_D	0.13945	$0.1393^{+0.0017}_{-0.0017}$
n^{CIB}	0.299	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.16	$0.0^{+2.0}_{-1.9}$	θ_D	0.16228	$0.1625^{+0.0020}_{-0.0019}$
$c_{100/143}$	1.00060	$1.00061^{+0.00078}_{-0.00077}$	β_3^4	-0.04	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3374	3376^{+100}_{-100}
$c_{217/143}$	0.99655	$0.9967^{+0.0026}_{-0.0026}$	β_4^4	0.02	$0.0^{+1.9}_{-2.0}$	θ_{EQ}	0.8196	$0.820^{+0.020}_{-0.020}$
$\xi^{tSZ-CIB}$	0.35	—	β_5^4	0.13	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07203	$0.0721^{+0.0018}_{-0.0017}$
A^{kSZ}	0.2	—	Ω_Λ	0.6958	$0.696^{+0.030}_{-0.032}$	$H(0.57)$	0.00031175	$0.0003120^{+0.000047}_{-0.000044}$
β_1^1	0.35	$0.6^{+1.6}_{-1.6}$	Ω_m	0.3042	$0.304^{+0.032}_{-0.030}$	$DA(0.57)$	1377.4	1376^{+35}_{-35}

Best-fit $\chi_{\text{eff}}^2 = 9813.70$; R-1 = 0.01154

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.34 lensing_likelihood_v3.ref.clik.lensing: 11.59 commander_v3.light.clik: -9.19 CAMspec_v6.2TN_2013_01_18.clik
7796.98

18.3 base_yhe_planck_CAMspec_lowl_lowLike_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02233	$0.02244^{+0.00062}_{-0.00061}$	β_2^1	0.21	$0.1^{+1.9}_{-1.9}$	σ_8	0.8313	$0.836^{+0.029}_{-0.028}$
$\Omega_c h^2$	0.11838	$0.1186^{+0.0035}_{-0.0034}$	β_3^1	-0.11	$0.0^{+2.0}_{-1.9}$	z_{re}	11.40	$11.6^{+2.3}_{-2.3}$
θ	1.04230	$1.0427^{+0.0020}_{-0.0019}$	β_4^1	0.11	$0.0^{+2.0}_{-2.0}$	H_0	68.37	$68.5^{+1.8}_{-1.8}$
τ	0.0924	$0.095^{+0.028}_{-0.026}$	β_5^1	0.01	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.215	$2.23^{+0.13}_{-0.12}$
Y_P	0.2749	$0.284^{+0.045}_{-0.046}$	β_1^2	-0.05	$-0.1^{+1.8}_{-1.9}$	$\Omega_m h^2$	0.14136	$0.1416^{+0.0034}_{-0.0033}$
n_s	0.9741	$0.977^{+0.021}_{-0.021}$	β_2^2	0.10	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09665	$0.0971^{+0.0019}_{-0.0018}$
$\log[10^{10} A_s]$	3.098	$3.105^{+0.058}_{-0.055}$	β_3^2	-0.12	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2749	$0.284^{+0.045}_{-0.046}$
A_{100}^{PS}	171	165^{+100}_{-100}	β_4^2	-0.27	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8412	$1.845^{+0.029}_{-0.029}$
A_{143}^{PS}	61.0	58^{+30}_{-30}	β_5^2	-0.08	$-0.2^{+1.9}_{-1.9}$	Age/Gyr	13.752	$13.73^{+0.11}_{-0.11}$
A_{217}^{PS}	124.6	119^{+30}_{-30}	β_1^3	0.05	$0.0^{+1.9}_{-1.9}$	z_*	1091.06	$1091.4^{+1.8}_{-1.7}$
A_{143}^{CIB}	8.53	—	β_2^3	-0.08	$-0.1^{+1.9}_{-1.9}$	r_*	144.77	$144.61^{+0.96}_{-0.98}$
A_{217}^{CIB}	22	24^{+10}_{-10}	β_3^3	0.27	$0.0^{+1.9}_{-1.9}$	θ_*	1.04171	$1.0418^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	4.58	—	β_4^3	-0.24	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1060.73	$1061.3^{+2.7}_{-2.7}$
$r_{PS143/217}$	0.803	> 0.672	β_5^3	-0.08	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.47	$147.3^{+1.1}_{-1.1}$
r_{CIB}	0.471	—	β_1^4	0.03	$-0.1^{+1.9}_{-1.9}$	k_D	0.13922	$0.1391^{+0.0015}_{-0.0015}$
n^{CIB}	0.260	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.09	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16237	$0.1627^{+0.0019}_{-0.0019}$
$c_{100/143}$	1.00061	$1.00060^{+0.00078}_{-0.00077}$	β_3^4	0.08	$-0.1^{+1.9}_{-1.9}$	z_{EQ}	3362	3369^{+81}_{-78}
$c_{217/143}$	0.99644	$0.9967^{+0.0026}_{-0.0026}$	β_4^4	0.01	$0.0^{+2.0}_{-2.0}$	θ_{EQ}	0.8215	$0.821^{+0.015}_{-0.015}$
$\xi^{tSZ-CIB}$	0.36	—	β_5^4	-0.29	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07214	$0.0722^{+0.0012}_{-0.0012}$
A^{kSZ}	3.57	—	Ω_Λ	0.6976	$0.698^{+0.020}_{-0.022}$	$H(0.57)$	0.00031172	$0.0003123^{+0.000034}_{-0.000033}$
β_1^1	0.62	$0.5^{+1.6}_{-1.7}$	Ω_m	0.3024	$0.302^{+0.022}_{-0.020}$	$DA(0.57)$	1376.6	1374^{+25}_{-24}

Best-fit $\chi_{\text{eff}}^2 = 9803.47$; R-1 = 0.01240

χ_{eff}^2 : BAO - DR7: 0.55 6DF: 0.06 DR9: 0.67 CMB - lowlike.v22.light.clik: 2014.31 commander.v3.light.clik: -9.29 CAMspec.v6.2TN.2013_01_18.clik: 7797.17

18.4 base_yhe_planck_CAMspec_lowl_lowLike_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02254	$0.02279^{+0.00072}_{-0.00071}$	β_2^1	-0.11	$0.1^{+1.9}_{-1.9}$	σ_8	0.8291	$0.834^{+0.031}_{-0.029}$
$\Omega_c h^2$	0.11694	$0.1158^{+0.0049}_{-0.0047}$	β_3^1	-0.06	$0.0^{+1.9}_{-1.9}$	z_{re}	11.52	$12.2^{+2.5}_{-2.4}$
θ	1.04301	$1.0437^{+0.0021}_{-0.0021}$	β_4^1	-0.07	$0.0^{+2.0}_{-1.9}$	H_0	69.29	$70.2^{+2.6}_{-2.5}$
τ	0.0938	$0.102^{+0.031}_{-0.028}$	β_5^1	-0.22	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.219	$2.26^{+0.15}_{-0.13}$
Y_P	0.2887	$0.299^{+0.046}_{-0.048}$	β_1^2	0.11	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14013	$0.1392^{+0.0046}_{-0.0044}$
n_s	0.9814	$0.990^{+0.026}_{-0.025}$	β_2^2	-0.01	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09710	$0.0976^{+0.0019}_{-0.0019}$
$\log[10^{10} A_s]$	3.100	$3.117^{+0.064}_{-0.058}$	β_3^2	-0.05	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.2887	$0.299^{+0.046}_{-0.048}$
A_{100}^{PS}	204	171^{+100}_{-100}	β_4^2	0.19	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8397	$1.841^{+0.030}_{-0.029}$
A_{143}^{PS}	62.1	58^{+30}_{-30}	β_5^2	-0.09	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.704	$13.65^{+0.14}_{-0.14}$
A_{217}^{PS}	116.3	117^{+30}_{-30}	β_1^3	0.18	$0.0^{+1.9}_{-1.9}$	z_*	1091.27	$1091.3^{+1.8}_{-1.7}$
A_{143}^{CIB}	14.8	—	β_2^3	-0.05	$-0.1^{+2.0}_{-1.9}$	r_*	144.94	$145.0^{+1.1}_{-1.1}$
A_{217}^{CIB}	28.0	25^{+10}_{-10}	β_3^3	-0.02	$0.0^{+2.0}_{-1.9}$	θ_*	1.04202	$1.0423^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.13	—	β_4^3	-0.25	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1061.61	$1062.5^{+2.9}_{-2.9}$
$r_{PS143/217}$	0.788	> 0.667	β_5^3	-0.07	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.58	$147.6^{+1.2}_{-1.2}$
r_{CIB}	0.636	—	β_1^4	0.20	$-0.1^{+2.0}_{-1.9}$	k_D	0.13868	$0.1384^{+0.0017}_{-0.0017}$
n^{CIB}	0.254	$0.25^{+0.27}_{-0.30}$	β_2^4	0.01	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16287	$0.1632^{+0.0020}_{-0.0020}$
$c_{100/143}$	1.00057	$1.00061^{+0.00077}_{-0.00077}$	β_3^4	-0.04	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3333	3310^{+110}_{-110}
$c_{217/143}$	0.99679	$0.9968^{+0.0026}_{-0.0026}$	β_4^4	0.10	$0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8280	$0.834^{+0.022}_{-0.021}$
$\xi^{tSZ-CIB}$	0.58	—	β_5^4	0.23	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07277	$0.0733^{+0.0019}_{-0.0018}$
A^{kSZ}	1.82	—	Ω_Λ	0.7081	$0.717^{+0.027}_{-0.030}$	$H(0.57)$	0.00031335	$0.0003151^{+0.000047}_{-0.000044}$
β_1^1	0.51	$0.5^{+1.6}_{-1.6}$	Ω_m	0.2919	$0.283^{+0.030}_{-0.027}$	$DA(0.57)$	1363.9	1352^{+34}_{-34}

Best-fit $\chi_{\text{eff}}^2 = 9805.49$; R-1 = 0.01889

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.24 commander_v3.light.clik: -10.21 CAMspec_v6.2TN_2013.01.18.clik: 7797.91 Hubble - HST: 3.55

18.5 base_yhe_planck_CAMspec_lowl_lowLike_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02256	$0.02267^{+0.00076}_{-0.00073}$	β_2^1	0.04	$0.1^{+1.9}_{-1.9}$	σ_8	0.8280	$0.834^{+0.030}_{-0.028}$
$\Omega_c h^2$	0.1171	$0.1165^{+0.0051}_{-0.0050}$	β_3^1	-0.05	$0.0^{+1.9}_{-1.9}$	z_{re}	11.35	$12.0^{+2.5}_{-2.4}$
θ	1.04320	$1.0433^{+0.0022}_{-0.0022}$	β_4^1	-0.03	$0.0^{+2.0}_{-1.9}$	H_0	69.33	$69.7^{+2.8}_{-2.7}$
τ	0.0915	$0.0998^{+0.031}_{-0.028}$	β_5^1	0.02	$0.0^{+1.9}_{-1.9}$	$10^9 A_s$	2.211	$2.25^{+0.15}_{-0.13}$
Y_P	0.2938	$0.293^{+0.047}_{-0.049}$	β_1^2	-0.03	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14028	$0.1398^{+0.0048}_{-0.0046}$
n_s	0.9812	$0.986^{+0.027}_{-0.026}$	β_2^2	0.03	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09725	$0.0974^{+0.0020}_{-0.0019}$
$\log[10^{10} A_s]$	3.096	$3.112^{+0.063}_{-0.057}$	β_3^2	0.03	$-0.1^{+2.0}_{-2.0}$	Y_{He}	0.2938	$0.293^{+0.047}_{-0.049}$
A_{100}^{PS}	222	168^{+100}_{-100}	β_4^2	0.08	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8411	$1.841^{+0.030}_{-0.029}$
A_{143}^{PS}	45	58^{+30}_{-30}	β_5^2	-0.13	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.697	$13.68^{+0.14}_{-0.15}$
A_{217}^{PS}	110.9	118^{+30}_{-30}	β_1^3	-0.01	$0.0^{+1.9}_{-1.9}$	z_*	1091.48	$1091.3^{+1.8}_{-1.7}$
A_{143}^{CIB}	17.4	—	β_2^3	0.02	$-0.1^{+2.0}_{-1.9}$	r_*	144.86	$144.9^{+1.1}_{-1.1}$
A_{217}^{CIB}	31.3	25^{+10}_{-10}	β_3^3	-0.10	$0.0^{+2.0}_{-1.9}$	θ_*	1.04206	$1.0422^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.61	—	β_4^3	-0.19	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1061.84	$1062.0^{+3.0}_{-3.0}$
$r_{PS143/217}$	0.754	> 0.669	β_5^3	-0.14	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.50	$147.5^{+1.2}_{-1.2}$
r_{CIB}	0.650	—	β_1^4	-0.06	$-0.1^{+2.0}_{-1.9}$	k_D	0.13856	$0.1386^{+0.0018}_{-0.0018}$
n^{CIB}	0.270	$0.25^{+0.27}_{-0.30}$	β_2^4	0.07	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16310	$0.1630^{+0.0020}_{-0.0020}$
$c_{100/143}$	1.00058	$1.00061^{+0.00077}_{-0.00077}$	β_3^4	-0.05	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3337	3325^{+110}_{-110}
$c_{217/143}$	0.99670	$0.9968^{+0.0026}_{-0.0026}$	β_4^4	0.00	$0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8275	$0.830^{+0.023}_{-0.022}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.11	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07277	$0.0730^{+0.0020}_{-0.0019}$
A^{kSZ}	1.97	—	Ω_Λ	0.7081	$0.711^{+0.030}_{-0.033}$	$H(0.57)$	0.00031352	$0.0003142^{+0.000050}_{-0.000047}$
β_1^1	0.10	$0.5^{+1.6}_{-1.6}$	Ω_m	0.2919	$0.289^{+0.033}_{-0.030}$	$DA(0.57)$	1363.1	1359^{+37}_{-37}

Best-fit $\chi_{\text{eff}}^2 = 10229.39$; R-1 = 0.01348

χ_{eff}^2 : CMB - lowlike_v22.light.clik: 2014.18 commander_v3.light.clik: -10.23 CAMspec_v6.2TN_2013_01_18.clik: 7797.54 SN - SNLS April_2012: 427.90

18.6 base_yhe_planck_CAMspec_lowl_lowLike_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02242	$0.02253^{+0.00076}_{-0.00073}$	β_2^1	0.095	$0.1^{+1.9}_{-1.9}$	σ_8	0.8322	$0.835^{+0.030}_{-0.028}$
$\Omega_c h^2$	0.1183	$0.1177^{+0.0052}_{-0.0051}$	β_3^1	-0.23	$0.0^{+2.0}_{-1.9}$	z_{re}	11.45	$11.8^{+2.5}_{-2.4}$
θ	1.04256	$1.0430^{+0.0023}_{-0.0023}$	β_4^1	-0.08	$0.0^{+2.0}_{-1.9}$	H_0	68.55	$69.0^{+2.8}_{-2.7}$
τ	0.0929	$0.097^{+0.030}_{-0.027}$	β_5^1	0.01	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.218	$2.24^{+0.14}_{-0.12}$
Y_P	0.2788	$0.288^{+0.047}_{-0.050}$	β_1^2	-0.04	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14139	$0.1409^{+0.0049}_{-0.0047}$
n_s	0.9759	$0.981^{+0.027}_{-0.026}$	β_2^2	0.00	$0.0^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09692	$0.0972^{+0.0020}_{-0.0019}$
$\log[10^{10} A_s]$	3.099	$3.108^{+0.061}_{-0.056}$	β_3^2	-0.17	$-0.1^{+1.9}_{-2.0}$	Y_{He}	0.2788	$0.288^{+0.047}_{-0.050}$
A_{100}^{PS}	168	167^{+100}_{-100}	β_4^2	0.14	$0.1^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8419	$1.843^{+0.030}_{-0.030}$
A_{143}^{PS}	54.1	58^{+30}_{-30}	β_5^2	-0.15	$-0.2^{+1.9}_{-2.0}$	Age/Gyr	13.736	$13.71^{+0.14}_{-0.15}$
A_{217}^{PS}	123.6	118^{+30}_{-30}	β_1^3	-0.06	$0.0^{+1.9}_{-1.9}$	z_*	1091.11	$1091.3^{+1.8}_{-1.7}$
A_{143}^{CIB}	9.13	—	β_2^3	0.01	$-0.1^{+2.0}_{-1.9}$	r_*	144.70	$144.7^{+1.2}_{-1.2}$
A_{217}^{CIB}	23.9	24^{+10}_{-10}	β_3^3	0.09	$0.0^{+2.0}_{-1.9}$	θ_*	1.04185	$1.0420^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	6.08	—	β_4^3	-0.13	$-0.2^{+2.0}_{-2.0}$	z_{drag}	1061.08	$1061.6^{+3.0}_{-3.0}$
$r_{PS143/217}$	0.768	> 0.670	β_5^3	-0.28	$-0.1^{+2.0}_{-2.0}$	r_{drag}	147.37	$147.4^{+1.2}_{-1.2}$
r_{CIB}	0.575	—	β_1^4	-0.05	$-0.1^{+1.9}_{-1.9}$	k_D	0.13923	$0.1389^{+0.0018}_{-0.0018}$
n^{CIB}	0.223	$0.25^{+0.26}_{-0.30}$	β_2^4	-0.05	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16246	$0.1628^{+0.0020}_{-0.0020}$
$c_{100/143}$	1.00060	$1.00060^{+0.00078}_{-0.00077}$	β_3^4	-0.07	$-0.1^{+2.0}_{-1.9}$	z_{EQ}	3363	3351^{+120}_{-110}
$c_{217/143}$	0.99676	$0.9967^{+0.0026}_{-0.0026}$	β_4^4	0.18	$0.1^{+2.0}_{-2.0}$	θ_{EQ}	0.8218	$0.825^{+0.023}_{-0.023}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.07	$0.1^{+2.0}_{-1.9}$	$r_s/D_v(0.57)$	0.07223	$0.0725^{+0.0020}_{-0.0019}$
A^{kSZ}	1.93	—	Ω_Λ	0.6991	$0.704^{+0.031}_{-0.034}$	$H(0.57)$	0.00031218	$0.0003131^{+0.000051}_{-0.000046}$
β_1^1	0.45	$0.5^{+1.6}_{-1.6}$	Ω_m	0.3009	$0.296^{+0.034}_{-0.031}$	$DA(0.57)$	1373.8	1368^{+38}_{-38}

Best-fit $\chi_{\text{eff}}^2 = 9931.59$; R-1 = 0.01079

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.30 commander.v3.light.clik: -9.53 CAMspec.v6.2TN_2013_01_18.clik: 7796.64 SN - Union2.1: 130.18

18.7 base_yhe_planck_CAMspec_low1

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02225	$0.0235^{+0.0015}_{-0.0014}$	β_2^1	-0.02	$0.0^{+1.9}_{-1.9}$	σ_8	0.832	$0.916^{+0.095}_{-0.094}$
$\Omega_c h^2$	0.1187	$0.1122^{+0.0088}_{-0.0085}$	β_3^1	0.14	$0.0^{+1.9}_{-1.9}$	z_{re}	11.6	$19.3^{+7.1}_{-9.1}$
θ	1.04209	$1.0453^{+0.0038}_{-0.0036}$	β_4^1	-0.03	$0.0^{+2.0}_{-2.0}$	H_0	68.1	$72.7^{+5.8}_{-5.4}$
τ	0.094	$0.20^{+0.12}_{-0.12}$	β_5^1	0.05	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$2.78^{+0.70}_{-0.62}$
Y_P	0.269	$0.331^{+0.070}_{-0.069}$	β_1^2	-0.12	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1416	$0.1363^{+0.0077}_{-0.0073}$
n_s	0.969	$1.021^{+0.062}_{-0.055}$	β_2^2	0.14	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09646	$0.0990^{+0.0031}_{-0.0028}$
$\log[10^{10} A_s]$	3.100	$3.32^{+0.23}_{-0.24}$	β_3^2	-0.36	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.269	$0.331^{+0.070}_{-0.069}$
A_{100}^{PS}	191	159^{+100}_{-100}	β_4^2	0.01	$0.1^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8378	$1.840^{+0.030}_{-0.029}$
A_{143}^{PS}	45	60^{+30}_{-30}	β_5^2	0.07	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.768	$13.52^{+0.27}_{-0.30}$
A_{217}^{PS}	116.6	122^{+30}_{-30}	β_1^3	0.12	$0.0^{+1.9}_{-1.9}$	z_*	1090.96	$1091.6^{+1.8}_{-1.7}$
A_{143}^{CIB}	12.7	—	β_2^3	-0.06	$-0.1^{+1.9}_{-1.9}$	r_*	144.77	$145.3^{+1.3}_{-1.4}$
A_{217}^{CIB}	26.8	23^{+10}_{-10}	β_3^3	-0.12	$0.0^{+1.9}_{-2.0}$	θ_*	1.04166	$1.0430^{+0.0019}_{-0.0018}$
A_{143}^{tSZ}	5.35	—	β_4^3	-0.18	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1060.4	$1065.0^{+5.4}_{-4.9}$
$r_{PS143/217}$	0.794	> 0.680	β_5^3	0.04	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.49	$147.7^{+1.2}_{-1.2}$
r_{CIB}	0.569	—	β_1^4	0.10	$0.0^{+1.9}_{-1.9}$	k_D	0.13937	$0.1374^{+0.0026}_{-0.0027}$
n^{CIB}	0.285	$0.26^{+0.26}_{-0.30}$	β_2^4	-0.35	$-0.1^{+2.0}_{-1.9}$	θ_D	0.16220	$0.1642^{+0.0027}_{-0.0025}$
$c_{100/143}$	1.00058	$1.00061^{+0.00077}_{-0.00078}$	β_3^4	0.16	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3368	3242^{+180}_{-170}
$c_{217/143}$	0.99628	$0.9967^{+0.0026}_{-0.0025}$	β_4^4	0.14	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8200	$0.851^{+0.042}_{-0.040}$
$\xi^{tSZ-CIB}$	0.01	—	β_5^4	0.07	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07199	$0.0751^{+0.0041}_{-0.0037}$
A^{kSZ}	2.11	—	Ω_Λ	0.695	$0.741^{+0.050}_{-0.058}$	$H(0.57)$	0.0003112	$0.000320^{+0.000012}_{-0.0000098}$
β_1^1	0.49	$0.5^{+1.6}_{-1.7}$	Ω_m	0.305	$0.259^{+0.058}_{-0.050}$	$DA(0.57)$	1380	1318^{+72}_{-73}

Best-fit $\chi_{\text{eff}}^2 = 7787.88$; R-1 = 0.01617

χ_{eff}^2 : CMB - commander.v3.light.clik: -8.46 CAMspec.v6.2TN_2013_01_18.clik: 7796.35

18.8 base_yhe_planck_CAMspec_lowl_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02235	$0.0233^{+0.0014}_{-0.0012}$	β_2^1	0.22	$0.1^{+1.9}_{-1.9}$	σ_8	0.069	$0.886^{+0.066}_{-0.060}$
$\Omega_c h^2$	0.1191	$0.1128^{+0.0084}_{-0.0087}$	β_3^1	-0.03	$0.0^{+2.0}_{-2.0}$	z_{re}	11.3	$17.3^{+6.2}_{-6.8}$
θ	1.04217	$1.0446^{+0.0036}_{-0.0033}$	β_4^1	-0.08	$0.0^{+2.0}_{-2.0}$	H_0	68.1	$72.0^{+5.7}_{-5.0}$
τ	0.092	$0.172^{+0.097}_{-0.091}$	β_5^1	-0.07	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.216	$2.60^{+0.53}_{-0.43}$
Y_P	0.271	$0.316^{+0.067}_{-0.063}$	β_1^2	-0.06	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1421	$0.1367^{+0.0074}_{-0.0075}$
n_s	0.972	$1.010^{+0.056}_{-0.048}$	β_2^2	0.06	$-0.1^{+2.0}_{-1.9}$	$\Omega_m h^3$	0.09673	$0.0984^{+0.0028}_{-0.0025}$
$\log[10^{10} A_s]$	3.098	$3.25^{+0.19}_{-0.17}$	β_3^2	0.12	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.271	$0.316^{+0.067}_{-0.063}$
A_{100}^{PS}	159	162^{+100}_{-100}	β_4^2	0.02	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8436	$1.835^{+0.030}_{-0.029}$
A_{143}^{PS}	56.6	58^{+30}_{-30}	β_5^2	-0.18	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.758	$13.56^{+0.25}_{-0.28}$
A_{217}^{PS}	126.4	119^{+30}_{-30}	β_1^3	-0.08	$0.0^{+1.9}_{-1.9}$	z_*	1090.92	$1091.3^{+1.7}_{-1.7}$
A_{143}^{CIB}	6.64	—	β_2^3	0.01	$-0.1^{+2.0}_{-2.0}$	r_*	144.60	$145.4^{+1.4}_{-1.4}$
A_{217}^{CIB}	21	24^{+10}_{-10}	β_3^3	-0.03	$0.0^{+1.9}_{-1.9}$	θ_*	1.04168	$1.0428^{+0.0019}_{-0.0018}$
A_{143}^{tSZ}	4.68	—	β_4^3	-0.03	$-0.2^{+1.9}_{-1.9}$	z_{drag}	1060.70	$1064.0^{+5.0}_{-4.3}$
$r_{PS143/217}$	0.770	> 0.673	β_5^3	-0.12	$-0.1^{+1.9}_{-2.0}$	r_{drag}	147.28	$147.8^{+1.2}_{-1.2}$
r_{CIB}	0.435	—	β_1^4	-0.16	$-0.1^{+1.9}_{-2.0}$	k_D	0.13960	$0.1377^{+0.0025}_{-0.0027}$
n^{CIB}	0.235	$0.25^{+0.26}_{-0.30}$	β_2^4	0.15	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16212	$0.1636^{+0.0026}_{-0.0023}$
$c_{100/143}$	1.00062	$1.00060^{+0.00077}_{-0.00077}$	β_3^4	-0.03	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3379	3251^{+180}_{-180}
$c_{217/143}$	0.99660	$0.9967^{+0.0026}_{-0.0025}$	β_4^4	-0.06	$0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8183	$0.848^{+0.043}_{-0.038}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.01	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07190	$0.0747^{+0.0041}_{-0.0035}$
A^{kSZ}	2.87	—	Ω_Λ	0.694	$0.735^{+0.051}_{-0.055}$	$H(0.57)$	0.0003114	$0.000319^{+0.000011}_{-0.0000089}$
β_1^1	0.53	$0.5^{+1.6}_{-1.7}$	Ω_m	0.306	$0.265^{+0.055}_{-0.051}$	$DA(0.57)$	1380	1327^{+67}_{-73}

Best-fit $\chi_{\text{eff}}^2 = 7799.17$; R-1 = 0.01626

χ_{eff}^2 : CMB - lensing_likelihood.v3_ref.clik.lensing: 11.53 commander.v3.light.clik: -8.97 CAMspec.v6.2TN.2013.01.18.clik: 7796.62

18.9 base_yhe_planck_CAMspec_lowl_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02232	$0.02261^{+0.00071}_{-0.00069}$	β_2^1	0.32	$0.1^{+1.9}_{-1.9}$	σ_8	0.832	$0.867^{+0.066}_{-0.065}$
$\Omega_c h^2$	0.11842	$0.1180^{+0.0036}_{-0.0037}$	β_3^1	-0.09	$0.0^{+1.9}_{-2.0}$	z_{re}	11.4	$14.4^{+5.4}_{-6.6}$
θ	1.04231	$1.0431^{+0.0021}_{-0.0020}$	β_4^1	-0.07	$0.0^{+2.0}_{-2.0}$	H_0	68.34	$69.0^{+2.1}_{-2.0}$
τ	0.093	$0.130^{+0.073}_{-0.077}$	β_5^1	-0.07	$0.0^{+1.9}_{-2.0}$	$10^9 A_s$	2.216	$2.40^{+0.37}_{-0.35}$
Y_P	0.2753	$0.293^{+0.047}_{-0.047}$	β_1^2	-0.14	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.14138	$0.1412^{+0.0034}_{-0.0034}$
n_s	0.9737	$0.985^{+0.027}_{-0.025}$	β_2^2	-0.09	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09663	$0.0975^{+0.0020}_{-0.0019}$
$\log[10^{10} A_s]$	3.098	$3.18^{+0.15}_{-0.15}$	β_3^2	-0.24	$-0.1^{+2.0}_{-1.9}$	Y_{He}	0.2753	$0.293^{+0.047}_{-0.047}$
A_{100}^{PS}	175	160^{+100}_{-100}	β_4^2	0.03	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8407	$1.847^{+0.029}_{-0.027}$
A_{143}^{PS}	51.2	59^{+30}_{-30}	β_5^2	-0.22	$-0.1^{+1.9}_{-1.9}$	Age/Gyr	13.754	$13.70^{+0.13}_{-0.13}$
A_{217}^{PS}	123.3	120^{+30}_{-30}	β_1^3	-0.13	$0.0^{+1.9}_{-1.9}$	z_*	1091.10	$1091.5^{+1.8}_{-1.7}$
A_{143}^{CIB}	10.3	—	β_2^3	-0.22	$-0.1^{+1.9}_{-2.0}$	r_*	144.77	$144.59^{+0.93}_{-0.95}$
A_{217}^{CIB}	24.0	23^{+10}_{-10}	β_3^3	0.14	$0.0^{+2.0}_{-1.9}$	θ_*	1.04171	$1.0420^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.77	—	β_4^3	-0.17	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1060.73	$1062.0^{+3.1}_{-2.9}$
$r_{PS143/217}$	0.797	> 0.676	β_5^3	0.05	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.47	$147.2^{+1.0}_{-1.0}$
r_{CIB}	0.498	—	β_1^4	-0.15	$-0.1^{+2.0}_{-1.9}$	k_D	0.13919	$0.1389^{+0.0015}_{-0.0015}$
n^{CIB}	0.279	$0.26^{+0.26}_{-0.30}$	β_2^4	-0.16	$-0.1^{+2.0}_{-2.0}$	θ_D	0.16241	$0.1630^{+0.0020}_{-0.0019}$
$c_{100/143}$	1.00061	$1.00060^{+0.00075}_{-0.00079}$	β_3^4	-0.19	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3363	3359^{+82}_{-81}
$c_{217/143}$	0.99632	$0.9967^{+0.0025}_{-0.0025}$	β_4^4	0.15	$0.1^{+2.0}_{-1.9}$	θ_{EQ}	0.8213	$0.824^{+0.016}_{-0.016}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	-0.096	$0.1^{+2.0}_{-2.0}$	$r_s/D_v(0.57)$	0.07213	$0.0725^{+0.0014}_{-0.0013}$
A^{kSZ}	2.49	—	Ω_Λ	0.6973	$0.703^{+0.023}_{-0.024}$	$H(0.57)$	0.00031167	$0.0003133^{+0.000041}_{-0.000038}$
β_1^1	0.39	$0.6^{+1.7}_{-1.7}$	Ω_m	0.3027	$0.297^{+0.024}_{-0.023}$	$DA(0.57)$	1377.0	1367^{+28}_{-29}

Best-fit $\chi_{\text{eff}}^2 = 7788.86$; R-1 = 0.04169

χ_{eff}^2 : BAO - DR7: 0.57 6DF: 0.06 DR9: 0.65 CMB - commander.v3.light.clik: -9.24 CAMspec.v6.2TN_2013_01_18.clik: 7796.82

18.10 base_yhe_planck_CAMspec_lowl_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02260	$0.0237^{+0.0011}_{-0.0010}$	β_2^1	0.06	$0.0^{+1.9}_{-1.9}$	σ_8	0.828	$0.925^{+0.077}_{-0.078}$
$\Omega_c h^2$	0.1165	$0.1111^{+0.0061}_{-0.0058}$	β_3^1	-0.01	$0.0^{+2.0}_{-2.0}$	z_{re}	11.5	20^{+5}_{-7}
θ	1.04307	$1.0457^{+0.0028}_{-0.0028}$	β_4^1	0.04	$0.0^{+2.0}_{-2.0}$	H_0	69.54	$73.4^{+3.8}_{-3.8}$
τ	0.094	$0.216^{+0.087}_{-0.094}$	β_5^1	-0.07	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$2.85^{+0.53}_{-0.50}$
Y_P	0.287	$0.339^{+0.055}_{-0.057}$	β_1^2	-0.17	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1397	$0.1354^{+0.0054}_{-0.0051}$
n_s	0.9837	$1.027^{+0.043}_{-0.041}$	β_2^2	0.00	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09716	$0.0993^{+0.0025}_{-0.0024}$
$\log[10^{10} A_s]$	3.101	$3.34^{+0.17}_{-0.19}$	β_3^2	-0.08	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.287	$0.339^{+0.055}_{-0.057}$
A_{100}^{PS}	220	158^{+100}_{-100}	β_4^2	-0.02	$0.1^{+1.9}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8394	$1.839^{+0.029}_{-0.028}$
A_{143}^{PS}	62.5	61^{+30}_{-30}	β_5^2	-0.11	$-0.2^{+2.0}_{-2.0}$	Age/Gyr	13.694	$13.48^{+0.20}_{-0.21}$
A_{217}^{PS}	121.3	122^{+30}_{-30}	β_1^3	-0.02	$0.0^{+1.9}_{-1.9}$	z_*	1091.09	$1091.6^{+1.8}_{-1.7}$
A_{143}^{CIB}	11.4	—	β_2^3	-0.05	$-0.1^{+2.0}_{-2.0}$	r_*	145.02	$145.4^{+1.1}_{-1.1}$
A_{217}^{CIB}	24.4	23^{+10}_{-10}	β_3^3	-0.03	$0.0^{+1.9}_{-1.9}$	θ_*	1.04212	$1.0432^{+0.0015}_{-0.0015}$
A_{143}^{tSZ}	0.3	—	β_4^3	-0.095	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1061.65	$1065.6^{+4.1}_{-3.9}$
$r_{PS143/217}$	0.772	> 0.683	β_5^3	-0.098	$-0.1^{+2.0}_{-1.9}$	r_{drag}	147.64	$147.8^{+1.1}_{-1.1}$
r_{CIB}	0.405	—	β_1^4	-0.13	$0.0^{+1.9}_{-2.0}$	k_D	0.13872	$0.1371^{+0.0020}_{-0.0020}$
n^{CIB}	0.316	$0.26^{+0.26}_{-0.30}$	β_2^4	-0.06	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16274	$0.1644^{+0.0023}_{-0.0022}$
$c_{100/143}$	1.00058	$1.00060^{+0.00078}_{-0.00078}$	β_3^4	-0.07	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3323	3220^{+130}_{-120}
$c_{217/143}$	0.99646	$0.9967^{+0.0025}_{-0.0025}$	β_4^4	0.04	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8301	$0.855^{+0.029}_{-0.028}$
$\xi^{tSZ-CIB}$	0.45	—	β_5^4	-0.02	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07296	$0.0755^{+0.0027}_{-0.0026}$
A^{kSZ}	3.83	—	Ω_Λ	0.7111	$0.748^{+0.033}_{-0.037}$	$H(0.57)$	0.0003138	$0.0003213^{+0.000077}_{-0.000071}$
β_1^1	0.37	$0.5^{+1.6}_{-1.7}$	Ω_m	0.2889	$0.252^{+0.037}_{-0.033}$	$DA(0.57)$	1360.5	1309^{+50}_{-49}

Best-fit $\chi_{\text{eff}}^2 = 7791.68$; R-1 = 0.01066

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.44 CAMspec.v6.2TN_2013.01.18.clik: 7798.95 Hubble - HST: 3.17

18.11 base_yhe_planck_CAMspec_lowl_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02264	$0.0238^{+0.0013}_{-0.0013}$	β_2^1	-0.11	$0.0^{+1.9}_{-1.9}$	σ_8	0.828	$0.931^{+0.086}_{-0.088}$
$\Omega_c h^2$	0.1168	$0.1104^{+0.0075}_{-0.0071}$	β_3^1	-0.07	$0.0^{+2.0}_{-1.9}$	z_{re}	11.4	21^{+6}_{-8}
θ	1.04344	$1.0460^{+0.0034}_{-0.0033}$	β_4^1	-0.02	$0.0^{+2.0}_{-2.0}$	H_0	69.58	$73.9^{+4.9}_{-4.7}$
τ	0.092	$0.22^{+0.10}_{-0.11}$	β_5^1	0.01	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.21	$2.90^{+0.62}_{-0.59}$
Y_P	0.299	$0.343^{+0.063}_{-0.065}$	β_1^2	-0.24	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1401	$0.1348^{+0.0065}_{-0.0060}$
n_s	0.984	$1.032^{+0.054}_{-0.050}$	β_2^2	-0.08	$0.0^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09747	$0.0995^{+0.0029}_{-0.0027}$
$\log[10^{10} A_s]$	3.098	$3.36^{+0.20}_{-0.22}$	β_3^2	-0.16	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.299	$0.343^{+0.063}_{-0.065}$
A_{100}^{PS}	189	158^{+100}_{-100}	β_4^2	0.099	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8411	$1.838^{+0.029}_{-0.028}$
A_{143}^{PS}	45	61^{+30}_{-30}	β_5^2	-0.08	$-0.1^{+1.9}_{-2.0}$	Age/Gyr	13.680	$13.46^{+0.25}_{-0.26}$
A_{217}^{PS}	116.3	122^{+30}_{-30}	β_1^3	0.14	$0.0^{+1.9}_{-1.9}$	z_*	1091.57	$1091.7^{+1.8}_{-1.8}$
A_{143}^{CIB}	14.3	—	β_2^3	-0.09	$-0.1^{+1.9}_{-2.0}$	r_*	144.86	$145.5^{+1.2}_{-1.2}$
A_{217}^{CIB}	29.8	24^{+10}_{-10}	β_3^3	-0.04	$0.0^{+1.9}_{-1.9}$	θ_*	1.04215	$1.0434^{+0.0017}_{-0.0017}$
A_{143}^{tSZ}	9.79	—	β_4^3	-0.16	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1062.22	$1065.9^{+5.0}_{-4.7}$
$r_{PS143/217}$	0.753	> 0.685	β_5^3	-0.05	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.47	$147.8^{+1.1}_{-1.2}$
r_{CIB}	0.767	—	β_1^4	-0.04	$0.0^{+1.9}_{-2.0}$	k_D	0.13844	$0.1369^{+0.0024}_{-0.0024}$
n^{CIB}	0.151	$0.26^{+0.26}_{-0.30}$	β_2^4	-0.19	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16326	$0.1646^{+0.0026}_{-0.0025}$
$c_{100/143}$	1.00058	$1.00060^{+0.00078}_{-0.00078}$	β_3^4	-0.11	$-0.1^{+2.0}_{-2.0}$	z_{EQ}	3332	3206^{+150}_{-140}
$c_{217/143}$	0.99712	$0.9967^{+0.0025}_{-0.0025}$	β_4^4	0.10	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8289	$0.859^{+0.035}_{-0.035}$
$\xi^{tSZ-CIB}$	0.00	—	β_5^4	0.13	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07293	$0.0759^{+0.0035}_{-0.0033}$
A^{kSZ}	0.2	—	Ω_Λ	0.7107	$0.752^{+0.040}_{-0.047}$	$H(0.57)$	0.0003140	$0.000322^{+0.000010}_{-0.0000090}$
β_1^1	0.30	$0.5^{+1.6}_{-1.7}$	Ω_m	0.2893	$0.248^{+0.047}_{-0.040}$	$DA(0.57)$	1359	1303^{+62}_{-62}

Best-fit $\chi_{\text{eff}}^2 = 8214.18$; R-1 = 0.01117

χ_{eff}^2 : CMB - commander.v3.light.clik: -10.49 CAMspec.v6.2TN_2013_01_18.clik: 7796.96 SN - SNLS April_2012: 427.71

18.12 base_yhe_planck_CAMspec_lowl_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02237	$0.0234^{+0.0014}_{-0.0012}$	β_2^1	0.17	$0.0^{+1.9}_{-1.9}$	σ_8	0.832	$0.911^{+0.090}_{-0.088}$
$\Omega_c h^2$	0.1182	$0.1128^{+0.0077}_{-0.0078}$	β_3^1	0.06	$0.0^{+2.0}_{-2.0}$	z_{re}	11.5	$18.8^{+6.8}_{-8.4}$
θ	1.04246	$1.0451^{+0.0036}_{-0.0033}$	β_4^1	0.07	$0.0^{+2.0}_{-2.0}$	H_0	68.51	$72.3^{+5.2}_{-4.7}$
τ	0.094	$0.19^{+0.11}_{-0.11}$	β_5^1	-0.18	$0.0^{+2.0}_{-2.0}$	$10^9 A_s$	2.22	$2.73^{+0.65}_{-0.57}$
Y_P	0.277	$0.327^{+0.067}_{-0.065}$	β_1^2	0.07	$-0.1^{+1.8}_{-1.8}$	$\Omega_m h^2$	0.1412	$0.1368^{+0.0067}_{-0.0066}$
n_s	0.975	$1.017^{+0.056}_{-0.048}$	β_2^2	0.06	$0.0^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09675	$0.0988^{+0.0030}_{-0.0027}$
$\log[10^{10} A_s]$	3.100	$3.30^{+0.22}_{-0.23}$	β_3^2	0.20	$-0.1^{+1.9}_{-1.9}$	Y_{He}	0.277	$0.327^{+0.067}_{-0.065}$
A_{100}^{PS}	185	159^{+100}_{-100}	β_4^2	-0.08	$0.1^{+1.9}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8398	$1.841^{+0.029}_{-0.029}$
A_{143}^{PS}	55.1	60^{+30}_{-30}	β_5^2	-0.16	$-0.1^{+2.0}_{-2.0}$	Age/Gyr	13.743	$13.54^{+0.24}_{-0.27}$
A_{217}^{PS}	120.0	121^{+30}_{-30}	β_1^3	-0.18	$0.0^{+1.9}_{-1.9}$	z_*	1091.08	$1091.6^{+1.8}_{-1.7}$
A_{143}^{CIB}	13.3	—	β_2^3	0.01	$-0.1^{+2.0}_{-2.0}$	r_*	144.78	$145.2^{+1.2}_{-1.3}$
A_{217}^{CIB}	26.2	23^{+10}_{-10}	β_3^3	0.08	$0.0^{+1.9}_{-1.9}$	θ_*	1.04181	$1.0429^{+0.0018}_{-0.0017}$
A_{143}^{tSZ}	5.35	—	β_4^3	0.00	$-0.2^{+1.9}_{-2.0}$	z_{drag}	1060.89	$1064.7^{+5.1}_{-4.5}$
$r_{PS143/217}$	0.795	> 0.681	β_5^3	-0.09	$-0.1^{+1.9}_{-1.9}$	r_{drag}	147.47	$147.6^{+1.2}_{-1.2}$
r_{CIB}	0.594	—	β_1^4	-0.14	$0.0^{+1.9}_{-1.9}$	k_D	0.13917	$0.1375^{+0.0024}_{-0.0025}$
n^{CIB}	0.254	$0.26^{+0.26}_{-0.30}$	β_2^4	0.23	$-0.1^{+1.9}_{-1.9}$	θ_D	0.16244	$0.1640^{+0.0026}_{-0.0024}$
$c_{100/143}$	1.00059	$1.00060^{+0.00077}_{-0.00078}$	β_3^4	-0.06	$-0.1^{+1.9}_{-2.0}$	z_{EQ}	3359	3254^{+160}_{-160}
$c_{217/143}$	0.99660	$0.9967^{+0.0026}_{-0.0025}$	β_4^4	-0.16	$0.1^{+1.9}_{-1.9}$	θ_{EQ}	0.8223	$0.848^{+0.038}_{-0.035}$
$\xi^{tSZ-CIB}$	0.31	—	β_5^4	-0.04	$0.1^{+1.9}_{-1.9}$	$r_s/D_v(0.57)$	0.07224	$0.0748^{+0.0037}_{-0.0033}$
A^{kSZ}	0.9	—	Ω_Λ	0.6992	$0.737^{+0.046}_{-0.050}$	$H(0.57)$	0.0003120	$0.000319^{+0.000010}_{-0.000086}$
β_1^1	0.29	$0.5^{+1.6}_{-1.7}$	Ω_m	0.3008	$0.263^{+0.050}_{-0.046}$	$DA(0.57)$	1375	1324^{+63}_{-67}

Best-fit $\chi_{\text{eff}}^2 = 7917.60$; R-1 = 0.01079

χ_{eff}^2 : CMB - commander.v3.light.clik: -9.33 CAMspec.v6.2TN_2013_01_18.clik: 7796.75 SN - Union2.1: 130.18

18.13 base_yhe_planck_CAMspec_lowl_lowLike_highL

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02220	$0.02236^{+0.00076}_{-0.00074}$	β_3^2	0.17	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9796	$0.979^{+0.040}_{-0.038}$
$\Omega_c h^2$	0.1192	$0.1188^{+0.0057}_{-0.0054}$	β_4^2	0.27	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9817	$0.983^{+0.021}_{-0.020}$
θ	1.04177	$1.0423^{+0.0021}_{-0.0021}$	β_5^2	-0.22	$-0.4^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0104	$1.018^{+0.047}_{-0.044}$
τ	0.0938	$0.095^{+0.030}_{-0.027}$	β_1^3	0.84	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6907	$0.695^{+0.033}_{-0.038}$
Y_P	0.2605	$0.274^{+0.042}_{-0.044}$	β_2^3	-0.42	$-0.6^{+1.9}_{-1.9}$	Ω_m	0.3093	$0.305^{+0.038}_{-0.033}$
n_s	0.9651	$0.972^{+0.026}_{-0.026}$	β_3^3	0.02	$0.2^{+2.0}_{-1.9}$	σ_8	0.8320	$0.834^{+0.030}_{-0.028}$
$\log[10^{10} A_s]$	3.099	$3.103^{+0.061}_{-0.055}$	β_4^3	-0.47	$-0.4^{+2.0}_{-1.9}$	z_{re}	11.49	$11.6^{+2.5}_{-2.4}$
A_{100}^{PS}	181	191^{+80}_{-80}	β_5^3	-0.50	$-0.3^{+2.0}_{-1.9}$	H_0	67.78	$68.3^{+2.8}_{-2.9}$
A_{143}^{PS}	79.3	81^{+20}_{-20}	β_1^4	0.07	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.217	$2.23^{+0.14}_{-0.12}$
A_{217}^{PS}	65.9	68^{+20}_{-20}	β_2^4	-0.08	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.1421	$0.1418^{+0.0052}_{-0.0050}$
A_{143}^{CIB}	3.22	—	β_3^4	0.13	$-0.1^{+1.9}_{-1.9}$	$\Omega_m h^3$	0.09630	$0.0968^{+0.0019}_{-0.0018}$
A_{217}^{CIB}	48.4	44^{+9}_{-9}	β_4^4	-0.03	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.2605	$0.274^{+0.042}_{-0.044}$
A_{143}^{tSZ}	5.08	—	β_5^4	0.47	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8376	$1.841^{+0.029}_{-0.029}$
$r_{PS143/217}$	0.835	> 0.725	$A_{\text{PS,ACT}}^{148}$	10.30	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.785	$13.75^{+0.14}_{-0.15}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	79.7	$80.9^{+7.8}_{-7.8}$	z_*	1090.69	$1091.0^{+1.5}_{-1.5}$
n^{CIB}	0.526	$0.48^{+0.13}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	6.69	$7.35^{+3.1}_{-2.7}$	r_*	144.70	$144.7^{+1.2}_{-1.2}$
$c_{100/143}$	1.00066	$1.00062^{+0.00077}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	9.87	$10.2^{+1.0}_{-0.97}$	θ_*	1.04158	$1.0418^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99947	$0.9994^{+0.0021}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.7	$77.4^{+8.1}_{-7.9}$	z_{drag}	1060.01	$1060.8^{+2.9}_{-2.8}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.811	> 0.666	r_{drag}	147.43	$147.4^{+1.2}_{-1.2}$
A^{kSZ}	1.57	—	$r_{\text{PS}}^{95/220}$	0.561	$0.57^{+0.25}_{-0.22}$	k_D	0.13975	$0.1394^{+0.0017}_{-0.0016}$
β_1^1	0.76	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9148	> 0.905	θ_D	0.16181	$0.1623^{+0.0016}_{-0.0016}$
β_2^1	-0.26	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.440	< 0.758	z_{EQ}	3380	3372^{+120}_{-120}
β_3^1	0.18	$0.0^{+1.9}_{-2.0}$	$A_{\text{dust,e}}$	0.867	$0.85^{+0.39}_{-0.39}$	θ_{EQ}	0.8175	$0.820^{+0.024}_{-0.024}$
β_4^1	-0.02	$0.0^{+1.9}_{-1.9}$	c_{ACTs}^{148}	0.9895	$0.990^{+0.015}_{-0.015}$	$r_s/D_v(0.57)$	0.07175	$0.0721^{+0.0020}_{-0.0020}$
β_5^1	-0.09	$0.0^{+1.9}_{-1.9}$	c_{ACTs}^{217}	1.0007	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.00031065	$0.0003117^{+0.0000050}_{-0.0000046}$
β_1^2	-0.61	$-1.14^{+1.7}_{-1.7}$	c_{ACTe}^{148}	0.9865	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1385.0	1378^{+39}_{-39}
β_2^2	-0.07	$-0.3^{+1.9}_{-1.9}$	c_{ACTe}^{217}	0.9595	$0.960^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.36$; R-1 = 0.03052

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.47 commander.v3.light.clik: -7.64 CAMspec.v6.2TN_2013_01_18.clik: 7817.51 actspt_2013_01.clik: 694.88

18.14 base_yhe_planck_CAMspec_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02226	$0.02233^{+0.00075}_{-0.00073}$	β_3^2	0.11	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9797	$0.980^{+0.039}_{-0.038}$
$\Omega_c h^2$	0.11928	$0.1192^{+0.0047}_{-0.0047}$	β_4^2	0.06	$0.3^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9821	$0.984^{+0.021}_{-0.021}$
θ	1.04196	$1.0422^{+0.0021}_{-0.0021}$	β_5^2	-0.49	$-0.4^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0123	$1.018^{+0.047}_{-0.044}$
τ	0.0929	$0.097^{+0.031}_{-0.027}$	β_1^3	0.76	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6914	$0.692^{+0.031}_{-0.032}$
Y_P	0.2650	$0.271^{+0.045}_{-0.045}$	β_2^3	-0.56	$-0.5^{+2.0}_{-1.9}$	Ω_m	0.3086	$0.308^{+0.032}_{-0.031}$
n_s	0.9672	$0.969^{+0.027}_{-0.025}$	β_3^3	0.41	$0.2^{+2.0}_{-1.9}$	σ_8	0.0692	$0.836^{+0.025}_{-0.024}$
$\log[10^{10} A_s]$	3.099	$3.107^{+0.061}_{-0.054}$	β_4^3	-0.48	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.42	$11.7^{+2.5}_{-2.4}$
A_{100}^{PS}	180	191^{+80}_{-80}	β_5^3	-0.32	$-0.3^{+2.0}_{-1.9}$	H_0	67.87	$68.0^{+2.6}_{-2.5}$
A_{143}^{PS}	80.4	81^{+20}_{-20}	β_1^4	-0.15	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.217	$2.24^{+0.14}_{-0.12}$
A_{217}^{PS}	68.2	68^{+20}_{-20}	β_2^4	-0.05	$-0.3^{+1.9}_{-1.9}$	$\Omega_m h^2$	0.14218	$0.1422^{+0.0043}_{-0.0043}$
A_{143}^{CIB}	2.82	—	β_3^4	-0.04	$-0.1^{+2.0}_{-2.0}$	$\Omega_m h^3$	0.09651	$0.0967^{+0.0019}_{-0.0019}$
A_{217}^{CIB}	46.4	44^{+9}_{-9}	β_4^4	0.07	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.2650	$0.271^{+0.045}_{-0.045}$
A_{143}^{tSZ}	4.26	—	β_5^4	0.095	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8411	$1.842^{+0.027}_{-0.027}$
$r_{PS143/217}$	0.819	> 0.724	$A_{\text{PS,ACT}}^{148}$	10.47	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.774	$13.76^{+0.14}_{-0.14}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.3	$81.0^{+7.8}_{-7.9}$	z_*	1090.81	$1091.0^{+1.5}_{-1.5}$
n^{CIB}	0.506	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.39	$7.40^{+3.2}_{-2.7}$	r_*	144.63	$144.6^{+1.0}_{-1.0}$
$c_{100/143}$	1.00064	$1.00062^{+0.00076}_{-0.00079}$	$A_{\text{PS,SPT}}^{150}$	10.10	$10.2^{+1.0}_{-0.97}$	θ_*	1.04164	$1.0417^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99951	$0.9994^{+0.0020}_{-0.0020}$	$A_{\text{PS,SPT}}^{220}$	76.4	$77.5^{+8.1}_{-8.0}$	z_{drag}	1060.31	$1060.7^{+3.0}_{-2.8}$
$\xi^{tSZ-CIB}$	0.01	—	$r_{\text{PS}}^{95/150}$	0.769	> 0.665	r_{drag}	147.34	$147.3^{+1.1}_{-1.0}$
A^{kSZ}	2.22	—	$r_{\text{PS}}^{95/220}$	0.519	$0.57^{+0.25}_{-0.22}$	k_D	0.13971	$0.1396^{+0.0016}_{-0.0015}$
β_1^1	0.74	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9153	> 0.905	θ_D	0.16195	$0.1622^{+0.0017}_{-0.0017}$
β_2^1	-0.01	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.403	< 0.756	z_{EQ}	3382	3382^{+100}_{-100}
β_3^1	0.08	$0.1^{+2.0}_{-1.9}$	$A_{\text{dust,e}}$	0.850	$0.86^{+0.39}_{-0.39}$	θ_{EQ}	0.8174	$0.818^{+0.021}_{-0.020}$
β_4^1	0.12	$0.0^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9898	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07179	$0.0719^{+0.0018}_{-0.0017}$
β_5^1	-0.23	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	0.9990	$1.003^{+0.027}_{-0.027}$	$H(0.57)$	0.00031094	$0.0003114^{+0.0000046}_{-0.0000043}$
β_1^2	-0.81	$-1.12^{+1.7}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9858	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1383.3	1381^{+35}_{-36}
β_2^2	-0.18	$-0.2^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9581	$0.960^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10528.33$; R-1 = 0.04628

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.39 lensing_likelihood_v3.ref.clik.lensing: 11.38 commander_v3.light.clik: -7.99 CAMspec_v6.2TN_2013_01_18.clik: 7816.22 actspt_2013_01.clik: 694.26

18.15 base_yhe_planck_CAMspec_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02234	$0.02237^{+0.00063}_{-0.00062}$	β_3^2	-0.26	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{SPT}}^{95}$	0.9799	$0.979^{+0.040}_{-0.038}$
$\Omega_c h^2$	0.11858	$0.1186^{+0.0035}_{-0.0034}$	β_4^2	0.48	$0.3^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{150}$	0.9810	$0.983^{+0.021}_{-0.020}$
θ	1.04221	$1.0424^{+0.0018}_{-0.0018}$	β_5^2	-0.24	$-0.4^{+1.9}_{-2.0}$	$\mathbf{c}_{\text{SPT}}^{220}$	1.0131	$1.018^{+0.047}_{-0.044}$
τ	0.0930	$0.095^{+0.028}_{-0.025}$	β_1^3	0.89	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6963	$0.697^{+0.020}_{-0.022}$
Y_P	0.2703	$0.274^{+0.041}_{-0.042}$	β_2^3	-0.37	$-0.5^{+2.0}_{-1.9}$	Ω_m	0.3037	$0.303^{+0.022}_{-0.020}$
n_s	0.9709	$0.972^{+0.021}_{-0.020}$	β_3^3	0.31	$0.2^{+2.0}_{-1.9}$	σ_8	0.8310	$0.833^{+0.029}_{-0.027}$
$\log[10^{10} A_s]$	3.098	$3.102^{+0.058}_{-0.054}$	β_4^3	-0.51	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.42	$11.6^{+2.3}_{-2.3}$
A_{100}^{PS}	182	191^{+80}_{-80}	β_5^3	-0.22	$-0.3^{+2.0}_{-1.9}$	H_0	68.27	$68.3^{+1.7}_{-1.7}$
A_{143}^{PS}	79.5	81^{+20}_{-20}	β_1^4	-0.14	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.215	$2.23^{+0.13}_{-0.12}$
A_{217}^{PS}	68.7	69^{+20}_{-20}	β_2^4	-0.40	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14157	$0.1416^{+0.0034}_{-0.0034}$
A_{143}^{CIB}	2.88	—	β_3^4	-0.06	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09665	$0.0968^{+0.0019}_{-0.0018}$
A_{217}^{CIB}	46.2	44^{+9}_{-9}	β_4^4	0.42	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.2703	$0.274^{+0.041}_{-0.042}$
A_{143}^{tSZ}	4.30	—	β_5^4	0.40	$0.3^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8394	$1.841^{+0.028}_{-0.027}$
$r_{PS143/217}$	0.818	> 0.724	$A_{\text{PS,ACT}}^{148}$	10.33	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.755	$13.75^{+0.11}_{-0.11}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.7	$81.0^{+7.7}_{-7.8}$	z_*	1090.87	$1091.0^{+1.5}_{-1.5}$
n^{CIB}	0.499	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.30	$7.33^{+3.1}_{-2.7}$	r_*	144.73	$144.69^{+0.97}_{-0.95}$
$c_{100/143}$	1.00062	$1.00062^{+0.00076}_{-0.00079}$	$A_{\text{PS,SPT}}^{150}$	9.90	$10.2^{+1.0}_{-0.98}$	θ_*	1.04173	$1.0418^{+0.0011}_{-0.0011}$
$c_{217/143}$	0.99933	$0.9994^{+0.0020}_{-0.0020}$	$A_{\text{PS,SPT}}^{220}$	76.6	$77.4^{+8.2}_{-7.9}$	z_{drag}	1060.62	$1060.8^{+2.7}_{-2.6}$
$\xi^{tSZ-CIB}$	0.02	—	$r_{\text{PS}}^{95/150}$	0.767	> 0.665	r_{drag}	147.42	$147.4^{+1.1}_{-1.0}$
A^{kSZ}	2.83	—	$r_{\text{PS}}^{95/220}$	0.517	$0.57^{+0.25}_{-0.22}$	k_D	0.13947	$0.1394^{+0.0014}_{-0.0014}$
β_1^1	0.70	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9162	> 0.906	θ_D	0.16213	$0.1623^{+0.0016}_{-0.0017}$
β_2^1	-0.02	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.413	< 0.757	z_{EQ}	3367	3369^{+81}_{-80}
β_3^1	0.11	$0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.840	$0.86^{+0.39}_{-0.38}$	θ_{EQ}	0.8205	$0.821^{+0.015}_{-0.015}$
β_4^1	-0.14	$0.0^{+2.0}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{148}$	0.9896	$0.990^{+0.015}_{-0.014}$	$r_s/D_v(0.57)$	0.07206	$0.0721^{+0.0012}_{-0.0012}$
β_5^1	-0.17	$0.0^{+1.9}_{-1.9}$	$\mathbf{c}_{\text{ACTs}}^{217}$	1.0000	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.00031159	$0.0003118^{+0.0000033}_{-0.0000032}$
β_1^2	-1.06	$-1.14^{+1.7}_{-1.8}$	$\mathbf{c}_{\text{ACTe}}^{148}$	0.9853	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1377.9	1377^{+25}_{-24}
β_2^2	-0.22	$-0.3^{+2.0}_{-2.0}$	$\mathbf{c}_{\text{ACTe}}^{217}$	0.9588	$0.960^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.54$; R-1 = 0.04625

χ_{eff}^2 : BAO - DR9: 0.56 DR7: 0.67 6DF: 0.05 CMB - lowlike.v22.light.clik: 2014.34 commander.v3.light.clik: -8.74 CAMspec.v6.2TN_2013.01.18.clik: 7816.46 actspt_2013.01.clik: 696.17

18.16 base_yhe_planck_CAMspec_lowl_lowLike_highL_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02259	$0.02268^{+0.00071}_{-0.00070}$	β_3^2	-0.14	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9790	$0.978^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.11644	$0.1161^{+0.0048}_{-0.0049}$	β_4^2	0.22	$0.2^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9798	$0.982^{+0.021}_{-0.020}$
θ	1.04289	$1.0432^{+0.0020}_{-0.0020}$	β_5^2	-0.41	$-0.4^{+1.9}_{-2.1}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0092	$1.017^{+0.047}_{-0.044}$
τ	0.0942	$0.102^{+0.032}_{-0.029}$	β_1^3	0.85	$0.8^{+1.7}_{-1.7}$	Ω_Λ	0.7107	$0.713^{+0.027}_{-0.030}$
Y_P	0.2803	$0.287^{+0.041}_{-0.043}$	β_2^3	-0.46	$-0.5^{+2.0}_{-2.0}$	Ω_m	0.2893	$0.287^{+0.030}_{-0.027}$
n_s	0.9798	$0.984^{+0.024}_{-0.024}$	β_3^3	0.04	$0.2^{+2.0}_{-1.9}$	σ_8	0.8257	$0.832^{+0.031}_{-0.029}$
$\log[10^{10} A_s]$	3.098	$3.114^{+0.065}_{-0.058}$	β_4^3	-0.44	$-0.4^{+1.9}_{-2.0}$	z_{re}	11.46	$12.1^{+2.6}_{-2.5}$
A_{100}^{PS}	186	193^{+80}_{-80}	β_5^3	-0.30	$-0.4^{+1.9}_{-2.0}$	H_0	69.48	$69.8^{+2.4}_{-2.5}$
A_{143}^{PS}	81.6	82^{+20}_{-20}	β_1^4	-0.10	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.216	$2.25^{+0.15}_{-0.13}$
A_{217}^{PS}	69.8	70^{+20}_{-20}	β_2^4	-0.27	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.13967	$0.1394^{+0.0045}_{-0.0045}$
A_{143}^{CIB}	2.76	—	β_3^4	-0.10	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09704	$0.0973^{+0.0018}_{-0.0018}$
A_{217}^{CIB}	46.2	43^{+9}_{-9}	β_4^4	0.23	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.2803	$0.287^{+0.041}_{-0.043}$
A_{143}^{tSZ}	4.17	—	β_5^4	0.28	$0.2^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8354	$1.837^{+0.029}_{-0.029}$
$r_{PS143/217}$	0.827	> 0.726	$A_{\text{PS,ACT}}^{148}$	10.32	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.700	$13.68^{+0.13}_{-0.13}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	79.9	$80.9^{+7.8}_{-7.8}$	z_*	1090.78	$1091.0^{+1.5}_{-1.5}$
n^{CIB}	0.507	$0.47^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.13	$7.30^{+3.1}_{-2.6}$	r_*	145.06	$145.1^{+1.1}_{-1.1}$
$c_{100/143}$	1.00065	$1.00062^{+0.00076}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	9.87	$10.1^{+1.0}_{-0.94}$	θ_*	1.04212	$1.0422^{+0.0013}_{-0.0012}$
$c_{217/143}$	0.99928	$0.9994^{+0.0020}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.9	$77.3^{+8.3}_{-8.0}$	z_{drag}	1061.38	$1061.8^{+2.7}_{-2.7}$
$\xi^{tSZ-CIB}$	0.03	—	$r_{\text{PS}}^{95/150}$	0.766	> 0.664	r_{drag}	147.68	$147.7^{+1.2}_{-1.2}$
A^{kSZ}	3.29	—	$r_{\text{PS}}^{95/220}$	0.523	$0.57^{+0.25}_{-0.22}$	k_D	0.13897	$0.1388^{+0.0016}_{-0.0015}$
β_1^1	0.75	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9199	> 0.906	θ_D	0.16240	$0.1627^{+0.0016}_{-0.0017}$
β_2^1	-0.20	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.429	< 0.756	z_{EQ}	3322	3316^{+110}_{-110}
β_3^1	0.096	$0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.850	$0.86^{+0.38}_{-0.38}$	θ_{EQ}	0.8301	$0.832^{+0.022}_{-0.021}$
β_4^1	0.04	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9892	$0.989^{+0.015}_{-0.015}$	$r_s/D_v(0.57)$	0.07292	$0.0731^{+0.0018}_{-0.0018}$
β_5^1	0.12	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	0.9979	$1.001^{+0.027}_{-0.026}$	$H(0.57)$	0.00031358	$0.0003142^{+0.0000044}_{-0.0000043}$
β_1^2	-0.93	$-1.11^{+1.7}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9851	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1361.5	1357^{+34}_{-32}
β_2^2	-0.22	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9570	$0.959^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10522.34$; R-1 = 0.06010

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.23 commander.v3.light.clik: -10.00 CAMspec.v6.2TN_2013.01_18.clik: 7817.62 actspt_2013.01.clik: 697.13 Hubble - HST: 3.27

18.17 base_yhe_planck_CAMspec_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02247	$0.02255^{+0.00075}_{-0.00072}$	β_3^2	0.29	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9791	$0.979^{+0.039}_{-0.037}$
$\Omega_c h^2$	0.1175	$0.1169^{+0.0051}_{-0.0049}$	β_4^2	0.20	$0.3^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9789	$0.983^{+0.021}_{-0.020}$
θ	1.04252	$1.0428^{+0.0021}_{-0.0021}$	β_5^2	-0.47	$-0.4^{+1.9}_{-2.1}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0114	$1.017^{+0.047}_{-0.044}$
τ	0.0940	$0.099^{+0.032}_{-0.028}$	β_1^3	0.83	$0.8^{+1.7}_{-1.8}$	Ω_Λ	0.7035	$0.707^{+0.030}_{-0.033}$
Y_P	0.2772	$0.281^{+0.042}_{-0.044}$	β_2^3	-0.56	$-0.6^{+2.0}_{-1.9}$	Ω_m	0.2965	$0.293^{+0.033}_{-0.030}$
n_s	0.9763	$0.979^{+0.025}_{-0.025}$	β_3^3	0.30	$0.2^{+2.0}_{-1.9}$	σ_8	0.8292	$0.832^{+0.031}_{-0.028}$
$\log[10^{10} A_s]$	3.099	$3.109^{+0.065}_{-0.057}$	β_4^3	-0.47	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.49	$11.9^{+2.6}_{-2.4}$
A_{100}^{PS}	181	192^{+80}_{-80}	β_5^3	-0.43	$-0.3^{+2.0}_{-2.0}$	H_0	68.87	$69.3^{+2.7}_{-2.6}$
A_{143}^{PS}	81.3	82^{+20}_{-20}	β_1^4	-0.15	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.218	$2.24^{+0.15}_{-0.13}$
A_{217}^{PS}	68.1	69^{+20}_{-20}	β_2^4	-0.01	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14061	$0.1401^{+0.0047}_{-0.0046}$
A_{143}^{CIB}	2.98	—	β_3^4	-0.20	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09684	$0.0970^{+0.0019}_{-0.0019}$
A_{217}^{CIB}	47.7	44^{+9}_{-9}	β_4^4	-0.08	$0.2^{+1.9}_{-1.9}$	Y_{He}	0.2772	$0.281^{+0.042}_{-0.044}$
A_{143}^{tSZ}	4.70	—	β_5^4	0.34	$0.2^{+2.0}_{-1.9}$	$10^9 A_s e^{-2\tau}$	1.8381	$1.837^{+0.029}_{-0.029}$
$r_{PS143/217}$	0.839	> 0.724	$A_{\text{PS,ACT}}^{148}$	10.22	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.728	$13.71^{+0.14}_{-0.14}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	79.6	$81.0^{+7.7}_{-7.8}$	z_*	1090.90	$1090.9^{+1.5}_{-1.5}$
n^{CIB}	0.520	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.07	$7.32^{+3.1}_{-2.6}$	r_*	144.89	$145.0^{+1.2}_{-1.1}$
$c_{100/143}$	1.00065	$1.00062^{+0.00076}_{-0.00077}$	$A_{\text{PS,SPT}}^{150}$	9.78	$10.1^{+1.0}_{-0.96}$	θ_*	1.04185	$1.0420^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99936	$0.9994^{+0.0020}_{-0.0021}$	$A_{\text{PS,SPT}}^{220}$	75.4	$77.4^{+8.2}_{-8.0}$	z_{drag}	1061.08	$1061.4^{+2.9}_{-2.8}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.775	> 0.664	r_{drag}	147.54	$147.6^{+1.2}_{-1.2}$
A^{kSZ}	2.31	—	$r_{\text{PS}}^{95/220}$	0.529	$0.57^{+0.25}_{-0.22}$	k_D	0.13915	$0.1390^{+0.0016}_{-0.0016}$
β_1^1	0.80	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9172	> 0.906	θ_D	0.16234	$0.1625^{+0.0017}_{-0.0017}$
β_2^1	-0.14	$-0.1^{+1.8}_{-1.9}$	$A_{\text{dust,s}}$	0.436	< 0.757	z_{EQ}	3344	3333^{+110}_{-110}
β_3^1	0.17	$0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.852	$0.86^{+0.39}_{-0.38}$	θ_{EQ}	0.8253	$0.828^{+0.022}_{-0.022}$
β_4^1	0.04	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9890	$0.990^{+0.015}_{-0.015}$	$r_s/D_v(0.57)$	0.07249	$0.0728^{+0.0019}_{-0.0019}$
β_5^1	-0.37	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	0.9992	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.00031257	$0.0003133^{+0.0000047}_{-0.0000045}$
β_1^2	-0.85	$-1.13^{+1.7}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9845	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1369.7	1365^{+36}_{-36}
β_2^2	-0.38	$-0.3^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9576	$0.960^{+0.021}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10947.13$; R-1 = 0.05019

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.30 commander.v3.light.clik: -9.56 CAMspec.v6.2TN_2013_01_18.clik: 7817.48 actspt_2013_01.clik: 696.56 SN - SNLS April.2012: 428.25

18.18 base_yhe_planck_CAMspec_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02228	$0.02242^{+0.00076}_{-0.00073}$	β_3^2	-0.04	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{SPT}}^{95}$	0.9817	$0.979^{+0.039}_{-0.038}$
$\Omega_c h^2$	0.1188	$0.1182^{+0.0053}_{-0.0051}$	β_4^2	0.31	$0.3^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{150}$	0.9806	$0.983^{+0.021}_{-0.020}$
θ	1.04206	$1.0425^{+0.0021}_{-0.0021}$	β_5^2	-0.35	$-0.4^{+1.9}_{-2.0}$	$\mathcal{C}_{\text{SPT}}^{220}$	1.0105	$1.018^{+0.047}_{-0.044}$
τ	0.0929	$0.096^{+0.031}_{-0.027}$	β_1^3	0.90	$0.8^{+1.8}_{-1.8}$	Ω_Λ	0.6941	$0.699^{+0.031}_{-0.035}$
Y_P	0.2665	$0.276^{+0.043}_{-0.044}$	β_2^3	-0.51	$-0.5^{+2.0}_{-1.9}$	Ω_m	0.3059	$0.301^{+0.035}_{-0.031}$
n_s	0.9686	$0.974^{+0.026}_{-0.025}$	β_3^3	0.25	$0.2^{+2.0}_{-1.9}$	σ_8	0.8312	$0.833^{+0.030}_{-0.028}$
$\log[10^{10} A_s]$	3.098	$3.104^{+0.063}_{-0.056}$	β_4^3	-0.51	$-0.4^{+1.9}_{-1.9}$	z_{re}	11.42	$11.7^{+2.6}_{-2.4}$
A_{100}^{PS}	178	192^{+80}_{-80}	β_5^3	-0.41	$-0.3^{+2.0}_{-1.9}$	H_0	68.08	$68.6^{+2.7}_{-2.7}$
A_{143}^{PS}	79.7	81^{+20}_{-20}	β_1^4	-0.05	$-0.3^{+1.9}_{-1.9}$	$10^9 A_s$	2.214	$2.23^{+0.14}_{-0.12}$
A_{217}^{PS}	68.3	69^{+20}_{-20}	β_2^4	-0.27	$-0.3^{+2.0}_{-1.9}$	$\Omega_m h^2$	0.14178	$0.1412^{+0.0049}_{-0.0047}$
A_{143}^{CIB}	2.92	—	β_3^4	-0.12	$-0.1^{+1.9}_{-2.0}$	$\Omega_m h^3$	0.09652	$0.0968^{+0.0019}_{-0.0019}$
A_{217}^{CIB}	46.8	44^{+9}_{-9}	β_4^4	0.16	$0.2^{+1.9}_{-2.0}$	Y_{He}	0.2665	$0.276^{+0.043}_{-0.044}$
A_{143}^{tSZ}	4.61	—	β_5^4	0.37	$0.2^{+2.0}_{-2.0}$	$10^9 A_s e^{-2\tau}$	1.8389	$1.840^{+0.029}_{-0.029}$
$r_{PS143/217}$	0.824	> 0.725	$A_{\text{PS,ACT}}^{148}$	10.34	$10.6^{+1.2}_{-1.1}$	Age/Gyr	13.767	$13.74^{+0.14}_{-0.14}$
r_{CIB}	1.000	—	$A_{\text{PS,ACT}}^{218}$	80.2	$80.9^{+7.8}_{-7.8}$	z_*	1090.81	$1091.0^{+1.5}_{-1.5}$
n^{CIB}	0.510	$0.48^{+0.14}_{-0.15}$	$A_{\text{PS,SPT}}^{95}$	7.10	$7.33^{+3.1}_{-2.6}$	r_*	144.72	$144.8^{+1.2}_{-1.1}$
$c_{100/143}$	1.00060	$1.00062^{+0.00076}_{-0.00078}$	$A_{\text{PS,SPT}}^{150}$	9.90	$10.2^{+1.0}_{-0.97}$	θ_*	1.04171	$1.0418^{+0.0013}_{-0.0013}$
$c_{217/143}$	0.99927	$0.9994^{+0.0020}_{-0.0020}$	$A_{\text{PS,SPT}}^{220}$	75.9	$77.4^{+8.2}_{-8.0}$	z_{drag}	1060.35	$1061.0^{+2.9}_{-2.8}$
$\xi^{tSZ-CIB}$	0.00	—	$r_{\text{PS}}^{95/150}$	0.775	> 0.665	r_{drag}	147.43	$147.4^{+1.2}_{-1.2}$
A^{kSZ}	2.32	—	$r_{\text{PS}}^{95/220}$	0.528	$0.57^{+0.25}_{-0.22}$	k_D	0.13958	$0.1392^{+0.0016}_{-0.0016}$
β_1^1	0.69	$0.6^{+1.6}_{-1.6}$	$r_{\text{PS}}^{150/220}$	0.9165	> 0.906	θ_D	0.16202	$0.1624^{+0.0017}_{-0.0017}$
β_2^1	-0.08	$-0.1^{+1.9}_{-1.9}$	$A_{\text{dust,s}}$	0.441	< 0.757	z_{EQ}	3372	3359^{+120}_{-110}
β_3^1	0.12	$0.1^{+1.9}_{-1.9}$	$A_{\text{dust,e}}$	0.853	$0.86^{+0.39}_{-0.38}$	θ_{EQ}	0.8193	$0.823^{+0.023}_{-0.023}$
β_4^1	-0.01	$0.0^{+2.0}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{148}$	0.9898	$0.990^{+0.015}_{-0.015}$	$r_s/D_v(0.57)$	0.07195	$0.0723^{+0.0019}_{-0.0019}$
β_5^1	-0.05	$0.0^{+1.9}_{-1.9}$	$\mathcal{C}_{\text{ACTs}}^{217}$	1.0000	$1.002^{+0.027}_{-0.026}$	$H(0.57)$	0.00031123	$0.0003122^{+0.0000048}_{-0.0000045}$
β_1^2	-0.90	$-1.13^{+1.7}_{-1.8}$	$\mathcal{C}_{\text{ACTe}}^{148}$	0.9859	$0.986^{+0.015}_{-0.014}$	$DA(0.57)$	1380.6	1374^{+37}_{-37}
β_2^2	-0.32	$-0.3^{+2.0}_{-2.0}$	$\mathcal{C}_{\text{ACTe}}^{217}$	0.9577	$0.960^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10648.51$; R-1 = 0.04574

χ_{eff}^2 : CMB - lowlike.v22.light.clik: 2014.36 commander.v3.light.clik: -8.34 CAMspec.v6.2TN_2013_01_18.clik: 7816.15 actspt_2013_01.clik: 695.93 SN - Union2.1: 130.30

18.19 base_yhe_WMAP

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02247	$0.0226^{+0.0010}_{-0.00096}$	z_{re}	10.85	$10.8^{+2.7}_{-2.4}$	z_{drag}	1059.9	$1060.8^{+8.4}_{-5.3}$
$\Omega_c h^2$	0.1157	$0.114^{+0.012}_{-0.011}$	H_0	68.53	$69.6^{+4.4}_{-4.2}$	r_{drag}	148.13	$148.3^{+3.1}_{-3.6}$
θ	1.0395	$1.0407^{+0.0085}_{-0.0067}$	$10^9 A_s$	2.221	$2.21^{+0.19}_{-0.16}$	k_D	0.1399	$0.1392^{+0.0051}_{-0.0063}$
τ	0.0897	$0.089^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1388	$0.138^{+0.012}_{-0.010}$	θ_D	0.1605	$0.161^{+0.011}_{-0.0065}$
Y_P	0.245	$0.25^{+0.19}_{-0.14}$	$\Omega_m h^3$	0.0951	$0.0957^{+0.0060}_{-0.0047}$	z_{EQ}	3301	3271^{+290}_{-250}
n_s	0.9697	$0.975^{+0.030}_{-0.028}$	Y_{He}	0.245	$0.25^{+0.19}_{-0.14}$	θ_{EQ}	0.8311	$0.839^{+0.049}_{-0.050}$
$\log[10^{10} A_s]$	3.101	$3.096^{+0.082}_{-0.072}$	$10^9 A_s e^{-2\tau}$	1.856	$1.85^{+0.13}_{-0.097}$	$r_s/D_v(0.57)$	0.07238	$0.0732^{+0.0036}_{-0.0034}$
A_{SZ}	0.20	—	Age/Gyr	13.808	$13.75^{+0.25}_{-0.26}$	$H(0.57)$	0.0003108	$0.0003130^{+0.0000078}_{-0.0000073}$
Ω_Λ	0.705	$0.715^{+0.050}_{-0.059}$	z_*	1089.4	$1090^{+11}_{-6.2}$	$DA(0.57)$	1377	1362^{+56}_{-57}
Ω_m	0.295	$0.285^{+0.059}_{-0.050}$	r_*	145.48	$145.7^{+3.0}_{-3.6}$			
σ_8	0.818	$0.813^{+0.082}_{-0.065}$	θ_*	1.03974	$1.0404^{+0.0045}_{-0.0045}$			

Best-fit $\chi_{\text{eff}}^2 = 7558.07$; R-1 = 0.00639

χ_{eff}^2 : CMB - WMAP: 7558.07

18.20 base_yhe_WMAP_post_BAO

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02248	$0.02249^{+0.00083}_{-0.00086}$	z_{re}	10.71	$10.7^{+2.8}_{-2.4}$	z_{drag}	1060.5	$1060.9^{+8.4}_{-5.6}$
$\Omega_c h^2$	0.1165	$0.1167^{+0.0077}_{-0.0063}$	H_0	68.43	$68.5^{+2.0}_{-1.9}$	r_{drag}	147.84	$147.8^{+2.5}_{-2.8}$
θ	1.0401	$1.0404^{+0.0089}_{-0.0070}$	$10^9 A_s$	2.221	$2.22^{+0.18}_{-0.15}$	k_D	0.1395	$0.1393^{+0.0052}_{-0.0065}$
τ	0.0865	$0.086^{+0.027}_{-0.025}$	$\Omega_m h^2$	0.1396	$0.1398^{+0.0078}_{-0.0065}$	θ_D	0.1613	$0.162^{+0.010}_{-0.0068}$
Y_P	0.263	$0.26^{+0.18}_{-0.15}$	$\Omega_m h^3$	0.0956	$0.0958^{+0.0060}_{-0.0048}$	z_{EQ}	3321	3325^{+190}_{-160}
n_s	0.9715	$0.971^{+0.030}_{-0.026}$	Y_{He}	0.263	$0.26^{+0.18}_{-0.15}$	θ_{EQ}	0.8277	$0.828^{+0.026}_{-0.027}$
$\log[10^{10} A_s]$	3.100	$3.100^{+0.080}_{-0.069}$	$10^9 A_s e^{-2\tau}$	1.868	$1.87^{+0.11}_{-0.084}$	$r_s/D_v(0.57)$	0.07224	$0.0723^{+0.0014}_{-0.0014}$
A_{SZ}	0.08	—	Age/Gyr	13.793	$13.78^{+0.23}_{-0.27}$	$H(0.57)$	0.0003110	$0.0003113^{+0.0000061}_{-0.0000054}$
Ω_Λ	0.7018	$0.702^{+0.023}_{-0.025}$	z_*	1090.2	$1091^{+10}_{-6.1}$	$DA(0.57)$	1377.5	1376^{+30}_{-30}
Ω_m	0.2982	$0.298^{+0.025}_{-0.023}$	r_*	145.19	$145.1^{+2.3}_{-2.8}$			
σ_8	0.822	$0.823^{+0.070}_{-0.053}$	θ_*	1.03987	$1.0399^{+0.0044}_{-0.0044}$			

Best-fit $\chi_{\text{eff}}^2 = 7559.27$; R-1 = 0.01075

χ_{eff}^2 : BAO - 6DF: 0.06 DR7: 0.39 DR9: 0.80 CMB - WMAP: 7558.01

18.21 base_yhe_WMAP_post_HST

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02296	$0.02292^{+0.00094}_{-0.00093}$	z_{re}	11.05	$10.9^{+2.8}_{-2.4}$	z_{drag}	1059.7	$1060.8^{+8.0}_{-4.9}$
$\Omega_c h^2$	0.1099	$0.110^{+0.010}_{-0.0086}$	H_0	71.41	$71.5^{+3.4}_{-3.2}$	r_{drag}	149.26	$149.1^{+2.8}_{-3.3}$
θ	1.0404	$1.0414^{+0.0083}_{-0.0063}$	$10^9 A_s$	2.216	$2.21^{+0.19}_{-0.16}$	k_D	0.1401	$0.1390^{+0.0048}_{-0.0063}$
τ	0.0979	$0.093^{+0.029}_{-0.027}$	$\Omega_m h^2$	0.1335	$0.134^{+0.010}_{-0.0086}$	θ_D	0.1591	$0.161^{+0.010}_{-0.0060}$
Y_P	0.218	$0.24^{+0.18}_{-0.14}$	$\Omega_m h^3$	0.0953	$0.0959^{+0.0058}_{-0.0045}$	z_{EQ}	3174	3188^{+240}_{-200}
n_s	0.9815	$0.982^{+0.028}_{-0.026}$	Y_{He}	0.218	$0.24^{+0.18}_{-0.14}$	θ_{EQ}	0.8581	$0.857^{+0.041}_{-0.043}$
$\log[10^{10} A_s]$	3.098	$3.093^{+0.082}_{-0.073}$	$10^9 A_s e^{-2\tau}$	1.822	$1.83^{+0.12}_{-0.089}$	$r_s/D_v(0.57)$	0.07465	$0.0747^{+0.0028}_{-0.0027}$
A_{sz}	0.08	—	Age/Gyr	13.703	$13.68^{+0.22}_{-0.24}$	$H(0.57)$	0.0003153	$0.0003159^{+0.0000065}_{-0.0000062}$
Ω_Λ	0.7383	$0.737^{+0.036}_{-0.041}$	z_*	1087.3	$1088.8^{+9.9}_{-5.5}$	$DA(0.57)$	1339.4	1337^{+43}_{-43}
Ω_m	0.2617	$0.263^{+0.041}_{-0.036}$	r_*	146.76	$146.5^{+2.7}_{-3.3}$			
σ_8	0.797	$0.798^{+0.078}_{-0.061}$	θ_*	1.04120	$1.0413^{+0.0042}_{-0.0042}$			

Best-fit $\chi^2_{\text{eff}} = 7559.87$; R-1 = 0.00672

χ^2_{eff} : CMB - WMAP: 7558.81 Hubble - HST: 1.06

18.22 base_yhe_WMAP_post_SNLS

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02282	$0.02280^{+0.00099}_{-0.00096}$	z_{re}	10.92	$10.7^{+2.7}_{-2.4}$	z_{drag}	1059.8	$1060.2^{+7.5}_{-4.7}$
$\Omega_c h^2$	0.1114	$0.1109^{+0.0099}_{-0.0088}$	H_0	70.67	$71.0^{+3.9}_{-3.6}$	r_{drag}	148.95	$149.1^{+2.7}_{-3.1}$
θ	1.0403	$1.0405^{+0.0079}_{-0.0063}$	$10^9 A_s$	2.213	$2.20^{+0.18}_{-0.15}$	k_D	0.1399	$0.1393^{+0.0047}_{-0.0062}$
τ	0.0943	$0.092^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1349	$0.1343^{+0.0098}_{-0.0086}$	θ_D	0.1597	$0.1603^{+0.0096}_{-0.0056}$
Y_P	0.229	$0.23^{+0.18}_{-0.13}$	$\Omega_m h^3$	0.09532	$0.0953^{+0.0054}_{-0.0044}$	z_{EQ}	3208	3195^{+230}_{-210}
n_s	0.9788	$0.978^{+0.029}_{-0.027}$	Y_{He}	0.229	$0.23^{+0.18}_{-0.13}$	θ_{EQ}	0.8508	$0.854^{+0.043}_{-0.042}$
$\log[10^{10} A_s]$	3.097	$3.089^{+0.080}_{-0.070}$	$10^9 A_s e^{-2\tau}$	1.833	$1.83^{+0.11}_{-0.084}$	$r_s/D_v(0.57)$	0.07405	$0.0743^{+0.0032}_{-0.0029}$
A_{sz}	0.01	—	Age/Gyr	13.728	$13.72^{+0.24}_{-0.25}$	$H(0.57)$	0.0003141	$0.0003147^{+0.0000075}_{-0.0000070}$
Ω_Λ	0.7299	$0.732^{+0.041}_{-0.044}$	z_*	1088.0	$1088.6^{+9.3}_{-5.2}$	$DA(0.57)$	1348.9	1345^{+49}_{-50}
Ω_m	0.2701	$0.268^{+0.044}_{-0.041}$	r_*	146.40	$146.5^{+2.6}_{-3.1}$			
σ_8	0.802	$0.797^{+0.073}_{-0.059}$	θ_*	1.04087	$1.0407^{+0.0044}_{-0.0044}$			

Best-fit $\chi^2_{\text{eff}} = 7984.74$; R-1 = 0.00546

χ^2_{eff} : CMB - WMAP: 7558.22 SN - SNLS April_2012: 426.52

18.23 base_yhe_WMAP_post_Union2

Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits	Parameter	Best fit	95.0% limits
$\Omega_b h^2$	0.02262	$0.02266^{+0.00097}_{-0.00094}$	z_{re}	10.77	$10.7^{+2.8}_{-2.4}$	z_{drag}	1060.3	$1060.6^{+8.1}_{-5.2}$
$\Omega_c h^2$	0.1142	$0.114^{+0.011}_{-0.0093}$	H_0	69.48	$69.8^{+3.9}_{-3.7}$	r_{drag}	148.35	$148.4^{+2.8}_{-3.3}$
θ	1.0404	$1.0406^{+0.0084}_{-0.0067}$	$10^9 A_s$	2.214	$2.21^{+0.19}_{-0.15}$	k_D	0.1395	$0.1392^{+0.0050}_{-0.0063}$
τ	0.0892	$0.089^{+0.028}_{-0.026}$	$\Omega_m h^2$	0.1375	$0.137^{+0.011}_{-0.0092}$	θ_D	0.1608	$0.161^{+0.010}_{-0.0063}$
Y_P	0.252	$0.25^{+0.18}_{-0.14}$	$\Omega_m h^3$	0.0955	$0.0956^{+0.0059}_{-0.0046}$	z_{EQ}	3269	3258^{+250}_{-220}
n_s	0.9749	$0.975^{+0.030}_{-0.028}$	Y_{He}	0.252	$0.25^{+0.18}_{-0.14}$	θ_{EQ}	0.8382	$0.841^{+0.043}_{-0.043}$
$\log[10^{10} A_s]$	3.098	$3.095^{+0.081}_{-0.070}$	$10^9 A_s e^{-2\tau}$	1.853	$1.85^{+0.12}_{-0.090}$	$r_s/D_v(0.57)$	0.07308	$0.0734^{+0.0031}_{-0.0029}$
A_{SZ}	0.097	—	Age/Gyr	13.761	$13.75^{+0.25}_{-0.26}$	$H(0.57)$	0.0003125	$0.0003132^{+0.0000074}_{-0.0000069}$
Ω_Λ	0.7153	$0.718^{+0.044}_{-0.049}$	z_*	1089.3	$1090^{+10}_{-5.8}$	$DA(0.57)$	1364	1359^{+50}_{-51}
Ω_m	0.2847	$0.282^{+0.049}_{-0.044}$	r_*	145.74	$145.8^{+2.8}_{-3.3}$			
σ_8	0.813	$0.810^{+0.078}_{-0.061}$	θ_*	1.04040	$1.0404^{+0.0044}_{-0.0045}$			

Best-fit $\chi_{\text{eff}}^2 = 7687.75$; R-1 = 0.00654

χ_{eff}^2 : CMB - WMAP: 7557.83 SN - Union2.1: 129.92