WMAP Cosmological Parameters

Model: lcdm

Data: wmap9

$10^9 \Delta^2_{\mathcal{R}}$	2.41 ± 0.10	H_0	70.0 ± 2.2 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5746 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14194 ± 117 Mpc
$d_A(z_*)$	14029 ± 119 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.28 ± 0.31
η	$(6.19 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	0.00996 ± 0.00032
$\ell_{\rm eq}$	139.7 ± 3.5	ℓ_*	302.35 ± 0.65
n_b	$(2.542 \pm 0.056) \times 10^{-7}$ cm^{-3}	n_s	0.972 ± 0.013
Ω_b	0.0463 ± 0.0024	$\Omega_b h^2$	0.02264 ± 0.00050
Ω_c	0.233 ± 0.023	$\Omega_c h^2$	0.1138 ± 0.0045
Ω_Λ	0.721 ± 0.025	Ω_m	0.279 ± 0.025
$\Omega_m h^2$	0.1364 ± 0.0044	$r_s(z_d)$	152.3 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.346 ± 0.012	$r_s(z_d)/D_v(z=0.2)$	0.1889 ± 0.0060
$r_s(z_d)/D_v(z=0.35)$	0.1135 ± 0.0032	$r_s(z_d)/D_v(z=0.44)$	0.0932 ± 0.0024
$r_s(z_d)/D_v(z=0.54)$	0.0787 ± 0.0019	$r_s(z_d)/D_v(z=0.57)$	$0.0753^{+0.0017}_{-0.0018}$
$r_s(z_d)/D_v(z=0.6)$	0.0724 ± 0.0016	$r_s(z_d)/D_v(z=0.73)$	0.0624 ± 0.0013
$r_s(z_*)$	145.8 ± 1.2	R	1.728 ± 0.016
σ_8	0.821 ± 0.023	$\sigma_8 \Omega_m^{0.5}$	0.434 ± 0.029
$\sigma_8 \Omega_m^{0.6}$	0.382 ± 0.029	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.74 ± 0.11 Gyr	τ	0.089 ± 0.014
θ_*	0.010391 ± 0.000022	θ_*	$0.5953 \pm 0.0013\ ^\circ$
$\tau_{\rm rec}$	283.9 ± 2.4	$t_{\rm reion}$	453^{+63}_{-64} Myr
t_*	376371^{+4115}_{-4111} yr	z_d	1020.7 ± 1.1
$z_{\rm eq}$	3265^{+105}_{-105}	$z_{\rm rec}$	1088.16 ± 0.79
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1090.97^{+0.85}_{-0.86}$

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.350 ± 0.088	H_0	71.7 ± 1.6 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5759 \pm 33\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14242^{+110}_{-111} Mpc
$d_A(z_*)$	14078^{+111}_{-112} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.04 ± 0.23
η	$(6.25 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00975 ± 0.00026
$\ell_{\rm eq}$	137.2 ± 2.7	ℓ_*	302.07 ± 0.61
$n_{\hat{\mathbf{0}}}$	$(2.570 \pm 0.052) \times 10^{-7}$ cm^{-3}	n_s	0.980 ± 0.011
Ω_b	0.0445 ± 0.0017	$\Omega_b h^2$	0.02289 ± 0.00046
Ω_c	0.216 ± 0.016	$\Omega_c h^2$	0.1107 ± 0.0036
Ω_Λ	0.740 ± 0.018	Ω_m	0.260 ± 0.018
$\Omega_m h^2$	0.1335 ± 0.0036	$r_s(z_d)$	152.9 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3552 ± 0.0090	$r_s(z_d)/D_v(z=0.2)$	0.1936 ± 0.0046
$r_s(z_d)/D_v(z=0.35)$	$0.1160^{+0.0024}_{-0.0025}$	$r_s(z_d)/D_v(z=0.44)$	0.0951 ± 0.0019
$r_s(z_d)/D_v(z=0.54)$	0.0801 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0767 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0736 ± 0.0013	$r_s(z_d)/D_v(z=0.73)$	0.06334 ± 0.00098
$r_s(z_*)$	146.4 ± 1.0	R	1.716 ± 0.012
σ_8	0.811 ± 0.022	$\sigma_8 \Omega_m^{0.5}$	0.413 ± 0.023
$\sigma_8 \Omega_m^{0.6}$	0.361 ± 0.022	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.673 ± 0.096 Gyr	τ	0.092 ± 0.014
θ_*	0.010400 ± 0.000021	θ_*	0.5959 ± 0.0012 °
$\tau_{\rm rec}$	285.5 ± 2.0	$t_{\rm reion}$	448 ± 63 Myr
t_*	379196^{+3344}_{-3354} yr	z_d	1021.0 ± 1.1
$z_{\rm eq}$	3197 ± 86	$z_{\rm rec}$	$1087.70^{+0.68}_{-0.69}$
$z_{\rm reion}$	10.8 ± 1.1	z_*	1090.37 ± 0.68

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.455 ± 0.080	H_0	68.65 ± 0.93 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5738 \pm 33\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14146 ± 93 Mpc
$d_A(z_*)$	13979 ± 94 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.48 ± 0.13
η	$(6.15 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01014 ± 0.00018
$\ell_{\rm eq}$	141.8 ± 1.7	ℓ_*	302.53 ± 0.60
n_{δ}	$(2.524 \pm 0.049) \times 10^{-7}$ cm^{-3}	n_s	0.967 ± 0.010
Ω_b	0.0477 ± 0.0011	$\Omega_b h^2$	0.02248 ± 0.00044
Ω_c	0.247 ± 0.010	$\Omega_c h^2$	0.1165 ± 0.0024
Ω_Λ	0.705 ± 0.011	Ω_m	0.295 ± 0.011
$\Omega_m h^2$	0.1389 ± 0.0025	$r_s(z_d)$	151.67 ± 0.93 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3385 ± 0.0047	$r_s(z_d)/D_v(z=0.2)$	0.1851 ± 0.0024
$r_s(z_d)/D_v(z=0.35)$	0.1114 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	$0.09160^{+0.00096}_{-0.00095}$
$r_s(z_d)/D_v(z=0.54)$	0.07745 ± 0.00074	$r_s(z_d)/D_v(z=0.57)$	0.07420 ± 0.00069
$r_s(z_d)/D_v(z=0.6)$	0.07129 ± 0.00065	$r_s(z_d)/D_v(z=0.73)$	0.06152 ± 0.00050
$r_s(z_*)$	$145.17^{+0.76}_{-0.77}$	R	1.7380 ± 0.0065
σ_8	0.830 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.451 ± 0.015
$\sigma_8\Omega_m^{0.6}$	0.399 ± 0.015	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.794 ± 0.088 Gyr	τ	0.086 ± 0.013
θ_*	0.010384 ± 0.000020	θ_*	0.5950 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	282.5 ± 1.3	$t_{\rm reion}$	456^{+64}_{-65} Myr
t_*	373910^{+2121}_{-2124} yr	z_d	1020.6 ± 1.1
$z_{\rm eq}$	3326 ± 60	$z_{\rm rec}$	1088.50 ± 0.63
$z_{\rm reion}$	10.5 ± 1.1	z_*	1091.41 ± 0.57

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+bao+h0

$10^9 \Delta^2_{\mathcal{R}}$	$2.427^{+0.078}_{-0.079}$	H_0	69.33 ± 0.88 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5746 ± 33 μK^2	$d_A(z_{\rm eq})$	14143 ± 93 Mpc
$d_A(z_*)$	13977 ± 94 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.39 ± 0.12
η	$(6.20 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01010 ± 0.00018
$\ell_{\rm eq}$	141.1 ± 1.7	ℓ_*	302.33 ± 0.59
n_b	$(2.545 \pm 0.048) \times 10^{-7}$ cm^{-3}	n_s	0.971 ± 0.010
Ω_b	0.0472 ± 0.0010	$\Omega_b h^2$	0.02266 ± 0.00043
Ω_c	$0.2408^{+0.0093}_{-0.0092}$	$\Omega_c h^2$	0.1157 ± 0.0023
Ω_Λ	0.712 ± 0.010	Ω_m	0.288 ± 0.010
$\Omega_m h^2$	0.1383 ± 0.0025	$r_s(z_d)$	151.68 ± 0.92 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3416 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	$0.1866^{+0.0022}_{-0.0023}$
$r_s(z_d)/D_v(z=0.35)$	0.1123 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09224 ± 0.00091
$r_s(z_d)/D_v(z=0.54)$	$0.07795^{+0.00070}_{-0.00071}$	$r_s(z_d)/D_v(z=0.57)$	0.07467 ± 0.00066
$r_s(z_d)/D_v(z=0.6)$	0.07173 ± 0.00062	$r_s(z_d)/D_v(z=0.73)$	0.06186 ± 0.00048
$r_s(z_*)$	145.24 ± 0.76	R	1.7338 ± 0.0061
σ_8	0.830 ± 0.018	$\sigma_8 \Omega_m^{0.5}$	0.445 ± 0.015
$\sigma_8 \Omega_m^{0.6}$	0.393 ± 0.014	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.750 ± 0.085 Gyr	τ	0.088 ± 0.013
θ_*	0.010391 ± 0.000020	θ_*	0.5954 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	282.9 ± 1.3	$t_{\rm reion}$	452^{+63}_{-64} Myr
t_*	374612^{+2092}_{-2088} yr	z_d	1020.9 ± 1.1
$z_{\rm eq}$	3311 ± 59	$z_{\rm rec}$	$1088.26^{+0.61}_{-0.62}$
$z_{\rm reion}$	10.5 ± 1.1	z_*	$1091.09^{+0.55}_{-0.54}$

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	2.430 ± 0.084	H_0	70.5 ± 1.6 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.8^{+2.3}_{-2.4}$
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5747 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14234 ± 87 Mpc	$d_A(z_*)$	14069 ± 88 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.17 ± 0.24	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00985 ± 0.00025	$\ell_{\rm eq}$	138.6 ± 2.7
ℓ_*	302.04 ± 0.42	$n_{\rm b}$	$(2.504 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	0.9646 ± 0.0098	$\Omega_{\rm b}$	0.0449 ± 0.0018
$\Omega_{\rm b}h^2$	0.02229 ± 0.00037	$\Omega_{\rm c}$	0.227 ± 0.017
$\Omega_{\rm c}h^2$	0.1126 ± 0.0035	Ω_Λ	0.728 ± 0.019
Ω_m	0.272 ± 0.019	$\Omega_m h^2$	0.1349 ± 0.0034
$r_s(z_d)$	152.99 ± 0.97 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3498 ± 0.0091
$r_s(z_d)/D_v(z=0.2)$	0.1908 ± 0.0046	$r_s(z_d)/D_v(z=0.35)$	0.1145 ± 0.0025
$r_s(z_d)/D_v(z=0.44)$	0.0940 ± 0.0019	$r_s(z_d)/D_v(z=0.54)$	0.0793 ± 0.0015
$r_s(z_d)/D_v(z=0.57)$	0.0759 ± 0.0014	$r_s(z_d)/D_v(z=0.6)$	0.0729 ± 0.0013
$r_s(z_d)/D_v(z=0.73)$	0.06280 ± 0.00098	$r_s(z_*)$	146.33 ± 0.89
R	1.724 ± 0.012	σ_8	0.810 ± 0.017
$\sigma_8\Omega_m^{0.5}$	0.422 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.371 ± 0.021
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.742 ± 0.077 Gyr
τ	0.084 ± 0.013	θ_*	0.010401 ± 0.000014
θ_*	0.59594 ± 0.00083 °	$\tau_{\rm rec}$	284.6 ± 1.8
$t_{\rm reion}$	474^{+65}_{-66} Myr	t_*	377419^{+3208}_{-3197} yr
$z_{\rm d}$	1019.81 ± 0.82	$z_{\rm eq}$	3230 ± 81
$z_{\rm rec}$	1088.43 ± 0.68	$z_{\rm reion}$	10.3 ± 1.1
z_*	1091.32 ± 0.66		

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.396^{+0.079}_{-0.078}$	H_0	71.6 ± 1.4 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.8^{+2.3}_{-2.4}$
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5755 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14270^{+81}_{-82} Mpc	$d_A(z_*)$	14105^{+82}_{-83} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.02 ± 0.20	η	$(6.135 \pm 0.096) \times 10^{-10}$
$k_{\rm eq}$	0.00971 ± 0.00021	$\ell_{\rm eq}$	136.9 ± 2.3
ℓ_*	301.91 ± 0.40	n_b	$(2.520 \pm 0.040) \times 10^{-7}$ cm^{-3}
n_s	$0.9690^{+0.0091}_{-0.0090}$	Ω_b	0.0438 ± 0.0015
$\Omega_b h^2$	0.02244 ± 0.00035	Ω_c	0.216 ± 0.014
$\Omega_c h^2$	0.1106 ± 0.0030	Ω_Λ	0.740 ± 0.015
Ω_m	0.260 ± 0.015	$\Omega_m h^2$	0.1330 ± 0.0029
$r_s(z_d)$	153.41 ± 0.90 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3557^{+0.0077}_{-0.0078}$
$r_s(z_d)/D_v(z=0.2)$	$0.1938^{+0.0039}_{-0.0040}$	$r_s(z_d)/D_v(z=0.35)$	0.1161 ± 0.0021
$r_s(z_d)/D_v(z=0.44)$	0.0952 ± 0.0016	$r_s(z_d)/D_v(z=0.54)$	$0.0802^{+0.0012}_{-0.0013}$
$r_s(z_d)/D_v(z=0.57)$	0.0768 ± 0.0012	$r_s(z_d)/D_v(z=0.6)$	0.0737 ± 0.0011
$r_s(z_d)/D_v(z=0.73)$	$0.06342^{+0.00084}_{-0.00085}$	$r_s(z_*)$	146.78 ± 0.81
R	1.716 ± 0.010	σ_8	0.803 ± 0.016
$\sigma_8\Omega_m^{0.5}$	0.410 ± 0.018	$\sigma_8\Omega_m^{0.6}$	0.358 ± 0.018
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.702 ± 0.069 Gyr
τ	0.087 ± 0.013	θ_*	0.010406 ± 0.000014
θ_*	$0.59621^{+0.00078}_{-0.00079}{}^\circ$	$\tau_{\rm rec}$	285.7 ± 1.6
$t_{\rm reion}$	466 ± 64 Myr	t_*	379301^{+2780}_{-2789} yr
z_d	1019.94 ± 0.82	$z_{\rm eq}$	3184 ± 70
$z_{\rm rec}$	1088.14 ± 0.63	$z_{\rm reion}$	10.5 ± 1.1
z_*	1090.95 ± 0.58		

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+spt+act+bao

$10^9 \Delta^2_{\mathcal{R}}$	$2.484^{+0.073}_{-0.072}$	H_0	68.76 ± 0.84 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5737^{+31}_{-32} μK^2
$d_A(z_{\rm eq})$	14164 ± 66 Mpc	$d_A(z_*)$	13998 ± 67 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.43 ± 0.12	η	$(6.047 \pm 0.092) \times 10^{-10}$
$k_{\rm eq}$	0.01010 ± 0.00015	$\ell_{\rm eq}$	141.4 ± 1.5
ℓ_*	302.24 ± 0.39	$n_{\rm b}$	$(2.484 \pm 0.038) \times 10^{-7}$ cm^{-3}
n_s	$0.9579^{+0.0081}_{-0.0082}$	$\Omega_{\rm b}$	0.04678 ± 0.00098
$\Omega_{\rm b}h^2$	0.02211 ± 0.00034	Ω_c	0.2460 ± 0.0094
$\Omega_c h^2$	0.1162 ± 0.0020	Ω_Λ	0.707 ± 0.010
Ω_m	0.293 ± 0.010	$\Omega_m h^2$	0.1384 ± 0.0020
$r_s(z_d)$	152.16 ± 0.70 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3401 ± 0.0044
$r_s(z_d)/D_v(z=0.2)$	0.1859 ± 0.0022	$r_s(z_d)/D_v(z=0.35)$	0.1119 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	0.09196 ± 0.00090	$r_s(z_d)/D_v(z=0.54)$	$0.07775^{+0.00070}_{-0.00069}$
$r_s(z_d)/D_v(z=0.57)$	0.07448 ± 0.00065	$r_s(z_d)/D_v(z=0.6)$	0.07155 ± 0.00061
$r_s(z_d)/D_v(z=0.73)$	0.06174 ± 0.00047	$r_s(z_*)$	145.50 ± 0.59
R	1.7367 ± 0.0061	σ_8	$0.822^{+0.013}_{-0.014}$
$\sigma_8 \Omega_m^{0.5}$	0.445 ± 0.013	$\sigma_8 \Omega_m^{0.6}$	$0.393^{+0.012}_{-0.013}$
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.800 ± 0.061 Gyr
τ	$0.079^{+0.011}_{-0.012}$	θ_*	0.010395 ± 0.000013
θ_*	0.59557 ± 0.00077 $^\circ$	$\tau_{\rm rec}$	282.8 ± 1.0
$t_{\rm reion}$	486 ± 67 Myr	t_*	374130^{+1770}_{-1780} yr
z_d	1019.73 ± 0.81	$z_{\rm eq}$	3312 ± 48
$z_{\rm rec}$	1088.87 ± 0.59	$z_{\rm reion}$	10.0 ± 1.0
z_*	1091.88 ± 0.49		

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.464 ± 0.072	H_0	69.32 ± 0.80 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$15.0^{+2.3}_{-2.4}$
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5743 ± 31 μK^2
$d_A(z_{\rm eq})$	14173^{+66}_{-65} Mpc	$d_A(z_*)$	14007^{+67}_{-66} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.35 ± 0.11	η	$(6.079 \pm 0.090) \times 10^{-10}$
$k_{\rm eq}$	0.01004 ± 0.00014	$\ell_{\rm eq}$	140.7 ± 1.4
ℓ_*	$302.13^{+0.39}_{-0.38}$	$n_{\rm b}$	$(2.497 \pm 0.037) \times 10^{-7}$ cm^{-3}
n_s	0.9608 ± 0.0080	Ω_b	0.04628 ± 0.00093
$\Omega_b h^2$	0.02223 ± 0.00033	Ω_c	$0.2402^{+0.0088}_{-0.0087}$
$\Omega_c h^2$	0.1153 ± 0.0019	Ω_Λ	$0.7135^{+0.0095}_{-0.0096}$
Ω_m	$0.2865^{+0.0096}_{-0.0095}$	$\Omega_m h^2$	0.1376 ± 0.0020
$r_s(z_d)$	152.28 ± 0.69 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3429 ± 0.0042
$r_s(z_d)/D_v(z=0.2)$	$0.1873^{+0.0021}_{-0.0022}$	$r_s(z_d)/D_v(z=0.35)$	0.1127 ± 0.0011
$r_s(z_d)/D_v(z=0.44)$	0.09253 ± 0.00087	$r_s(z_d)/D_v(z=0.54)$	0.07819 ± 0.00067
$r_s(z_d)/D_v(z=0.57)$	0.07490 ± 0.00063	$r_s(z_d)/D_v(z=0.6)$	0.07194 ± 0.00059
$r_s(z_d)/D_v(z=0.73)$	$0.06204^{+0.00045}_{-0.00046}$	$r_s(z_*)$	145.65 ± 0.58
R	1.7329 ± 0.0058	σ_8	$0.820^{+0.013}_{-0.014}$
$\sigma_8\Omega_m^{0.5}$	0.439 ± 0.012	$\sigma_8\Omega_m^{0.6}$	0.387 ± 0.012
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.772 ± 0.059 Gyr
τ	0.081 ± 0.012	θ_*	0.010398 ± 0.000013
θ_*	0.59578 ± 0.00076 °	$\tau_{\rm rec}$	283.2 ± 1.0
$t_{\rm reion}$	482^{+66}_{-67} Myr	t_*	374935^{+1731}_{-1729} yr
$z_{\rm d}$	1019.92 ± 0.80	$z_{\rm eq}$	3293 ± 47
$z_{\rm rec}$	1088.68 ± 0.58	$z_{\rm reion}$	10.1 ± 1.0
z_*	1091.64 ± 0.47		

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+sn|s3

$10^9 \Delta^2_{\mathcal{R}}$	2.367 ± 0.095	H_0	71.3 ± 1.9 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14240 ± 110 Mpc
$d_A(z_*)$	14075 ± 111 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.10 ± 0.26
η	$(6.23 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00979 ± 0.00028
$\ell_{\rm eq}$	137.7 ± 3.0	ℓ_*	302.20 ± 0.64
n_{δ}	$(2.559 \pm 0.055) \times 10^{-7}$ cm^{-3}	n_s	0.977 ± 0.012
Ω_b	0.0449 ± 0.0020	$\Omega_b h^2$	0.02278 ± 0.00049
Ω_c	0.220 ± 0.019	$\Omega_c h^2$	0.1113 ± 0.0039
Ω_Λ	0.735 ± 0.020	Ω_m	0.265 ± 0.020
$\Omega_m h^2$	0.1341 ± 0.0038	$r_s(z_d)$	152.8 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.353 ± 0.010	$r_s(z_d)/D_v(z=0.2)$	0.1923 ± 0.0052
$r_s(z_d)/D_v(z=0.35)$	0.1153 ± 0.0028	$r_s(z_d)/D_v(z=0.44)$	0.0946 ± 0.0021
$r_s(z_d)/D_v(z=0.54)$	0.0798 ± 0.0016	$r_s(z_d)/D_v(z=0.57)$	0.0763 ± 0.0015
$r_s(z_d)/D_v(z=0.6)$	0.0733 ± 0.0014	$r_s(z_d)/D_v(z=0.73)$	0.0631 ± 0.0011
$r_s(z_*)$	$146.3^{+1.0}_{-1.1}$	R	1.719 ± 0.014
σ_8	0.812 ± 0.022	$\sigma_8 \Omega_m^{0.5}$	0.418 ± 0.025
$\sigma_8 \Omega_m^{0.6}$	0.366 ± 0.024	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.70 ± 0.11 Gyr	τ	0.091 ± 0.014
θ_*	0.010396 ± 0.000022	θ_*	0.5956 ± 0.0013 °
$\tau_{\rm rec}$	285.2 ± 2.1	$t_{\rm reion}$	450^{+63}_{-64} Myr
t_*	378610^{+3592}_{-3604} yr	z_d	1020.8 ± 1.1
$z_{\rm eq}$	3210^{+92}_{-91}	$z_{\rm rec}$	1087.84 ± 0.74
$z_{\rm reion}$	10.7 ± 1.1	z_*	1090.56 ± 0.77

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.334 ± 0.085	H_0	72.2 ± 1.5 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5761 \pm 33\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14264^{+106}_{-107} Mpc
$d_A(z_*)$	14099 ± 108 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.97 ± 0.21
η	$(6.27 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00968 ± 0.00024
$\ell_{\rm eq}$	136.4 ± 2.5	ℓ_*	302.03 ± 0.61
$n_{\rm b}$	$(2.576 \pm 0.051) \times 10^{-7}$ cm^{-3}	n_s	0.982 ± 0.011
Ω_b	0.0440 ± 0.0016	$\Omega_b h^2$	0.02294 ± 0.00046
Ω_c	0.211 ± 0.014	$\Omega_c h^2$	0.1096 ± 0.0033
Ω_Λ	0.745 ± 0.016	Ω_m	0.255 ± 0.016
$\Omega_m h^2$	0.1326 ± 0.0033	$r_s(z_d)$	153.1 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3580 ± 0.0083	$r_s(z_d)/D_v(z=0.2)$	0.1950 ± 0.0042
$r_s(z_d)/D_v(z=0.35)$	0.1167 ± 0.0023	$r_s(z_d)/D_v(z=0.44)$	0.0956 ± 0.0017
$r_s(z_d)/D_v(z=0.54)$	0.0806 ± 0.0013	$r_s(z_d)/D_v(z=0.57)$	0.0771 ± 0.0012
$r_s(z_d)/D_v(z=0.6)$	0.0740 ± 0.0012	$r_s(z_d)/D_v(z=0.73)$	0.06364 ± 0.00091
$r_s(z_*)$	146.65 ± 0.97	R	1.712 ± 0.011
σ_8	0.807 ± 0.021	$\sigma_8\Omega_m^{0.5}$	0.407 ± 0.021
$\sigma_8\Omega_m^{0.6}$	0.355 ± 0.020	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.659 ± 0.094 Gyr	τ	0.093 ± 0.014
θ_*	0.010402 ± 0.000021	θ_*	0.5960 ± 0.0012 °
$\tau_{\rm rec}$	286.1 ± 1.8	$t_{\rm reion}$	447 ± 63 Myr
t_*	380145^{+3099}_{-3107} yr	z_d	1021.0 ± 1.1
$z_{\rm eq}$	3173 ± 80	$z_{\rm rec}$	$1087.58^{+0.66}_{-0.67}$
$z_{\rm reion}$	10.8 ± 1.1	z_*	1090.22 ± 0.65

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+sn|s3+bao

$10^9 \Delta^2_{\mathcal{R}}$	2.442 ± 0.080	H_0	68.98 ± 0.91 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5740 ± 33 μK^2	$d_A(z_{\rm eq})$	14160 ± 93 Mpc
$d_A(z_*)$	13994^{+94}_{-93} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.43 ± 0.12
η	$(6.16 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01009 ± 0.00018
$\ell_{\rm eq}$	141.2 ± 1.6	ℓ_*	302.51 ± 0.60
n_b	$(2.529 \pm 0.049) \times 10^{-7}$ cm^{-3}	n_s	0.969 ± 0.010
Ω_b	0.0473 ± 0.0010	$\Omega_b h^2$	0.02252 ± 0.00044
Ω_c	$0.2434^{+0.0095}_{-0.0096}$	$\Omega_c h^2$	0.1157 ± 0.0023
Ω_Λ	0.709 ± 0.010	Ω_m	0.291 ± 0.010
$\Omega_m h^2$	0.1383 ± 0.0024	$r_s(z_d)$	151.83 ± 0.92 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3403 ± 0.0045	$r_s(z_d)/D_v(z=0.2)$	0.1860 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1119 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09197 ± 0.00093
$r_s(z_d)/D_v(z=0.54)$	0.07774 ± 0.00072	$r_s(z_d)/D_v(z=0.57)$	0.07447 ± 0.00067
$r_s(z_d)/D_v(z=0.6)$	0.07154 ± 0.00063	$r_s(z_d)/D_v(z=0.73)$	$0.06172^{+0.00049}_{-0.00048}$
$r_s(z_*)$	145.33 ± 0.76	R	1.7354 ± 0.0062
σ_8	0.828 ± 0.018	$\sigma_8 \Omega_m^{0.5}$	0.446 ± 0.015
$\sigma_8 \Omega_m^{0.6}$	0.394 ± 0.014	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.784 ± 0.088 Gyr	τ	0.087 ± 0.013
θ_*	$0.010385^{+0.000020}_{-0.000021}$	θ_*	0.5950 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	282.9 ± 1.3	$t_{\rm reion}$	455^{+64}_{-65} Myr
t_*	374573 ± 2076 yr	z_d	1020.6 ± 1.1
$z_{\rm eq}$	3309 ± 58	$z_{\rm rec}$	$1088.41^{+0.62}_{-0.63}$
$z_{\rm reion}$	10.5 ± 1.1	z_*	$1091.29^{+0.56}_{-0.57}$

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+snls3+bao+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.417 ± 0.078	H_0	69.60 ± 0.86 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5747^{+32}_{-33} μK^2	$d_A(z_{\rm eq})$	14156^{+93}_{-92} Mpc
$d_A(z_*)$	13990 ± 93 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.35 ± 0.12
η	$(6.21 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01005 ± 0.00018
$\ell_{\rm eq}$	140.6 ± 1.6	ℓ_*	302.32 ± 0.59
n_b	$(2.549 \pm 0.048) \times 10^{-7}$ cm^{-3}	n_s	0.973 ± 0.010
Ω_b	0.04686 ± 0.00100	$\Omega_b h^2$	0.02269 ± 0.00043
Ω_c	0.2377 ± 0.0089	$\Omega_c h^2$	0.1151 ± 0.0023
Ω_Λ	$0.7154^{+0.0097}_{-0.0098}$	Ω_m	$0.2846^{+0.0098}_{-0.0097}$
$\Omega_m h^2$	0.1377 ± 0.0024	$r_s(z_d)$	151.82 ± 0.92 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3431^{+0.0043}_{-0.0044}$	$r_s(z_d)/D_v(z=0.2)$	0.1874 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1127 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09255 ± 0.00089
$r_s(z_d)/D_v(z=0.54)$	0.07819 ± 0.00069	$r_s(z_d)/D_v(z=0.57)$	0.07489 ± 0.00065
$r_s(z_d)/D_v(z=0.6)$	$0.07193^{+0.00060}_{-0.00061}$	$r_s(z_d)/D_v(z=0.73)$	0.06202 ± 0.00047
$r_s(z_*)$	145.38 ± 0.76	R	1.7317 ± 0.0060
σ_8	0.827 ± 0.018	$\sigma_8 \Omega_m^{0.5}$	0.441 ± 0.014
$\sigma_8 \Omega_m^{0.6}$	0.389 ± 0.014	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.743 ± 0.085 Gyr	τ	0.088 ± 0.013
θ_*	0.010392 ± 0.000020	θ_*	0.5954 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	283.2 ± 1.2	$t_{\rm reion}$	452 ± 64 Myr
t_*	375168^{+2057}_{-2047} yr	z_d	1021.0 ± 1.1
$z_{\rm eq}$	3297 ± 58	$z_{\rm rec}$	$1088.19^{+0.61}_{-0.62}$
$z_{\rm reion}$	10.6 ± 1.1	z_*	1091.00 ± 0.54

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	$2.407^{+0.081}_{-0.082}$	H_0	71.2 ± 1.5 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5752^{+32}_{-33} μK^2
$d_A(z_{\rm eq})$	14263^{+83}_{-84} Mpc	$d_A(z_*)$	14099 ± 84 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.07 ± 0.22	η	$(6.12 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00975 ± 0.00023	$\ell_{\rm eq}$	$137.4^{+2.4}_{-2.5}$
ℓ_*	$301.98^{+0.42}_{-0.41}$	$n_{\rm b}$	$(2.513 \pm 0.041) \times 10^{-7}$ cm^{-3}
n_s	$0.9674^{+0.0096}_{-0.0095}$	$\Omega_{\rm b}$	0.0441 ± 0.0016
$\Omega_{\rm b}h^2$	0.02237 ± 0.00037	Ω_c	0.220 ± 0.015
$\Omega_c h^2$	0.1112 ± 0.0032	Ω_Λ	0.736 ± 0.017
Ω_m	0.264 ± 0.017	$\Omega_m h^2$	0.1335 ± 0.0031
$r_s(z_d)$	153.32 ± 0.92 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3539^{+0.0085}_{-0.0084}$
$r_s(z_d)/D_v(z=0.2)$	0.1929 ± 0.0043	$r_s(z_d)/D_v(z=0.35)$	0.1156 ± 0.0023
$r_s(z_d)/D_v(z=0.44)$	0.0948 ± 0.0017	$r_s(z_d)/D_v(z=0.54)$	$0.0800^{+0.0014}_{-0.0015}$
$r_s(z_d)/D_v(z=0.57)$	0.0765 ± 0.0013	$r_s(z_d)/D_v(z=0.6)$	0.0735 ± 0.0012
$r_s(z_d)/D_v(z=0.73)$	$0.06323^{+0.00092}_{-0.00091}$	$r_s(z_*)$	146.67 ± 0.84
R	1.718 ± 0.011	σ_8	0.805 ± 0.017
$\sigma_8\Omega_m^{0.5}$	0.413 ± 0.020	$\sigma_8\Omega_m^{0.6}$	0.362 ± 0.019
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.719^{+0.075}_{-0.074}$ Gyr
τ	0.086 ± 0.013	θ_*	0.010403 ± 0.000014
θ_*	0.59607 ± 0.00082 $^\circ$	$\tau_{\rm rec}$	285.4 ± 1.7
$t_{\rm reion}$	469 ± 65 Myr	t_*	378789^{+2922}_{-2945} yr
z_d	$1019.85^{+0.82}_{-0.83}$	$z_{\rm eq}$	3196 ± 74
$z_{\rm rec}$	$1088.24^{+0.66}_{-0.65}$	$z_{\rm reion}$	10.4 ± 1.1
z_*	$1091.08^{+0.63}_{-0.62}$		

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.383 ± 0.077	H_0	72.0 ± 1.3 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5757 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14287 ± 80 Mpc	$d_A(z_*)$	14123 ± 81 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.96 ± 0.18	η	$(6.146^{+0.097}_{-0.096}) \times 10^{-10}$
$k_{\rm eq}$	0.00965 ± 0.00020	$\ell_{\rm eq}$	136.3 ± 2.1
ℓ_*	301.88 ± 0.40	$n_{\rm b}$	$(2.524 \pm 0.040) \times 10^{-7}$ cm^{-3}
n_s	0.9706 ± 0.0089	$\Omega_{\rm b}$	0.0434 ± 0.0014
$\Omega_{\rm b}h^2$	0.02248 ± 0.00035	Ω_c	0.212 ± 0.013
$\Omega_c h^2$	0.1098 ± 0.0028	Ω_Λ	0.744 ± 0.014
Ω_m	0.256 ± 0.014	$\Omega_m h^2$	0.1322 ± 0.0028
$r_s(z_d)$	153.61 ± 0.87 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3579 ± 0.0073
$r_s(z_d)/D_v(z=0.2)$	0.1949 ± 0.0037	$r_s(z_d)/D_v(z=0.35)$	0.1167 ± 0.0020
$r_s(z_d)/D_v(z=0.44)$	0.0956 ± 0.0015	$r_s(z_d)/D_v(z=0.54)$	0.0806 ± 0.0012
$r_s(z_d)/D_v(z=0.57)$	0.0771 ± 0.0011	$r_s(z_d)/D_v(z=0.6)$	0.0740 ± 0.0010
$r_s(z_d)/D_v(z=0.73)$	$0.06367^{+0.00080}_{-0.00079}$	$r_s(z_*)$	146.97 ± 0.78
R	1.7128 ± 0.0096	σ_8	0.800 ± 0.016
$\sigma_8\Omega_m^{0.5}$	0.405 ± 0.017	$\sigma_8\Omega_m^{0.6}$	0.353 ± 0.017
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.690 ± 0.068 Gyr
τ	0.088 ± 0.013	θ_*	0.010407 ± 0.000014
θ_*	$0.59627 \pm 0.00079\ ^\circ$	$\tau_{\rm rec}$	286.1 ± 1.5
$t_{\rm reion}$	464^{+63}_{-64} Myr	t_*	380072^{+2621}_{-2614} yr
z_d	1019.95 ± 0.83	$z_{\rm eq}$	3165 ± 66
$z_{\rm rec}$	1088.04 ± 0.62	$z_{\rm reion}$	10.5 ± 1.1
z_*	$1090.82^{+0.56}_{-0.55}$		

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+spt+act+sn|s3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.475 ± 0.073	H_0	69.04 ± 0.82 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5739 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14177 ± 66 Mpc	$d_A(z_*)$	14011 ± 66 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.39 ± 0.12	η	$(6.055^{+0.091}_{-0.090}) \times 10^{-10}$
$k_{\rm eq}$	0.01006 ± 0.00014	$\ell_{\rm eq}$	140.9 ± 1.5
ℓ_*	302.22 ± 0.39	n_b	$(2.487 \pm 0.037) \times 10^{-7}$ cm^{-3}
n_s	$0.9589^{+0.0081}_{-0.0082}$	Ω_b	$0.04647^{+0.00094}_{-0.00095}$
$\Omega_b h^2$	0.02215 ± 0.00033	Ω_c	0.2427 ± 0.0091
$\Omega_c h^2$	$0.1156^{+0.0020}_{-0.0019}$	Ω_Λ	$0.7108^{+0.0100}_{-0.0099}$
Ω_m	$0.2892^{+0.0099}_{-0.0100}$	$\Omega_m h^2$	0.1378 ± 0.0020
$r_s(z_d)$	152.30 ± 0.69 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3417 ± 0.0044
$r_s(z_d)/D_v(z=0.2)$	0.1867 ± 0.0022	$r_s(z_d)/D_v(z=0.35)$	0.1123 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	0.09229 ± 0.00089	$r_s(z_d)/D_v(z=0.54)$	0.07800 ± 0.00069
$r_s(z_d)/D_v(z=0.57)$	0.07471 ± 0.00064	$r_s(z_d)/D_v(z=0.6)$	0.07177 ± 0.00060
$r_s(z_d)/D_v(z=0.73)$	0.06191 ± 0.00047	$r_s(z_*)$	145.65 ± 0.58
R	$1.7345^{+0.0059}_{-0.0060}$	σ_8	0.820 ± 0.014
$\sigma_8\Omega_m^{0.5}$	$0.441^{+0.012}_{-0.013}$	$\sigma_8\Omega_m^{0.6}$	0.389 ± 0.012
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.25 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.791^{+0.060}_{-0.061}$ Gyr
τ	0.080 ± 0.012	θ_*	0.010395 ± 0.000013
θ_*	$0.59560 \pm 0.00077\ ^\circ$	$\tau_{\rm rec}$	283.1 ± 1.0
$t_{\rm reion}$	484^{+67}_{-68} Myr	t_*	374696^{+1761}_{-1765} yr
z_d	1019.75 ± 0.80	$z_{\rm eq}$	3297 ± 47
$z_{\rm rec}$	1088.79 ± 0.58	$z_{\rm reion}$	10.0 ± 1.0
z_*	1091.78 ± 0.48		

WMAP Cosmological Parameters

Model: lcdm

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.457 ± 0.072	H_0	$69.55^{+0.78}_{-0.79}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5744 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14185 ± 66 Mpc	$d_A(z_*)$	14019^{+66}_{-67} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.32 ± 0.11	η	$(6.085 \pm 0.090) \times 10^{-10}$
$k_{\rm eq}$	0.01000 ± 0.00014	$\ell_{\rm eq}$	140.2 ± 1.4
ℓ_*	302.12 ± 0.39	n_b	$(2.499 \pm 0.037) \times 10^{-7}$ cm^{-3}
n_s	0.9616 ± 0.0080	Ω_b	0.04601 ± 0.00091
$\Omega_b h^2$	0.02225 ± 0.00033	Ω_c	0.2375 ± 0.0085
$\Omega_c h^2$	0.1148 ± 0.0019	Ω_Λ	$0.7165^{+0.0093}_{-0.0094}$
Ω_m	$0.2835^{+0.0094}_{-0.0093}$	$\Omega_m h^2$	0.1371 ± 0.0019
$r_s(z_d)$	152.41 ± 0.69 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3442 ± 0.0042
$r_s(z_d)/D_v(z=0.2)$	0.1880 ± 0.0021	$r_s(z_d)/D_v(z=0.35)$	0.1130 ± 0.0011
$r_s(z_d)/D_v(z=0.44)$	0.09281 ± 0.00086	$r_s(z_d)/D_v(z=0.54)$	0.07840 ± 0.00067
$r_s(z_d)/D_v(z=0.57)$	$0.07509^{+0.00062}_{-0.00063}$	$r_s(z_d)/D_v(z=0.6)$	$0.07213^{+0.00058}_{-0.00059}$
$r_s(z_d)/D_v(z=0.73)$	0.06218 ± 0.00045	$r_s(z_*)$	145.78 ± 0.58
R	$1.7310^{+0.0058}_{-0.0057}$	σ_8	0.818 ± 0.014
$\sigma_8\Omega_m^{0.5}$	0.435 ± 0.012	$\sigma_8\Omega_m^{0.6}$	0.384 ± 0.012
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.25 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	$13.766^{+0.059}_{-0.060}$ Gyr
τ	0.082 ± 0.012	θ_*	0.010399 ± 0.000013
θ_*	$0.59580^{+0.00077}_{-0.00078}$ $^\circ$	$\tau_{\rm rec}$	283.5 ± 1.0
$t_{\rm reion}$	481 ± 67 Myr	t_*	375427^{+1718}_{-1710} yr
z_d	1019.92 ± 0.80	$z_{\rm eq}$	3280^{+46}_{-47}
$z_{\rm rec}$	$1088.62^{+0.59}_{-0.57}$	$z_{\rm reion}$	10.1 ± 1.0
z_*	$1091.56^{+0.47}_{-0.46}$		

WMAP Cosmological Parameters Model: lcdm+run Data: wmap9				WMA	
$10^9\Delta^2_{\mathcal{R}}$	2.40 ± 0.10	H_0	68.0 ± 3.4 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.356 ± 0.09
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14118^{+153}_{-154} Mpc	$\ell(\ell+1)C_{220}/(2\pi)$	$5758 \pm 34\ \mu$
$d_A(z_*)$	13951^{+155}_{-156} Mpc	$dn_s/d\ln k$	-0.019 ± 0.025	$d_A(z_*)$	14084 ± 120 M
$D_v(z=0.57)/r_s(z_d)$	13.57 ± 0.49	η	$(6.08 \pm 0.20) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	13.02 ± 0.2
$k_{\rm eq}$	$0.01025^{+0.00051}_{-0.00050}$	$\ell_{\rm eq}$	143.0 ± 5.6	$k_{\rm eq}$	0.00972 ± 0.00
ℓ_*	302.44 ± 0.66	n_b	$(2.498 \pm 0.080) \times 10^{-7}$ cm^{-3}	ℓ_*	302.07 ± 0.6
n_s	1.009 ± 0.049	Ω_b	0.0483 ± 0.0036	n_s	0.974 ± 0.0
$\Omega_b h^2$	0.02224 ± 0.00071	Ω_c	0.259 ± 0.041	$\Omega_b h^2$	0.02294 ± 0.00
$\Omega_c h^2$	0.1182 ± 0.0074	Ω_Λ	0.693 ± 0.045	$\Omega_c h^2$	$0.1103^{+0.00}_{-0.00}$
Ω_m	0.307 ± 0.045	$\Omega_m h^2$	0.1405 ± 0.0069	Ω_m	$0.258^{+0.02}_{-0.02}$
$r_s(z_d)$	151.5 ± 1.6 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.336 ± 0.018	$r_s(z_d)$	152.9 ± 1.2 M
$r_s(z_d)/D_v(z=0.2)$	$0.1836^{+0.0091}_{-0.0092}$	$r_s(z_d)/D_v(z=0.35)$	0.1107 ± 0.0048	$r_s(z_d)/D_v(z=0.2)$	$0.1941^{+0.00}_{-0.00}$
$r_s(z_d)/D_v(z=0.44)$	0.0910 ± 0.0037	$r_s(z_d)/D_v(z=0.54)$	0.0770 ± 0.0028	$r_s(z_d)/D_v(z=0.44)$	0.0953 ± 0.00
$r_s(z_d)/D_v(z=0.57)$	$0.0738^{+0.0026}_{-0.0027}$	$r_s(z_d)/D_v(z=0.6)$	0.0709 ± 0.0025	$r_s(z_d)/D_v(z=0.57)$	0.0769 ± 0.00
$r_s(z_d)/D_v(z=0.73)$	0.0613 ± 0.0019	$r_s(z_*)$	144.9 ± 1.6	$r_s(z_d)/D_v(z=0.73)$	0.0635 ± 0.00
R	1.743 ± 0.025	σ_8	0.832 ± 0.027	R	1.714 ± 0.0
$\sigma_8\Omega_m^{0.5}$	$0.461^{+0.047}_{-0.046}$	$\sigma_8\Omega_m^{0.6}$	0.410 ± 0.047	$\sigma_8\Omega_m^{0.5}$	0.412 ± 0.0
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$13.81^{+0.15}_{-0.14}$ Gyr	$A_{\rm SZ}$	< 2.0 (95% C
τ	0.091 ± 0.014	θ_*	0.010387 ± 0.000023	τ	$0.092^{+0.01}_{-0.01}$
θ_*	0.5952 ± 0.0013 °	$\tau_{\rm rec}$	281.8 ± 3.7	θ_*	0.5959 ± 0.00
$t_{\rm reion}$	426^{+69}_{-70} Myr	t_*	372502^{+6514}_{-6546} yr	$t_{\rm reion}$	454 ± 71 M
z_d	1020.2 ± 1.3	$z_{\rm eq}$	3362 ± 166	z_d	$1021.0^{+1.2}_{-1.1}$
$z_{\rm rec}$	1088.9 ± 1.2	$z_{\rm reion}$	11.0 ± 1.3	$z_{\rm rec}$	$1087.63^{+0.8}_{-0.8}$
z_*	1091.9 ± 1.5			z_*	$1090.28 \pm 0.$

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.398 ± 0.096	H_0	68.28 ± 0.99 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5749 ± 34 μK^2	$d_A(z_{\rm eq})$	14133 ± 95 Mpc
$d_A(z_*)$	13966^{+95}_{-95} Mpc	$dn_s/d\ln k$	-0.018 ± 0.017
$D_v(z=0.57)/r_s(z_d)$	13.52 ± 0.13	η	$(6.09 \pm 0.13) \times 10^{-10}$
$k_{\rm eq}$	0.01019 ± 0.00019	$\ell_{\rm eq}$	142.3 ± 1.8
ℓ_*	302.43 ± 0.61	n_b	$(2.502 \pm 0.053) \times 10^{-7}$ cm^{-3}
n_s	$1.006^{+0.039}_{-0.038}$	Ω_b	0.0478 ± 0.0011
$\Omega_b h^2$	0.02228 ± 0.00047	Ω_c	0.252 ± 0.011
$\Omega_c h^2$	0.1174 ± 0.0025	Ω_Λ	0.700 ± 0.012
Ω_m	0.300 ± 0.012	$\Omega_m h^2$	0.1396 ± 0.0026
$r_s(z_d)$	151.65 ± 0.93 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3368 ± 0.0049
$r_s(z_d)/D_v(z=0.2)$	0.1842 ± 0.0025	$r_s(z_d)/D_v(z=0.35)$	0.1110 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.09127 ± 0.00100	$r_s(z_d)/D_v(z=0.54)$	0.07721 ± 0.00077
$r_s(z_d)/D_v(z=0.57)$	0.07398 ± 0.00072	$r_s(z_d)/D_v(z=0.6)$	0.07108 ± 0.00067
$r_s(z_d)/D_v(z=0.73)$	0.06137 ± 0.00052	$r_s(z_*)$	145.08 ± 0.78
R	1.7407 ± 0.0070	σ_8	0.830 ± 0.018
$\sigma_8\Omega_m^{0.5}$	0.454 ± 0.016	$\sigma_8\Omega_m^{0.6}$	0.403 ± 0.015
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.807 ± 0.089 Gyr
τ	0.091 ± 0.014	θ_*	0.010388 ± 0.000021
θ_*	0.5952 ± 0.0012 $^\circ$	$r_{\rm rec}$	282.1 ± 1.3
$t_{\rm reion}$	427 ± 66 Myr	t_*	373126^{+2266}_{-2254} yr
z_d	1020.2 ± 1.1	$z_{\rm eq}$	3343^{+62}_{-65}
$z_{\rm rec}$	1088.77 ± 0.68	$z_{\rm reion}$	11.0 ± 1.2
z_*	$1091.75^{+0.67}_{-0.66}$		

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.386 ± 0.095	H_0	69.10 ± 0.93 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14134 ± 94 Mpc
$d_A(z_*)$	13967 ± 95 Mpc	$dn_s/d\ln k$	-0.013 ± 0.017
$D_v(z=0.57)/r_s(z_d)$	13.42 ± 0.12	η	$(6.16 \pm 0.13) \times 10^{-10}$
$k_{\rm eq}$	0.01013 ± 0.00019	$\ell_{\rm eq}$	$141.5^{+1.8}_{-1.7}$
ℓ_*	302.24 ± 0.60	n_b	$(2.530 \pm 0.052) \times 10^{-7}$ cm^{-3}
n_s	1.000 ± 0.038	Ω_b	0.0472 ± 0.0010
$\Omega_b h^2$	0.02253 ± 0.00046	Ω_c	0.244 ± 0.010
$\Omega_c h^2$	0.1163 ± 0.0025	Ω_Λ	0.709 ± 0.011
Ω_m	0.291 ± 0.011	$\Omega_m h^2$	0.1388 ± 0.0026
$r_s(z_d)$	151.67 ± 0.93 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3406 ± 0.0047
$r_s(z_d)/D_v(z=0.2)$	0.1861 ± 0.0024	$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	0.09204 ± 0.00095	$r_s(z_d)/D_v(z=0.54)$	0.07780 ± 0.00073
$r_s(z_d)/D_v(z=0.57)$	0.07453 ± 0.00068	$r_s(z_d)/D_v(z=0.6)$	0.07160 ± 0.00064
$r_s(z_d)/D_v(z=0.73)$	0.06177 ± 0.00049	$r_s(z_*)$	$145.18^{+0.77}_{-0.78}$
R	1.7355 ± 0.0066	σ_8	0.830 ± 0.018
$\sigma_8\Omega_m^{0.5}$	0.447 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.395 ± 0.015
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.758 ± 0.086 Gyr
τ	0.091 ± 0.014	θ_*	0.010394 ± 0.000021
θ_*	$0.5956 \pm 0.0012\ ^\circ$	$r_{\rm rec}$	282.6 ± 1.3
$t_{\rm reion}$	432^{+66}_{-67} Myr	t_*	374084^{+2216}_{-2228} yr
z_d	1020.7 ± 1.1	$z_{\rm eq}$	3322^{+62}_{-61}
$z_{\rm rec}$	$1088.44^{+0.66}_{-0.67}$	$z_{\rm reion}$	10.9 ± 1.2
z_*	$1091.33^{+0.63}_{-0.64}$		

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	$2.345^{+0.091}_{-0.092}$	H_0	69.4 ± 1.7 km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.7 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5760^{+33}_{-34} μK^2
$d_A(z_{\rm eq})$	14164 ± 94 Mpc	$d_A(z_*)$	13998 ± 95 Mpc
$dn_s/d\ln k$	$-0.022^{+0.012}_{-0.011}$	$D_v(z=0.57)/r_s(z_d)$	13.35 ± 0.25
η	$(6.08 \pm 0.10) \times 10^{-10}$	$k_{\rm eq}$	0.01006 ± 0.00027
$\ell_{\rm eq}$	$140.8^{+2.9}_{-3.0}$	ℓ_*	302.04 ± 0.42
$n_{\bar{b}}$	$(2.499 \pm 0.042) \times 10^{-7}$ cm^{-3}	n_s	1.018 ± 0.029
Ω_b	0.0463 ± 0.0020	$\Omega_b h^2$	0.02225 ± 0.00037
Ω_c	0.241 ± 0.020	$\Omega_c h^2$	0.1155 ± 0.0039
Ω_Λ	0.713 ± 0.022	Ω_m	0.287 ± 0.022
$\Omega_m h^2$	$0.1378^{+0.0037}_{-0.0038}$	$r_s(z_d)$	152.2 ± 1.0 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3431 ± 0.0096	$r_s(z_d)/D_v(z=0.2)$	0.1874 ± 0.0049
$r_s(z_d)/D_v(z=0.35)$	0.1127 ± 0.0026	$r_s(z_d)/D_v(z=0.44)$	0.0926 ± 0.0020
$r_s(z_d)/D_v(z=0.54)$	0.0782 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0749 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0720 ± 0.0013	$r_s(z_d)/D_v(z=0.73)$	0.0621 ± 0.0010
$r_s(z_*)$	$145.59^{+0.97}_{-0.96}$	R	1.733 ± 0.013
σ_8	0.819 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.439 ± 0.024
$\sigma_8\Omega_m^{0.6}$	0.387 ± 0.024	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	$13.761^{+0.077}_{-0.078}$ Gyr	τ	0.090 ± 0.014
θ_*	$0.010401^{+0.000014}_{-0.000015}$	θ_*	0.59595 ± 0.00083 $^\circ$
$\tau_{\rm rec}$	283.1 ± 2.0	$t_{\rm reion}$	436^{+65}_{-64} Myr
t_*	374794^{+3478}_{-3470} yr	z_d	1019.97 ± 0.82
$z_{\rm eq}$	3298 ± 90	$z_{\rm rec}$	1088.68 ± 0.70
$z_{\rm reion}$	10.9 ± 1.2	z_*	$1091.64^{+0.69}_{-0.70}$

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+spt+act+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.317 ± 0.089	H_0	$70.9^{+1.4}_{-1.5}$ km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.0 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5769 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14221 ± 87 Mpc	$d_A(z_*)$	14056 ± 88 Mpc
$dn_s/d\ln k$	-0.019 ± 0.011	$D_v(z=0.57)/r_s(z_d)$	13.13 ± 0.21
η	$(6.137^{+0.098}_{-0.097}) \times 10^{-10}$	$k_{\rm eq}$	0.00984 ± 0.00023
$\ell_{\rm eq}$	138.3 ± 2.5	ℓ_*	$301.86^{+0.40}_{-0.41}$
$n_{\hat{\mathbf{b}}}$	$(2.521 \pm 0.040) \times 10^{-7}$ cm^{-3}	n_s	1.016 ± 0.030
Ω_b	0.0446 ± 0.0016	$\Omega_b h^2$	$0.02245^{+0.00036}_{-0.00035}$
Ω_c	0.224 ± 0.015	$\Omega_c h^2$	0.1124 ± 0.0032
Ω_Λ	0.732 ± 0.017	Ω_m	0.268 ± 0.017
$\Omega_m h^2$	0.1348 ± 0.0032	$r_s(z_d)$	$152.88^{+0.95}_{-0.96}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3516 ± 0.0081	$r_s(z_d)/D_v(z=0.2)$	0.1917 ± 0.0041
$r_s(z_d)/D_v(z=0.35)$	0.1150 ± 0.0022	$r_s(z_d)/D_v(z=0.44)$	0.0943 ± 0.0017
$r_s(z_d)/D_v(z=0.54)$	0.0796 ± 0.0013	$r_s(z_d)/D_v(z=0.57)$	0.0762 ± 0.0012
$r_s(z_d)/D_v(z=0.6)$	0.0732 ± 0.0011	$r_s(z_d)/D_v(z=0.73)$	0.06299 ± 0.00088
$r_s(z_*)$	$146.28^{+0.86}_{-0.87}$	R	1.721 ± 0.011
σ_8	0.810 ± 0.017	$\sigma_8 \Omega_m^{0.5}$	0.420 ± 0.020
$\sigma_8 \Omega_m^{0.6}$	0.368 ± 0.019	$A_{\rm SZ}$	< 1.3 (95% CL)
t_0	$13.707^{+0.070}_{-0.069}$ Gyr	τ	0.094 ± 0.014
θ_*	0.010408 ± 0.000014	θ_*	0.59631 ± 0.00080 °
$\tau_{\rm rec}$	284.7 ± 1.7	$t_{\rm reion}$	431^{+82}_{-83} Myr
t_*	377636^{+2962}_{-2979} yr	z_d	$1020.13^{+0.83}_{-0.82}$
$z_{\rm eq}$	3227 ± 76	$z_{\rm rec}$	1088.26 ± 0.64
$z_{\rm reion}$	11.0 ± 1.2	z_*	$1091.09^{+0.60}_{-0.59}$

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	2.359 ± 0.089	H_0	$68.51^{+0.85}_{-0.86}$ km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.6 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5757 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14127 ± 68 Mpc	$d_A(z_*)$	13960 ± 68 Mpc
$dn_s/d\ln k$	-0.024 ± 0.011	$D_v(z=0.57)/r_s(z_d)$	13.48 ± 0.12
η	$(6.060^{+0.091}_{-0.092}) \times 10^{-10}$	$k_{\rm eq}$	0.01019 ± 0.00015
$\ell_{\rm eq}$	142.2 ± 1.5	ℓ_*	302.12 ± 0.39
$n_{\hat{\delta}}$	$(2.489^{+0.037}_{-0.038}) \times 10^{-7}$ cm^{-3}	n_s	1.020 ± 0.029
Ω_b	0.0472 ± 0.0010	$\Omega_b h^2$	$0.02216^{+0.00033}_{-0.00034}$
Ω_c	0.2503 ± 0.0098	$\Omega_c h^2$	0.1174 ± 0.0021
Ω_Λ	0.702 ± 0.011	Ω_m	0.298 ± 0.011
$\Omega_m h^2$	0.1396 ± 0.0021	$r_s(z_d)$	151.78 ± 0.71 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3382 ± 0.0045	$r_s(z_d)/D_v(z=0.2)$	0.1849 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1114 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09158 ± 0.00092
$r_s(z_d)/D_v(z=0.54)$	0.07745 ± 0.00071	$r_s(z_d)/D_v(z=0.57)$	$0.07420^{+0.00066}_{-0.00067}$
$r_s(z_d)/D_v(z=0.6)$	0.07129 ± 0.00062	$r_s(z_d)/D_v(z=0.73)$	0.06154 ± 0.00048
$r_s(z_*)$	145.16 ± 0.60	R	1.7394 ± 0.0062
σ_8	0.825 ± 0.014	$\sigma_8\Omega_m^{0.5}$	0.450 ± 0.013
$\sigma_8\Omega_m^{0.6}$	0.399 ± 0.013	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.789 ± 0.061 Gyr	τ	0.088 ± 0.013
θ_*	$0.010398^{+0.000014}_{-0.000013}$	θ_*	$0.59578^{+0.00078}_{-0.00077}$ °
$\tau_{\rm rec}$	282.2 ± 1.1	$t_{\rm reion}$	439^{+63}_{-64} Myr
t_*	373099^{+1835}_{-1831} yr	z_d	$1019.95^{+0.80}_{-0.81}$
$z_{\rm eq}$	3340 ± 50	$z_{\rm rec}$	$1088.90^{+0.58}_{-0.59}$
$z_{\rm reion}$	10.8 ± 1.1	z_*	$1091.92^{+0.48}_{-0.49}$

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.344^{+0.087}_{-0.088}$	H_0	$69.11^{+0.80}_{-0.81}$ km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.8 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5762 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14138 ± 68 Mpc	$d_A(z_*)$	13972 ± 68 Mpc
$dn_s/d\ln k$	-0.023 ± 0.011	$D_v(z=0.57)/r_s(z_d)$	13.40 ± 0.11
η	$(6.094 \pm 0.091) \times 10^{-10}$	$k_{\rm eq}$	0.01012 ± 0.00015
$\ell_{\rm eq}$	141.4 ± 1.5	ℓ_*	302.02 ± 0.39
n_b	$(2.503^{+0.038}_{-0.037}) \times 10^{-7}$ cm^{-3}	n_s	1.020 ± 0.029
Ω_b	$0.04667^{+0.00095}_{-0.00096}$	$\Omega_b h^2$	0.02229 ± 0.00033
Ω_c	0.2439 ± 0.0090	$\Omega_c h^2$	0.1164 ± 0.0020
Ω_Λ	0.7095 ± 0.0099	Ω_m	0.2905 ± 0.0099
$\Omega_m h^2$	0.1387 ± 0.0020	$r_s(z_d)$	151.92 ± 0.71 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3412 ± 0.0043	$r_s(z_d)/D_v(z=0.2)$	0.1864 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1122 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09219 ± 0.00088
$r_s(z_d)/D_v(z=0.54)$	0.07792 ± 0.00068	$r_s(z_d)/D_v(z=0.57)$	0.07465 ± 0.00063
$r_s(z_d)/D_v(z=0.6)$	0.07171 ± 0.00059	$r_s(z_d)/D_v(z=0.73)$	0.06186 ± 0.00046
$r_s(z_*)$	145.33 ± 0.60	R	1.7353 ± 0.0059
σ_8	0.823 ± 0.014	$\sigma_8\Omega_m^{0.5}$	0.444 ± 0.013
$\sigma_8\Omega_m^{0.6}$	0.392 ± 0.012	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.760 ± 0.060 Gyr	τ	0.090 ± 0.014
θ_*	$0.010402^{+0.000014}_{-0.000013}$	θ_*	0.59600 ± 0.00077 $^\circ$
$\tau_{\rm rec}$	282.6 ± 1.1	$t_{\rm reion}$	436^{+63}_{-64} Myr
t_*	373993^{+1788}_{-1777} yr	z_d	$1020.14^{+0.81}_{-0.80}$
$z_{\rm eq}$	3319 ± 49	$z_{\rm rec}$	$1088.70^{+0.58}_{-0.59}$
$z_{\rm reion}$	10.8 ± 1.2	z_*	1091.66 ± 0.47

WMAP Cosmological Parameters Model: lcdm+run Data: wmap9+snls3				WMA	
$10^9\Delta^2_{\mathcal{R}}$	2.365 ± 0.098	H_0	71.3 ± 2.6 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.349 ± 0.09
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14239^{+125}_{-124} Mpc	$\ell(\ell+1)C_{220}/(2\pi)$	$5758 \pm 35\ \mu$
$d_A(z_*)$	14074 ± 126 Mpc	$dn_s/d\ln k$	-0.000 ± 0.021	$d_A(z_*)$	14113 ± 114 M
$D_v(z=0.57)/r_s(z_d)$	13.10 ± 0.35	η	$(6.23 \pm 0.17) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	12.92 ± 0.2
$k_{\rm eq}$	0.00979 ± 0.00036	$\ell_{\rm eq}$	137.7 ± 4.0	$k_{\rm eq}$	0.00963 ± 0.00
ℓ_*	302.20 ± 0.64	n_b	$(2.559 \pm 0.071) \times 10^{-7}$ cm^{-3}	ℓ_*	302.05 ± 0.6
n_s	0.978 ± 0.044	Ω_b	0.0449 ± 0.0024	n_s	0.967 ± 0.0
$\Omega_b h^2$	0.02279 ± 0.00063	Ω_c	0.221 ± 0.026	$\Omega_b h^2$	0.02304 ± 0.00
$\Omega_c h^2$	0.1113 ± 0.0052	Ω_Λ	0.734 ± 0.028	$\Omega_c h^2$	0.1089 ± 0.00
Ω_m	0.266 ± 0.028	$\Omega_m h^2$	0.1341 ± 0.0049	Ω_m	0.251 ± 0.0
$r_s(z_d)$	152.8 ± 1.3 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.353 ± 0.014	$r_s(z_d)$	153.2 ± 1.1 M
$r_s(z_d)/D_v(z=0.2)$	0.1925 ± 0.0070	$r_s(z_d)/D_v(z=0.35)$	0.1154 ± 0.0037	$r_s(z_d)/D_v(z=0.2)$	0.1960 ± 0.00
$r_s(z_d)/D_v(z=0.44)$	0.0946 ± 0.0028	$r_s(z_d)/D_v(z=0.54)$	0.0798 ± 0.0022	$r_s(z_d)/D_v(z=0.44)$	0.0960 ± 0.00
$r_s(z_d)/D_v(z=0.57)$	$0.0764^{+0.0020}_{-0.0021}$	$r_s(z_d)/D_v(z=0.6)$	0.0733 ± 0.0019	$r_s(z_d)/D_v(z=0.57)$	0.0774 ± 0.00
$r_s(z_d)/D_v(z=0.73)$	0.0631 ± 0.0015	$r_s(z_*)$	146.3 ± 1.2	$r_s(z_d)/D_v(z=0.73)$	0.0639 ± 0.00
R	$1.719^{+0.019}_{-0.018}$	σ_8	0.812 ± 0.023	R	1.709 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.418 ± 0.031	$\sigma_8\Omega_m^{0.6}$	0.366 ± 0.031	$\sigma_8\Omega_m^{0.5}$	0.403 ± 0.0
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11	$\alpha_{\rm SNLS}$	1.43 ± 0.1
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.70 ± 0.13 Gyr	$A_{\rm SZ}$	< 2.0 (95% C
τ	$0.092^{+0.015}_{-0.014}$	θ_*	0.010396 ± 0.000022	τ	0.092 ± 0.0
θ_*	0.5956 ± 0.0013 °	$\tau_{\rm rec}$	285.2 ± 2.7	θ_*	0.5959 ± 0.00
$t_{\rm reion}$	450^{+71}_{-72} Myr	t_*	378633^{+4802}_{-4813} yr	$t_{\rm reion}$	459^{+72}_{-73} My
z_d	1020.8 ± 1.2	$z_{\rm eq}$	3210 ± 118	z_d	$1021.1 \pm 1.$
$z_{\rm rec}$	1087.85 ± 0.97	$z_{\rm reion}$	10.7 ± 1.2	$z_{\rm rec}$	$1087.43^{+0.7}_{-0.7}$
z_*	1090.6 ± 1.1			z_*	$1090.03 \pm 0.$

WMAP Cosmological Parameters Model: lcdm+run Data: wmap9+snls3+bao				WMA Dat	
$10^9\Delta^2_{\mathcal{R}}$	$2.395^{+0.096}_{-0.095}$	H_0	68.69 ± 0.96 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.384 ± 0.0
$\ell(\ell+1)C_{220}/(2\pi)$	$5749 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14152 ± 94 Mpc	$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 34\ \mu$
$d_A(z_*)$	13985 ± 95 Mpc	$dn_s/d\ln k$	-0.015 ± 0.017	$d_A(z_*)$	13983^{+95}_{-94} M
$D_v(z=0.57)/r_s(z_d)$	13.46 ± 0.13	η	$(6.11 \pm 0.13) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	13.37 ± 0.1
$k_{\rm eq}$	0.01013 ± 0.00018	$\ell_{\rm eq}$	141.6 ± 1.7	$k_{\rm eq}$	0.01008 ± 0.0
ℓ_*	302.43 ± 0.61	n_b	$(2.511 \pm 0.053) \times 10^{-7}$ cm^{-3}	ℓ_*	302.25 ± 0.6
n_s	1.001 ± 0.038	Ω_b	0.0474 ± 0.0010	n_s	0.996 ± 0.0
$\Omega_b h^2$	0.02236 ± 0.00047	Ω_c	0.247 ± 0.010	$\Omega_b h^2$	$0.02258^{+0.00}_{-0.00}$
$\Omega_c h^2$	0.1164 ± 0.0024	Ω_Λ	0.706 ± 0.011	$\Omega_c h^2$	0.1155 ± 0.0
Ω_m	0.294 ± 0.011	$\Omega_m h^2$	0.1388 ± 0.0025	Ω_m	0.287 ± 0.0
$r_s(z_d)$	$151.83^{+0.92}_{-0.93}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3390 ± 0.0047	$r_s(z_d)$	$151.82^{+0.92}_{-0.93}$ M
$r_s(z_d)/D_v(z=0.2)$	0.1853 ± 0.0024	$r_s(z_d)/D_v(z=0.35)$	0.1116 ± 0.0013	$r_s(z_d)/D_v(z=0.2)$	0.1870 ± 0.0
$r_s(z_d)/D_v(z=0.44)$	0.09172 ± 0.00096	$r_s(z_d)/D_v(z=0.54)$	$0.07755^{+0.00075}_{-0.00074}$	$r_s(z_d)/D_v(z=0.44)$	0.09239 ± 0.0
$r_s(z_d)/D_v(z=0.57)$	$0.07430^{+0.00070}_{-0.00069}$	$r_s(z_d)/D_v(z=0.6)$	0.07138 ± 0.00065	$r_s(z_d)/D_v(z=0.57)$	0.07478 ± 0.0
$r_s(z_d)/D_v(z=0.73)$	0.06160 ± 0.00050	$r_s(z_*)$	$145.27^{+0.76}_{-0.77}$	$r_s(z_d)/D_v(z=0.73)$	0.06195 ± 0.0
R	1.7375 ± 0.0067	σ_8	0.827 ± 0.018	R	1.7331 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.449 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.397 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.443 ± 0.0
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.25 ± 0.11	$\alpha_{\rm SNLS}$	1.43 ± 0.1
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.795 ± 0.089 Gyr	$A_{\rm SZ}$	< 2.0 (95% C
τ	0.091 ± 0.014	θ_*	0.010388 ± 0.000021	τ	0.092 ± 0.0
θ_*	0.5952 ± 0.0012 °	$\tau_{\rm rec}$	282.6 ± 1.3	θ_*	0.5955 ± 0.00
$t_{\rm reion}$	431^{+66}_{-67} Myr	t_*	373973^{+2194}_{-2185} yr	$t_{\rm reion}$	434^{+67}_{-68} My
z_d	1020.3 ± 1.1	$z_{\rm eq}$	3322^{+60}_{-61}	z_d	$1020.7 \pm 1.$
$z_{\rm rec}$	$1088.63^{+0.67}_{-0.68}$	$z_{\rm reion}$	10.9 ± 1.2	$z_{\rm rec}$	$1088.33 \pm 0.$
z_*	$1091.57^{+0.65}_{-0.66}$			z_*	$1091.19 \pm 0.$

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+spt+act+sn|s3

$10^9\,\Delta^2_{\mathcal{R}}$	2.328 ± 0.090	H_0	70.4 ± 1.6 km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.8 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5764 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14208 ± 88 Mpc	$d_A(z_*)$	14043 ± 89 Mpc
$dn_s/d\ln k$	-0.020 ± 0.011	$D_v(z=0.57)/r_s(z_d)$	13.20 ± 0.23
η	$(6.11 \pm 0.10) \times 10^{-10}$	$k_{\rm eq}$	0.00990 ± 0.00025
$\ell_{\rm eq}$	139.0 ± 2.6	ℓ_*	301.95 ± 0.42
$n_{\rm b}$	$(2.510^{+0.042}_{-0.041}) \times 10^{-7}$ cm^{-3}	n_s	1.016 ± 0.029
$\Omega_{\rm b}$	0.0451 ± 0.0017	$\Omega_{\rm b}h^2$	0.02235 ± 0.00037
$\Omega_{\rm c}$	0.229 ± 0.017	$\Omega_{\rm c}h^2$	0.1133 ± 0.0034
Ω_Λ	0.726 ± 0.019	Ω_m	0.274 ± 0.019
$\Omega_m h^2$	0.1357 ± 0.0034	$r_s(z_d)$	152.72 ± 0.97 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3488 ± 0.0088	$r_s(z_d)/D_v(z=0.2)$	0.1903 ± 0.0045
$r_s(z_d)/D_v(z=0.35)$	0.1143 ± 0.0024	$r_s(z_d)/D_v(z=0.44)$	0.0938 ± 0.0018
$r_s(z_d)/D_v(z=0.54)$	0.0791 ± 0.0014	$r_s(z_d)/D_v(z=0.57)$	0.0758 ± 0.0013
$r_s(z_d)/D_v(z=0.6)$	0.0728 ± 0.0012	$r_s(z_d)/D_v(z=0.73)$	0.06269 ± 0.00095
$r_s(z_*)$	146.10 ± 0.89	R	1.725 ± 0.012
σ_8	0.812 ± 0.017	$\sigma_8\Omega_m^{0.5}$	0.425 ± 0.021
$\sigma_8\Omega_m^{0.6}$	0.374 ± 0.021	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.730 ± 0.075 Gyr	τ	0.092 ± 0.014
θ_*	0.010404 ± 0.000014	θ_*	0.59612 ± 0.00083 °
$\tau_{\rm rec}$	284.3 ± 1.8	$t_{\rm reion}$	434^{+62}_{-63} Myr
t_*	376790^{+3145}_{-3147} yr	z_d	$1020.01^{+0.82}_{-0.83}$
$z_{\rm eq}$	3248 ± 80	$z_{\rm rec}$	$1088.42^{+0.66}_{-0.67}$
$z_{\rm reion}$	11.0 ± 1.2	z_*	1091.30 ± 0.64

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.309 ± 0.088	H_0	71.5 ± 1.4 km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.9 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5770 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14244^{+84}_{-83} Mpc	$d_A(z_*)$	14080^{+85}_{-84} Mpc
$dn_s/d\ln k$	-0.018 ± 0.011	$D_v(z=0.57)/r_s(z_d)$	$13.05^{+0.19}_{-0.20}$
η	$(6.149 \pm 0.097) \times 10^{-10}$	$k_{\rm eq}$	0.00976 ± 0.00022
$\ell_{\rm eq}$	137.4 ± 2.3	ℓ_*	301.82 ± 0.40
n_b	$(2.526 \pm 0.040) \times 10^{-7}$ cm^{-3}	n_s	1.014 ± 0.029
Ω_b	0.0441 ± 0.0015	$\Omega_b h^2$	0.02249 ± 0.00035
Ω_c	0.218 ± 0.014	$\Omega_c h^2$	0.1113 ± 0.0030
Ω_Λ	0.738 ± 0.015	Ω_m	0.262 ± 0.015
$\Omega_m h^2$	0.1338 ± 0.0030	$r_s(z_d)$	$153.15^{+0.92}_{-0.91}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3545 ± 0.0076	$r_s(z_d)/D_v(z=0.2)$	0.1932 ± 0.0039
$r_s(z_d)/D_v(z=0.35)$	0.1158 ± 0.0021	$r_s(z_d)/D_v(z=0.44)$	0.0949 ± 0.0016
$r_s(z_d)/D_v(z=0.54)$	0.0801 ± 0.0012	$r_s(z_d)/D_v(z=0.57)$	0.0766 ± 0.0011
$r_s(z_d)/D_v(z=0.6)$	0.0736 ± 0.0011	$r_s(z_d)/D_v(z=0.73)$	0.06331 ± 0.00083
$r_s(z_*)$	146.55 ± 0.82	R	1.717 ± 0.010
σ_8	0.806 ± 0.017	$\sigma_8\Omega_m^{0.5}$	0.413 ± 0.018
$\sigma_8\Omega_m^{0.6}$	0.361 ± 0.018	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.692 ± 0.068 Gyr	τ	$0.095^{+0.015}_{-0.014}$
θ_*	0.010409 ± 0.000014	θ_*	$0.59637^{+0.00080}_{-0.00079}$ °
$\tau_{\rm rec}$	285.3 ± 1.6	$t_{\rm reion}$	430^{+62}_{-63} Myr
t_*	378663^{+2773}_{-2778} yr	z_d	1020.13 ± 0.83
$z_{\rm eq}$	3202 ± 71	$z_{\rm rec}$	1088.13 ± 0.63
$z_{\rm reion}$	11.1 ± 1.2	z_*	$1090.94^{+0.56}_{-0.58}$

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+spt+act+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.353 ± 0.089	H_0	$68.82^{+0.83}_{-0.82}$ km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.6 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5758 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14142 ± 67 Mpc	$d_A(z_*)$	13976 ± 68 Mpc
$dn_s/d\ln k$	-0.023 ± 0.011	$D_v(z=0.57)/r_s(z_d)$	13.43 ± 0.12
η	$(6.069^{+0.092}_{-0.093}) \times 10^{-10}$	$k_{\rm eq}$	0.01013 ± 0.00015
$\ell_{\rm eq}$	141.6 ± 1.5	ℓ_*	$302.11^{+0.39}_{-0.40}$
$n_{\hat{\mathbf{0}}}$	$(2.493 \pm 0.038) \times 10^{-7}$ cm^{-3}	n_s	1.019 ± 0.029
Ω_b	0.04687 ± 0.00097	$\Omega_b h^2$	0.02220 ± 0.00034
Ω_c	0.2464 ± 0.0093	$\Omega_c h^2$	0.1167 ± 0.0020
Ω_Λ	0.707 ± 0.010	Ω_m	0.293 ± 0.010
$\Omega_m h^2$	0.1388 ± 0.0020	$r_s(z_d)$	151.95 ± 0.71 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3399^{+0.0044}_{-0.0043}$	$r_s(z_d)/D_v(z=0.2)$	0.1858 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1119 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09194 ± 0.00089
$r_s(z_d)/D_v(z=0.54)$	0.07773 ± 0.00069	$r_s(z_d)/D_v(z=0.57)$	0.07447 ± 0.00065
$r_s(z_d)/D_v(z=0.6)$	0.07154 ± 0.00060	$r_s(z_d)/D_v(z=0.73)$	0.06173 ± 0.00047
$r_s(z_*)$	145.33 ± 0.60	R	1.7370 ± 0.0060
σ_8	0.823 ± 0.014	$\sigma_8\Omega_m^{0.5}$	0.445 ± 0.013
$\sigma_8\Omega_m^{0.6}$	0.394 ± 0.013	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.781 ± 0.061 Gyr	τ	0.089 ± 0.013
θ_*	0.010399 ± 0.000014	θ_*	0.59581 ± 0.00078 $^\circ$
$\tau_{\rm rec}$	282.5 ± 1.1	$t_{\rm reion}$	438^{+63}_{-64} Myr
t_*	373763^{+1779}_{-1790} yr	z_d	$1019.96^{+0.81}_{-0.82}$
$z_{\rm eq}$	3323 ± 49	$z_{\rm rec}$	1088.81 ± 0.59
$z_{\rm reion}$	10.8 ± 1.1	z_*	$1091.80^{+0.49}_{-0.48}$

WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+spt+act+snls3+bao+h0

$10^9\,\Delta^2_{\mathcal{R}}$	2.340 ± 0.088	H_0	69.36 ± 0.79 km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.7 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5763 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14151 ± 67 Mpc	$d_A(z_*)$	13985^{+68}_{-67} Mpc
$dn_s/d\ln k$	-0.023 ± 0.011	$D_v(z=0.57)/r_s(z_d)$	13.36 ± 0.11
η	$(6.100^{+0.091}_{-0.092}) \times 10^{-10}$	$k_{\rm eq}$	0.01008 ± 0.00015
$\ell_{\rm eq}$	140.9 ± 1.4	ℓ_*	$302.01^{+0.39}_{-0.40}$
$n_{\rm h}$	$(2.506^{+0.037}_{-0.038}) \times 10^{-7}$ cm^{-3}	n_s	1.020 ± 0.029
$\Omega_{\rm b}$	0.04638 ± 0.00093	$\Omega_{\rm b}h^2$	$0.02231^{+0.00033}_{-0.00034}$
$\Omega_{\rm c}$	0.2408 ± 0.0087	$\Omega_{\rm c}h^2$	0.1158 ± 0.0019
Ω_Λ	0.7128 ± 0.0095	Ω_m	0.2872 ± 0.0095
$\Omega_m h^2$	0.1381 ± 0.0020	$r_s(z_d)$	$152.06^{+0.70}_{-0.71}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3426 ± 0.0042	$r_s(z_d)/D_v(z=0.2)$	0.1872 ± 0.0021
$r_s(z_d)/D_v(z=0.35)$	0.1126 ± 0.0011	$r_s(z_d)/D_v(z=0.44)$	0.09249 ± 0.00086
$r_s(z_d)/D_v(z=0.54)$	0.07816 ± 0.00067	$r_s(z_d)/D_v(z=0.57)$	0.07486 ± 0.00062
$r_s(z_d)/D_v(z=0.6)$	0.07191 ± 0.00058	$r_s(z_d)/D_v(z=0.73)$	0.06202 ± 0.00045
$r_s(z_*)$	145.48 ± 0.59	R	1.7333 ± 0.0058
σ_8	0.821 ± 0.014	$\sigma_8\Omega_m^{0.5}$	0.440 ± 0.012
$\sigma_8\Omega_m^{0.6}$	0.388 ± 0.012	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.754 ± 0.060 Gyr	τ	0.090 ± 0.014
θ_*	$0.010402^{+0.000014}_{-0.000013}$	θ_*	$0.59601^{+0.00078}_{-0.00077}\ ^\circ$
$\tau_{\rm rec}$	283.0 ± 1.0	$t_{\rm reion}$	435^{+63}_{-64} Myr
t_*	374546^{+1754}_{-1737} yr	z_d	$1020.14^{+0.81}_{-0.80}$
$z_{\rm eq}$	3305 ± 48	$z_{\rm rec}$	1088.63 ± 0.58
$z_{\rm reion}$	$10.9^{+1.2}_{-1.1}$	z_*	1091.57 ± 0.47

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9

$10^9 \Delta^2_{\mathcal{R}}$	2.26 ± 0.15	H_0	72.6 ± 2.9 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5750^{+36}_{-35} μK^2	$d_A(z_{\rm eq})$	14248 ± 123 Mpc
$d_A(z_*)$	14083^{+125}_{-124} Mpc	$D_v(z=0.57)/r_s(z_d)$	12.95 ± 0.39
η	$(6.34 \pm 0.18) \times 10^{-10}$	$k_{\rm eq}$	0.00969 ± 0.00037
$\ell_{\rm eq}$	136.4 ± 4.2	ℓ_*	302.02 ± 0.70
n_b	$(2.605 \pm 0.074) \times 10^{-7}$ cm^{-3}	n_s	0.992 ± 0.019
n_t	> -0.048 (95% CL)	Ω_b	0.0442 ± 0.0027
$\Omega_b h^2$	0.02320 ± 0.00066	Ω_c	0.210 ± 0.027
$\Omega_c h^2$	$0.1095^{+0.0054}_{-0.0056}$	Ω_Λ	0.746 ± 0.029
Ω_m	0.254 ± 0.029	$\Omega_m h^2$	0.1327 ± 0.0051
r	< 0.38 (95% CL)	$r_s(z_d)$	152.8 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.359 ± 0.016	$r_s(z_d)/D_v(z=0.2)$	0.1955 ± 0.0079
$r_s(z_d)/D_v(z=0.35)$	0.1170 ± 0.0042	$r_s(z_d)/D_v(z=0.44)$	0.0958 ± 0.0032
$r_s(z_d)/D_v(z=0.54)$	0.0808 ± 0.0025	$r_s(z_d)/D_v(z=0.57)$	0.0773 ± 0.0023
$r_s(z_d)/D_v(z=0.6)$	0.0742 ± 0.0022	$r_s(z_d)/D_v(z=0.73)$	0.0638 ± 0.0017
$r_s(z_*)$	146.5 ± 1.3	R	1.711 ± 0.020
σ_8	0.807 ± 0.026	$\sigma_8 \Omega_m^{0.5}$	0.407 ± 0.034
$\sigma_8 \Omega_m^{0.6}$	0.355 ± 0.034	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.63 ± 0.14 Gyr	τ	0.091 ± 0.014
θ_*	0.010402 ± 0.000024	θ_*	0.5960 ± 0.0014 $^\circ$
$\tau_{\rm rec}$	286.1 ± 2.9	$t_{\rm reion}$	462^{+65}_{-66} Myr
t_*	380278^{+5058}_{-5054} yr	z_d	1021.5 ± 1.3
$z_{\rm eq}$	3176 ± 122	$z_{\rm rec}$	$1087.33^{+0.98}_{-0.99}$
$z_{\rm reion}$	10.5 ± 1.1	z_*	$1089.9^{+1.1}_{-1.2}$

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+h0

$10^9\Delta^2_{\mathcal{R}}$	2.23 ± 0.11	H_0	73.2 ± 1.9 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14265 ± 110 Mpc
$d_A(z_*)$	14101 ± 112 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.87 ± 0.25
η	$(6.37 \pm 0.15) \times 10^{-10}$	$k_{\rm eq}$	0.00961 ± 0.00027
$\ell_{\rm eq}$	135.5 ± 2.9	ℓ_*	301.92 ± 0.62
n_δ	$(2.616 \pm 0.060) \times 10^{-7}$ cm^{-3}	n_s	0.995 ± 0.015
n_t	> -0.043 (95% CL)	Ω_b	0.0435 ± 0.0018
$\Omega_b h^2$	0.02329 ± 0.00053	Ω_c	0.203 ± 0.017
$\Omega_c h^2$	0.1084 ± 0.0038	Ω_Λ	0.753 ± 0.019
Ω_m	0.247 ± 0.019	$\Omega_m h^2$	0.1317 ± 0.0037
r	< 0.34 (95% CL)	$r_s(z_d)$	153.1 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.362 ± 0.010	$r_s(z_d)/D_v(z=0.2)$	0.1971 ± 0.0052
$r_s(z_d)/D_v(z=0.35)$	0.1179 ± 0.0028	$r_s(z_d)/D_v(z=0.44)$	0.0965 ± 0.0021
$r_s(z_d)/D_v(z=0.54)$	0.0813 ± 0.0016	$r_s(z_d)/D_v(z=0.57)$	0.0778 ± 0.0015
$r_s(z_d)/D_v(z=0.6)$	0.0746 ± 0.0014	$r_s(z_d)/D_v(z=0.73)$	0.0641 ± 0.0011
$r_s(z_*)$	146.7 ± 1.0	R	1.706 ± 0.013
σ_8	0.804 ± 0.022	$\sigma_8\Omega_m^{0.5}$	0.399 ± 0.024
$\sigma_8\Omega_m^{0.6}$	0.347 ± 0.023	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.60 ± 0.11 Gyr	τ	0.093 ± 0.014
θ_*	0.010405 ± 0.000021	θ_s	0.5962 ± 0.0012 °
$\tau_{\rm rec}$	286.6 ± 2.1	$t_{\rm reion}$	461^{+65}_{-66} Myr
t_*	381291^{+572}_{-577} yr	z_d	1021.6 ± 1.2
$z_{\rm eq}$	3151 ± 89	$z_{\rm rec}$	1087.15 ± 0.75
$z_{\rm reion}$	10.6 ± 1.1	z_*	1089.67 ± 0.80

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+bao

$10^9 \Delta^2_{\mathcal{R}}$	$2.409^{+0.087}_{-0.086}$	H_0	$68.93^{+0.95}_{-0.96}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5734 ± 33 μK^2	$d_A(z_{\rm eq})$	14139 ± 93 Mpc
$d_A(z_*)$	13973 ± 94 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.45 ± 0.13
η	$(6.19 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01013 ± 0.00018
$\ell_{\rm eq}$	141.6 ± 1.7	ℓ_*	302.49 ± 0.59
n_b	$(2.542 \pm 0.051) \times 10^{-7}$ cm^{-3}	n_s	0.973 ± 0.011
n_t	> -0.022 (95% CL)	Ω_b	0.0477 ± 0.0011
$\Omega_b h^2$	0.02264 ± 0.00045	Ω_c	0.245 ± 0.010
$\Omega_c h^2$	0.1162 ± 0.0024	Ω_Λ	0.708 ± 0.011
Ω_m	0.292 ± 0.011	$\Omega_m h^2$	0.1388 ± 0.0025
r	< 0.18 (95% CL)	$r_s(z_d)$	151.56 ± 0.93 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3395^{+0.0047}_{-0.0048}$	$r_s(z_d)/D_v(z=0.2)$	0.1856 ± 0.0024
$r_s(z_d)/D_v(z=0.35)$	0.1117 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	$0.09180^{+0.00097}_{-0.00098}$
$r_s(z_d)/D_v(z=0.54)$	$0.07761^{+0.00075}_{-0.00076}$	$r_s(z_d)/D_v(z=0.57)$	$0.07435^{+0.00070}_{-0.00071}$
$r_s(z_d)/D_v(z=0.6)$	0.07143 ± 0.00066	$r_s(z_d)/D_v(z=0.73)$	0.06163 ± 0.00051
$r_s(z_*)$	145.12 ± 0.77	R	$1.7364^{+0.0067}_{-0.0066}$
σ_8	0.831 ± 0.018	$\sigma_8 \Omega_m^{0.5}$	0.449 ± 0.015
$\sigma_8 \Omega_m^{0.6}$	0.397 ± 0.015	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.772 ± 0.089 Gyr	τ	0.086 ± 0.013
θ_*	0.010386 ± 0.000020	θ_*	0.5951 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	282.6 ± 1.3	$t_{\rm reion}$	461^{+66}_{-65} Myr
t_*	374144^{+2129}_{-2132} yr	z_d	1020.9 ± 1.1
$z_{\rm eq}$	3323 ± 60	$z_{\rm rec}$	$1088.32^{+0.84}_{-0.85}$
$z_{\rm reion}$	10.4 ± 1.1	z_*	$1091.17^{+0.60}_{-0.59}$

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.377^{+0.085}_{-0.086}$	H_0	69.61 ± 0.91 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5740 ± 33 μK^2	$d_A(z_{\rm eq})$	14136 ± 93 Mpc
$d_A(z_*)$	13970 ± 94 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.37 ± 0.12
η	$(6.24 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01009 ± 0.00018
$\ell_{\rm eq}$	140.9 ± 1.7	ℓ_*	302.30 ± 0.59
n_b	$(2.564 \pm 0.050) \times 10^{-7}$ cm^{-3}	n_s	0.978 ± 0.011
n_t	> -0.025 (95% CL)	Ω_b	0.0471 ± 0.0010
$\Omega_b h^2$	0.02283 ± 0.00045	Ω_c	0.2383 ± 0.0094
$\Omega_c h^2$	0.1154 ± 0.0023	Ω_Λ	0.715 ± 0.010
Ω_m	0.285 ± 0.010	$\Omega_m h^2$	0.1382 ± 0.0025
r	< 0.20 (95% CL)	$r_s(z_d)$	$151.56^{+0.92}_{-0.93}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3426 ± 0.0045	$r_s(z_d)/D_v(z=0.2)$	0.1872 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1126 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09244^{+0.00092}_{-0.00093}$
$r_s(z_d)/D_v(z=0.54)$	0.07811 ± 0.00072	$r_s(z_d)/D_v(z=0.57)$	0.07481 ± 0.00067
$r_s(z_d)/D_v(z=0.6)$	0.07186 ± 0.00063	$r_s(z_d)/D_v(z=0.73)$	$0.06196^{+0.00048}_{-0.00049}$
$r_s(z_*)$	$145.18^{+0.76}_{-0.77}$	R	1.7323 ± 0.0062
σ_8	0.830 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.444 ± 0.015
$\sigma_8\Omega_m^{0.6}$	0.391 ± 0.014	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.729^{+0.086}_{-0.087}$ Gyr	τ	0.087 ± 0.013
θ_*	0.010393 ± 0.000020	θ_*	0.5954 ± 0.0012 °
$\tau_{\rm rec}$	283.0 ± 1.3	$t_{\rm reion}$	459 ± 65 Myr
t_*	374842^{+2099}_{-2102} yr	z_d	1021.3 ± 1.1
$z_{\rm eq}$	3309 ± 59	$z_{\rm rec}$	$1088.07^{+0.62}_{-0.63}$
$z_{\rm reion}$	10.4 ± 1.1	z_*	1090.85 ± 0.57

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	$2.382^{+0.092}_{-0.091}$	H_0	71.2 ± 1.8 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5744 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14255 ± 89 Mpc	$d_A(z_*)$	14090 ± 90 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.08 ± 0.25	η	$(6.13 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	0.00976 ± 0.00026	$\ell_{\rm eq}$	137.6 ± 2.8
ℓ_*	301.98 ± 0.42	n_b	$(2.518 \pm 0.044) \times 10^{-7}$ cm^{-3}
n_s	0.970 ± 0.011	n_t	> -0.021 (95% CL)
Ω_b	0.0443 ± 0.0018	$\Omega_b h^2$	0.02242 ± 0.00039
Ω_c	0.220 ± 0.018	$\Omega_c h^2$	0.1114 ± 0.0036
Ω_Λ	0.735 ± 0.019	Ω_m	0.265 ± 0.019
$\Omega_m h^2$	0.1338 ± 0.0035	r	< 0.17 (95% CL)
$r_s(z_d)$	$153.21^{+0.98}_{-0.99}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3535 ± 0.0097
$r_s(z_d)/D_v(z=0.2)$	0.1927 ± 0.0049	$r_s(z_d)/D_v(z=0.35)$	0.1155 ± 0.0026
$r_s(z_d)/D_v(z=0.44)$	0.0947 ± 0.0020	$r_s(z_d)/D_v(z=0.54)$	0.0799 ± 0.0016
$r_s(z_d)/D_v(z=0.57)$	$0.0765^{+0.0014}_{-0.0015}$	$r_s(z_d)/D_v(z=0.6)$	0.0734 ± 0.0014
$r_s(z_d)/D_v(z=0.73)$	$0.0632^{+0.0010}_{-0.0011}$	$r_s(z_*)$	146.58 ± 0.92
R	1.719 ± 0.013	σ_8	0.806 ± 0.017
$\sigma_8\Omega_m^{0.5}$	0.415 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.363 ± 0.022
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.715 ± 0.080 Gyr
τ	0.085 ± 0.013	θ_*	0.010403 ± 0.000014
θ_*	$0.59606 \pm 0.00083\ ^\circ$	$\tau_{\rm rec}$	285.3 ± 1.9
$t_{\rm reion}$	477 ± 66 Myr	t_*	378604^{+3356}_{-3362} yr
z_d	1019.98 ± 0.83	$z_{\rm eq}$	3202 ± 84
$z_{\rm rec}$	1088.21 ± 0.70	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1091.03^{+0.71}_{-0.70}$		

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	2.350 ± 0.085	H_0	$72.1^{+1.4}_{-1.5}$ km/s/Mpc
$A_{\rm clustered}$	< 10.0 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5750 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14285 ± 82 Mpc	$d_A(z_*)$	14121^{+83}_{-84} Mpc
$D_v(z=0.57)/r_s(z_d)$	12.95 ± 0.20	η	$(6.166 \pm 0.100) \times 10^{-10}$
$k_{\rm eq}$	0.00965 ± 0.00022	$\ell_{\rm eq}$	$136.2^{+2.4}_{-2.3}$
ℓ_*	301.87 ± 0.40	n_b	$(2.533 \pm 0.041) \times 10^{-7}$ cm^{-3}
n_s	0.9745 ± 0.0100	n_t	> -0.023 (95% CL)
Ω_b	0.0434 ± 0.0015	$\Omega_b h^2$	0.02255 ± 0.00036
Ω_c	0.211 ± 0.014	$\Omega_c h^2$	$0.1096^{+0.0031}_{-0.0030}$
Ω_Λ	0.745 ± 0.015	Ω_m	0.255 ± 0.015
$\Omega_m h^2$	0.1322 ± 0.0030	r	< 0.19 (95% CL)
$r_s(z_d)$	153.56 ± 0.91 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3584^{+0.0080}_{-0.0081}$
$r_s(z_d)/D_v(z=0.2)$	0.1952 ± 0.0041	$r_s(z_d)/D_v(z=0.35)$	0.1169 ± 0.0022
$r_s(z_d)/D_v(z=0.44)$	0.0957 ± 0.0017	$r_s(z_d)/D_v(z=0.54)$	0.0807 ± 0.0013
$r_s(z_d)/D_v(z=0.57)$	0.0772 ± 0.0012	$r_s(z_d)/D_v(z=0.6)$	0.0741 ± 0.0011
$r_s(z_d)/D_v(z=0.73)$	0.06372 ± 0.00088	$r_s(z_*)$	146.95 ± 0.82
R	1.712 ± 0.011	σ_8	0.800 ± 0.017
$\sigma_8\Omega_m^{0.5}$	0.404 ± 0.019	$\sigma_8\Omega_m^{0.6}$	0.352 ± 0.018
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.681 ± 0.071 Gyr
τ	0.087 ± 0.013	θ_*	0.010407 ± 0.000014
θ_*	0.59628 ± 0.00078 °	$\tau_{\rm rec}$	$286.2^{+1.6}_{-1.7}$
$t_{\rm reion}$	472^{+64}_{-65} Myr	t_*	380203^{+2847}_{-2868} yr
z_d	$1020.10^{+0.84}_{-0.82}$	$z_{\rm eq}$	3164^{+72}_{-71}
$z_{\rm rec}$	$1087.96^{+0.64}_{-0.65}$	$z_{\rm reion}$	$10.4^{+1.0}_{-1.1}$
z_*	1090.71 ± 0.60		

WMAP Cosmological Parameters Model: lcdm+tens Data: wmap9+spt+act+bao				WMA Data
$10^9\Delta^2_{\mathcal{R}}$	$2.460^{+0.073}_{-0.074}$	H_0	$68.90^{+0.85}_{-0.84}$ km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	$2.439^{+0.07}_{-0.07}$
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3	$A_{\rm clustered}$	< 10.0 (95%
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5732 \pm 32\ \mu{\rm K}^2$	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% C
$d_A(z_{\rm eq})$	14166^{+65}_{-66} Mpc	$d_A(z_*)$	13999^{+66}_{-67} Mpc	$d_A(z_{\rm eq})$	14175 ± 65 M
$D_v(z=0.57)/r_s(z_d)$	13.41 ± 0.12	η	$(6.061^{+0.093}_{-0.092}) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	13.34 ± 0.1
$k_{\rm eq}$	0.01009 ± 0.00015	$\ell_{\rm eq}$	141.2 ± 1.5	$k_{\rm eq}$	0.01003 ± 0.0
ℓ_*	$302.22^{+0.39}_{-0.38}$	$n_{\rm b}$	$(2.489 \pm 0.038) \times 10^{-7}$ cm^{-3}	ℓ_*	$302.12 \pm 0.$
n_s	0.9606 ± 0.0084	n_t	> -0.015 (95% CL)	n_s	0.9636 ± 0.0
$\Omega_{\rm b}$	0.04670 ± 0.00097	$\Omega_{\rm b}h^2$	0.02217 ± 0.00034	$\Omega_{\rm b}$	$0.04621^{+0.00}_{-0.00}$
$\Omega_{\rm c}$	0.2446 ± 0.0094	$\Omega_{\rm c}h^2$	0.1160 ± 0.0020	$\Omega_{\rm c}$	0.2388 ± 0.0
Ω_Λ	0.709 ± 0.010	Ω_m	0.291 ± 0.010	Ω_Λ	$0.7150^{+0.00}_{-0.00}$
$\Omega_m h^2$	0.1382 ± 0.0020	r	< 0.12 (95% CL)	$\Omega_m h^2$	0.1374 ± 0.0
$r_s(z_d)$	$152.16^{+0.69}_{-0.68}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3407^{+0.0045}_{-0.0044}$	$r_s(z_d)$	152.28 ± 0.69
$r_s(z_d)/D_v(z=0.2)$	0.1862 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1121 ± 0.0012	$r_s(z_d)/D_v(z=0.2)$	0.1876 ± 0.0
$r_s(z_d)/D_v(z=0.44)$	0.09209 ± 0.00091	$r_s(z_d)/D_v(z=0.54)$	$0.07785^{+0.00070}_{-0.00071}$	$r_s(z_d)/D_v(z=0.44)$	0.09266 ± 0.0
$r_s(z_d)/D_v(z=0.57)$	0.07458 ± 0.00066	$r_s(z_d)/D_v(z=0.6)$	0.07164 ± 0.00062	$r_s(z_d)/D_v(z=0.57)$	0.07498 ± 0.0
$r_s(z_d)/D_v(z=0.73)$	0.06181 ± 0.00048	$r_s(z_*)$	145.52 ± 0.58	$r_s(z_d)/D_v(z=0.73)$	$0.06210^{+0.00}_{-0.00}$
R	1.7357 ± 0.0061	σ_8	0.821 ± 0.013	R	1.7320 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.443 ± 0.013	$\sigma_8\Omega_m^{0.6}$	0.392 ± 0.012	$\sigma_8\Omega_m^{0.5}$	0.437 ± 0.0
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.792 ± 0.061 Gyr	$A_{\rm SZ}$	< 1.0 (95% C
τ	0.079 ± 0.012	θ_*	0.010395 ± 0.000013	τ	0.080 ± 0.0
θ_*	$0.59559^{+0.00076}_{-0.00077}$ ○	$\tau_{\rm rec}$	282.9 ± 1.0	θ_*	$0.59579^{+0.000}_{-0.000}$
$t_{\rm reion}$	491^{+68}_{-69} Myr	t_*	374329^{+1763}_{-1771} yr	$t_{\rm reion}$	487^{+67}_{-68} My
z_d	$1019.83^{+0.81}_{-0.80}$	$z_{\rm eq}$	3308 ± 48	z_d	$1020.03^{+0.}_{-0.}$
$z_{\rm rec}$	$1088.80^{+0.58}_{-0.59}$	$z_{\rm reion}$	9.9 ± 1.0	$z_{\rm rec}$	1088.61 ± 0
z_*	$1091.79^{+0.49}_{-0.50}$			z_*	1091.55 ± 0

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.22 ± 0.13	H_0	73.5 ± 2.5 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5754^{+35}_{-34} μK^2	$d_A(z_{\rm eq})$	14276 ± 112 Mpc
$d_A(z_*)$	14112 ± 114 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.83 ± 0.32
η	$(6.38 \pm 0.17) \times 10^{-10}$	$k_{\rm eq}$	0.00957 ± 0.00031
$\ell_{\rm eq}$	135.1 ± 3.5	ℓ_*	$301.92^{+0.67}_{-0.68}$
n_{δ}	$(2.620^{+0.071}_{-0.070}) \times 10^{-7}$ cm^{-3}	n_s	0.996 ± 0.018
$n_{\rm t}$	> -0.049 (95% CL)	$\Omega_{\rm b}$	0.0433 ± 0.0022
$\Omega_{\rm b}h^2$	0.02333 ± 0.00063	$\Omega_{\rm c}$	0.201 ± 0.021
$\Omega_{\rm c}h^2$	0.1078 ± 0.0045	Ω_Λ	0.756 ± 0.023
Ω_m	0.244 ± 0.023	$\Omega_m h^2$	0.1312 ± 0.0042
r	< 0.39 (95% CL)	$r_s(z_d)$	153.2 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.364 ± 0.013	$r_s(z_d)/D_v(z=0.2)$	0.1979 ± 0.0066
$r_s(z_d)/D_v(z=0.35)$	0.1183 ± 0.0036	$r_s(z_d)/D_v(z=0.44)$	0.0968 ± 0.0027
$r_s(z_d)/D_v(z=0.54)$	0.0815 ± 0.0021	$r_s(z_d)/D_v(z=0.57)$	0.0780 ± 0.0020
$r_s(z_d)/D_v(z=0.6)$	$0.0748^{+0.0018}_{-0.0019}$	$r_s(z_d)/D_v(z=0.73)$	0.0643 ± 0.0014
$r_s(z_*)$	146.8 ± 1.1	R	1.704 ± 0.017
σ_8	0.801 ± 0.023	$\sigma_8\Omega_m^{0.5}$	0.396 ± 0.028
$\sigma_8\Omega_m^{0.6}$	0.344 ± 0.028	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.60 ± 0.13 Gyr	τ	0.093 ± 0.014
θ_*	0.010406 ± 0.000023	θ_*	0.5962 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	286.9 ± 2.4	$t_{\rm reion}$	462^{+65}_{-66} Myr
t_*	381796^{+4220}_{-4219} yr	z_d	1021.7 ± 1.3
$z_{\rm eq}$	3140 ± 102	$z_{\rm rec}$	$1087.09^{+0.88}_{-0.89}$
$z_{\rm reion}$	10.6 ± 1.1	z_*	1089.6 ± 1.0

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.22 ± 0.11	H_0	73.5 ± 1.7 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5755 \pm 33\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14278 ± 106 Mpc
$d_A(z_*)$	14115 ± 107 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.82 ± 0.23
η	$(6.38 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	0.00956 ± 0.00025
$\ell_{\rm eq}$	134.9 ± 2.6	ℓ_*	301.90 ± 0.61
n_{δ}	$(2.621 \pm 0.059) \times 10^{-7}$ cm^{-3}	n_s	0.997 ± 0.015
n_t	> -0.044 (95% CL)	Ω_b	0.0432 ± 0.0016
$\Omega_b h^2$	0.02334 ± 0.00053	Ω_c	0.200 ± 0.015
$\Omega_c h^2$	0.1077 ± 0.0035	Ω_Λ	0.757 ± 0.017
Ω_m	0.243 ± 0.017	$\Omega_m h^2$	0.1310 ± 0.0034
r	< 0.36 (95% CL)	$r_s(z_d)$	153.2 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3642 ± 0.0092	$r_s(z_d)/D_v(z=0.2)$	0.1981 ± 0.0047
$r_s(z_d)/D_v(z=0.35)$	0.1184 ± 0.0025	$r_s(z_d)/D_v(z=0.44)$	0.0969 ± 0.0019
$r_s(z_d)/D_v(z=0.54)$	0.0816 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0781 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0749 ± 0.0013	$r_s(z_d)/D_v(z=0.73)$	0.0643 ± 0.0010
$r_s(z_*)$	146.88 ± 0.97	R	1.704 ± 0.012
σ_8	0.801 ± 0.021	$\sigma_8\Omega_m^{0.5}$	0.395 ± 0.021
$\sigma_8\Omega_m^{0.6}$	0.343 ± 0.021	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.59 ± 0.10 Gyr	τ	0.093 ± 0.014
θ_*	0.010406 ± 0.000021	θ_*	0.5962 ± 0.0012 °
$\tau_{\rm rec}$	287.0 ± 1.9	$t_{\rm reion}$	461 ± 65 Myr
t_*	381953^{+3270}_{-3274} yr	z_d	1021.7 ± 1.2
$z_{\rm eq}$	3135 ± 82	$z_{\rm rec}$	1087.06 ± 0.73
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1089.55^{+0.75}_{-0.76}$

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.394^{+0.088}_{-0.087}$	H_0	$69.26^{+0.94}_{-0.95}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5735 ± 33 μK^2	$d_A(z_{\rm eq})$	14154 ± 93 Mpc
$d_A(z_*)$	13988 ± 94 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.40 ± 0.12
η	$(6.20^{+0.12}_{-0.13}) \times 10^{-10}$	$k_{\rm eq}$	0.01008 ± 0.00018
$\ell_{\rm eq}$	141.0 ± 1.7	ℓ_*	302.48 ± 0.59
n_{δ}	$(2.548^{+0.051}_{-0.052}) \times 10^{-7}$ cm^{-3}	n_s	$0.975^{+0.011}_{-0.012}$
n_t	> -0.023 (95% CL)	Ω_b	0.0473 ± 0.0010
$\Omega_b h^2$	0.02269 ± 0.00046	Ω_c	0.2408 ± 0.0097
$\Omega_c h^2$	0.1154 ± 0.0023	Ω_Λ	0.712 ± 0.011
Ω_m	0.288 ± 0.011	$\Omega_m h^2$	$0.1381^{+0.0024}_{-0.0025}$
r	< 0.19 (95% CL)	$r_s(z_d)$	151.72 ± 0.93 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3414 ± 0.0046	$r_s(z_d)/D_v(z=0.2)$	0.1865 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1122 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09218^{+0.00094}_{-0.00095}$
$r_s(z_d)/D_v(z=0.54)$	$0.07790^{+0.00073}_{-0.00074}$	$r_s(z_d)/D_v(z=0.57)$	$0.07462^{+0.00068}_{-0.00069}$
$r_s(z_d)/D_v(z=0.6)$	0.07168 ± 0.00064	$r_s(z_d)/D_v(z=0.73)$	$0.06182^{+0.00049}_{-0.00050}$
$r_s(z_*)$	145.28 ± 0.77	R	1.7338 ± 0.0064
σ_8	0.828 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.444 ± 0.015
$\sigma_8\Omega_m^{0.6}$	0.392 ± 0.014	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.762 ± 0.089 Gyr	τ	0.086 ± 0.013
θ_*	0.010386 ± 0.000020	θ_*	0.5951 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	283.0 ± 1.3	$t_{\rm reion}$	460^{+65}_{-66} Myr
t_*	374828^{+2099}_{-2087} yr	z_d	1021.0 ± 1.1
$z_{\rm eq}$	3306 ± 59	$z_{\rm rec}$	1088.22 ± 0.64
$z_{\rm reion}$	10.4 ± 1.1	z_*	1091.05 ± 0.59

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.365 ± 0.086	H_0	$69.88^{+0.88}_{-0.89}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5741^{+32}_{-33} μK^2	$d_A(z_{\rm eq})$	14149^{+93}_{-92} Mpc
$d_A(z_*)$	13983^{+94}_{-93} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.33 ± 0.12
η	$(6.25 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01005 ± 0.00018
$\ell_{\rm eq}$	140.5 ± 1.6	ℓ_*	302.30 ± 0.58
n_b	$(2.568 \pm 0.050) \times 10^{-7}$ cm^{-3}	n_s	0.979 ± 0.011
n_t	> -0.026 (95% CL)	Ω_b	0.04684 ± 0.00099
$\Omega_b h^2$	$0.02287^{+0.00044}_{-0.00045}$	Ω_c	0.2352 ± 0.0090
$\Omega_c h^2$	0.1148 ± 0.0023	Ω_Λ	0.7180 ± 0.0098
Ω_m	0.2820 ± 0.0098	$\Omega_m h^2$	0.1376 ± 0.0024
r	< 0.21 (95% CL)	$r_s(z_d)$	$151.70^{+0.96}_{-0.92}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3441 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	0.1879 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1130 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09275 ± 0.00090
$r_s(z_d)/D_v(z=0.54)$	0.07834 ± 0.00070	$r_s(z_d)/D_v(z=0.57)$	$0.07503^{+0.00066}_{-0.00065}$
$r_s(z_d)/D_v(z=0.6)$	0.07207 ± 0.00061	$r_s(z_d)/D_v(z=0.73)$	0.06212 ± 0.00047
$r_s(z_*)$	145.32 ± 0.76	R	1.7302 ± 0.0061
σ_8	0.828 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.440 ± 0.014
$\sigma_8\Omega_m^{0.6}$	0.387 ± 0.014	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.722 ± 0.086 Gyr	τ	0.088 ± 0.013
θ_*	0.010393 ± 0.000020	θ_*	0.5954 ± 0.0011 $^\circ$
$\tau_{\rm rec}$	283.3 ± 1.2	$t_{\rm reion}$	459^{+64}_{-65} Myr
t_*	375413^{+2065}_{-2062} yr	z_d	1021.3 ± 1.1
$z_{\rm eq}$	3294 ± 58	$z_{\rm rec}$	$1087.99^{+0.62}_{-0.63}$
$z_{\rm reion}$	10.5 ± 1.1	z_*	1090.75 ± 0.57

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	$2.360^{+0.089}_{-0.088}$	H_0	71.8 ± 1.6 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5748 ± 32 μK^2
$d_A(z_{\rm eq})$	14280 ± 84 Mpc	$d_A(z_*)$	14116 ± 86 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.99 ± 0.23	η	$(6.15 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00967 ± 0.00023	$\ell_{\rm eq}$	136.5 ± 2.5
ℓ_*	$301.93^{+0.42}_{-0.41}$	$n_{\rm b}$	$(2.526 \pm 0.043) \times 10^{-7}$ cm^{-3}
n_s	0.973 ± 0.010	n_t	> -0.023 (95% CL)
$\Omega_{\rm b}$	0.0437 ± 0.0016	$\Omega_{\rm b}h^2$	0.02250 ± 0.00038
$\Omega_{\rm c}$	0.214 ± 0.016	$\Omega_{\rm c}h^2$	0.1100 ± 0.0033
Ω_Λ	0.742 ± 0.017	Ω_m	0.258 ± 0.017
$\Omega_m h^2$	0.1325 ± 0.0032	r	< 0.18 (95% CL)
$r_s(z_d)$	153.50 ± 0.93 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3570 ± 0.0089
$r_s(z_d)/D_v(z=0.2)$	0.1945 ± 0.0045	$r_s(z_d)/D_v(z=0.35)$	0.1165 ± 0.0024
$r_s(z_d)/D_v(z=0.44)$	0.0955 ± 0.0018	$r_s(z_d)/D_v(z=0.54)$	0.0805 ± 0.0014
$r_s(z_d)/D_v(z=0.57)$	0.0770 ± 0.0013	$r_s(z_d)/D_v(z=0.6)$	$0.0739^{+0.0012}_{-0.0015}$
$r_s(z_d)/D_v(z=0.73)$	0.06357 ± 0.00097	$r_s(z_*)$	$146.88^{+0.85}_{-0.86}$
R	1.714 ± 0.012	σ_8	0.801 ± 0.017
$\sigma_8\Omega_m^{0.5}$	0.407 ± 0.020	$\sigma_8\Omega_m^{0.6}$	0.355 ± 0.020
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.694 ± 0.077 Gyr
τ	0.086 ± 0.013	θ_*	0.010405 ± 0.000014
θ_*	0.59617 ± 0.00082 $^\circ$	$\tau_{\rm rec}$	286.0 ± 1.8
$t_{\rm reion}$	473^{+65}_{-66} Myr	t_*	379817^{+3064}_{-3077} yr
$z_{\rm d}$	1020.02 ± 0.83	$z_{\rm eq}$	3172 ± 76
$z_{\rm rec}$	$1088.04^{+0.68}_{-0.67}$	$z_{\rm reion}$	10.4 ± 1.1
z_*	1090.82 ± 0.65		

WMAP Cosmological Parameters Model: lcdm+tens Data: wmap9+spt+act+snls3+h0				WMAP Data: w
$10^9\Delta^2_{\mathcal{R}}$	2.338 ± 0.083	H_0	72.4 ± 1.4 km/s/Mpc	$10^9\Delta^2_R$	2.450 ± 0.07
$A_{\rm clustered}$	< 9.9 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.3	$A_{\rm clustered}$	< 10 (95% C
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5752 \pm 32\ \mu{\rm K}^2$	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% C
$d_A(z_{\rm eq})$	14300 ± 80 Mpc	$d_A(z_*)$	14136 ± 81 Mpc	$d_A(z_{\rm eq})$	14180^{+66}_{-65} Mp
$D_v(z=0.57)/r_s(z_d)$	12.91 ± 0.19	η	$(6.175^{+0.098}_{-0.099}) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	$13.37^{+0.11}_{-0.12}$
$k_{\rm eq}$	0.00960 ± 0.00020	$\ell_{\rm eq}$	135.7 ± 2.2	$k_{\rm eq}$	0.01004 ± 0.00
ℓ_*	301.85 ± 0.40	n_b	$(2.536^{+0.040}_{-0.041}) \times 10^{-7}$ cm^{-3}	ℓ_*	302.22 ± 0.3
n_s	0.9759 ± 0.0097	n_t	> -0.024 (95% CL)	n_s	0.9619 ± 0.00
Ω_b	0.0431 ± 0.0014	$\Omega_b h^2$	0.02258 ± 0.00036	Ω_b	$0.04639^{+0.000}_{-0.000}$
Ω_c	0.208 ± 0.013	$\Omega_c h^2$	$0.1089^{+0.0029}_{-0.0028}$	Ω_c	0.2411 ± 0.00
Ω_Λ	0.749 ± 0.014	Ω_m	0.251 ± 0.014	Ω_Λ	0.7125 ± 0.00
$\Omega_m h^2$	0.1315 ± 0.0028	τ	< 0.19 (95% CL)	$\Omega_m h^2$	0.1375 ± 0.00
$r_s(z_d)$	153.73 ± 0.87 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3603^{+0.0075}_{-0.0076}$	$r_s(z_d)$	152.31 ± 0.69 M
$r_s(z_d)/D_v(z=0.2)$	$0.1962^{+0.0058}_{-0.0039}$	$r_s(z_d)/D_v(z=0.35)$	$0.1174^{+0.0020}_{-0.0021}$	$r_s(z_d)/D_v(z=0.2)$	0.1870 ± 0.00
$r_s(z_d)/D_v(z=0.44)$	0.0961 ± 0.0016	$r_s(z_d)/D_v(z=0.54)$	0.0810 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09242 ± 0.00
$r_s(z_d)/D_v(z=0.57)$	0.0775 ± 0.0011	$r_s(z_d)/D_v(z=0.6)$	0.0744 ± 0.0011	$r_s(z_d)/D_v(z=0.57)$	0.07481 ± 0.00
$r_s(z_d)/D_v(z=0.73)$	$0.06393^{+0.00082}_{-0.00083}$	$r_s(z_*)$	147.12 ± 0.78	$r_s(z_d)/D_v(z=0.73)$	0.06198 ± 0.00
R	1.7096 ± 0.0099	σ_8	0.798 ± 0.016	R	1.7335 ± 0.00
$\sigma_8\Omega_m^{0.5}$	$0.400^{+0.018}_{-0.017}$	$\sigma_8\Omega_m^{0.6}$	0.348 ± 0.017	$\sigma_8\Omega_m^{0.5}$	0.439 ± 0.01
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.671 ± 0.069 Gyr	$A_{\rm SZ}$	< 1.0 (95% C
τ	0.088 ± 0.013	θ_*	0.010408 ± 0.000014	τ	0.080 ± 0.01
θ_*	$0.59633^{+0.00078}_{-0.00079}$ ◦	$\tau_{\rm rec}$	$286.6^{+1.5}_{-1.6}$	θ_*	0.59559 ± 0.000
$t_{\rm reion}$	470^{+64}_{-65} Myr	t_*	380856^{+2682}_{-2688} yr	$t_{\rm reion}$	487^{+66}_{-68} Myr
z_d	$1020.11^{+0.82}_{-0.83}$	$z_{\rm eq}$	3148 ± 67	z_d	1019.85 ± 0.8
$z_{\rm rec}$	1087.87 ± 0.63	$z_{\rm reion}$	10.4 ± 1.1	$z_{\rm rec}$	1088.71 ± 0.5
z_*	$1090.61^{+0.57}_{-0.58}$			z_*	1091.68 ± 0.5

WMAP Cosmological Parameters

Model: lcdm+tens

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.431^{+0.075}_{-0.074}$	H_0	$69.69^{+0.79}_{-0.78}$ km/s/Mpc
$A_{\rm clustered}$	< 10.0 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.1 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5739 ± 31 μK^2
$d_A(z_{\rm eq})$	14187 ± 65 Mpc	$d_A(z_*)$	14021^{+65}_{-66} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.30 ± 0.11	η	$(6.101^{+0.093}_{-0.092}) \times 10^{-10}$
$k_{\rm eq}$	0.00999 ± 0.00014	$\ell_{\rm eq}$	140.1 ± 1.4
ℓ_*	302.12 ± 0.39	n_b	$(2.506 \pm 0.038) \times 10^{-7}$ cm^{-3}
n_s	$0.9647^{+0.0083}_{-0.0084}$	n_t	> -0.016 (95% CL)
Ω_b	$0.04596^{+0.00091}_{-0.00090}$	$\Omega_b h^2$	0.02231 ± 0.00034
Ω_c	0.2360 ± 0.0084	$\Omega_c h^2$	$0.1146^{+0.0018}_{-0.0019}$
Ω_Λ	0.7180 ± 0.0091	Ω_m	0.2820 ± 0.0091
$\Omega_m h^2$	0.1369 ± 0.0019	r	< 0.13 (95% CL)
$r_s(z_d)$	152.41 ± 0.69 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3448 ± 0.0042
$r_s(z_d)/D_v(z=0.2)$	0.1883 ± 0.0021	$r_s(z_d)/D_v(z=0.35)$	0.1132 ± 0.0011
$r_s(z_d)/D_v(z=0.44)$	0.09293 ± 0.00086	$r_s(z_d)/D_v(z=0.54)$	0.07849 ± 0.00066
$r_s(z_d)/D_v(z=0.57)$	0.07518 ± 0.00062	$r_s(z_d)/D_v(z=0.6)$	0.07221 ± 0.00058
$r_s(z_d)/D_v(z=0.73)$	0.06224 ± 0.00045	$r_s(z_*)$	145.80 ± 0.57
R	$1.7301^{+0.0056}_{-0.0057}$	σ_8	$0.817^{+0.014}_{-0.013}$
$\sigma_8\Omega_m^{0.5}$	0.434 ± 0.012	$\sigma_8\Omega_m^{0.6}$	0.382 ± 0.012
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	$13.759^{+0.060}_{-0.059}$ Gyr
τ	0.081 ± 0.012	θ_*	$0.010398^{+0.000014}_{-0.000015}$
θ_s	$0.59578^{+0.00078}_{-0.00077}$ °	$\tau_{\rm rec}$	283.6 ± 1.0
$t_{\rm reion}$	484^{+66}_{-67} Myr	t_*	375644^{+1700}_{-1685} yr
z_d	1020.04 ± 0.81	$z_{\rm eq}$	3276 ± 46
$z_{\rm rec}$	$1088.54^{+0.57}_{-0.58}$	$z_{\rm reion}$	10.1 ± 1.0
z_*	1091.46 ± 0.47		

WMAP Cosmological Parameters Model: lcdm+run+tens Data: wmap9				WMA	
$10^9\Delta^2_{\mathcal{R}}$	2.20 ± 0.17	H_0	70.0 ± 3.8 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.15 ± 0.16
$\ell(\ell+1)C_{220}/(2\pi)$	$5753 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14145 ± 155 Mpc	$\ell(\ell+1)C_{220}/(2\pi)$	$5760 \pm 35\ \mu$
$d_A(z_*)$	13979 ± 157 Mpc	$dn_s/d\ln k$	-0.032 ± 0.028	$d_A(z_*)$	14065 ± 121
$D_v(z=0.57)/r_s(z_d)$	13.31 ± 0.53	η	$(6.21 \pm 0.22) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	12.94 ± 0.2
$k_{\rm eq}$	0.01006 ± 0.00052	$\ell_{\rm eq}$	140.6 ± 5.9	$k_{\rm eq}$	0.00971 ± 0.00
ℓ_*	302.08 ± 0.71	$n_{\rm b}$	$(2.549 \pm 0.091) \times 10^{-7}$ cm^{-3}	ℓ_*	301.80 ± 0.6
n_s	1.058 ± 0.063	n_t	> -0.063 (95% CL)	n_s	1.043 ± 0.06
Ω_b	0.0466 ± 0.0037	$\Omega_b h^2$	0.02270 ± 0.00081	Ω_b	0.0440 ± 0.00
Ω_c	0.239 ± 0.041	$\Omega_c h^2$	0.1151 ± 0.0078	Ω_c	0.209 ± 0.01
Ω_Λ	0.714 ± 0.045	Ω_m	0.286 ± 0.045	Ω_Λ	0.747 ± 0.03
$\Omega_m h^2$	0.1378 ± 0.0072	r	< 0.50 (95% CL)	$\Omega_m h^2$	0.1330 ± 0.00
$r_s(z_d)$	151.8 ± 1.6 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.345 ± 0.020	$r_s(z_d)$	152.8 ± 1.2
$r_s(z_d)/D_v(z=0.2)$	0.188 ± 0.010	$r_s(z_d)/D_v(z=0.35)$	0.1133 ± 0.0054	$r_s(z_d)/D_v(z=0.2)$	0.1957 ± 0.00
$r_s(z_d)/D_v(z=0.44)$	0.0930 ± 0.0041	$r_s(z_d)/D_v(z=0.54)$	0.0785 ± 0.0032	$r_s(z_d)/D_v(z=0.44)$	0.0959 ± 0.00
$r_s(z_d)/D_v(z=0.57)$	0.0752 ± 0.0030	$r_s(z_d)/D_v(z=0.6)$	0.0723 ± 0.0028	$r_s(z_d)/D_v(z=0.57)$	0.0773 ± 0.00
$r_s(z_d)/D_v(z=0.73)$	0.0623 ± 0.0021	$r_s(z_*)$	145.4 ± 1.6	$r_s(z_d)/D_v(z=0.73)$	0.0638 ± 0.00
R	1.730 ± 0.028	σ_8	0.822 ± 0.029	R	1.710 ± 0.01
$\sigma_8\Omega_m^{0.5}$	0.439 ± 0.048	$\sigma_8\Omega_m^{0.6}$	$0.387^{+0.049}_{-0.048}$	$\sigma_8\Omega_m^{0.5}$	0.405 ± 0.03
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.72 ± 0.17 Gyr	$A_{\rm SZ}$	< 2.0 (95% C
τ	0.096 ± 0.015	θ_*	0.010400 ± 0.000024	τ	0.097 ± 0.01
θ_*	0.5959 ± 0.0014 $^\circ$	$\tau_{\rm rec}$	283.2 ± 3.9	θ_*	$0.5964^{+0.001}_{-0.001}$
$t_{\rm reion}$	420^{+70}_{-71} Myr	t_*	375220^{+6952}_{-6947} yr	$t_{\rm reion}$	437^{+69}_{-70} My
z_d	1020.9 ± 1.4	$z_{\rm eq}$	3299 ± 172	z_d	$1021.6 \pm 1.$
$z_{\rm rec}$	1088.2 ± 1.3	$z_{\rm reion}$	11.2 ± 1.3	$z_{\rm rec}$	$1087.33^{+0.8}_{-0.8}$
z_*	1091.0 ± 1.6			z_*	$1089.91^{+0.6}_{-0.6}$

WMAP Cosmological Parameters Model: lcdm+run+tens Data: wmap9+bao				WMA M D	
$10^9\Delta^2_{\mathcal{R}}$	2.23 ± 0.15	H_0	68.5 ± 1.0 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	$2.21^{+0.15}_{-0.16}$
$\ell(\ell+1)C_{220}/(2\pi)$	5750 ± 34 μK^2	$d_A(z_{\rm eq})$	14105 ± 96 Mpc	$\ell(\ell+1)C_{220}/(2\pi)$	5756 ± 34 μ
$d_A(z_*)$	13938 ± 97 Mpc	$dn_s/d\ln k$	-0.037 ± 0.023	$d_A(z_*)$	13936 ± 97 M
$D_v(z=0.57)/r_s(z_d)$	13.50 ± 0.13	η	$(6.13 \pm 0.13) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	13.41 ± 0.1
$k_{\rm eq}$	0.01023 ± 0.00019	$\ell_{\rm eq}$	142.5 ± 1.8	$k_{\rm eq}$	0.01017 ± 0.0
ℓ_*	302.23 ± 0.62	$n_{\rm b}$	$(2.520 \pm 0.054) \times 10^{-7}$ cm^{-3}	ℓ_*	$302.03 \pm 0.$
n_s	1.064 ± 0.058	n_t	> -0.056 (95% CL)	n_s	$1.064^{+0.06}_{-0.06}$
$\Omega_{\rm b}$	0.0478 ± 0.0011	$\Omega_{\rm b}h^2$	0.02244 ± 0.00048	$\Omega_{\rm b}$	0.0472 ± 0.0
$\Omega_{\rm c}$	0.251 ± 0.011	$\Omega_{\rm c}h^2$	0.1177 ± 0.0026	$\Omega_{\rm c}$	0.243 ± 0.0
Ω_Λ	0.701 ± 0.012	Ω_m	0.299 ± 0.012	Ω_Λ	0.710 ± 0.0
$\Omega_m h^2$	0.1401 ± 0.0026	r	< 0.44 (95% CL)	$\Omega_m h^2$	0.1394 ± 0.0
$r_s(z_d)$	$151.38^{+0.94}_{-0.95}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3374^{+0.0050}_{-0.0049}$	$r_s(z_d)$	151.37 ± 0.95
$r_s(z_d)/D_v(z=0.2)$	0.1845 ± 0.0025	$r_s(z_d)/D_v(z=0.35)$	0.1112 ± 0.0013	$r_s(z_d)/D_v(z=0.2)$	0.1863 ± 0.0
$r_s(z_d)/D_v(z=0.44)$	0.0914 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	0.07730 ± 0.00078	$r_s(z_d)/D_v(z=0.44)$	$0.09214^{+0.00}_{-0.00}$
$r_s(z_d)/D_v(z=0.57)$	$0.07406^{+0.00073}_{-0.00072}$	$r_s(z_d)/D_v(z=0.6)$	0.07116 ± 0.00068	$r_s(z_d)/D_v(z=0.57)$	0.07460 ± 0.0
$r_s(z_d)/D_v(z=0.73)$	0.06143 ± 0.00052	$r_s(z_*)$	$144.88^{+0.78}_{-0.79}$	$r_s(z_d)/D_v(z=0.73)$	0.06182 ± 0.0
R	1.7401 ± 0.0070	σ_8	0.830 ± 0.019	R	1.7351 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.454 ± 0.016	$\sigma_8\Omega_m^{0.6}$	0.402 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.447 ± 0.0
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.773 ± 0.092 Gyr	$A_{\rm SZ}$	< 2.0 (95% C
τ	0.095 ± 0.015	θ_*	$0.010395^{+0.000021}_{-0.000022}$	τ	0.096 ± 0.0
θ_*	0.5956 ± 0.0012 °	$\tau_{\rm rec}$	281.9 ± 1.4	θ_*	0.5960 ± 0.00
$t_{\rm reion}$	411 ± 65 Myr	t_*	372827^{+2269}_{-2277} yr	$t_{\rm reion}$	414 ± 65 M
z_d	1020.6 ± 1.1	$z_{\rm eq}$	3354 ± 63	z_d	1021.1 ± 1
$z_{\rm rec}$	1088.63 ± 0.69	$z_{\rm reion}$	11.3 ± 1.3	$z_{\rm rec}$	$1088.30^{+0.}_{-0.}$
z_*	$1091.57^{+0.68}_{-0.67}$			z_*	1091.15 ± 0

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	$2.14^{+0.15}_{-0.16}$	H_0	$70.6^{+2.0}_{-1.9}$ km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.4 ± 2.7
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5761^{+34}_{-33} μK^2
$d_A(z_{\rm eq})$	14171^{+95}_{-94} Mpc	$d_A(z_*)$	14005 ± 96 Mpc
$dn_s/d\ln k$	-0.039 ± 0.016	$D_v(z=0.57)/r_s(z_d)$	$13.20^{+0.27}_{-0.28}$
η	$(6.19 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.00996 ± 0.00028
$\ell_{\rm eq}$	139.4 ± 3.1	ℓ_*	301.85 ± 0.44
$n_{\rm b}$	$(2.542 \pm 0.051) \times 10^{-7}$ cm^{-3}	n_s	1.076 ± 0.048
$n_{\rm t}$	> -0.066 (95% CL)	$\Omega_{\rm b}$	0.0455 ± 0.0020
$\Omega_{\rm b}h^2$	$0.02263^{+0.00048}_{-0.00045}$	$\Omega_{\rm c}$	$0.229^{+0.020}_{-0.021}$
$\Omega_{\rm c}h^2$	$0.1138^{+0.0040}_{-0.0041}$	Ω_Λ	$0.725^{+0.023}_{-0.022}$
Ω_m	$0.275^{+0.022}_{-0.023}$	$\Omega_m h^2$	0.1364 ± 0.0039
r	< 0.53 (95% CL)	$r_s(z_d)$	152.3 ± 1.0 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.349 ± 0.011	$r_s(z_d)/D_v(z=0.2)$	0.1903 ± 0.0054
$r_s(z_d)/D_v(z=0.35)$	$0.1142^{+0.0029}_{-0.0028}$	$r_s(z_d)/D_v(z=0.44)$	0.0937 ± 0.0022
$r_s(z_d)/D_v(z=0.54)$	0.0791 ± 0.0017	$r_s(z_d)/D_v(z=0.57)$	0.0758 ± 0.0016
$r_s(z_d)/D_v(z=0.6)$	0.0728 ± 0.0015	$r_s(z_d)/D_v(z=0.73)$	0.0627 ± 0.0011
$r_s(z_*)$	145.76 ± 0.98	R	1.725 ± 0.014
σ_8	0.814 ± 0.019	$\sigma_8\Omega_m^{0.5}$	0.426 ± 0.025
$\sigma_8\Omega_m^{0.6}$	0.375 ± 0.025	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	$13.694^{+0.089}_{-0.090}$ Gyr	τ	0.095 ± 0.015
θ_*	0.010408 ± 0.000015	θ_*	0.59633 ± 0.00087 $^\circ$
$z_{\rm rec}$	283.9 ± 2.1	$t_{\rm reion}$	423 ± 61 Myr
t_*	376342 ± 3672 yr	z_d	1020.69 ± 0.94
$z_{\rm eq}$	3266^{+92}_{-93}	$z_{\rm rec}$	$1088.16^{+0.77}_{-0.76}$
$z_{\rm reion}$	11.1 ± 1.2	z_*	$1090.98^{+0.80}_{-0.82}$

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	2.09 ± 0.15	H_0	71.9 ± 1.6 km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.5 ± 2.7
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5766 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14211 ± 87 Mpc	$d_A(z_*)$	14046 ± 88 Mpc
$dn_s/d\ln k$	-0.039 ± 0.016	$D_v(z=0.57)/r_s(z_d)$	13.03 ± 0.22
η	$(6.24 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.00979 ± 0.00023
$\ell_{\rm eq}$	137.5 ± 2.5	ℓ_*	301.69 ± 0.42
n_{δ}	$(2.564^{+0.048}_{-0.047}) \times 10^{-7}$ cm^{-3}	n_s	1.084 ± 0.050
n_t	> -0.073 (95% CL)	$\Omega_{\rm b}$	0.0442 ± 0.0016
$\Omega_{\rm b}h^2$	$0.02283^{+0.00043}_{-0.00042}$	$\Omega_{\rm c}$	0.216 ± 0.015
$\Omega_{\rm c}h^2$	0.1113 ± 0.0033	Ω_Λ	0.740 ± 0.017
Ω_m	0.260 ± 0.017	$\Omega_m h^2$	0.1342 ± 0.0032
r	< 0.58 (95% CL)	$r_s(z_d)$	$152.72^{+0.95}_{-0.98}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3556 ± 0.0085	$r_s(z_d)/D_v(z=0.2)$	0.1938 ± 0.0043
$r_s(z_d)/D_v(z=0.35)$	0.1161 ± 0.0023	$r_s(z_d)/D_v(z=0.44)$	0.0952 ± 0.0018
$r_s(z_d)/D_v(z=0.54)$	0.0802 ± 0.0014	$r_s(z_d)/D_v(z=0.57)$	0.0768 ± 0.0013
$r_s(z_d)/D_v(z=0.6)$	0.0737 ± 0.0012	$r_s(z_d)/D_v(z=0.73)$	$0.06341^{+0.00092}_{-0.00093}$
$r_s(z_*)$	146.27 ± 0.86	R	1.716 ± 0.011
σ_8	0.806 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.411 ± 0.020
$\sigma_8\Omega_m^{0.5}$	0.359 ± 0.020	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.644 ± 0.079 Gyr	τ	0.099 ± 0.015
θ_*	0.010413 ± 0.000014	θ_*	0.59664 ± 0.00083 °
$\tau_{\rm rec}$	285.2 ± 1.7	$t_{\rm reion}$	418 ± 60 Myr
t_*	378572^{+3020}_{-3026} yr	z_d	$1020.92^{+0.94}_{-0.93}$
$z_{\rm eq}$	3211^{+76}_{-77}	$z_{\rm rec}$	1087.79 ± 0.68
$z_{\rm reion}$	11.3 ± 1.2	z_*	$1090.50^{+0.67}_{-0.68}$

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.20^{+0.13}_{-0.14}$	H_0	68.85 ± 0.88 km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.3 ± 2.7
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5755^{+33}_{-32} μK^2
$d_A(z_{\rm eq})$	14107 ± 69 Mpc	$d_A(z_*)$	13940 ± 70 Mpc
$dn_s/d\ln k$	-0.039 ± 0.015	$D_v(z=0.57)/r_s(z_d)$	13.45 ± 0.12
η	$(6.13 \pm 0.10) \times 10^{-10}$	$k_{\rm eq}$	0.01020 ± 0.00015
$\ell_{\rm eq}$	142.2 ± 1.5	ℓ_*	302.03 ± 0.40
$n_{\bar{b}}$	$(2.516 \pm 0.042) \times 10^{-7}$ cm^{-3}	n_s	$1.068^{+0.045}_{-0.044}$
$n_{\bar{t}}$	> -0.053 (95% CL)	Ω_b	0.0473 ± 0.0010
$\Omega_b h^2$	0.02240 ± 0.00038	Ω_c	0.2477 ± 0.0098
$\Omega_c h^2$	0.1173 ± 0.0021	Ω_Λ	0.705 ± 0.011
Ω_m	0.295 ± 0.011	$\Omega_m h^2$	0.1397 ± 0.0021
r	< 0.43 (95% CL)	$r_s(z_d)$	151.52 ± 0.73 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3392 ± 0.0045	$r_s(z_d)/D_v(z=0.2)$	0.1854 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1117 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09177^{+0.00092}_{-0.00093}$
$r_s(z_d)/D_v(z=0.54)$	0.07760 ± 0.00072	$r_s(z_d)/D_v(z=0.57)$	0.07435 ± 0.00067
$r_s(z_d)/D_v(z=0.6)$	$0.07143^{+0.00063}_{-0.00062}$	$r_s(z_d)/D_v(z=0.73)$	0.06164 ± 0.00048
$r_s(z_*)$	$145.00^{+0.62}_{-0.61}$	R	1.7380 ± 0.0063
σ_8	0.825 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.448 ± 0.013
$\sigma_8\Omega_m^{0.6}$	0.396 ± 0.013	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	$13.754^{+0.066}_{-0.065}$ Gyr	τ	0.091 ± 0.014
θ_*	0.010402 ± 0.000014	θ_*	$0.59597^{+0.00079}_{-0.00078}$ °
$\tau_{\rm rec}$	282.1 ± 1.1	$t_{\rm reion}$	429 ± 62 Myr
t_*	373154^{+1836}_{-1842} yr	z_d	$1020.50^{+0.88}_{-0.89}$
$z_{\rm eq}$	3344 ± 50	$z_{\rm rec}$	1088.64 ± 0.61
$z_{\rm reion}$	10.9 ± 1.2	z_*	$1091.58^{+0.54}_{-0.55}$

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.17 ± 0.14	H_0	69.45 ± 0.84 km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.4 ± 2.7
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5760 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14115^{+70}_{-69} Mpc	$d_A(z_*)$	13948 ± 70 Mpc
$dn_s/d\ln k$	-0.040 ± 0.016	$D_v(z=0.57)/r_s(z_d)$	13.37 ± 0.12
η	$(6.17 \pm 0.10) \times 10^{-10}$	$k_{\rm eq}$	0.01014 ± 0.00015
$\ell_{\rm eq}$	141.4 ± 1.5	ℓ_*	301.92 ± 0.39
$n_{\rm b}$	$(2.533 \pm 0.042) \times 10^{-7}$ cm^{-3}	n_s	1.075 ± 0.046
n_t	> -0.058 (95% CL)	Ω_b	$0.04676^{+0.00096}_{-0.00096}$
$\Omega_b h^2$	$0.02255^{+0.00037}_{-0.00038}$	Ω_c	0.2414 ± 0.0091
$\Omega_c h^2$	0.1164 ± 0.0020	Ω_Λ	0.7118 ± 0.0099
Ω_m	0.2882 ± 0.0099	$\Omega_m h^2$	$0.1389^{+0.0020}_{-0.0021}$
r	< 0.47 (95% CL)	$r_s(z_d)$	$151.61^{+0.74}_{-0.73}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3421^{+0.0044}_{-0.0043}$	$r_s(z_d)/D_v(z=0.2)$	0.1869 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1124 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09237 ± 0.00089
$r_s(z_d)/D_v(z=0.54)$	0.07806 ± 0.00069	$r_s(z_d)/D_v(z=0.57)$	0.07478 ± 0.00064
$r_s(z_d)/D_v(z=0.6)$	0.07183 ± 0.00060	$r_s(z_d)/D_v(z=0.73)$	0.06195 ± 0.00046
$r_s(z_*)$	145.14 ± 0.61	R	1.7340 ± 0.0060
σ_8	0.823 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.442 ± 0.013
$\sigma_8\Omega_m^{0.6}$	0.390 ± 0.012	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.723 ± 0.064 Gyr	τ	0.093 ± 0.014
θ_*	0.010405 ± 0.000014	θ_*	0.59619 ± 0.00078 °
$\tau_{\rm rec}$	282.6 ± 1.1	$t_{\rm reion}$	426^{+61}_{-62} Myr
t_*	373990^{+1795}_{-1775} yr	z_d	1020.75 ± 0.89
$z_{\rm eq}$	3325 ± 49	$z_{\rm rec}$	1088.42 ± 0.60
$z_{\rm reion}$	11.0 ± 1.2	z_*	1091.30 ± 0.52

WMAP Cosmological Parameters Model: lcdm+run+tens Data: wmap9+snls3				WMA
$10^9\Delta^2_{\mathcal{R}}$	$2.15^{+0.16}_{-0.17}$	H_0	72.7 ± 2.8 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.14 ± 0.16
$\ell(\ell+1)C_{220}/(2\pi)$	$5759 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14236 ± 125 Mpc	$\ell(\ell+1)C_{220}/(2\pi)$	$5761 \pm 35\ \mu$
$d_A(z_*)$	14071 ± 127 Mpc	$dn_s/d\ln k$	-0.019 ± 0.026	$d_A(z_*)$	14088^{+114}_{-115} M
$D_v(z=0.57)/r_s(z_d)$	12.94 ± 0.38	η	$(6.34 \pm 0.19) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	$12.86^{+0.25}_{-0.24}$
$k_{\rm eq}$	0.00970 ± 0.00037	$\ell_{\rm eq}$	136.5 ± 4.1	$k_{\rm eq}$	0.00963 ± 0.00
ℓ_*	301.85 ± 0.68	$n_{\rm b}$	$(2.603 \pm 0.078) \times 10^{-7}$ cm^{-3}	ℓ_*	301.78 ± 0.6
n_s	1.041 ± 0.063	n_t	> -0.068 (95% CL)	n_s	1.039 ± 0.06
Ω_b	0.0440 ± 0.0025	$\Omega_b h^2$	0.02317 ± 0.00070	Ω_b	0.0434 ± 0.00
Ω_c	0.210 ± 0.026	$\Omega_c h^2$	0.1097 ± 0.0054	Ω_c	0.203 ± 0.0
Ω_Λ	$0.746^{+0.028}_{-0.029}$	Ω_m	$0.254^{+0.029}_{-0.028}$	Ω_Λ	0.753 ± 0.0
$\Omega_m h^2$	0.1329 ± 0.0051	r	< 0.55 (95% CL)	$\Omega_m h^2$	$0.1319^{+0.00}_{-0.00}$
$r_s(z_d)$	152.8 ± 1.3 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.359 ± 0.015	$r_s(z_d)$	$153.0^{+1.1}_{-1.2}$ M
$r_s(z_d)/D_v(z=0.2)$	0.1957 ± 0.0076	$r_s(z_d)/D_v(z=0.35)$	0.1171 ± 0.0041	$r_s(z_d)/D_v(z=0.2)$	0.1973 ± 0.00
$r_s(z_d)/D_v(z=0.44)$	0.0959 ± 0.0031	$r_s(z_d)/D_v(z=0.54)$	0.0808 ± 0.0024	$r_s(z_d)/D_v(z=0.44)$	$0.0966^{+0.00}_{-0.00}$
$r_s(z_d)/D_v(z=0.57)$	$0.0773^{+0.0022}_{-0.0023}$	$r_s(z_d)/D_v(z=0.6)$	0.0742 ± 0.0021	$r_s(z_d)/D_v(z=0.57)$	0.0778 ± 0.00
$r_s(z_d)/D_v(z=0.73)$	0.0638 ± 0.0016	$r_s(z_*)$	146.4 ± 1.2	$r_s(z_d)/D_v(z=0.73)$	0.0641 ± 0.00
R	1.710 ± 0.020	σ_8	$0.805^{+0.025}_{-0.024}$	R	1.706 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.405 ± 0.033	$\sigma_8\Omega_m^{0.6}$	0.353 ± 0.032	$\sigma_8\Omega_m^{0.5}$	0.398 ± 0.0
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11	$\alpha_{\rm SNLS}$	1.43 ± 0.1
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.62 ± 0.14 Gyr	$A_{\rm SZ}$	< 2.0 (95% C
τ	0.097 ± 0.015	θ_*	0.010408 ± 0.000024	τ	0.097 ± 0.0
θ_*	0.5963 ± 0.0014 °	$\tau_{\rm rec}$	286.0 ± 2.8	θ_*	0.5965 ± 0.00
$t_{\rm reion}$	438^{+70}_{-71} Myr	t_*	380064 ± 5023 yr	$t_{\rm reion}$	441^{+69}_{-70} My
z_d	1021.5 ± 1.3	$z_{\rm eq}$	3181 ± 121	z_d	$1021.7 \pm 1.$
$z_{\rm rec}$	1087.4 ± 1.0	$z_{\rm reion}$	11.0 ± 1.3	$z_{\rm rec}$	$1087.17^{+0.7}_{-0.7}$
z_*	1090.0 ± 1.2			z_*	$1089.69^{+0.6}_{-0.6}$

WMAP Cosmological Parameters

Model: ledm+run+tens

Data: wmap9+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.23 ± 0.15	H_0	68.93 ± 0.98 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5751 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14123 ± 96 Mpc
$d_A(z_*)$	13956^{+96}_{-97} Mpc	$dn_s/d\ln k$	-0.035 ± 0.022
$D_v(z=0.57)/r_s(z_d)$	13.45 ± 0.13	η	$(6.16 \pm 0.13) \times 10^{-10}$
$k_{\rm eq}$	0.01016 ± 0.00019	$\ell_{\rm eq}$	141.8 ± 1.8
ℓ_*	302.23 ± 0.63	n_b	$(2.528 \pm 0.054) \times 10^{-7}\ \mathrm{cm}^{-3}$
n_s	1.060 ± 0.058	n_t	> -0.056 (95% CL)
Ω_b	0.0474 ± 0.0010	$\Omega_b h^2$	$0.02251^{+0.00049}_{-0.00048}$
Ω_c	0.246 ± 0.011	$\Omega_c h^2$	0.1167 ± 0.0025
Ω_Λ	0.707 ± 0.011	Ω_m	0.293 ± 0.011
$\Omega_m h^2$	0.1393 ± 0.0026	τ	< 0.45 (95% CL)
$r_s(z_d)$	151.56 ± 0.94 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3395 ± 0.0048
$r_s(z_d)/D_v(z=0.2)$	0.1856 ± 0.0024	$r_s(z_d)/D_v(z=0.35)$	0.1117 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	$0.09183^{+0.00097}_{-0.00098}$	$r_s(z_d)/D_v(z=0.54)$	$0.07764^{+0.00075}_{-0.00076}$
$r_s(z_d)/D_v(z=0.57)$	$0.07438^{+0.00070}_{-0.00071}$	$r_s(z_d)/D_v(z=0.6)$	0.07146 ± 0.00066
$r_s(z_d)/D_v(z=0.73)$	0.06166 ± 0.00051	$r_s(z_*)$	$145.07^{+0.77}_{-0.78}$
R	$1.7370^{+0.0068}_{-0.0067}$	σ_8	0.827 ± 0.019
$\sigma_8\Omega_m^{0.5}$	0.448 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.396 ± 0.015
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.25 ± 0.11
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.761 ± 0.092 Gyr
τ	0.095 ± 0.015	θ_*	0.010395 ± 0.000022
θ_*	$0.5956 \pm 0.0012^\circ$	$\tau_{\rm rec}$	282.4 ± 1.3
$t_{\rm reion}$	414^{+64}_{-65} Myr	t_*	373660^{+2220}_{-2227} yr
z_d	$1020.7^{+1.1}_{-1.2}$	$z_{\rm eq}$	3333^{+62}_{-61}
$z_{\rm rec}$	1088.49 ± 0.67	$z_{\rm reion}$	11.2 ± 1.3
z_*	$1091.39^{+0.67}_{-0.66}$		

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.20 ± 0.15	H_0	69.64 ± 0.92 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5756 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14118 ± 96 Mpc
$d_A(z_*)$	13952 ± 97 Mpc	$dn_s/d\ln k$	-0.032 ± 0.023
$D_v(z=0.57)/r_s(z_d)$	13.36 ± 0.12	η	$(6.22 \pm 0.13) \times 10^{-10}$
$k_{\rm eq}$	0.01012 ± 0.00019	$\ell_{\rm eq}$	141.2 ± 1.7
ℓ_*	302.04 ± 0.62	n_b	$(2.554 \pm 0.054) \times 10^{-7}$ cm^{-3}
n_s	1.060 ± 0.060	n_t	> -0.060 (95% CL)
$\Omega_{\rm b}$	$0.04690^{+0.00100}_{-0.00099}$	$\Omega_b h^2$	0.02274 ± 0.00048
$\Omega_{\rm c}$	$0.2392^{+0.0097}_{-0.0096}$	$\Omega_c h^2$	$0.1159^{+0.0025}_{-0.0024}$
Ω_Λ	0.714 ± 0.010	Ω_m	0.286 ± 0.010
$\Omega_m h^2$	$0.1387^{+0.0026}_{-0.0025}$	r	< 0.48 (95% CL)
$r_s(z_d)$	151.52 ± 0.94 Mpc	$r_s(z_{\rm d})/D_v(z=0.106)$	0.3427 ± 0.0045
$r_s(z_{\rm d})/D_v(z=0.2)$	0.1872 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1126 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09248^{+0.00092}_{-0.00093}$	$r_s(z_d)/D_v(z=0.54)$	0.07815 ± 0.00072
$r_s(z_d)/D_v(z=0.57)$	0.07485 ± 0.00067	$r_s(z_{\rm d})/D_v(z=0.6)$	0.07190 ± 0.00063
$r_s(z_d)/D_v(z=0.73)$	0.06200 ± 0.00048	$r_s(z_*)$	145.11 ± 0.78
R	$1.7327^{+0.0064}_{-0.0063}$	σ_8	0.827 ± 0.019
$\sigma_8\Omega_m^{0.5}$	0.442 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.390 ± 0.014
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.25 ± 0.11
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.714 ± 0.090 Gyr
τ	0.096 ± 0.015	θ_*	0.010401 ± 0.000021
θ_*	$0.5959 \pm 0.0012\ ^\circ$	$\tau_{\rm rec}$	282.8 ± 1.3
$t_{\rm reion}$	416 ± 65 Myr	t_*	374390^{+2189}_{-2205} yr
$z_{\rm d}$	1021.1 ± 1.1	$z_{\rm eq}$	3319 ± 61
$z_{\rm rec}$	$1088.20^{+0.65}_{-0.66}$	$z_{\rm reion}$	11.2 ± 1.3
z_*	$1091.02^{+0.62}_{-0.63}$		

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.11 ± 0.16	H_0	71.6 ± 1.8 km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$13.6^{+2.6}_{-2.7}$
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5764 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14208 ± 89 Mpc	$d_A(z_*)$	14043 ± 90 Mpc
$dn_s/d\ln k$	-0.039 ± 0.016	$D_v(z=0.57)/r_s(z_d)$	13.06 ± 0.25
η	$(6.23 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.00982 ± 0.00025
$\ell_{\rm eq}$	137.9 ± 2.8	ℓ_*	$301.76^{+0.44}_{-0.43}$
n_b	$(2.558 \pm 0.051) \times 10^{-7}$ cm^{-3}	n_s	1.081 ± 0.050
n_t	> -0.073 (95% CL)	Ω_b	0.0445 ± 0.0018
$\Omega_b h^2$	$0.02277^{+0.00046}_{-0.00045}$	Ω_c	$0.219^{+0.017}_{-0.018}$
$\Omega_c h^2$	0.1118 ± 0.0036	Ω_Λ	0.737 ± 0.019
Ω_m	0.263 ± 0.019	$\Omega_m h^2$	0.1345 ± 0.0035
r	< 0.58 (95% CL)	$r_s(z_d)$	$152.67^{+0.98}_{-0.97}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3542^{+0.0097}_{-0.0096}$	$r_s(z_d)/D_v(z=0.2)$	0.1930 ± 0.0049
$r_s(z_d)/D_v(z=0.35)$	0.1157 ± 0.0026	$r_s(z_d)/D_v(z=0.44)$	0.0949 ± 0.0020
$r_s(z_d)/D_v(z=0.54)$	$0.0800^{+0.0016}_{-0.0015}$	$r_s(z_d)/D_v(z=0.57)$	0.0766 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	$0.0735^{+0.0014}_{-0.0013}$	$r_s(z_d)/D_v(z=0.73)$	0.0633 ± 0.0010
$r_s(z_*)$	146.20 ± 0.90	R	1.718 ± 0.013
σ_8	0.807 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.414 ± 0.022
$\sigma_8\Omega_m^{0.6}$	0.362 ± 0.022	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.659 ± 0.088 Gyr	τ	$0.098^{+0.015}_{-0.016}$
θ_*	0.010411 ± 0.000015	θ_*	$0.59651^{+0.00085}_{-0.00087}$ °
$\tau_{\rm rec}$	285.0 ± 1.9	$t_{\rm reion}$	420^{+61}_{-62} Myr
t_*	378190^{+3320}_{-3324} yr	z_d	1020.82 ± 0.96
$z_{\rm eq}$	3220 ± 83	$z_{\rm rec}$	$1087.88^{+0.74}_{-0.73}$
$z_{\rm reion}$	11.3 ± 1.2	z_*	$1090.61^{+0.77}_{-0.76}$

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.08 ± 0.15	H_0	72.4 ± 1.5 km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.7 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5768 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14230 ± 84 Mpc	$d_A(z_*)$	14065^{+85}_{-84} Mpc
$dn_s/d\ln k$	-0.039 ± 0.017	$D_v(z=0.57)/r_s(z_d)$	12.96 ± 0.20
η	$(6.26 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.00972 ± 0.00022
$\ell_{\rm eq}$	136.8 ± 2.3	ℓ_*	301.65 ± 0.41
n_b	$(2.573 \pm 0.048) \times 10^{-7}$ cm^{-3}	n_s	$1.087^{+0.052}_{-0.051}$
n_t	> -0.077 (95% CL)	Ω_b	0.0438 ± 0.0014
$\Omega_b h^2$	0.02291 ± 0.00043	Ω_c	0.211 ± 0.014
$\Omega_c h^2$	0.1103 ± 0.0030	Ω_Λ	0.745 ± 0.015
Ω_m	0.255 ± 0.015	$\Omega_m h^2$	0.1332 ± 0.0030
r	< 0.62 (95% CL)	$r_s(z_d)$	152.93 ± 0.92 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3583^{+0.0079}_{-0.0080}$	$r_s(z_d)/D_v(z=0.2)$	$0.1952^{+0.0040}_{-0.0041}$
$r_s(z_d)/D_v(z=0.35)$	0.1168 ± 0.0022	$r_s(z_d)/D_v(z=0.44)$	0.0957 ± 0.0016
$r_s(z_d)/D_v(z=0.54)$	0.0807 ± 0.0013	$r_s(z_d)/D_v(z=0.57)$	0.0772 ± 0.0012
$r_s(z_d)/D_v(z=0.6)$	0.0741 ± 0.0011	$r_s(z_d)/D_v(z=0.73)$	0.06371 ± 0.00087
$r_s(z_*)$	146.48 ± 0.82	R	$1.712^{+0.011}_{-0.010}$
σ_8	0.803 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.405 ± 0.019
$\sigma_8\Omega_m^{0.6}$	0.353 ± 0.018	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.627 ± 0.077 Gyr	τ	0.100 ± 0.016
θ_*	0.010415 ± 0.000014	θ_*	$0.59671^{+0.00082}_{-0.00081}$ °
$\tau_{\rm rec}$	285.7 ± 1.6	$t_{\rm reion}$	417 ± 61 Myr
t_*	379501^{+2815}_{-2801} yr	z_d	1020.99 ± 0.95
$z_{\rm eq}$	3189 ± 71	$z_{\rm rec}$	1087.65 ± 0.67
$z_{\rm reion}$	11.4 ± 1.2	z_*	$1090.32^{+0.65}_{-0.66}$

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+spt+act+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.20 ± 0.14	H_0	69.15 ± 0.89 km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.5 ± 2.7
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5756 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14122 ± 68 Mpc	$d_A(z_*)$	13955 ± 68 Mpc
$dn_s/d\ln k$	-0.038 ± 0.015	$D_v(z=0.57)/r_s(z_d)$	13.41 ± 0.12
η	$(6.14 \pm 0.10) \times 10^{-10}$	$k_{\rm eq}$	0.01015 ± 0.00015
$\ell_{\rm eq}$	141.6 ± 1.5	ℓ_*	$302.02^{+0.40}_{-0.41}$
n_b	$(2.520 \pm 0.042) \times 10^{-7}$ cm^{-3}	n_s	1.068 ± 0.045
n_t	> -0.055 (95% CL)	Ω_b	0.04694 ± 0.00098
$\Omega_b h^2$	0.02244 ± 0.00038	Ω_c	$0.2440^{+0.0096}_{-0.0097}$
$\Omega_c h^2$	0.1166 ± 0.0020	Ω_Λ	0.709 ± 0.010
Ω_m	$0.291^{+0.010}_{-0.011}$	$\Omega_m h^2$	$0.1390^{+0.0020}_{-0.0021}$
r	< 0.44 (95% CL)	$r_s(z_d)$	151.67 ± 0.72 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3408 ± 0.0045	$r_s(z_d)/D_v(z=0.2)$	0.1863 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1121 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09212^{+0.00093}_{-0.00092}$
$r_s(z_d)/D_v(z=0.54)$	0.07786 ± 0.00072	$r_s(z_d)/D_v(z=0.57)$	0.07459 ± 0.00067
$r_s(z_d)/D_v(z=0.6)$	0.07166 ± 0.00063	$r_s(z_d)/D_v(z=0.73)$	0.06182 ± 0.00048
$r_s(z_*)$	145.16 ± 0.60	R	$1.7356^{+0.0062}_{-0.0063}$
σ_8	0.823 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.444 ± 0.013
$\sigma_8\Omega_m^{0.6}$	0.392 ± 0.013	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	$13.746^{+0.067}_{-0.066}$ Gyr	τ	0.092 ± 0.014
θ_*	0.010402 ± 0.000014	θ_*	$0.59598^{+0.00081}_{-0.00079}$ °
$\tau_{\rm rec}$	282.5 ± 1.1	$t_{\rm reion}$	428^{+62}_{-63} Myr
t_*	373789^{+1814}_{-1792} yr	z_d	$1020.52^{+0.88}_{-0.89}$
$z_{\rm eq}$	3328^{+48}_{-49}	$z_{\rm rec}$	$1088.55^{+0.60}_{-0.61}$
$z_{\rm reion}$	11.0 ± 1.2	z_*	$1091.47^{+0.53}_{-0.54}$

WMAP Cosmological Parameters

Model: lcdm+run+tens

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.17 ± 0.14	H_0	$69.71^{+0.83}_{-0.84}$ km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$13.6^{+2.6}_{-2.7}$
$A^{\rm SPT}_{\rm Poisson}$	> 14 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5761 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14128^{+69}_{-68} Mpc	$d_A(z_*)$	13961 ± 69 Mpc
$dn_s/d\ln k$	-0.040 ± 0.016	$D_v(z=0.57)/r_s(z_d)$	13.34 ± 0.11
η	$(6.18 \pm 0.10) \times 10^{-10}$	$k_{\rm eq}$	0.01010 ± 0.00015
$\ell_{\rm eq}$	141.0 ± 1.4	ℓ_*	301.91 ± 0.40
n_{δ}	$(2.536^{+0.042}_{-0.043}) \times 10^{-7}$ cm^{-3}	n_s	$1.075^{+0.048}_{-0.046}$
n_t	> -0.060 (95% CL)	Ω_b	0.04648 ± 0.00093
$\Omega_b h^2$	0.02258 ± 0.00038	Ω_c	0.2383 ± 0.0089
$\Omega_c h^2$	0.1157 ± 0.0020	Ω_Λ	0.7152 ± 0.0097
Ω_m	0.2848 ± 0.0097	$\Omega_m h^2$	0.1383 ± 0.0020
r	< 0.48 (95% CL)	$r_s(z_d)$	$151.75^{+0.75}_{-0.72}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3436 ± 0.0043	$r_s(z_d)/D_v(z=0.2)$	0.1876 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1128 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09267 ± 0.00088
$r_s(z_d)/D_v(z=0.54)$	$0.07829^{+0.00068}_{-0.00069}$	$r_s(z_d)/D_v(z=0.57)$	0.07499 ± 0.00064
$r_s(z_d)/D_v(z=0.6)$	$0.07203^{+0.00059}_{-0.00060}$	$r_s(z_d)/D_v(z=0.73)$	0.06211 ± 0.00046
$r_s(z_*)$	$145.27^{+0.61}_{-0.60}$	R	1.7319 ± 0.0059
σ_8	0.821 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.438 ± 0.013
$\sigma_8\Omega_m^{0.6}$	0.386 ± 0.012	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.4 (95% CL)
t_0	13.716 ± 0.065 Gyr	τ	0.093 ± 0.014
θ_*	0.010406 ± 0.000014	θ_*	$0.59620^{+0.00080}_{-0.00079}$ °
$\tau_{\rm rec}$	$282.9^{+1.0}_{-1.1}$	$t_{\rm reion}$	424 ± 62 Myr
t_*	374543^{+1762}_{-1757} yr	z_d	$1020.77^{+0.89}_{-0.90}$
$z_{\rm eq}$	3311 ± 48	$z_{\rm rec}$	$1088.34^{+0.60}_{-0.59}$
$z_{\rm reion}$	11.1 ± 1.2	z_*	1091.21 ± 0.52

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9

$10^9\Delta^2_{\mathcal{R}}$	2.22 ± 0.13	H_0	73.4 ± 2.8 km/s/Mpc
α_{-1}	< 0.012 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5758 \pm 36\ \mu\mathrm{K}^2$
$d_A(z_{\rm eq})$	14252 ± 120 Mpc	$d_A(z_*)$	14088 ± 122 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.81 ± 0.38	η	$(6.28 \pm 0.15) \times 10^{-10}$
$k_{\rm eq}$	0.00962 ± 0.00035	$\ell_{\rm eq}$	135.5 ± 3.9
ℓ_*	301.37 ± 0.82	n_b	$(2.580 \pm 0.060) \times 10^{-7}$ cm^{-3}
n_s	0.994 ± 0.017	Ω_b	0.0427 ± 0.0027
$\Omega_b h^2$	0.02297 ± 0.00053	Ω_c	0.203 ± 0.024
$\Omega_c h^2$	0.1088 ± 0.0050	Ω_Λ	0.754 ± 0.027
Ω_m	0.246 ± 0.027	$\Omega_m h^2$	0.1318 ± 0.0048
$r_s(z_d)$	153.3 ± 1.4 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.364 ± 0.015
$r_s(z_d)/D_v(z=0.2)$	0.1981 ± 0.0077	$r_s(z_d)/D_v(z=0.35)$	0.1184 ± 0.0041
$r_s(z_d)/D_v(z=0.44)$	0.0970 ± 0.0032	$r_s(z_d)/D_v(z=0.54)$	0.0816 ± 0.0025
$r_s(z_d)/D_v(z=0.57)$	0.0781 ± 0.0023	$r_s(z_d)/D_v(z=0.6)$	0.0750 ± 0.0022
$r_s(z_d)/D_v(z=0.73)$	0.0644 ± 0.0017	$r_s(z_*)$	146.9 ± 1.3
R	1.705 ± 0.019	σ_8	$0.807^{+0.025}_{-0.024}$
$\sigma_8\Omega_m^{0.5}$	0.400 ± 0.032	$\sigma_8\Omega_m^{0.6}$	0.348 ± 0.031
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.58 ± 0.14 Gyr
τ	0.088 ± 0.013	θ_*	0.010425 ± 0.000028
θ_s	0.5973 ± 0.0016 °	$\tau_{\rm rec}$	286.5 ± 2.7
$t_{\rm reion}$	478^{+68}_{-69} Myr	t_*	380966^{+4678}_{-4689} yr
z_d	1021.0 ± 1.1	$z_{\rm eq}$	3154 ± 115
$z_{\rm rec}$	1087.49 ± 0.84	$z_{\rm reion}$	10.3 ± 1.1
z_*	1090.10 ± 0.93		

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+h0

$10^9\Delta^2_{\mathcal{R}}$	2.21 ± 0.10	H_0	73.6 ± 1.8 km/s/Mpc
α_{-1}	< 0.010 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5760 ± 34 μK^2
$d_A(z_{\rm eq})$	14257 ± 110 Mpc	$d_A(z_*)$	14093 ± 111 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.79 ± 0.25	η	$(6.29 \pm 0.13) \times 10^{-10}$
$k_{\rm eq}$	0.00960 ± 0.00026	$\ell_{\rm eq}$	135.2 ± 2.8
ℓ_*	301.34 ± 0.69	n_b	$(2.583 \pm 0.051) \times 10^{-7}$ cm^{-3}
n_s	0.994 ± 0.013	Ω_b	0.0425 ± 0.0018
$\Omega_b h^2$	0.02300 ± 0.00046	Ω_c	0.201 ± 0.016
$\Omega_c h^2$	0.1085 ± 0.0036	Ω_Λ	0.756 ± 0.018
Ω_m	0.244 ± 0.018	$\Omega_m h^2$	0.1315 ± 0.0036
$r_s(z_d)$	153.4 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.365 ± 0.010
$r_s(z_d)/D_v(z=0.2)$	0.1985 ± 0.0051	$r_s(z_d)/D_v(z=0.35)$	0.1186 ± 0.0027
$r_s(z_d)/D_v(z=0.44)$	0.0971 ± 0.0021	$r_s(z_d)/D_v(z=0.54)$	0.0817 ± 0.0016
$r_s(z_d)/D_v(z=0.57)$	0.0782 ± 0.0015	$r_s(z_d)/D_v(z=0.6)$	0.0750 ± 0.0014
$r_s(z_d)/D_v(z=0.73)$	0.0644 ± 0.0011	$r_s(z_*)$	146.9 ± 1.0
R	1.704 ± 0.013	σ_8	0.806 ± 0.022
$\sigma_8\Omega_m^{0.5}$	0.398 ± 0.023	$\sigma_8\Omega_m^{0.6}$	0.346 ± 0.022
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$13.58^{+0.10}_{-0.11}$ Gyr
τ	0.088 ± 0.013	θ_*	0.010425 ± 0.000024
θ_s	0.5973 ± 0.0014 °	$\tau_{\rm rec}$	286.7 ± 2.0
$t_{\rm reion}$	478^{+68}_{-69} Myr	t_*	381221^{+3420}_{-3425} yr
z_d	1021.0 ± 1.1	$z_{\rm eq}$	3147 ± 87
$z_{\rm rec}$	1087.44 ± 0.68	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1090.04^{+0.68}_{-0.67}$		

WMAP Cosmological Parameters Model: lcdm+iso+corr Data: wmap9+bao				WMA	
$10^9\Delta^2_{\mathcal{R}}$	2.393 ± 0.084	H_0	$69.03^{+0.94}_{-0.95}$ km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.363 ± 0.0
α_{-1}	< 0.0035 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5735 \pm 33\ \mu\mathrm{K}^2$	α_{-1}	< 0.0040 (95%
$d_A(z_{\rm eq})$	14124 ± 93 Mpc	$d_A(z_*)$	13957 ± 94 Mpc	$d_A(z_{\rm eq})$	14120 ± 93 M
$D_v(z=0.57)/r_s(z_d)$	13.43 ± 0.13	η	$(6.15 \pm 0.12) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	13.35 ± 0.1
$k_{\rm eq}$	0.01015 ± 0.00018	$\ell_{\rm eq}$	141.7 ± 1.7	$k_{\rm eq}$	0.01011 ± 0.0
ℓ_*	302.17 ± 0.62	$n_{\rm b}$	$(2.527^{+0.049}_{-0.048}) \times 10^{-7}$ cm^{-3}	ℓ_*	$301.95^{+0.6}_{-0.6}$
n_s	0.974 ± 0.011	Ω_b	0.0472 ± 0.0011	n_s	0.978 ± 0.0
$\Omega_b h^2$	$0.02250^{+0.00043}_{-0.00042}$	Ω_c	0.2449 ± 0.0099	$\Omega_b h^2$	0.02266 ± 0.0
$\Omega_c h^2$	0.1166 ± 0.0024	Ω_Λ	0.708 ± 0.011	$\Omega_c h^2$	0.1159 ± 0.0
Ω_m	0.292 ± 0.011	$\Omega_m h^2$	0.1391 ± 0.0025	Ω_m	0.286 ± 0.0
$r_s(z_d)$	$151.60^{+0.92}_{-0.91}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3401 ± 0.0047	$r_s(z_d)$	151.62 ± 0.92
$r_s(z_d)/D_v(z=0.2)$	0.1859 ± 0.0024	$r_s(z_d)/D_v(z=0.35)$	0.1119 ± 0.0013	$r_s(z_d)/D_v(z=0.2)$	0.1874 ± 0.0
$r_s(z_d)/D_v(z=0.44)$	$0.09196^{+0.00096}_{-0.00097}$	$r_s(z_d)/D_v(z=0.54)$	0.07774 ± 0.00075	$r_s(z_d)/D_v(z=0.44)$	0.09258 ± 0.0
$r_s(z_d)/D_v(z=0.57)$	0.07447 ± 0.00070	$r_s(z_d)/D_v(z=0.6)$	$0.07154^{+0.00065}_{-0.00066}$	$r_s(z_d)/D_v(z=0.57)$	0.07492 ± 0.0
$r_s(z_d)/D_v(z=0.73)$	$0.06173^{+0.00050}_{-0.00051}$	$r_s(z_*)$	$145.11^{+0.77}_{-0.76}$	$r_s(z_d)/D_v(z=0.73)$	0.06206 ± 0.0
R	1.7363 ± 0.0065	σ_8	0.834 ± 0.018	R	$1.7323^{+0.00}_{-0.00}$
$\sigma_8\Omega_m^{0.5}$	0.451 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.399 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.446 ± 0.0
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$13.755^{+0.058}_{-0.059}$ Gyr	$A_{\rm SZ}$	< 2.0 (95% C
τ	0.083 ± 0.012	θ_*	0.010397 ± 0.000021	τ	0.084 ± 0.0
θ_*	$0.5957 \pm 0.0012\ ^\circ$	$\tau_{\rm rec}$	282.5 ± 1.3	θ_*	0.5961 ± 0.00
$t_{\rm reion}$	471^{+67}_{-68} Myr	t_*	373775^{+2118}_{-2119} yr	$t_{\rm reion}$	470^{+66}_{-68} My
$z_{\rm d}$	$1020.6^{+1.1}_{-1.0}$	$z_{\rm eq}$	3330 ± 60	$z_{\rm d}$	$1021.0 \pm 1.$
$z_{\rm rec}$	1088.49 ± 0.62	$z_{\rm reion}$	10.2 ± 1.1	$z_{\rm rec}$	$1088.27 \pm 0.$
z_*	$1091.40^{+0.55}_{-0.56}$			z_*	$1091.11^{+0.5}_{-0.5}$

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	2.307 ± 0.099	H_0	72.2 ± 1.9 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	α_{-1}	< 0.0076 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	$5746 \pm 33\ \mu{\rm K}^2$	$d_A(z_{\rm eq})$	14288 ± 92 Mpc
$d_A(z_*)$	14124 ± 93 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.93 ± 0.25
η	$(6.11 \pm 0.10) \times 10^{-10}$	$k_{\rm eq}$	0.00964 ± 0.00027
$\ell_{\rm eq}$	136.1 ± 2.9	ℓ_*	301.65 ± 0.46
$n_{\hat{\rm b}}$	$(2.509 \pm 0.042) \times 10^{-7}\ {\rm cm}^{-3}$	n_s	0.977 ± 0.011
$\Omega_{\rm b}$	0.0430 ± 0.0019	$\Omega_{\rm b}h^2$	0.02234 ± 0.00037
$\Omega_{\rm c}$	0.211 ± 0.018	$\Omega_{\rm c}h^2$	0.1097 ± 0.0037
Ω_Λ	0.746 ± 0.020	Ω_m	0.254 ± 0.020
$\Omega_m h^2$	$0.1320^{+0.0036}_{-0.0037}$	$r_s(z_d)$	153.8 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.359 ± 0.010	$r_s(z_d)/D_v(z=0.2)$	0.1957 ± 0.0053
$r_s(z_d)/D_v(z=0.35)$	$0.1171^{+0.0028}_{-0.0029}$	$r_s(z_d)/D_v(z=0.44)$	0.0960 ± 0.0022
$r_s(z_d)/D_v(z=0.54)$	0.0809 ± 0.0017	$r_s(z_d)/D_v(z=0.57)$	0.0774 ± 0.0016
$r_s(z_d)/D_v(z=0.6)$	0.0743 ± 0.0015	$r_s(z_d)/D_v(z=0.73)$	0.0639 ± 0.0011
$r_s(z_*)$	147.10 ± 0.98	R	1.712 ± 0.014
σ_8	0.802 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.404 ± 0.023
$\sigma_8\Omega_{\rm m}^{0.6}$	0.353 ± 0.023	$A_{\rm SZ}$	< 1.1 (95% CL)
t_0	$13.679^{+0.082}_{-0.083}$ Gyr	τ	0.083 ± 0.013
θ_*	0.010415 ± 0.000016	θ_*	$0.59672^{+0.00091}_{-0.00090}$ °
$\tau_{\rm rec}$	286.2 ± 2.0	$t_{\rm reion}$	491^{+68}_{-69} Myr
t_*	380177^{+3514}_{-3506} yr	z_d	$1019.62^{+0.83}_{-0.82}$
$z_{\rm eq}$	3160 ± 87	$z_{\rm rec}$	$1088.18^{+0.68}_{-0.69}$
$z_{\rm reion}$	$10.1^{+1.1}_{-1.0}$	z_*	$1090.99^{+0.68}_{-0.67}$

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+spt+act+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.284 ± 0.089	H_0	72.8 ± 1.5 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	α_{-1}	< 0.0080 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5749 ± 32 μK^2	$d_A(z_{\rm eq})$	14309 ± 84 Mpc
$d_A(z_*)$	14145 ± 85 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.84 ± 0.21
η	$(6.127 \pm 0.096) \times 10^{-10}$	$k_{\rm eq}$	0.00956 ± 0.00022
$\ell_{\rm eq}$	135.2 ± 2.4	ℓ_*	301.56 ± 0.43
$n_{\hat{\delta}}$	$(2.516 \pm 0.039) \times 10^{-7}$ cm^{-3}	n_s	0.980 ± 0.010
Ω_b	0.0424 ± 0.0015	$\Omega_b h^2$	0.02241 ± 0.00035
Ω_c	0.205 ± 0.014	$\Omega_c h^2$	0.1086 ± 0.0031
Ω_Λ	0.752 ± 0.015	Ω_m	0.248 ± 0.015
$\Omega_m h^2$	0.1310 ± 0.0030	$r_s(z_d)$	154.05 ± 0.95 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3626 ± 0.0085	$r_s(z_d)/D_v(z=0.2)$	0.1974 ± 0.0043
$r_s(z_d)/D_v(z=0.35)$	0.1180 ± 0.0023	$r_s(z_d)/D_v(z=0.44)$	0.0966 ± 0.0018
$r_s(z_d)/D_v(z=0.54)$	0.0814 ± 0.0014	$r_s(z_d)/D_v(z=0.57)$	0.0779 ± 0.0013
$r_s(z_d)/D_v(z=0.6)$	0.0747 ± 0.0012	$r_s(z_d)/D_v(z=0.73)$	0.06422 ± 0.00093
$r_s(z_*)$	147.36 ± 0.85	R	1.707 ± 0.011
σ_8	0.798 ± 0.017	$\sigma_8 \Omega_m^{0.5}$	0.397 ± 0.019
$\sigma_8 \Omega_m^{0.6}$	0.346 ± 0.018	$A_{\rm SZ}$	< 1.1 (95% CL)
t_0	13.657 ± 0.071 Gyr	τ	$0.084^{+0.013}_{-0.012}$
θ_*	0.010418 ± 0.000015	θ_*	0.59690 ± 0.00085 $^\circ$
$\tau_{\rm rec}$	286.8 ± 1.7	$t_{\rm reion}$	489^{+67}_{-69} Myr
t_*	381217^{+2920}_{-2911} yr	z_d	$1019.66^{+0.83}_{-0.82}$
$z_{\rm eq}$	3135 ± 73	$z_{\rm rec}$	$1088.03^{+0.62}_{-0.63}$
$z_{\rm reion}$	10.2 ± 1.0	z_*	$1090.81^{+0.57}_{-0.58}$

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.426^{+0.076}_{-0.077}$	H_0	$69.01^{+0.87}_{-0.86}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	α_{-1}	< 0.0035 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.4	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5730 ± 32 μK^2	$d_A(z_{\rm eq})$	14166 ± 65 Mpc
$d_A(z_*)$	13999^{+65}_{-66} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.39 ± 0.12
η	$(6.033^{+0.091}_{-0.090}) \times 10^{-10}$	$k_{\rm eq}$	0.01008 ± 0.00015
$\ell_{\rm eq}$	141.1 ± 1.5	ℓ_*	$302.06^{+0.40}_{-0.41}$
$n_{\rm H}$	$(2.478 \pm 0.037) \times 10^{-7}$ cm^{-3}	n_s	$0.9631^{+0.0087}_{-0.0088}$
$\Omega_{\rm b}$	$0.04633^{+0.00100}_{-0.00101}$	$\Omega_{\rm b}h^2$	0.02206 ± 0.00033
$\Omega_{\rm c}$	$0.2438^{+0.0094}_{-0.0095}$	$\Omega_{\rm c}h^2$	0.1160 ± 0.0020
Ω_Λ	0.710 ± 0.010	Ω_m	0.290 ± 0.010
$\Omega_m h^2$	0.1381 ± 0.0020	$r_s(z_d)$	$152.29^{+0.69}_{-0.68}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3415^{+0.0046}_{-0.0045}$	$r_s(z_d)/D_v(z=0.2)$	0.1866 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1123 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09227^{+0.00094}_{-0.00093}$
$r_s(z_d)/D_v(z=0.54)$	$0.07799^{+0.00073}_{-0.00072}$	$r_s(z_d)/D_v(z=0.57)$	$0.07471^{+0.00068}_{-0.00067}$
$r_s(z_d)/D_v(z=0.6)$	$0.07177^{+0.00064}_{-0.00063}$	$r_s(z_d)/D_v(z=0.73)$	0.06191 ± 0.00049
$r_s(z_*)$	$145.60^{+0.59}_{-0.58}$	R	1.7350 ± 0.0062
σ_8	$0.823^{+0.014}_{-0.013}$	$\sigma_8\Omega_m^{0.5}$	$0.443^{+0.012}_{-0.013}$
$\sigma_8\Omega_m^{0.6}$	0.392 ± 0.012	$A_{\rm SZ}$	< 1.1 (95% CL)
t_0	13.785 ± 0.061 Gyr	τ	0.077 ± 0.011
θ_*	0.010401 ± 0.000014	θ_*	$0.59592^{+0.00080}_{-0.00078}$ °
$\tau_{\rm rec}$	282.9 ± 1.1	$t_{\rm reion}$	503^{+69}_{-71} Myr
t_*	374343^{+1794}_{-1772} yr	z_d	$1019.59^{+0.79}_{-0.80}$
$z_{\rm eq}$	3305 ± 48	$z_{\rm rec}$	1088.91 ± 0.60
$z_{\rm reion}$	9.8 ± 1.0	z_*	$1091.93^{+0.48}_{-0.49}$

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.404 ± 0.076	H_0	$69.57^{+0.81}_{-0.82}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	α_{-1}	< 0.0039 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.3	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5736 ± 32 μK^2	$d_A(z_{\rm eq})$	14175 ± 66 Mpc
$d_A(z_*)$	14009 ± 66 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.31 ± 0.12
η	$(6.062 \pm 0.091) \times 10^{-10}$	$k_{\rm eq}$	$0.01002^{+0.00014}_{-0.00015}$
$\ell_{\rm eq}$	$140.4^{+1.4}_{-1.5}$	ℓ_*	301.94 ± 0.40
$n_{\rm b}$	$(2.490 \pm 0.037) \times 10^{-7}$ cm^{-3}	n_s	$0.9662^{+0.0085}_{-0.0087}$
$\Omega_{\rm b}$	$0.04582^{+0.00094}_{-0.00096}$	$\Omega_{\rm b}h^2$	0.02217 ± 0.00033
$\Omega_{\rm c}$	0.2381 ± 0.0088	$\Omega_{\rm c}h^2$	0.1151 ± 0.0019
Ω_Λ	0.7161 ± 0.0096	Ω_m	0.2839 ± 0.0096
$\Omega_m h^2$	$0.1373^{+0.0019}_{-0.0020}$	$r_s(z_d)$	$152.42^{+0.70}_{-0.69}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3443 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	0.1880 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1131 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09284^{+0.00090}_{-0.00091}$
$r_s(z_d)/D_v(z=0.54)$	0.07844 ± 0.00070	$r_s(z_d)/D_v(z=0.57)$	$0.07513^{+0.00065}_{-0.00066}$
$r_s(z_d)/D_v(z=0.6)$	$0.07216^{+0.00061}_{-0.00062}$	$r_s(z_d)/D_v(z=0.73)$	$0.06221^{+0.00047}_{-0.00048}$
$r_s(z_*)$	$145.76^{+0.59}_{-0.58}$	R	1.7313 ± 0.0059
σ_8	$0.821^{+0.014}_{-0.013}$	$\sigma_8\Omega_m^{0.5}$	0.437 ± 0.012
$\sigma_8\Omega_m^{0.6}$	0.386 ± 0.012	$A_{\rm SZ}$	< 1.0 (95% CL)
t_0	13.758 ± 0.060 Gyr	τ	0.078 ± 0.012
θ_*	0.010405 ± 0.000014	θ_*	$0.59614^{+0.00078}_{-0.00079}$ °
$\tau_{\rm rec}$	283.3 ± 1.0	$t_{\rm reion}$	500^{+70}_{-71} Myr
t_*	375141^{+1760}_{-1737} yr	z_d	$1019.76^{+0.79}_{-0.81}$
$z_{\rm eq}$	3286^{+47}_{-48}	$z_{\rm rec}$	$1088.73^{+0.60}_{-0.57}$
$z_{\rm reion}$	9.8 ± 1.0	z_*	$1091.71^{+0.47}_{-0.48}$

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+sdss3

$10^9\Delta^2_{\mathcal{R}}$	2.19 ± 0.12	H_0	74.0 ± 2.4 km/s/Mpc
α_{-1}	< 0.012 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5761 \pm 35\ \mu\mathrm{K}^2$
$d_A(z_{\rm eq})$	14270^{+111}_{-110} Mpc	$d_A(z_*)$	14106 ± 112 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.73 ± 0.32	η	$(6.30 \pm 0.14) \times 10^{-10}$
$k_{\rm eq}$	0.00954 ± 0.00030	$\ell_{\rm eq}$	134.6 ± 3.3
ℓ_*	301.27 ± 0.79	$n_{\rm b}$	$(2.587 \pm 0.057) \times 10^{-7}$ cm^{-3}
n_s	0.996 ± 0.015	$\Omega_{\rm b}$	0.0421 ± 0.0023
$\Omega_{\rm b}h^2$	0.02304 ± 0.00051	$\Omega_{\rm c}$	0.198 ± 0.020
$\Omega_{\rm c}h^2$	0.1077 ± 0.0042	Ω_Λ	0.760 ± 0.022
Ω_m	0.240 ± 0.022	$\Omega_m h^2$	0.1308 ± 0.0041
$r_s(z_d)$	153.5 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.367 ± 0.013
$r_s(z_d)/D_v(z=0.2)$	0.1998 ± 0.0066	$r_s(z_d)/D_v(z=0.35)$	0.1193 ± 0.0035
$r_s(z_d)/D_v(z=0.44)$	0.0976 ± 0.0027	$r_s(z_d)/D_v(z=0.54)$	0.0821 ± 0.0021
$r_s(z_d)/D_v(z=0.57)$	0.0786 ± 0.0020	$r_s(z_d)/D_v(z=0.6)$	0.0754 ± 0.0018
$r_s(z_d)/D_v(z=0.73)$	0.0647 ± 0.0014	$r_s(z_*)$	147.1 ± 1.1
R	1.701 ± 0.016	σ_8	0.803 ± 0.023
$\sigma_8\Omega_m^{0.5}$	0.393 ± 0.026	$\sigma_8\Omega_m^{0.6}$	0.341 ± 0.026
$\alpha_{\rm SDSS}$	1.44 ± 0.11	$\beta_{\rm SDSS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.56 ± 0.13 Gyr
τ	$0.089^{+0.014}_{-0.013}$	θ_*	0.010428 ± 0.000027
θ_*	$0.5975 \pm 0.0016\ ^\circ$	$\tau_{\rm rec}$	287.1 ± 2.3
$t_{\rm reion}$	479^{+68}_{-69} Myr	t_*	381950 ± 3970 yr
$z_{\rm d}$	1021.0 ± 1.1	$z_{\rm eq}$	3130 ± 98
$z_{\rm rec}$	1087.35 ± 0.77	$z_{\rm reion}$	10.3 ± 1.1
z_*	1089.93 ± 0.82		

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+sn1s3+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.201^{+0.100}_{-0.099}$	H_0	73.8 ± 1.7 km/s/Mpc
α_{-1}	< 0.010 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5761 \pm 33\ \mu\mathrm{K}^2$
$d_A(z_{\rm eq})$	14268 ± 106 Mpc	$d_A(z_*)$	14104 ± 107 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.75 ± 0.23	η	$(6.29 \pm 0.12) \times 10^{-10}$
$k_{\rm eq}$	0.00956 ± 0.00025	$\ell_{\rm eq}$	134.8 ± 2.6
ℓ_*	301.31 ± 0.69	n_b	$(2.585 \pm 0.051) \times 10^{-7}\ \mathrm{cm}^{-3}$
n_s	0.995 ± 0.013	Ω_b	0.0423 ± 0.0017
$\Omega_b h^2$	0.02302 ± 0.00046	Ω_c	0.198 ± 0.014
$\Omega_c h^2$	0.1079 ± 0.0033	Ω_Λ	0.759 ± 0.016
Ω_m	0.241 ± 0.016	$\Omega_m h^2$	0.1309 ± 0.0034
$r_s(z_d)$	153.5 ± 1.1 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3664 ± 0.0092
$r_s(z_d)/D_v(z=0.2)$	0.1993 ± 0.0047	$r_s(z_d)/D_v(z=0.35)$	0.1191 ± 0.0025
$r_s(z_d)/D_v(z=0.44)$	0.0974 ± 0.0019	$r_s(z_d)/D_v(z=0.54)$	0.0820 ± 0.0015
$r_s(z_d)/D_v(z=0.57)$	0.0784 ± 0.0014	$r_s(z_d)/D_v(z=0.6)$	0.0753 ± 0.0013
$r_s(z_d)/D_v(z=0.73)$	0.0646 ± 0.0010	$r_s(z_*)$	147.05 ± 0.98
R	1.702 ± 0.012	σ_8	0.804 ± 0.021
$\sigma_8\Omega_m^{0.5}$	0.394 ± 0.021	$\sigma_8\Omega_m^{0.6}$	0.342 ± 0.020
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.57 ± 0.10 Gyr
τ	0.088 ± 0.013	θ_*	0.010427 ± 0.000024
θ_*	$0.5974 \pm 0.0014\ ^\circ$	$\tau_{\rm rec}$	287.0 ± 1.9
$t_{\rm reion}$	478^{+68}_{-69} Myr	t_*	381742^{+3175}_{-3177} yr
z_d	1021.0 ± 1.1	$z_{\rm eq}$	3134^{+80}_{-81}
$z_{\rm rec}$	$1087.38^{+0.67}_{-0.66}$	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1089.97^{+0.64}_{-0.65}$		

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.380^{+0.086}_{-0.085}$	H_0	$69.36^{+0.94}_{-0.96}$ km/s/Mpc
α_{-1}	< 0.0037 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5736 \pm 33\ \mu\mathrm{K}^2$
$d_A(z_{\rm eq})$	14141^{+91}_{-92} Mpc	$d_A(z_*)$	13975^{+92}_{-93} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.38 ± 0.12	η	$(6.16 \pm 0.12) \times 10^{-10}$
$k_{\rm eq}$	$0.01010^{+0.00017}_{-0.00018}$	$\ell_{\rm eq}$	$141.1^{+1.8}_{-1.7}$
ℓ_*	$302.15^{+0.62}_{-0.64}$	$n_{\rm b}$	$(2.529^{+0.049}_{-0.048}) \times 10^{-7}$ cm^{-3}
n_s	0.975 ± 0.011	Ω_b	0.0468 ± 0.0010
$\Omega_b h^2$	$0.02252^{+0.00044}_{-0.00043}$	Ω_c	$0.2410^{+0.0099}_{-0.0095}$
$\Omega_c h^2$	$0.1158^{+0.0022}_{-0.0023}$	Ω_Λ	$0.712^{+0.010}_{-0.011}$
Ω_m	$0.288^{+0.011}_{-0.010}$	$\Omega_m h^2$	0.1384 ± 0.0024
$r_s(z_d)$	151.80 ± 0.89 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3420 ± 0.0046
$r_s(z_d)/D_v(z=0.2)$	$0.1868^{+0.0023}_{-0.0024}$	$r_s(z_d)/D_v(z=0.35)$	0.1124 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09234^{+0.00094}_{-0.00095}$	$r_s(z_d)/D_v(z=0.54)$	$0.07803^{+0.00073}_{-0.00074}$
$r_s(z_d)/D_v(z=0.57)$	$0.07475^{+0.00068}_{-0.00069}$	$r_s(z_d)/D_v(z=0.6)$	0.07180 ± 0.00064
$r_s(z_d)/D_v(z=0.73)$	$0.06193^{+0.00049}_{-0.00050}$	$r_s(z_*)$	$145.30^{+0.74}_{-0.75}$
R	$1.7337^{+0.0064}_{-0.0062}$	σ_8	0.831 ± 0.018
$\sigma_8\Omega_m^{0.5}$	0.446 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.394 ± 0.014
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$13.747^{+0.091}_{-0.089}$ Gyr
τ	$0.084^{+0.012}_{-0.013}$	θ_*	$0.010398^{+0.000022}_{-0.000021}$
θ_*	$0.5957^{+0.0013}_{-0.0012}\ ^\circ$	$\tau_{\rm rec}$	$282.9^{+1.3}_{-1.2}$
$t_{\rm reion}$	471^{+67}_{-68} Myr	t_*	374470^{+2089}_{-2004} yr
z_d	$1020.6^{+1.1}_{-1.0}$	$z_{\rm eq}$	3312^{+57}_{-58}
$z_{\rm rec}$	$1088.42^{+0.62}_{-0.63}$	$z_{\rm reion}$	10.3 ± 1.1
z_*	1091.30 ± 0.57		

WMA

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$10^9\Delta^2_{\mathcal{R}}$	$2.353^{+0.08}_{-0.08}$
α_{-1}	< 0.0042 (95%
$d_A(z_{\rm eq})$	14135 ± 93 M
$D_v(z=0.57)/r_s(z_d)$	$13.31^{+0.11}_{-0.12}$
$k_{\rm eq}$	$0.01007^{+0.00}_{-0.00}$
ℓ_*	$301.95 \pm 0.$
n_s	0.979 ± 0.0
$\Omega_b h^2$	0.02268 ± 0.0
$\Omega_c h^2$	0.1152 ± 0.0
Ω_m	$0.2821^{+0.00}_{-0.00}$
$r_s(z_d)$	$151.78^{+0.91}_{-0.90}$ M
$r_s(z_d)/D_v(z=0.2)$	0.1882 ± 0.0
$r_s(z_d)/D_v(z=0.44)$	$0.09289^{+0.00}_{-0.00}$
$r_s(z_d)/D_v(z=0.57)$	0.07515 ± 0.0
$r_s(z_d)/D_v(z=0.73)$	0.06222 ± 0.0
R	1.7302 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.442 ± 0.0
$\alpha_{\rm SNLS}$	$1.43^{+0.10}_{-0.11}$
$A_{\rm SZ}$	< 2.0 (95% C
τ	0.085 ± 0.0
θ_*	0.5961 ± 0.00
$t_{\rm reion}$	469 ± 68 M
z_d	$1021.0^{+1.0}_{-1.1}$
$z_{\rm rec}$	$1088.21 \pm 0.$
z_*	$1091.03^{+0.}_{-0.}$

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+spt+act+snls3

$10^9\,\Delta^2_{\mathcal{R}}$	2.289 ± 0.095	H_0	72.7 ± 1.7 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	α_{-1}	< 0.0080 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.7 ± 2.3	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 32\ \mu{\rm K}^2$	$d_A(z_{\rm eq})$	14309 ± 87 Mpc
$d_A(z_*)$	14145 ± 88 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.86 ± 0.24
η	$(6.119 \pm 0.100) \times 10^{-10}$	$k_{\rm eq}$	0.00957 ± 0.00024
$\ell_{\rm eq}$	135.3 ± 2.6	ℓ_*	301.60 ± 0.45
$n_{\hat{\delta}}$	$(2.513 \pm 0.041) \times 10^{-7}$ cm^{-3}	n_s	0.979 ± 0.011
$\Omega_{\rm b}$	0.0424 ± 0.0017	$\Omega_{\rm b}h^2$	0.02238 ± 0.00037
$\Omega_{\rm c}$	0.206 ± 0.016	$\Omega_{\rm c}h^2$	0.1087 ± 0.0034
Ω_Λ	0.751 ± 0.017	Ω_m	0.249 ± 0.017
$\Omega_m h^2$	0.1311 ± 0.0033	$r_s(z_d)$	154.05 ± 0.99 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3621 ± 0.0095	$r_s(z_d)/D_v(z=0.2)$	$0.1971^{+0.0048}_{-0.0049}$
$r_s(z_d)/D_v(z=0.35)$	0.1179 ± 0.0026	$r_s(z_d)/D_v(z=0.44)$	0.0965 ± 0.0020
$r_s(z_d)/D_v(z=0.54)$	0.0813 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0778 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0747 ± 0.0014	$r_s(z_d)/D_v(z=0.73)$	$0.0642^{+0.0010}_{-0.0011}$
$r_s(z_*)$	147.35 ± 0.91	R	1.708 ± 0.012
σ_8	0.798 ± 0.017	$\sigma_8\Omega_m^{0.5}$	0.398 ± 0.021
$\sigma_8\Omega_{\rm m}^{0.6}$	0.347 ± 0.020	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.1 (95% CL)
t_0	13.664 ± 0.078 Gyr	τ	0.084 ± 0.013
θ_*	0.010417 ± 0.000015	θ_*	0.59683 ± 0.00088 °
$\tau_{\rm rec}$	286.8 ± 1.8	$t_{\rm reion}$	490^{+68}_{-69} Myr
t_*	381110^{+3193}_{-3190} yr	z_d	$1019.61^{+0.84}_{-0.83}$
$z_{\rm eq}$	3137 ± 79	$z_{\rm rec}$	1088.07 ± 0.66
$z_{\rm reion}$	10.1 ± 1.0	z_*	1090.85 ± 0.63

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.275 ± 0.087	H_0	73.0 ± 1.4 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	α_{-1}	< 0.0082 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5750 ± 32 μK^2	$d_A(z_{\rm eq})$	14321 ± 81 Mpc
$d_A(z_*)$	14157 ± 82 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.80 ± 0.20
η	$(6.131 \pm 0.096) \times 10^{-10}$	$k_{\rm eq}$	0.00952 ± 0.00021
$\ell_{\rm eq}$	134.8 ± 2.2	ℓ_*	301.54 ± 0.42
$n_{\hat{\mathbf{b}}}$	$(2.518 \pm 0.039) \times 10^{-7}$ cm^{-3}	n_s	0.9806 ± 0.0100
$\Omega_{\rm b}$	0.0421 ± 0.0014	$\Omega_{\rm b}h^2$	0.02242 ± 0.00035
$\Omega_{\rm c}$	0.203 ± 0.013	$\Omega_{\rm c}h^2$	0.1080 ± 0.0029
Ω_Λ	0.755 ± 0.014	Ω_m	0.245 ± 0.014
$\Omega_m h^2$	$0.1304^{+0.0028}_{-0.0029}$	$r_s(z_d)$	154.19 ± 0.91 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3641 ± 0.0079	$r_s(z_d)/D_v(z=0.2)$	0.1981 ± 0.0040
$r_s(z_d)/D_v(z=0.35)$	0.1184 ± 0.0022	$r_s(z_d)/D_v(z=0.44)$	0.0970 ± 0.0016
$r_s(z_d)/D_v(z=0.54)$	0.0816 ± 0.0013	$r_s(z_d)/D_v(z=0.57)$	0.0781 ± 0.0012
$r_s(z_d)/D_v(z=0.6)$	0.0750 ± 0.0011	$r_s(z_d)/D_v(z=0.73)$	0.06438 ± 0.00087
$r_s(z_*)$	147.50 ± 0.81	R	1.705 ± 0.010
σ_8	0.796 ± 0.016	$\sigma_8\Omega_m^{0.5}$	0.394 ± 0.018
$\sigma_8\Omega_m^{0.6}$	0.342 ± 0.017	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.1 (95% CL)
t_0	13.650 ± 0.069 Gyr	τ	0.085 ± 0.013
θ_*	0.010419 ± 0.000015	θ_*	0.59694 ± 0.00084 $^\circ$
$\tau_{\rm rec}$	287.1 ± 1.6	$t_{\rm reion}$	489^{+68}_{-69} Myr
t_*	381730^{+2737}_{-2728} yr	z_d	$1019.64^{+0.84}_{-0.83}$
$z_{\rm eq}$	3122 ± 68	$z_{\rm rec}$	1087.98 ± 0.62
$z_{\rm reion}$	10.2 ± 1.0	z_*	$1090.74^{+0.55}_{-0.56}$

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+spt+act+snls3+bao

$10^9 \Delta^2_{\mathcal{R}}$	2.419 ± 0.078	H_0	$69.32^{+0.82}_{-0.80}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	α_{-1}	< 0.0036 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.3	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5734 ± 32 μK^2	$d_A(z_{\rm eq})$	14177 ± 64 Mpc
$d_A(z_*)$	14011 ± 65 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.34 ± 0.12
η	$(6.041^{+0.092}_{-0.091}) \times 10^{-10}$	$k_{\rm eq}$	0.01003 ± 0.00014
$\ell_{\rm eq}$	140.6 ± 1.4	ℓ_*	302.02 ± 0.39
$n_{\hat{\delta}}$	$(2.481^{+0.038}_{-0.037}) \times 10^{-7}$ cm^{-3}	n_s	0.9641 ± 0.0088
Ω_b	$0.04600^{+0.00098}_{-0.00097}$	$\Omega_b h^2$	$0.02209^{+0.00034}_{-0.00033}$
Ω_c	0.2403 ± 0.0089	$\Omega_c h^2$	0.1154 ± 0.0019
Ω_Λ	0.7137 ± 0.0098	Ω_m	0.2863 ± 0.0098
$\Omega_m h^2$	0.1375 ± 0.0020	$r_s(z_d)$	$152.43^{+0.70}_{-0.69}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3432 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	0.1875 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1128 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09262 ± 0.00090
$r_s(z_d)/D_v(z=0.54)$	0.07826 ± 0.00070	$r_s(z_d)/D_v(z=0.57)$	0.07496 ± 0.00065
$r_s(z_d)/D_v(z=0.6)$	0.07200 ± 0.00061	$r_s(z_d)/D_v(z=0.73)$	0.06209 ± 0.00047
$r_s(z_*)$	145.75 ± 0.58	R	$1.7328^{+0.0060}_{-0.0059}$
σ_8	$0.821^{+0.014}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	0.439 ± 0.013
$\sigma_8 \Omega_m^{0.6}$	0.388 ± 0.012	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.0 (95% CL)
t_0	13.775 ± 0.059 Gyr	τ	0.078 ± 0.012
θ_*	0.010402 ± 0.000013	θ_*	0.59599 ± 0.00077 $^\circ$
$\tau_{\rm rec}$	283.2 ± 1.0	$t_{\rm reion}$	500^{+71}_{-72} Myr
t_*	374907^{+1741}_{-1736} yr	z_d	$1019.60^{+0.81}_{-0.79}$
$z_{\rm eq}$	3291 ± 47	$z_{\rm rec}$	1088.84 ± 0.59
$z_{\rm reion}$	9.8 ± 1.0	z_*	1091.83 ± 0.49

WMAP Cosmological Parameters

Model: lcdm+iso+corr

Data: wmap9+spt+act+snls3+bao+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.398 ± 0.076	H_0	$69.79^{+0.79}_{-0.80}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	α_{-1}	< 0.0039 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.3	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5738^{+32}_{-31} μK^2	$d_A(z_{\rm eq})$	14185 ± 65 Mpc
$d_A(z_*)$	14020 ± 66 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.28 ± 0.11
η	$(6.068 \pm 0.092) \times 10^{-10}$	$k_{\rm eq}$	0.00999 ± 0.00014
$\ell_{\rm eq}$	140.0 ± 1.4	ℓ_*	$301.93^{+0.39}_{-0.40}$
$n_{\rm b}$	$(2.492 \pm 0.038) \times 10^{-7}$ cm^{-3}	n_s	$0.9669^{+0.0086}_{-0.0087}$
$\Omega_{\rm b}$	0.04557 ± 0.00093	$\Omega_{\rm b}h^2$	$0.02219^{+0.00084}_{-0.00083}$
$\Omega_{\rm c}$	$0.2354^{+0.0083}_{-0.0085}$	$\Omega_{\rm c}h^2$	$0.1146^{+0.0018}_{-0.0019}$
Ω_Λ	$0.7190^{+0.0093}_{-0.0091}$	Ω_m	$0.2810^{+0.0091}_{-0.0093}$
$\Omega_m h^2$	$0.1368^{+0.0019}_{-0.0020}$	$r_s(z_d)$	$152.54^{+0.70}_{-0.69}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3456 ± 0.0043	$r_s(z_d)/D_v(z=0.2)$	0.1887 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1134 ± 0.0011	$r_s(z_d)/D_v(z=0.44)$	0.09311 ± 0.00087
$r_s(z_d)/D_v(z=0.54)$	0.07864 ± 0.00068	$r_s(z_d)/D_v(z=0.57)$	0.07532 ± 0.00063
$r_s(z_d)/D_v(z=0.6)$	0.07234 ± 0.00059	$r_s(z_d)/D_v(z=0.73)$	0.06235 ± 0.00046
$r_s(z_*)$	145.88 ± 0.58	R	$1.7295^{+0.0057}_{-0.0058}$
σ_8	0.819 ± 0.014	$\sigma_8 \Omega_m^{0.5}$	0.434 ± 0.012
$\sigma_8 \Omega_m^{0.6}$	0.383 ± 0.012	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.0 (95% CL)
t_0	$13.752^{+0.059}_{-0.060}$ Gyr	τ	0.079 ± 0.012
θ_*	$0.010405^{+0.000014}_{-0.000013}$	θ_*	$0.59617^{+0.00078}_{-0.00077}$ °
$\tau_{\rm rec}$	$283.61^{+1.03}_{-1.00}$	$t_{\rm reion}$	498^{+70}_{-71} Myr
t_*	375601^{+1729}_{-1684} yr	z_d	1019.76 ± 0.81
$z_{\rm eq}$	3275^{+46}_{-47}	$z_{\rm rec}$	1088.68 ± 0.58
$z_{\rm reion}$	9.9 ± 1.0	z_*	$1091.63^{+0.48}_{-0.46}$

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9

$10^9\Delta^2_{\mathcal{R}}$	2.36 ± 0.10	H_0	$72.8^{+3.1}_{-3.2}$ km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.34
$\ell(\ell+1)C_{220}/(2\pi)$	5740 ± 36 μK^2	$d_A(z_{\rm eq})$	14241 ± 121 Mpc	$\ell(\ell+1)C_{220}/(2\pi)$	5743 ±
$d_A(z_*)$	14077 ± 123 Mpc	$D_v(z=0.57)/r_s(z_d)$	$12.92^{+0.42}_{-0.41}$	$d_A(z_*)$	14091
η	$(6.36 \pm 0.20) \times 10^{-10}$	$k_{\rm eq}$	0.00968 ± 0.00038	η	(6.38 ± 0.
$\ell_{\rm eq}$	136.2 ± 4.3	ℓ_*	301.91 ± 0.75	$\ell_{\rm eq}$	135.
n_{δ}	$(2.614^{+0.080}_{-0.081}) \times 10^{-7}$ cm^{-3}	n_s	0.994 ± 0.021	n_{δ}	(2.620 ± 0.06
Ω_b	0.0440 ± 0.0028	$\Omega_b h^2$	$0.02328^{+0.00071}_{-0.00072}$	Ω_b	0.0436
Ω_c	0.208 ± 0.028	$\Omega_c h^2$	0.1093 ± 0.0056	Ω_c	0.203
Ω_Λ	0.748 ± 0.031	Ω_m	0.252 ± 0.031	Ω_Λ	0.753
$\Omega_m h^2$	0.1326 ± 0.0052	$r_s(z_d)$	152.8 ± 1.3 Mpc	$\Omega_m h^2$	0.1318
$r_s(z_d)/D_v(z=0.106)$	$0.360^{+0.016}_{-0.017}$	$r_s(z_d)/D_v(z=0.2)$	$0.1961^{+0.0083}_{-0.0084}$	$r_s(z_d)/D_v(z=0.106)$	0.362
$r_s(z_d)/D_v(z=0.35)$	$0.1173^{+0.0044}_{-0.0046}$	$r_s(z_d)/D_v(z=0.44)$	0.0961 ± 0.0034	$r_s(z_d)/D_v(z=0.35)$	0.1179
$r_s(z_d)/D_v(z=0.54)$	$0.0809^{+0.0026}_{-0.0027}$	$r_s(z_d)/D_v(z=0.57)$	0.0775 ± 0.0025	$r_s(z_d)/D_v(z=0.54)$	0.081
$r_s(z_d)/D_v(z=0.6)$	0.0743 ± 0.0023	$r_s(z_d)/D_v(z=0.73)$	0.0639 ± 0.0018	$r_s(z_d)/D_v(z=0.6)$	0.0746
$r_s(z_*)$	146.5 ± 1.3	R	$1.709^{+0.022}_{-0.021}$	$r_s(z_*)$	146.
σ_8	0.805 ± 0.027	$\sigma_8\Omega_m^{0.5}$	0.404 ± 0.036	σ_8	0.803
$\sigma_8\Omega_m^{0.6}$	0.352 ± 0.035	$A_{\rm SZ}$	< 2.0 (95% CL)	$\sigma_8\Omega_m^{0.6}$	0.347
t_0	13.61 ± 0.16 Gyr	τ	0.089 ± 0.014	t_0	13.59 ±
θ_*	0.010406 ± 0.000026	θ_*	0.5962 ± 0.0015 °	θ_*	0.010408
$\tau_{\rm rec}$	286.1 ± 2.9	$t_{\rm reion}$	476^{+69}_{-70} Myr	$\tau_{\rm rec}$	286.
t_*	380420^{+5153}_{-5204} yr	α_0	< 0.15 (95% CL)	t_*	38113
z_d	1021.7 ± 1.4	$z_{\rm eq}$	3174^{+125}_{-124}	z_d	1021
$z_{\rm rec}$	1087.2 ± 1.0	$z_{\rm reion}$	10.3 ± 1.1	$z_{\rm rec}$	1087
z_*	1089.8 ± 1.2			z_*	1089.0

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.459 ± 0.079	H_0	$68.92^{+0.98}_{-0.97}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5729 \pm 33\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14136 ± 93 Mpc
$d_A(z_*)$	13970 ± 94 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.45 ± 0.13
η	$(6.19 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01014 ± 0.00018
$\ell_{\rm eq}$	141.6 ± 1.7	ℓ_*	302.47 ± 0.60
n_b	$(2.543 \pm 0.051) \times 10^{-7}$ cm^{-3}	n_s	0.973 ± 0.011
Ω_b	0.0477 ± 0.0011	$\Omega_b h^2$	0.02264 ± 0.00045
Ω_c	0.245 ± 0.010	$\Omega_c h^2$	0.1163 ± 0.0024
Ω_Λ	0.707 ± 0.011	Ω_m	0.293 ± 0.011
$\Omega_m h^2$	0.1389 ± 0.0025	$r_s(z_d)$	$151.54^{+0.98}_{-0.92}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3395^{+0.0047}_{-0.0048}$	$r_s(z_d)/D_v(z=0.2)$	0.1855 ± 0.0024
$r_s(z_d)/D_v(z=0.35)$	0.1117 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	$0.09179^{+0.00097}_{-0.00098}$
$r_s(z_d)/D_v(z=0.54)$	$0.07760^{+0.00075}_{-0.00076}$	$r_s(z_d)/D_v(z=0.57)$	$0.07434^{+0.00070}_{-0.00071}$
$r_s(z_d)/D_v(z=0.6)$	0.07142 ± 0.00066	$r_s(z_d)/D_v(z=0.73)$	0.06162 ± 0.00051
$r_s(z_*)$	$145.09^{+0.77}_{-0.78}$	R	1.7366 ± 0.0066
σ_8	0.830 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.449 ± 0.015
$\sigma_8\Omega_m^{0.6}$	0.397 ± 0.015	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.771^{+0.060}_{-0.059}$ Gyr	τ	$0.085^{+0.013}_{-0.012}$
θ_*	0.010386 ± 0.000021	θ_*	$0.5951 \pm 0.0012\ ^\circ$
$\tau_{\rm rec}$	282.6 ± 1.3	$t_{\rm reion}$	466^{+65}_{-67} Myr
t_*	374073^{+2108}_{-2120} yr	α_0	< 0.061 (95% CL)
z_d	1020.9 ± 1.1	$z_{\rm eq}$	3325^{+60}_{-59}
$z_{\rm rec}$	$1088.32^{+0.64}_{-0.63}$	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1091.18^{+0.59}_{-0.60}$		

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+bao+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.434 ± 0.078	H_0	$69.61^{+0.90}_{-0.91}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5735 ± 33 μK^2	$d_A(z_{\rm eq})$	14132 ± 93 Mpc
$d_A(z_*)$	13966 ± 94 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.37 ± 0.12
η	$(6.24 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01010 ± 0.00018
$\ell_{\rm eq}$	141.0 ± 1.7	ℓ_*	302.27 ± 0.59
$n_{\hat{\rm b}}$	$(2.565 \pm 0.051) \times 10^{-7}$ cm^{-3}	n_s	$0.978^{+0.011}_{-0.012}$
$\Omega_{\rm b}$	0.0471 ± 0.0010	$\Omega_{\rm b}h^2$	0.02284 ± 0.00045
$\Omega_{\rm c}$	$0.2385^{+0.0093}_{-0.0094}$	$\Omega_{\rm c}h^2$	0.1155 ± 0.0023
Ω_Λ	0.714 ± 0.010	Ω_m	0.286 ± 0.010
$\Omega_m h^2$	0.1383 ± 0.0025	$r_s(z_d)$	151.52 ± 0.93 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3426^{+0.0046}_{-0.0045}$	$r_s(z_d)/D_v(z=0.2)$	0.1871 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1125 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09243^{+0.00093}_{-0.00092}$
$r_s(z_d)/D_v(z=0.54)$	0.07810 ± 0.00072	$r_s(z_d)/D_v(z=0.57)$	0.07481 ± 0.00067
$r_s(z_d)/D_v(z=0.6)$	0.07185 ± 0.00063	$r_s(z_d)/D_v(z=0.73)$	$0.06196^{+0.00049}_{-0.00048}$
$r_s(z_*)$	145.15 ± 0.77	R	$1.7324^{+0.0062}_{-0.0063}$
σ_8	0.830 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.443 ± 0.015
$\sigma_8\Omega_m^{0.6}$	0.391 ± 0.014	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.726 ± 0.088 Gyr	τ	0.086 ± 0.013
θ_*	0.010393 ± 0.000020	θ_*	0.5955 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	282.9 ± 1.3	$t_{\rm reion}$	465^{+65}_{-66} Myr
t_*	374755^{+2102}_{-2095} yr	α_0	< 0.069 (95% CL)
z_d	1021.3 ± 1.1	$z_{\rm eq}$	3311 ± 59
$z_{\rm rec}$	$1088.07^{+0.62}_{-0.63}$	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1090.85^{+0.58}_{-0.57}$		

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	$2.432^{+0.085}_{-0.084}$	H_0	71.1 ± 1.7 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5739 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14252^{+89}_{-88} Mpc	$d_A(z_*)$	14088^{+90}_{-89} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.09 ± 0.25	η	$(6.13 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	$0.00977^{+0.00026}_{-0.00025}$	$\ell_{\rm eq}$	137.7 ± 2.8
ℓ_*	$301.99^{+0.42}_{-0.43}$	n_b	$(2.517 \pm 0.044) \times 10^{-7}$ cm^{-3}
n_s	0.970 ± 0.011	Ω_b	0.0444 ± 0.0018
$\Omega_b h^2$	0.02241 ± 0.00039	Ω_c	0.221 ± 0.018
$\Omega_c h^2$	0.1115 ± 0.0036	Ω_Λ	$0.734^{+0.019}_{-0.020}$
Ω_m	$0.266^{+0.020}_{-0.019}$	$\Omega_m h^2$	0.1339 ± 0.0035
$r_s(z_d)$	153.18 ± 0.98 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3530^{+0.0096}_{-0.0097}$
$r_s(z_d)/D_v(z=0.2)$	0.1925 ± 0.0049	$r_s(z_d)/D_v(z=0.35)$	0.1154 ± 0.0026
$r_s(z_d)/D_v(z=0.44)$	0.0946 ± 0.0020	$r_s(z_d)/D_v(z=0.54)$	$0.0798^{+0.0015}_{-0.0016}$
$r_s(z_d)/D_v(z=0.57)$	$0.0764^{+0.0014}_{-0.0015}$	$r_s(z_d)/D_v(z=0.6)$	0.0734 ± 0.0014
$r_s(z_d)/D_v(z=0.73)$	$0.0631^{+0.0010}_{-0.0011}$	$r_s(z_*)$	146.55 ± 0.91
R	1.719 ± 0.013	σ_8	0.805 ± 0.018
$\sigma_8\Omega_m^{0.5}$	0.415 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.364 ± 0.022
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.718 ± 0.080 Gyr
τ	0.084 ± 0.013	θ_*	$0.010403^{+0.000015}_{-0.000014}$
θ_*	$0.59604^{+0.00084}_{-0.00083}\ ^\circ$	$\tau_{\rm rec}$	285.2 ± 1.9
$t_{\rm reion}$	482^{+67}_{-68} Myr	t_*	378471 ± 3350 yr
α_0	< 0.061 (95% CL)	z_d	$1019.97^{+0.84}_{-0.85}$
$z_{\rm eq}$	3205 ± 84	$z_{\rm rec}$	1088.23 ± 0.70
$z_{\rm reion}$	10.2 ± 1.1	z_*	$1091.06^{+0.70}_{-0.69}$

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	2.406 ± 0.079	H_0	72.0 ± 1.4 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5744 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14283 ± 82 Mpc	$d_A(z_*)$	14119 ± 83 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.96 ± 0.20	η	$(6.16 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	$0.00965^{+0.00021}_{-0.00022}$	$\ell_{\rm eq}$	136.3 ± 2.3
ℓ_*	$301.88^{+0.40}_{-0.41}$	$n_{\rm b}$	$(2.531 \pm 0.041) \times 10^{-7}$ cm^{-3}
n_s	$0.9746^{+0.0099}_{-0.0100}$	$\Omega_{\rm b}$	0.0435 ± 0.0015
$\Omega_{\rm b}h^2$	0.02254 ± 0.00037	Ω_c	0.212 ± 0.014
$\Omega_c h^2$	0.1097 ± 0.0030	Ω_Λ	0.745 ± 0.015
Ω_m	0.255 ± 0.015	$\Omega_m h^2$	$0.1323^{+0.0029}_{-0.0030}$
$r_s(z_d)$	153.54 ± 0.90 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3581 ± 0.0079
$r_s(z_d)/D_v(z=0.2)$	0.1950 ± 0.0040	$r_s(z_d)/D_v(z=0.35)$	0.1168 ± 0.0021
$r_s(z_d)/D_v(z=0.44)$	0.0957 ± 0.0016	$r_s(z_d)/D_v(z=0.54)$	0.0806 ± 0.0013
$r_s(z_d)/D_v(z=0.57)$	0.0772 ± 0.0012	$r_s(z_d)/D_v(z=0.6)$	0.0741 ± 0.0011
$r_s(z_d)/D_v(z=0.73)$	0.06369 ± 0.00086	$r_s(z_*)$	$146.93^{+0.82}_{-0.81}$
R	1.713 ± 0.010	σ_8	0.800 ± 0.017
$\sigma_8\Omega_m^{0.5}$	0.404 ± 0.019	$\sigma_8\Omega_m^{0.6}$	0.353 ± 0.018
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	$13.683^{+0.070}_{-0.071}$ Gyr
τ	0.086 ± 0.013	θ_*	0.010407 ± 0.000014
θ_*	0.59627 ± 0.00080 $^\circ$	$\tau_{\rm rec}$	286.1 ± 1.6
$t_{\rm reion}$	478 ± 66 Myr	t_*	380105^{+2829}_{-2792} yr
α_0	< 0.068 (95% CL)	z_d	$1020.09^{+0.84}_{-0.83}$
$z_{\rm eq}$	3166^{+70}_{-71}	$z_{\rm rec}$	1087.97 ± 0.64
$z_{\rm reion}$	$10.3^{+1.0}_{-1.1}$	z_*	$1090.73^{+0.60}_{-0.58}$

WMAP Cosmological Parameters Model: lcdm+iso+uncorr Data: wmap9+spt+act+bao				WMAP Mo Data:	
$10^9\Delta^2_{\mathcal{R}}$	2.494 ± 0.075	H_0	68.87 ± 0.85 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.475 ± 0.074
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.3	$A_{\rm clustered}$	< 9.9 (95% CL
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5728 \pm 32\ \mu{\rm K}^2$	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL
$d_A(z_{\rm eq})$	14165 ± 67 Mpc	$d_A(z_*)$	13999 ± 68 Mpc	$d_A(z_{\rm eq})$	14174^{+67}_{-68} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.42 ± 0.12	η	$(6.060^{+0.094}_{-0.093}) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	13.34 ± 0.11
$k_{\rm eq}$	0.01009 ± 0.00015	$\ell_{\rm eq}$	141.2 ± 1.5	$k_{\rm eq}$	$0.01003^{+0.0001}_{-0.0001}$
ℓ_s	$302.23^{+0.39}_{-0.40}$	n_b	$(2.489^{+0.039}_{-0.038}) \times 10^{-7}$ cm^{-3}	ℓ_s	302.12 ± 0.39
n_s	$0.9608^{+0.0086}_{-0.0085}$	Ω_b	0.04674 ± 0.00098	n_s	$0.9639^{+0.0085}_{-0.0084}$
$\Omega_b h^2$	0.02216 ± 0.00034	Ω_c	0.2449 ± 0.0094	$\Omega_b h^2$	0.02229 ± 0.000
$\Omega_c h^2$	0.1161 ± 0.0020	Ω_Λ	0.708 ± 0.010	$\Omega_c h^2$	0.1152 ± 0.001
Ω_m	0.292 ± 0.010	$\Omega_m h^2$	0.1382 ± 0.0020	Ω_m	$0.2853^{+0.0096}_{-0.0097}$
$r_s(z_d)$	$152.15^{+0.70}_{-0.71}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3406^{+0.0044}_{-0.0045}$	$r_s(z_d)$	152.26 ± 0.71 M
$r_s(z_d)/D_v(z=0.2)$	0.1861 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0012	$r_s(z_d)/D_v(z=0.2)$	0.1875 ± 0.002
$r_s(z_d)/D_v(z=0.44)$	0.09206 ± 0.00091	$r_s(z_d)/D_v(z=0.54)$	$0.07782^{+0.00070}_{-0.00071}$	$r_s(z_d)/D_v(z=0.44)$	0.09263 ± 0.000
$r_s(z_d)/D_v(z=0.57)$	0.07455 ± 0.00066	$r_s(z_d)/D_v(z=0.6)$	$0.07162^{+0.00061}_{-0.00062}$	$r_s(z_d)/D_v(z=0.57)$	0.07496 ± 0.000
$r_s(z_d)/D_v(z=0.73)$	$0.06179^{+0.00047}_{-0.00048}$	$r_s(z_*)$	$145.51^{+0.59}_{-0.60}$	$r_s(z_d)/D_v(z=0.73)$	0.06209 ± 0.000
R	$1.7360^{+0.0062}_{-0.0061}$	σ_8	0.821 ± 0.014	R	$1.7322^{+0.0058}_{-0.0059}$
$\sigma_8\Omega_m^{0.5}$	0.443 ± 0.013	$\sigma_8\Omega_m^{0.6}$	0.392 ± 0.013	$\sigma_8\Omega_m^{0.5}$	0.437 ± 0.012
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	$13.793^{+0.062}_{-0.063}$ Gyr	$A_{\rm SZ}$	< 1.0 (95% CL
τ	0.078 ± 0.012	θ_*	$0.010395^{+0.000014}_{-0.000015}$	τ	0.080 ± 0.012
θ_*	$0.59557^{+0.00078}_{-0.00077}$ °	$\tau_{\rm rec}$	282.8 ± 1.1	θ_*	$0.59578^{+0.00078}_{-0.00076}$
$t_{\rm reion}$	495^{+70}_{-71} Myr	t_*	374282^{+1774}_{-1765} yr	$t_{\rm reion}$	492^{+69}_{-71} Myr
α_0	< 0.043 (95% CL)	z_d	1019.83 ± 0.82	α_0	< 0.047 (95% C
$z_{\rm eq}$	3309 ± 48	$z_{\rm rec}$	1088.80 ± 0.60	$z_{\rm eq}$	3290 ± 48
$z_{\rm reion}$	9.9 ± 1.0	z_*	$1091.80^{+0.49}_{-0.50}$	$z_{\rm reion}$	9.9 ± 1.0

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+snls3

$10^9 \Delta^2_{\mathcal{R}}$	2.337 ± 0.093	H_0	73.6 ± 2.6 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5743^{+35}_{-36} μK^2	$d_A(z_{\rm eq})$	14267 ± 111 Mpc
$d_A(z_*)$	14103 ± 112 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.81 ± 0.34
η	$(6.40 \pm 0.18) \times 10^{-10}$	$k_{\rm eq}$	0.00958 ± 0.00031
$\ell_{\rm eq}$	135.1 ± 3.5	ℓ_*	301.82 ± 0.71
$n_{\hat{\delta}}$	$(2.627 \pm 0.075) \times 10^{-7}$ cm^{-3}	n_s	$0.998^{+0.020}_{-0.019}$
Ω_b	0.0432 ± 0.0022	$\Omega_b h^2$	$0.02339^{+0.00067}_{-0.00066}$
Ω_c	0.200 ± 0.022	$\Omega_c h^2$	0.1078 ± 0.0045
Ω_Λ	0.756 ± 0.024	Ω_m	0.244 ± 0.024
$\Omega_m h^2$	0.1312 ± 0.0043	$r_s(z_d)$	153.1 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.364 ± 0.014	$r_s(z_d)/D_v(z=0.2)$	0.1982 ± 0.0069
$r_s(z_d)/D_v(z=0.35)$	0.1185 ± 0.0037	$r_s(z_d)/D_v(z=0.44)$	0.0970 ± 0.0028
$r_s(z_d)/D_v(z=0.54)$	0.0816 ± 0.0022	$r_s(z_d)/D_v(z=0.57)$	0.0781 ± 0.0021
$r_s(z_d)/D_v(z=0.6)$	0.0749 ± 0.0019	$r_s(z_d)/D_v(z=0.73)$	0.0643 ± 0.0015
$r_s(z_*)$	146.8 ± 1.1	R	$1.704^{+0.017}_{-0.018}$
σ_8	0.799 ± 0.024	$\sigma_8 \Omega_m^{0.5}$	0.394 ± 0.029
$\sigma_8 \Omega_m^{0.6}$	0.342 ± 0.028	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.58 ± 0.14 Gyr	τ	0.090 ± 0.014
θ_*	0.010409 ± 0.000025	θ_*	0.5964 ± 0.0014 $^\circ$
$\tau_{\rm rec}$	286.9 ± 2.4	$t_{\rm reion}$	478 ± 70 Myr
t_*	381787^{+4242}_{-4238} yr	α_0	< 0.15 (95% CL)
z_d	1021.8 ± 1.3	$z_{\rm eq}$	3141 ± 102
$z_{\rm rec}$	$1087.04^{+0.92}_{-0.93}$	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1089.5^{+1.0}_{-1.1}$		

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.333 ± 0.083	H_0	73.6 ± 1.8 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5744 ± 35 μK^2	$d_A(z_{\rm eq})$	14269 ± 106 Mpc
$d_A(z_*)$	14105 ± 107 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.81 ± 0.23
η	$(6.39 \pm 0.15) \times 10^{-10}$	$k_{\rm eq}$	0.00958 ± 0.00025
$\ell_{\rm eq}$	135.0 ± 2.6	ℓ_*	301.82 ± 0.63
n_{δ}	$(2.624 \pm 0.061) \times 10^{-7}$ cm^{-3}	n_s	0.998 ± 0.015
Ω_b	0.0432 ± 0.0016	$\Omega_b h^2$	0.02337 ± 0.00054
Ω_c	0.200 ± 0.015	$\Omega_c h^2$	0.1078 ± 0.0034
Ω_Λ	0.757 ± 0.017	Ω_m	0.243 ± 0.017
$\Omega_m h^2$	0.1312 ± 0.0034	$r_s(z_d)$	153.1 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3643 ± 0.0093	$r_s(z_d)/D_v(z=0.2)$	0.1981 ± 0.0047
$r_s(z_d)/D_v(z=0.35)$	0.1184 ± 0.0025	$r_s(z_d)/D_v(z=0.44)$	0.0969 ± 0.0019
$r_s(z_d)/D_v(z=0.54)$	0.0816 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0781 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0749 ± 0.0013	$r_s(z_d)/D_v(z=0.73)$	0.0643 ± 0.0010
$r_s(z_*)$	146.81 ± 0.97	R	1.704 ± 0.012
σ_8	0.799 ± 0.021	$\sigma_8\Omega_m^{0.5}$	0.394 ± 0.022
$\sigma_8\Omega_m^{0.6}$	0.342 ± 0.021	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.58 ± 0.11 Gyr	τ	0.090 ± 0.014
θ_*	0.010409 ± 0.000022	θ_*	0.5964 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	286.9 ± 1.9	$t_{\rm reion}$	477 ± 69 Myr
t_*	381789^{+3230}_{-3235} yr	α_0	< 0.13 (95% CL)
z_d	1021.8 ± 1.2	$z_{\rm eq}$	3140 ± 81
$z_{\rm rec}$	1087.05 ± 0.74	$z_{\rm reion}$	10.4 ± 1.1
z_*	1089.53 ± 0.77		

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+snls3+bao

$10^9 \Delta^2_{\mathcal{R}}$	2.446 ± 0.079	H_0	69.26 ± 0.95 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5731 ± 34 μK^2	$d_A(z_{\rm eq})$	14152^{+95}_{-92} Mpc
$d_A(z_*)$	13986^{+98}_{-92} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.40 ± 0.12
η	$(6.20 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.01009 ± 0.00018
$\ell_{\rm eq}$	141.1 ± 1.7	ℓ_*	$302.47^{+0.81}_{-0.80}$
n_δ	$(2.548^{+0.051}_{-0.052}) \times 10^{-7}$ cm^{-3}	n_s	$0.975^{+0.012}_{-0.011}$
Ω_b	0.0473 ± 0.0010	$\Omega_b h^2$	0.02269 ± 0.00046
Ω_c	$0.2410^{+0.0098}_{-0.0097}$	$\Omega_c h^2$	0.1155 ± 0.0023
Ω_Λ	0.712 ± 0.011	Ω_m	0.288 ± 0.011
$\Omega_m h^2$	0.1382 ± 0.0025	$r_s(z_d)$	$151.70^{+0.93}_{-0.92}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3413 ± 0.0047	$r_s(z_d)/D_v(z=0.2)$	0.1865 ± 0.0024
$r_s(z_d)/D_v(z=0.35)$	0.1122 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.09216 ± 0.00096
$r_s(z_d)/D_v(z=0.54)$	0.07789 ± 0.00074	$r_s(z_d)/D_v(z=0.57)$	0.07461 ± 0.00069
$r_s(z_d)/D_v(z=0.6)$	0.07167 ± 0.00065	$r_s(z_d)/D_v(z=0.73)$	0.06182 ± 0.00050
$r_s(z_*)$	$145.26^{+0.77}_{-0.76}$	R	1.7340 ± 0.0064
σ_8	0.827 ± 0.018	$\sigma_8 \Omega_m^{0.5}$	0.444 ± 0.015
$\sigma_8 \Omega_m^{0.6}$	0.392 ± 0.014	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.761^{+0.092}_{-0.091}$ Gyr	τ	0.085 ± 0.013
θ_*	0.010387 ± 0.000021	θ_*	0.5951 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	283.0 ± 1.3	$t_{\rm reion}$	468^{+66}_{-67} Myr
t_*	374766^{+2087}_{-2104} yr	α_0	< 0.063 (95% CL)
z_d	1021.0 ± 1.1	$z_{\rm eq}$	3308 ± 59
$z_{\rm rec}$	1088.22 ± 0.63	$z_{\rm reion}$	10.3 ± 1.1
z_*	1091.05 ± 0.59		

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.423^{+0.077}_{-0.079}$	H_0	$69.88^{+0.89}_{-0.90}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5736 ± 34 μK^2	$d_A(z_{\rm eq})$	14146^{+94}_{-92} Mpc
$d_A(z_*)$	13980^{+95}_{-92} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.33 ± 0.12
η	$(6.26 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01005 ± 0.00018
$\ell_{\rm eq}$	140.5 ± 1.6	ℓ_*	302.27 ± 0.59
n_b	$(2.569 \pm 0.051) \times 10^{-7}$ cm^{-3}	n_s	0.980 ± 0.011
Ω_b	$0.04686^{+0.00100}_{-0.00099}$	$\Omega_b h^2$	0.02288 ± 0.00045
Ω_c	0.2353 ± 0.0090	$\Omega_c h^2$	0.1148 ± 0.0023
Ω_Λ	0.7178 ± 0.0098	Ω_m	0.2822 ± 0.0098
$\Omega_m h^2$	0.1377 ± 0.0024	$r_s(z_d)$	$151.66^{+0.93}_{-0.92}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3441 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	0.1879 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1129 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09274^{+0.00080}_{-0.00091}$
$r_s(z_d)/D_v(z=0.54)$	0.07834 ± 0.00070	$r_s(z_d)/D_v(z=0.57)$	0.07503 ± 0.00065
$r_s(z_d)/D_v(z=0.6)$	0.07206 ± 0.00061	$r_s(z_d)/D_v(z=0.73)$	0.06212 ± 0.00047
$r_s(z_*)$	$145.29^{+0.77}_{-0.76}$	R	1.7303 ± 0.0061
σ_8	0.827 ± 0.018	$\sigma_8\Omega_m^{0.5}$	0.439 ± 0.014
$\sigma_8\Omega_m^{0.6}$	0.387 ± 0.014	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.719^{+0.088}_{-0.087}$ Gyr	τ	0.086 ± 0.013
θ_*	0.010393 ± 0.000020	θ_*	0.5955 ± 0.0012 °
$\tau_{\rm rec}$	$283.3^{+1.3}_{-1.2}$	$t_{\rm reion}$	467^{+66}_{-67} Myr
t_*	375343^{+2076}_{-2054} yr	α_0	< 0.071 (95% CL)
z_d	1021.4 ± 1.1	$z_{\rm eq}$	3296 ± 58
$z_{\rm rec}$	1087.99 ± 0.63	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1090.74^{+0.58}_{-0.57}$		

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.413 ± 0.081	H_0	71.8 ± 1.6 km/s/Mpc
$A_{\rm clustered}$	< 9.9 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5743 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14280^{+84}_{-85} Mpc	$d_A(z_*)$	14116^{+85}_{-86} Mpc
$D_v(z=0.57)/r_s(z_d)$	$12.99^{+0.23}_{-0.22}$	η	$(6.15^{+0.10}_{-0.11}) \times 10^{-10}$
$k_{\rm eq}$	0.00968 ± 0.00023	$\ell_{\rm eq}$	136.6 ± 2.5
ℓ_*	301.93 ± 0.42	n_b	$(2.526 \pm 0.043) \times 10^{-7}$ cm^{-3}
n_s	0.973 ± 0.011	Ω_b	0.0437 ± 0.0016
$\Omega_b h^2$	$0.02249^{+0.00038}_{-0.00039}$	Ω_c	0.214 ± 0.016
$\Omega_c h^2$	0.1101 ± 0.0033	Ω_Λ	0.742 ± 0.017
Ω_m	0.258 ± 0.017	$\Omega_m h^2$	0.1326 ± 0.0032
$r_s(z_d)$	$153.50^{+0.93}_{-0.94}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3569^{+0.0088}_{-0.0089}$
$r_s(z_d)/D_v(z=0.2)$	0.1944 ± 0.0045	$r_s(z_d)/D_v(z=0.35)$	0.1165 ± 0.0024
$r_s(z_d)/D_v(z=0.44)$	0.0954 ± 0.0018	$r_s(z_d)/D_v(z=0.54)$	0.0804 ± 0.0014
$r_s(z_d)/D_v(z=0.57)$	0.0770 ± 0.0013	$r_s(z_d)/D_v(z=0.6)$	$0.0739^{+0.0012}_{-0.0013}$
$r_s(z_d)/D_v(z=0.73)$	$0.06356^{+0.00096}_{-0.00097}$	$r_s(z_*)$	$146.88^{+0.85}_{-0.86}$
R	1.714 ± 0.012	σ_8	0.800 ± 0.017
$\sigma_8\Omega_m^{0.5}$	0.406 ± 0.020	$\sigma_8\Omega_m^{0.6}$	0.355 ± 0.020
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	$13.695^{+0.078}_{-0.077}$ Gyr
τ	0.085 ± 0.013	θ_*	$0.010405^{+0.000014}_{-0.000015}$
θ_*	0.59617 ± 0.00083 °	$\tau_{\rm rec}$	286.0 ± 1.8
$t_{\rm reion}$	479 ± 67 Myr	t_*	379789^{+3082}_{-3068} yr
a_0	< 0.065 (95% CL)	z_d	1020.01 ± 0.85
$z_{\rm eq}$	3173^{+76}_{-77}	$z_{\rm rec}$	$1088.04^{+0.68}_{-0.67}$
$z_{\rm reion}$	10.3 ± 1.1	z_*	$1090.83^{+0.65}_{-0.66}$

WMAP Cosmological Parameters

Model: lcdm+iso+uncorr

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.396^{+0.077}_{-0.078}$	H_0	72.4 ± 1.4 km/s/Mpc
$A_{\rm clustered}$	< 9.7 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5746 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14299 ± 80 Mpc	$d_A(z_*)$	14135 ± 81 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.91 ± 0.19	η	$(6.174 \pm 0.100) \times 10^{-10}$
$k_{\rm eq}$	$0.00960^{+0.00020}_{-0.00021}$	$\ell_{\rm eq}$	135.7 ± 2.2
ℓ_*	301.85 ± 0.40	n_b	$(2.536 \pm 0.041) \times 10^{-7}$ cm^{-3}
n_s	$0.9761^{+0.0086}_{-0.0089}$	Ω_b	0.0431 ± 0.0014
$\Omega_b h^2$	$0.02258^{+0.00037}_{-0.00036}$	Ω_c	0.208 ± 0.013
$\Omega_c h^2$	0.1089 ± 0.0028	Ω_Λ	0.749 ± 0.014
Ω_m	0.251 ± 0.014	$\Omega_m h^2$	0.1315 ± 0.0028
$r_s(z_d)$	$153.73^{+0.87}_{-0.88}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3603^{+0.0076}_{-0.0075}$
$r_s(z_d)/D_v(z=0.2)$	$0.1961^{+0.0039}_{-0.0038}$	$r_s(z_d)/D_v(z=0.35)$	0.1174 ± 0.0021
$r_s(z_d)/D_v(z=0.44)$	0.0961 ± 0.0016	$r_s(z_d)/D_v(z=0.54)$	0.0810 ± 0.0012
$r_s(z_d)/D_v(z=0.57)$	0.0775 ± 0.0011	$r_s(z_d)/D_v(z=0.6)$	0.0744 ± 0.0011
$r_s(z_d)/D_v(z=0.73)$	$0.06392^{+0.00083}_{-0.00082}$	$r_s(z_*)$	147.12 ± 0.79
R	1.7097 ± 0.0099	σ_8	0.797 ± 0.016
$\sigma_8\Omega_m^{0.5}$	0.399 ± 0.017	$\sigma_8\Omega_m^{0.6}$	0.348 ± 0.017
$\alpha_{\rm SNLS}$	1.43 ± 0.10	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.671 ± 0.070 Gyr
τ	0.087 ± 0.013	θ_*	0.010408 ± 0.000014
θ_*	$0.59633^{+0.00080}_{-0.00078}$ ○	$\tau_{\rm rec}$	286.6 ± 1.6
$t_{\rm reion}$	476 ± 67 Myr	t_*	380836 ± 2676 yr
a_0	< 0.068 (95% CL)	z_d	$1020.11^{+0.83}_{-0.84}$
$z_{\rm eq}$	3148 ± 67	$z_{\rm rec}$	$1087.87^{+0.63}_{-0.62}$
$z_{\rm reion}$	10.3 ± 1.1	z_*	1090.61 ± 0.58

WMAP Cosmological Parameters Model: lcdm+iso+uncorr Data: wmap9+spt+act+sdss3+bao				WMAP Mod Data: wma	
$10^9\Delta^2_{\mathcal{R}}$	$2.485^{+0.073}_{-0.072}$	H_0	$69.16^{+0.83}_{-0.85}$ km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	$2.469^{+0.072}_{-0.071}$
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	15.0 ± 2.2	$A_{\rm clustered}$	< 10 (95% CL
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5731 \pm 31\ \mu{\rm K}^2$	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL
$d_A(z_{\rm eq})$	14180 ± 67 Mpc	$d_A(z_*)$	14014^{+67}_{-68} Mpc	$d_A(z_{\rm eq})$	14188 ± 66 Mp
$D_v(z=0.57)/r_s(z_d)$	13.37 ± 0.12	η	$(6.068^{+0.095}_{-0.092}) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	13.30 ± 0.11
$k_{\rm eq}$	$0.01004^{+0.00015}_{-0.00014}$	$\ell_{\rm eq}$	140.7 ± 1.4	$k_{\rm eq}$	0.00999 ± 0.000
ℓ_s	$302.23^{+0.40}_{-0.39}$	n_b	$(2.492^{+0.039}_{-0.038}) \times 10^{-7}$ cm^{-3}	ℓ_s	$302.13^{+0.39}_{-0.38}$
n_s	$0.9621^{+0.0085}_{-0.0087}$	Ω_b	$0.04641^{+0.00095}_{-0.00096}$	n_s	0.9648 ± 0.008
$\Omega_b h^2$	$0.02219^{+0.00055}_{-0.00054}$	Ω_c	$0.2414^{+0.0095}_{-0.0092}$	$\Omega_b h^2$	$0.02230^{+0.0003}_{-0.0003}$
$\Omega_c h^2$	0.1154 ± 0.0019	Ω_Λ	$0.7122^{+0.0100}_{-0.0099}$	$\Omega_c h^2$	0.1146 ± 0.001
Ω_m	$0.2878^{+0.0099}_{-0.0100}$	$\Omega_m h^2$	0.1376 ± 0.0020	Ω_m	$0.2821^{+0.0096}_{-0.0092}$
$r_s(z_d)$	152.32 ± 0.69 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3422 ± 0.0044	$r_s(z_d)$	$152.42^{+0.69}_{-0.68}$ Mp
$r_s(z_d)/D_v(z=0.2)$	0.1870 ± 0.0022	$r_s(z_d)/D_v(z=0.35)$	0.1125 ± 0.0012	$r_s(z_d)/D_v(z=0.2)$	$0.1883^{+0.0021}_{-0.0022}$
$r_s(z_d)/D_v(z=0.44)$	$0.09239^{+0.00090}_{-0.00089}$	$r_s(z_d)/D_v(z=0.54)$	$0.07808^{+0.00070}_{-0.00069}$	$r_s(z_d)/D_v(z=0.44)$	$0.09292^{+0.0008}_{-0.0008}$
$r_s(z_d)/D_v(z=0.57)$	0.07479 ± 0.00065	$r_s(z_d)/D_v(z=0.6)$	0.07184 ± 0.00061	$r_s(z_d)/D_v(z=0.57)$	$0.07517^{+0.0006}_{-0.0006}$
$r_s(z_d)/D_v(z=0.73)$	$0.06196^{+0.00047}_{-0.00046}$	$r_s(z_*)$	$145.67^{+0.58}_{-0.60}$	$r_s(z_d)/D_v(z=0.73)$	$0.06224^{+0.0004}_{-0.0004}$
R	$1.7337^{+0.0060}_{-0.0061}$	σ_8	0.819 ± 0.013	R	$1.7302^{+0.0059}_{-0.0057}$
$\sigma_8\Omega_m^{0.5}$	$0.439^{+0.012}_{-0.013}$	$\sigma_8\Omega_m^{0.6}$	0.388 ± 0.012	$\sigma_8\Omega_m^{0.5}$	0.434 ± 0.012
$\alpha_{\rm SNLS}$	1.44 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11	$\alpha_{\rm SNLS}$	1.44 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	$13.787^{+0.053}_{-0.052}$ Gyr	$A_{\rm SZ}$	< 1.0 (95% CL
τ	$0.079^{+0.012}_{-0.011}$	θ_*	0.010395 ± 0.000014	τ	0.080 ± 0.012
θ_*	$0.59558^{+0.00077}_{-0.00078}$ ◦	$\tau_{\rm rec}$	$283.2^{+1.0}_{-1.1}$	θ_*	$0.59577^{+0.00075}_{-0.00077}$
$t_{\rm reion}$	492^{+66}_{-69} Myr	t_*	374908^{+1760}_{-1746} yr	$t_{\rm reion}$	489^{+67}_{-69} Myr
α_0	< 0.044 (95% CL)	$z_{\rm d}$	$1019.83^{+0.83}_{-0.82}$	α_0	< 0.048 (95% C
$z_{\rm eq}$	3293^{+49}_{-47}	$z_{\rm rec}$	1088.73 ± 0.59	$z_{\rm eq}$	3276^{+47}_{-46}
$z_{\rm reion}$	$9.94^{+1.03}_{-1.00}$	z_*	$1091.70^{+0.47}_{-0.49}$	$z_{\rm reion}$	10.0 ± 1.0

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9

$10^9 \Delta^2_{\mathcal{R}}$	2.48 ± 0.12	H_0	$64.0^{+4.5}_{-4.6}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 36\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14150 ± 124 Mpc
$d_A(z_*)$	13984 ± 125 Mpc	$D_v(z=0.57)/r_s(z_d)$	$14.05^{+0.62}_{-0.60}$
η	$(6.09 \pm 0.16) \times 10^{-10}$	$k_{\rm eq}$	0.01008 ± 0.00034
$\ell_{\rm eq}$	140.9 ± 3.6	ℓ_*	302.37 ± 0.66
$\sum m_\nu$	< 1.3 eV (95% CL)	$n_{\hat{\mathbf{s}}}$	$(2.500 \pm 0.064) \times 10^{-7}$ cm^{-3}
n_s	0.962 ± 0.016	Ω_b	$0.0550^{+0.0070}_{-0.0067}$
$\Omega_b h^2$	0.02226 ± 0.00057	Ω_c	$0.287^{+0.049}_{-0.048}$
$\Omega_c h^2$	$0.1157^{+0.0048}_{-0.0047}$	Ω_Λ	$0.641^{+0.065}_{-0.068}$
Ω_m	$0.359^{+0.068}_{-0.065}$	$\Omega_m h^2$	$0.1441^{+0.0070}_{-0.0069}$
$\Omega_\nu h^2$	< 0.014 (95% CL)	$r_s(z_d)$	151.9 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.318^{+0.021}_{-0.022}$	$r_s(z_d)/D_v(z=0.2)$	0.175 ± 0.011
$r_s(z_d)/D_v(z=0.35)$	$0.1061^{+0.0057}_{-0.0058}$	$r_s(z_d)/D_v(z=0.44)$	0.0876 ± 0.0043
$r_s(z_d)/D_v(z=0.54)$	0.0743 ± 0.0033	$r_s(z_d)/D_v(z=0.57)$	0.0713 ± 0.0031
$r_s(z_d)/D_v(z=0.6)$	0.0686 ± 0.0029	$r_s(z_d)/D_v(z=0.73)$	0.0595 ± 0.0022
$r_s(z_*)$	145.3 ± 1.2	R	1.770 ± 0.032
σ_8	$0.706^{+0.077}_{-0.078}$	$\sigma_8 \Omega_m^{0.5}$	0.419 ± 0.030
$\sigma_8 \Omega_m^{0.6}$	0.377 ± 0.029	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	14.09 ± 0.26 Gyr	τ	0.086 ± 0.013
θ_*	0.010390 ± 0.000023	θ_*	$0.5953 \pm 0.0013\ ^\circ$
$\tau_{\rm rec}$	282.5 ± 2.6	$t_{\rm reion}$	439^{+63}_{-64} Myr
t_*	373643^{+4664}_{-4680} yr	z_d	1020.0 ± 1.2
$z_{\rm eq}$	3301 ± 109	$z_{\rm rec}$	1088.80 ± 0.96
$z_{\rm reion}$	10.6 ± 1.1	z_*	1091.6 ± 1.0

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.336 ± 0.087	H_0	70.9 ± 1.8 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5764 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14257 ± 111 Mpc
$d_A(z_*)$	14093 ± 112 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.12 ± 0.24
η	$(6.27 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00968 ± 0.00027
$\ell_{\rm eq}$	136.4 ± 2.8	ℓ_*	301.99 ± 0.61
$\sum m_\nu$	< 0.38 eV (95% CL)	$n_{\hat{\mathbf{0}}}$	$(2.575 \pm 0.052) \times 10^{-7}$ cm^{-3}
n_s	0.981 ± 0.011	Ω_b	0.0456 ± 0.0020
$\Omega_b h^2$	0.02293 ± 0.00046	Ω_c	$0.219^{+0.017}_{-0.018}$
$\Omega_c h^2$	$0.1097^{+0.0037}_{-0.0036}$	Ω_Λ	0.733 ± 0.019
Ω_m	0.267 ± 0.019	$\Omega_m h^2$	0.1342 ± 0.0036
$\Omega_\nu h^2$	< 0.0040 (95% CL)	$r_s(z_d)$	153.1 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3520^{+0.0094}_{-0.0096}$	$r_s(z_d)/D_v(z=0.2)$	0.1919 ± 0.0048
$r_s(z_d)/D_v(z=0.35)$	$0.1151^{+0.0025}_{-0.0026}$	$r_s(z_d)/D_v(z=0.44)$	$0.0944^{+0.0019}_{-0.0020}$
$r_s(z_d)/D_v(z=0.54)$	0.0796 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0762 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0732 ± 0.0013	$r_s(z_d)/D_v(z=0.73)$	0.0630 ± 0.0010
$r_s(z_*)$	146.6 ± 1.0	R	1.721 ± 0.013
σ_8	$0.776^{+0.035}_{-0.036}$	$\sigma_8 \Omega_m^{0.5}$	0.401 ± 0.024
$\sigma_8 \Omega_m^{0.6}$	0.352 ± 0.023	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.73 ± 0.11 Gyr	τ	0.093 ± 0.014
θ_*	0.010403 ± 0.000021	θ_*	$0.5961 \pm 0.0012^\circ$
$\tau_{\rm rec}$	286.0 ± 2.0	$t_{\rm reion}$	443 ± 63 Myr
t_*	379972^{+3378}_{-3387} yr	z_d	1021.0 ± 1.1
$z_{\rm eq}$	3175 ± 87	$z_{\rm rec}$	$1087.59^{+0.69}_{-0.70}$
$z_{\rm reion}$	10.8 ± 1.1	z_*	$1090.23^{+0.69}_{-0.67}$

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.407^{+0.084}_{-0.085}$	H_0	67.8 ± 1.1 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5751 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14207^{+102}_{-101} Mpc
$d_A(z_*)$	14041^{+104}_{-102} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.54 ± 0.13
η	$(6.17 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.00991 ± 0.00024
$\ell_{\rm eq}$	139.1 ± 2.5	ℓ_*	302.31 ± 0.62
$\sum m_\nu$	< 0.58 eV (95% CL)	$n_{\hat{\mathbf{s}}}$	$(2.536 \pm 0.050) \times 10^{-7}$ cm^{-3}
n_s	0.972 ± 0.011	Ω_b	0.0492 ± 0.0015
$\Omega_b h^2$	0.02258 ± 0.00044	Ω_c	0.246 ± 0.010
$\Omega_c h^2$	$0.1131^{+0.0032}_{-0.0033}$	Ω_Λ	0.698 ± 0.012
Ω_m	0.302 ± 0.012	$\Omega_m h^2$	0.1386 ± 0.0025
$\Omega_\nu h^2$	< 0.0061 (95% CL)	$r_s(z_d)$	152.4 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3361 ± 0.0049	$r_s(z_d)/D_v(z=0.2)$	0.1839 ± 0.0025
$r_s(z_d)/D_v(z=0.35)$	0.1108 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	$0.09115^{+0.00100}_{-0.00099}$
$r_s(z_d)/D_v(z=0.54)$	0.07711 ± 0.00077	$r_s(z_d)/D_v(z=0.57)$	0.07389 ± 0.00072
$r_s(z_d)/D_v(z=0.6)$	$0.07100^{+0.00068}_{-0.00067}$	$r_s(z_d)/D_v(z=0.73)$	0.06131 ± 0.00052
$r_s(z_*)$	$145.92^{+0.92}_{-0.91}$	R	$1.7432^{+0.0070}_{-0.0071}$
σ_8	0.758 ± 0.051	$\sigma_8\Omega_m^{0.5}$	$0.416^{+0.027}_{-0.028}$
$\sigma_8\Omega_m^{0.6}$	0.369 ± 0.024	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.89 ± 0.11 Gyr	τ	0.089 ± 0.013
θ_*	0.010392 ± 0.000021	θ_*	$0.5954 \pm 0.0012\ ^\circ$
$\tau_{\rm rec}$	284.2 ± 1.7	$t_{\rm reion}$	445^{+63}_{-64} Myr
t_*	376692^{+2805}_{-2786} yr	z_d	1020.5 ± 1.1
$z_{\rm eq}$	3248^{+78}_{-79}	$z_{\rm rec}$	1088.19 ± 0.65
$z_{\rm reion}$	10.7 ± 1.1	z_*	1090.98 ± 0.63

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+bao+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.389 ± 0.082	H_0	68.79 ± 0.97 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5756 \pm 33\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14186 ± 98 Mpc
$d_A(z_*)$	14021 ± 99 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.42 ± 0.12
η	$(6.23 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.00992 ± 0.00022
$\ell_{\rm eq}$	139.1 ± 2.2	ℓ_*	302.15 ± 0.60
$\sum m_\nu$	< 0.46 eV (95% CL)	$n_{\hat{\mathbf{b}}}$	$(2.557 \pm 0.049) \times 10^{-7}$ cm^{-3}
n_s	0.975 ± 0.011	Ω_b	0.0481 ± 0.0013
$\Omega_b h^2$	$0.02277^{+0.00043}_{-0.00044}$	Ω_c	$0.2393^{+0.0095}_{-0.0094}$
$\Omega_c h^2$	0.1132 ± 0.0030	Ω_Λ	0.708 ± 0.011
Ω_m	0.292 ± 0.011	$\Omega_m h^2$	0.1380 ± 0.0025
$\Omega_\nu h^2$	< 0.0049 (95% CL)	$r_s(z_d)$	152.2 ± 1.0 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3403 ± 0.0046	$r_s(z_d)/D_v(z=0.2)$	0.1860 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09200 ± 0.00094
$r_s(z_d)/D_v(z=0.54)$	$0.07777^{+0.00072}_{-0.00073}$	$r_s(z_d)/D_v(z=0.57)$	$0.07451^{+0.00067}_{-0.00068}$
$r_s(z_d)/D_v(z=0.6)$	$0.07157^{+0.00063}_{-0.00064}$	$r_s(z_d)/D_v(z=0.73)$	0.06175 ± 0.00049
$r_s(z_*)$	145.78 ± 0.87	R	1.7373 ± 0.0065
σ_8	$0.778^{+0.042}_{-0.044}$	$\sigma_8 \Omega_m^{0.5}$	$0.420^{+0.023}_{-0.024}$
$\sigma_8 \Omega_m^{0.6}$	$0.371^{+0.021}_{-0.022}$	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.809 ± 0.097 Gyr	τ	$0.090^{+0.013}_{-0.014}$
θ_*	0.010398 ± 0.000021	θ_*	$0.5957 \pm 0.0012^\circ$
$\tau_{\rm rec}$	284.1 ± 1.6	$t_{\rm reion}$	445^{+64}_{-63} Myr
t_*	376714^{+2603}_{-2613} yr	z_d	1020.9 ± 1.1
$z_{\rm eq}$	3254^{+72}_{-73}	$z_{\rm rec}$	1088.00 ± 0.64
$z_{\rm reion}$	10.7 ± 1.1	z_*	1090.74 ± 0.60

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	2.59 ± 0.12	H_0	$60.7^{+4.5}_{-4.2}$ km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.1 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 15 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5757 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14087 ± 116 Mpc	$d_A(z_*)$	13921 ± 117 Mpc
$D_v(z=0.57)/r_s(z_d)$	$14.47^{+0.59}_{-0.64}$	η	$(5.95 \pm 0.12) \times 10^{-10}$
$k_{\rm eq}$	0.01024 ± 0.00031	$\ell_{\rm eq}$	142.6 ± 3.2
ℓ_*	302.06 ± 0.43	$\sum m_\nu$	< 1.5 eV (95% CL)
n_b	$(2.443^{+0.049}_{-0.050}) \times 10^{-7}$ cm^{-3}	n_s	0.947 ± 0.014
Ω_b	$0.0597^{+0.0073}_{-0.0079}$	$\Omega_b h^2$	0.02175 ± 0.00044
Ω_c	$0.327^{+0.064}_{-0.057}$	$\Omega_c h^2$	0.1183 ± 0.0044
Ω_Λ	$0.586^{+0.080}_{-0.076}$	Ω_m	$0.414^{+0.078}_{-0.080}$
$\Omega_m h^2$	$0.1494^{+0.0073}_{-0.0076}$	$\Omega_\nu h^2$	< 0.016 (95% CL)
$r_s(z_d)$	151.5 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.303^{+0.022}_{-0.020}$
$r_s(z_d)/D_v(z=0.2)$	$0.167^{+0.011}_{-0.010}$	$r_s(z_d)/D_v(z=0.35)$	$0.1021^{+0.0057}_{-0.0063}$
$r_s(z_d)/D_v(z=0.44)$	$0.0846^{+0.0043}_{-0.0040}$	$r_s(z_d)/D_v(z=0.54)$	$0.0721^{+0.0033}_{-0.0030}$
$r_s(z_d)/D_v(z=0.57)$	$0.0692^{+0.0031}_{-0.0028}$	$r_s(z_d)/D_v(z=0.6)$	$0.0666^{+0.0029}_{-0.0026}$
$r_s(z_d)/D_v(z=0.73)$	$0.0580^{+0.0022}_{-0.0020}$	$r_s(z_*)$	144.8 ± 1.2
R	$1.794^{+0.031}_{-0.033}$	σ_8	$0.660^{+0.056}_{-0.061}$
$\sigma_8\Omega_m^{0.5}$	0.420 ± 0.023	$\sigma_8\Omega_m^{0.6}$	0.384 ± 0.024
$A_{\rm SZ}$	< 1.3 (95% CL)	t_0	$14.25^{+0.22}_{-0.24}$ Gyr
τ	0.082 ± 0.012	θ_*	0.010400 ± 0.000015
θ_*	0.59590 ± 0.00084 °	$\tau_{\rm rec}$	280.9 ± 2.6
$t_{\rm reion}$	435^{+62}_{-63} Myr	t_*	370503^{+4670}_{-4644} yr
z_d	1019.05 ± 0.90	$z_{\rm eq}$	3351 ± 100
$z_{\rm rec}$	1089.62 ± 0.91	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1092.57^{+0.89}_{-0.90}$		

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	2.390 ± 0.081	H_0	70.6 ± 1.7 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5758^{+33}_{-34} μK^2
$d_A(z_{\rm eq})$	14278^{+83}_{-87} Mpc	$d_A(z_*)$	14114^{+84}_{-88} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.12 ± 0.23	η	$(6.138^{+0.097}_{-0.099}) \times 10^{-10}$
$k_{\rm eq}$	$0.00968^{+0.00023}_{-0.00022}$	$\ell_{\rm eq}$	$136.5^{+2.5}_{-2.3}$
ℓ_*	$301.87^{+0.42}_{-0.41}$	$\sum m_\nu$	< 0.35 eV (95% CL)
n_b	$(2.521^{+0.040}_{-0.041}) \times 10^{-7}$ cm^{-3}	n_s	$0.9639^{+0.0088}_{-0.0089}$
Ω_b	0.0451 ± 0.0020	$\Omega_b h^2$	$0.02245^{+0.00055}_{-0.00056}$
Ω_c	0.221 ± 0.016	$\Omega_c h^2$	$0.1101^{+0.0032}_{-0.0030}$
Ω_Λ	0.731 ± 0.019	Ω_m	0.269 ± 0.019
$\Omega_m h^2$	0.1339 ± 0.0033	$\Omega_\nu h^2$	< 0.0037 (95% CL)
$r_s(z_d)$	153.52 ± 0.93 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3516^{+0.0091}_{-0.0092}$
$r_s(z_d)/D_v(z=0.2)$	0.1917 ± 0.0046	$r_s(z_d)/D_v(z=0.35)$	0.1150 ± 0.0025
$r_s(z_d)/D_v(z=0.44)$	0.0944 ± 0.0019	$r_s(z_d)/D_v(z=0.54)$	0.0796 ± 0.0015
$r_s(z_d)/D_v(z=0.57)$	0.0762 ± 0.0014	$r_s(z_d)/D_v(z=0.6)$	0.0732 ± 0.0013
$r_s(z_d)/D_v(z=0.73)$	$0.06300^{+0.00098}_{-0.00099}$	$r_s(z_*)$	$146.88^{+0.84}_{-0.85}$
R	1.723 ± 0.012	σ_8	$0.774^{+0.027}_{-0.028}$
$\sigma_8\Omega_m^{0.3}$	0.401 ± 0.020	$\sigma_8\Omega_m^{0.6}$	0.352 ± 0.019
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.761^{+0.088}_{-0.089}$ Gyr
τ	0.088 ± 0.013	θ_*	$0.010407^{+0.000014}_{-0.000015}$
θ_*	$0.59628^{+0.00082}_{-0.00083}$ °	$\tau_{\rm rec}$	285.9 ± 1.7
$t_{\rm reion}$	459^{+60}_{-61} Myr	t_*	379682^{+2829}_{-3004} yr
z_d	$1019.92^{+0.81}_{-0.84}$	$z_{\rm eq}$	3173^{+75}_{-71}
$z_{\rm rec}$	$1088.10^{+0.62}_{-0.61}$	$z_{\rm reion}$	10.6 ± 1.0
z_*	$1090.89^{+0.58}_{-0.63}$		

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.452^{+0.076}_{-0.074}$	H_0	67.5 ± 1.1 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.6^{+2.4}_{-2.5}$
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5748^{+33}_{-32}\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14216^{+73}_{-74} Mpc	$d_A(z_*)$	14050^{+73}_{-74} Mpc
$D_v(z=0.57)/r_s(z_d)$	$13.54^{+0.13}_{-0.14}$	η	$(6.071^{+0.094}_{-0.093}) \times 10^{-10}$
$k_{\rm eq}$	0.00990 ± 0.00019	$\ell_{\rm eq}$	139.0 ± 2.0
ℓ_*	$302.04^{+0.41}_{-0.40}$	$\sum m_\nu$	< 0.56 eV (95% CL)
n_b	$(2.493^{+0.059}_{-0.058}) \times 10^{-7}\ {\rm cm}^{-3}$	n_s	0.9628 ± 0.0086
Ω_b	0.0488 ± 0.0015	$\Omega_b h^2$	0.02220 ± 0.00034
Ω_c	0.2491 ± 0.0099	$\Omega_c h^2$	0.1133 ± 0.0026
Ω_Λ	0.695 ± 0.013	Ω_m	0.305 ± 0.013
$\Omega_m h^2$	0.1386 ± 0.0020	$\Omega_\nu h^2$	< 0.0060 (95% CL)
$r_s(z_d)$	$152.82^{+0.80}_{-0.81}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3356^{+0.0051}_{-0.0050}$
$r_s(z_d)/D_v(z=0.2)$	$0.1836^{+0.0026}_{-0.0025}$	$r_s(z_d)/D_v(z=0.35)$	$0.1107^{+0.0014}_{-0.0013}$
$r_s(z_d)/D_v(z=0.44)$	0.0911 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	$0.07707^{+0.00080}_{-0.00078}$
$r_s(z_d)/D_v(z=0.57)$	$0.07385^{+0.00074}_{-0.00073}$	$r_s(z_d)/D_v(z=0.6)$	$0.07097^{+0.00069}_{-0.00068}$
$r_s(z_d)/D_v(z=0.73)$	$0.06130^{+0.00064}_{-0.00062}$	$r_s(z_*)$	146.14 ± 0.71
R	1.7449 ± 0.0072	σ_8	$0.750^{+0.044}_{-0.042}$
$\sigma_8\Omega_m^{0.5}$	0.414 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.367 ± 0.019
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.910^{+0.087}_{-0.086}$ Gyr
τ	0.085 ± 0.013	θ_*	0.010401 ± 0.000014
θ_*	$0.59596^{+0.00079}_{-0.00081}\ ^\circ$	$\tau_{\rm rec}$	284.2 ± 1.3
$t_{\rm reion}$	456^{+63}_{-64} Myr	t_*	376492^{+2266}_{-2234} yr
z_d	$1019.66^{+0.82}_{-0.83}$	$z_{\rm eq}$	3244^{+62}_{-63}
$z_{\rm rec}$	1088.61 ± 0.61	$z_{\rm reion}$	10.5 ± 1.1
z_*	$1091.50^{+0.63}_{-0.52}$		

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.438 ± 0.074	H_0	$68.52^{+0.97}_{-0.96}$ km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5751^{+33}_{-32} μK^2
$d_A(z_{\rm eq})$	14212^{+71}_{-72} Mpc	$d_A(z_*)$	14047 ± 72 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.42 ± 0.12	η	$(6.103^{+0.091}_{-0.095}) \times 10^{-10}$
$k_{\rm eq}$	0.00989 ± 0.00018	$\ell_{\rm eq}$	138.9 ± 1.9
ℓ_*	$301.98^{+0.41}_{-0.40}$	$\sum m_\nu$	< 0.44 eV (95% CL)
n_b	$(2.506^{+0.037}_{-0.039}) \times 10^{-7}$ cm^{-3}	n_s	$0.9649^{+0.0085}_{-0.0083}$
Ω_b	0.0476 ± 0.0013	$\Omega_b h^2$	$0.02232^{+0.00083}_{-0.00085}$
Ω_c	$0.2411^{+0.0090}_{-0.0088}$	$\Omega_c h^2$	0.1132 ± 0.0025
Ω_Λ	0.707 ± 0.011	Ω_m	0.293 ± 0.011
$\Omega_m h^2$	0.1376 ± 0.0020	$\Omega_\nu h^2$	< 0.0047 (95% CL)
$r_s(z_d)$	152.76 ± 0.78 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3403^{+0.0045}_{-0.0047}$
$r_s(z_d)/D_v(z=0.2)$	$0.1860^{+0.0025}_{-0.0024}$	$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09202^{+0.00091}_{-0.00095}$	$r_s(z_d)/D_v(z=0.54)$	$0.07780^{+0.00070}_{-0.00074}$
$r_s(z_d)/D_v(z=0.57)$	$0.07454^{+0.00066}_{-0.00069}$	$r_s(z_d)/D_v(z=0.6)$	$0.07161^{+0.00061}_{-0.00064}$
$r_s(z_d)/D_v(z=0.73)$	$0.06179^{+0.00047}_{-0.00049}$	$r_s(z_*)$	146.13 ± 0.68
R	$1.7382^{+0.0087}_{-0.0084}$	σ_8	0.770 ± 0.038
$\sigma_8\Omega_m^{0.5}$	0.417 ± 0.020	$\sigma_8\Omega_m^{0.6}$	0.369 ± 0.018
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.843^{+0.078}_{-0.077}$ Gyr
τ	0.086 ± 0.012	θ_*	0.010403 ± 0.000014
θ_*	$0.59607^{+0.00080}_{-0.00081}$ °	$\tau_{\rm rec}$	284.3 ± 1.3
$t_{\rm reion}$	459^{+62}_{-64} Myr	t_*	376763^{+2189}_{-2144} yr
z_d	$1019.92^{+0.81}_{-0.83}$	$z_{\rm eq}$	3243 ± 59
$z_{\rm rec}$	$1088.46^{+0.61}_{-0.60}$	$z_{\rm reion}$	$10.5^{+1.1}_{-1.0}$
z_*	$1091.33^{+0.52}_{-0.51}$		

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.364 ± 0.094	H_0	69.6 ± 2.3 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5757^{+35}_{-34} μK^2	$d_A(z_{\rm eq})$	14251^{+111}_{-110} Mpc
$d_A(z_*)$	14087 ± 112 Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.28^{+0.31}_{-0.30}$
η	$(6.22 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00974 ± 0.00028
$\ell_{\rm eq}$	137.2 ± 3.0	ℓ_*	302.17 ± 0.64
$\sum m_\nu$	< 0.52 eV (95% CL)	$n_{\rm H}$	$(2.555 \pm 0.055) \times 10^{-7}$ cm^{-3}
n_s	0.977 ± 0.012	Ω_b	0.0470 ± 0.0027
$\Omega_b h^2$	0.02275 ± 0.00049	Ω_c	0.229 ± 0.021
$\Omega_c h^2$	0.1107 ± 0.0039	Ω_Λ	0.719 ± 0.025
Ω_m	0.281 ± 0.025	$\Omega_m h^2$	0.1356 ± 0.0040
$\Omega_\nu h^2$	< 0.0055 (95% CL)	$r_s(z_d)$	153.0 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.346 ± 0.012	$r_s(z_d)/D_v(z=0.2)$	0.1888 ± 0.0059
$r_s(z_d)/D_v(z=0.35)$	0.1134 ± 0.0031	$r_s(z_d)/D_v(z=0.44)$	0.0931 ± 0.0024
$r_s(z_d)/D_v(z=0.54)$	0.0786 ± 0.0019	$r_s(z_d)/D_v(z=0.57)$	0.0753 ± 0.0017
$r_s(z_d)/D_v(z=0.6)$	0.0723 ± 0.0016	$r_s(z_d)/D_v(z=0.73)$	0.0623 ± 0.0012
$r_s(z_*)$	146.5 ± 1.1	R	1.730 ± 0.016
σ_8	$0.765^{+0.042}_{-0.044}$	$\sigma_8\Omega_m^{0.5}$	0.405 ± 0.026
$\sigma_8\Omega_m^{0.6}$	0.357 ± 0.025	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.80 ± 0.14 Gyr	τ	0.092 ± 0.014
θ_*	0.010397 ± 0.000022	θ_*	0.5957 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	285.5 ± 2.1	$t_{\rm reion}$	444 ± 63 Myr
t_*	378974^{+3576}_{-3286} yr	z_d	1020.7 ± 1.1
$z_{\rm eq}$	3195 ± 91	$z_{\rm rec}$	$1087.86^{+0.73}_{-0.74}$
$z_{\rm reion}$	10.8 ± 1.1	z_*	$1090.55^{+0.77}_{-0.76}$

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.319^{+0.086}_{-0.085}$	H_0	71.6 ± 1.6 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5766 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14280 ± 108 Mpc
$d_A(z_*)$	14116^{+110}_{-109} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.03 ± 0.22
η	$(6.28 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00961 ± 0.00025
$\ell_{\rm eq}$	135.6 ± 2.6	ℓ_*	301.95 ± 0.61
$\sum m_\nu$	< 0.34 eV (95% CL)	$n_{\hat{\mathbf{n}}}$	$(2.581 \pm 0.052) \times 10^{-7}$ cm^{-3}
n_s	0.983 ± 0.011	Ω_b	0.0449 ± 0.0018
$\Omega_b h^2$	0.02299 ± 0.00046	Ω_c	0.212 ± 0.015
$\Omega_c h^2$	0.1086 ± 0.0034	Ω_Λ	0.740 ± 0.017
Ω_m	0.260 ± 0.017	$\Omega_m h^2$	$0.1329^{+0.0034}_{-0.0033}$
$\Omega_\nu h^2$	< 0.0036 (95% CL)	$r_s(z_d)$	153.3 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3557^{+0.0085}_{-0.0086}$	$r_s(z_d)/D_v(z=0.2)$	$0.1938^{+0.0043}_{-0.0044}$
$r_s(z_d)/D_v(z=0.35)$	0.1161 ± 0.0023	$r_s(z_d)/D_v(z=0.44)$	0.0952 ± 0.0018
$r_s(z_d)/D_v(z=0.54)$	0.0802 ± 0.0014	$r_s(z_d)/D_v(z=0.57)$	0.0768 ± 0.0013
$r_s(z_d)/D_v(z=0.6)$	0.0737 ± 0.0012	$r_s(z_d)/D_v(z=0.73)$	0.06340 ± 0.00093
$r_s(z_*)$	146.87 ± 0.99	R	1.716 ± 0.011
σ_8	0.776 ± 0.033	$\sigma_8\Omega_m^{0.5}$	0.395 ± 0.023
$\sigma_8\Omega_m^{0.6}$	0.346 ± 0.021	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.70 ± 0.10 Gyr	τ	0.095 ± 0.014
θ_*	0.010404 ± 0.000021	θ_*	$0.5961 \pm 0.0012\ ^\circ$
$\tau_{\rm rec}$	286.6 ± 1.9	$t_{\rm reion}$	443^{+62}_{-63} Myr
t_*	381012^{+3181}_{-3199} yr	z_d	1021.0 ± 1.1
$z_{\rm eq}$	3150 ± 82	$z_{\rm rec}$	1087.47 ± 0.67
$z_{\rm reion}$	10.9 ± 1.1	z_*	1090.07 ± 0.66

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.398^{+0.083}_{-0.084}$	H_0	68.2 ± 1.0 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5751 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14216 ± 101 Mpc
$d_A(z_*)$	14051 ± 102 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.47 ± 0.13
η	$(6.18 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.00988 ± 0.00023
$\ell_{\rm eq}$	$138.8^{+2.3}_{-2.4}$	ℓ_*	302.31 ± 0.62
$\sum m_\nu$	< 0.53 eV (95% CL)	$n_{\hat{\mathbf{e}}}$	$(2.540 \pm 0.050) \times 10^{-7}$ cm^{-3}
n_s	0.973 ± 0.011	Ω_b	0.0486 ± 0.0014
$\Omega_b h^2$	0.02262 ± 0.00045	Ω_c	0.2421 ± 0.0096
$\Omega_c h^2$	0.1127 ± 0.0031	Ω_Λ	0.704 ± 0.011
Ω_m	0.296 ± 0.011	$\Omega_m h^2$	0.1378 ± 0.0025
$\Omega_\nu h^2$	< 0.0056 (95% CL)	$r_s(z_d)$	$152.5^{+1.1}_{-1.0}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3384 ± 0.0047	$r_s(z_d)/D_v(z=0.2)$	0.1850 ± 0.0024
$r_s(z_d)/D_v(z=0.35)$	0.1115 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.09161 ± 0.00096
$r_s(z_d)/D_v(z=0.54)$	0.07747 ± 0.00074	$r_s(z_d)/D_v(z=0.57)$	0.07422 ± 0.00069
$r_s(z_d)/D_v(z=0.6)$	0.07131 ± 0.00065	$r_s(z_d)/D_v(z=0.73)$	0.06155 ± 0.00050
$r_s(z_*)$	146.02 ± 0.90	R	1.7399 ± 0.0067
σ_8	$0.763^{+0.048}_{-0.050}$	$\sigma_8\Omega_m^{0.5}$	0.415 ± 0.026
$\sigma_8\Omega_m^{0.6}$	$0.368^{+0.023}_{-0.024}$	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.86 ± 0.11 Gyr	τ	0.089 ± 0.013
θ_*	0.010392 ± 0.000021	θ_*	$0.5954 \pm 0.0012^\circ$
$\tau_{\rm rec}$	284.4 ± 1.6	$t_{\rm reion}$	446^{+63}_{-64} Myr
t_*	377136^{+2720}_{-2701} yr	z_d	1020.5 ± 1.1
$z_{\rm eq}$	3238 ± 76	$z_{\rm rec}$	$1088.12^{+0.65}_{-0.64}$
$z_{\rm reion}$	10.7 ± 1.1	z_*	1090.89 ± 0.62

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.382 ± 0.082	H_0	69.12 ± 0.93 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5756 \pm 33\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14197 ± 98 Mpc
$d_A(z_*)$	14031 ± 99 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.38 ± 0.12
η	$(6.23 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	$0.00989^{+0.00021}_{-0.00022}$
$\ell_{\rm eq}$	138.8 ± 2.2	ℓ_*	302.15 ± 0.61
$\sum m_\nu$	< 0.43 eV (95% CL)	$n_{\rm b}$	$(2.560 \pm 0.049) \times 10^{-7}$ cm^{-3}
n_s	0.976 ± 0.011	$\Omega_{\rm b}$	0.0477 ± 0.0012
$\Omega_{\rm b}h^2$	0.02279 ± 0.00044	$\Omega_{\rm c}$	$0.2361^{+0.0089}_{-0.0090}$
$\Omega_{\rm c}h^2$	0.1127 ± 0.0029	Ω_Λ	0.712 ± 0.010
Ω_m	0.288 ± 0.010	$\Omega_m h^2$	0.1374 ± 0.0024
$\Omega_\nu h^2$	< 0.0046 (95% CL)	$r_s(z_d)$	152.3 ± 1.0 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3420 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	0.1869 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1124 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09235 ± 0.00090
$r_s(z_d)/D_v(z=0.54)$	0.07804 ± 0.00070	$r_s(z_d)/D_v(z=0.57)$	0.07475 ± 0.00065
$r_s(z_d)/D_v(z=0.6)$	0.07181 ± 0.00061	$r_s(z_d)/D_v(z=0.73)$	0.06193 ± 0.00047
$r_s(z_*)$	145.89 ± 0.86	R	1.7349 ± 0.0062
σ_8	$0.780^{+0.040}_{-0.043}$	$\sigma_8\Omega_m^{0.5}$	0.418 ± 0.023
$\sigma_8\Omega_m^{0.6}$	$0.369^{+0.020}_{-0.021}$	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.796 ± 0.096 Gyr	τ	0.090 ± 0.013
θ_*	0.010397 ± 0.000021	θ_*	$0.5957 \pm 0.0012\ ^\circ$
$\tau_{\rm rec}$	284.4 ± 1.5	$t_{\rm reion}$	445 ± 63 Myr
t_*	377136^{+2562}_{-2545} yr	z_d	1021.0 ± 1.1
$z_{\rm eq}$	3244 ± 71	$z_{\rm rec}$	$1087.94^{+0.64}_{-0.63}$
$z_{\rm reion}$	10.7 ± 1.1	z_*	$1090.67^{+0.60}_{-0.59}$

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.423 ± 0.083	H_0	69.0 ± 2.3 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.7 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14253 ± 84 Mpc	$d_A(z_*)$	14088 ± 85 Mpc
$D_v(z=0.57)/r_s(z_d)$	$13.34^{+0.31}_{-0.30}$	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00977 ± 0.00023	$\ell_{\rm eq}$	137.6 ± 2.5
ℓ_*	301.97 ± 0.41	$\sum m_\nu$	< 0.56 eV (95% CL)
$n_{\rm b}$	$(2.506 \pm 0.042) \times 10^{-7}$ cm^{-3}	n_s	0.9661 ± 0.0096
$\Omega_{\rm b}$	$0.0470^{+0.0029}_{-0.0028}$	$\Omega_{\rm b}h^2$	0.02232 ± 0.00037
$\Omega_{\rm c}$	0.235 ± 0.021	$\Omega_{\rm c}h^2$	0.1115 ± 0.0032
Ω_Λ	$0.712^{+0.026}_{-0.027}$	Ω_m	$0.288^{+0.027}_{-0.026}$
$\Omega_m h^2$	0.1362 ± 0.0038	$\Omega_\nu h^2$	< 0.0060 (95% CL)
$r_s(z_d)$	153.23 ± 0.93 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.343 ± 0.012
$r_s(z_d)/D_v(z=0.2)$	$0.1876^{+0.0059}_{-0.0060}$	$r_s(z_d)/D_v(z=0.35)$	$0.1129^{+0.0031}_{-0.0032}$
$r_s(z_d)/D_v(z=0.44)$	0.0927 ± 0.0024	$r_s(z_d)/D_v(z=0.54)$	$0.0783^{+0.0018}_{-0.0019}$
$r_s(z_d)/D_v(z=0.57)$	0.0750 ± 0.0017	$r_s(z_d)/D_v(z=0.6)$	0.0721 ± 0.0016
$r_s(z_d)/D_v(z=0.73)$	0.0621 ± 0.0012	$r_s(z_*)$	$146.57^{+0.84}_{-0.85}$
R	1.734 ± 0.016	σ_8	$0.759^{+0.039}_{-0.041}$
$\sigma_8\Omega_m^{0.5}$	0.406 ± 0.021	$\sigma_8\Omega_m^{0.6}$	0.358 ± 0.020
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.84^{+0.13}_{-0.12}$ Gyr
τ	0.087 ± 0.013	θ_*	0.010404 ± 0.000014
θ_*	0.59609 ± 0.00081 °	$\tau_{\rm rec}$	285.1 ± 1.7
$t_{\rm reion}$	456^{+63}_{-64} Myr	t_*	378251^{+3011}_{-3005} yr
z_d	$1019.75^{+0.82}_{-0.84}$	$z_{\rm eq}$	3203 ± 75
$z_{\rm rec}$	1088.35 ± 0.67	$z_{\rm reion}$	10.6 ± 1.1
z_*	1091.19 ± 0.64		

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.381 ± 0.078	H_0	71.2 ± 1.5 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5760 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14294^{+81}_{-80} Mpc	$d_A(z_*)$	14130^{+82}_{-81} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.05 ± 0.20	η	$(6.152^{+0.096}_{-0.097}) \times 10^{-10}$
$k_{\rm eq}$	$0.00962^{+0.00020}_{-0.00021}$	$\ell_{\rm eq}$	135.9 ± 2.2
ℓ_*	301.84 ± 0.40	$\sum m_\nu$	< 0.30 eV (95% CL)
n_b	$(2.527^{+0.039}_{-0.040}) \times 10^{-7}$ cm^{-3}	n_s	0.9713 ± 0.0090
Ω_b	0.0444 ± 0.0017	$\Omega_b h^2$	0.02250 ± 0.00035
Ω_c	0.216 ± 0.013	$\Omega_c h^2$	$0.1093^{+0.0028}_{-0.0029}$
Ω_Λ	0.737 ± 0.016	Ω_m	0.263 ± 0.016
$\Omega_m h^2$	$0.1330^{+0.0028}_{-0.0029}$	$\Omega_\nu h^2$	< 0.0032 (95% CL)
$r_s(z_d)$	$153.70^{+0.89}_{-0.88}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3545 ± 0.0079
$r_s(z_d)/D_v(z=0.2)$	0.1932 ± 0.0040	$r_s(z_d)/D_v(z=0.35)$	0.1158 ± 0.0021
$r_s(z_d)/D_v(z=0.44)$	0.0949 ± 0.0016	$r_s(z_d)/D_v(z=0.54)$	0.0801 ± 0.0013
$r_s(z_d)/D_v(z=0.57)$	0.0766 ± 0.0012	$r_s(z_d)/D_v(z=0.6)$	0.0736 ± 0.0011
$r_s(z_d)/D_v(z=0.73)$	0.06331 ± 0.00085	$r_s(z_*)$	$147.06^{+0.79}_{-0.78}$
R	1.719 ± 0.011	σ_8	$0.776^{+0.026}_{-0.027}$
$\sigma_8\Omega_m^{0.5}$	$0.398^{+0.018}_{-0.019}$	$\sigma_8\Omega_m^{0.6}$	$0.348^{+0.017}_{-0.018}$
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.739 ± 0.080 Gyr
τ	0.090 ± 0.013	θ_*	0.010408 ± 0.000014
θ_*	$0.59635^{+0.00079}_{-0.00078}$ °	$\tau_{\rm rec}$	$286.4^{+1.6}_{-1.5}$
$t_{\rm reion}$	456^{+62}_{-63} Myr	t_*	380431^{+2677}_{-2648} yr
z_d	1019.95 ± 0.82	$z_{\rm eq}$	3155^{+67}_{-68}
$z_{\rm rec}$	$1087.99^{+0.63}_{-0.62}$	$z_{\rm reion}$	10.6 ± 1.1
z_*	1090.75 ± 0.56		

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.444^{+0.075}_{-0.074}$	H_0	68.0 ± 1.0 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.6 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5750^{+32}_{-33} μK^2
$d_A(z_{\rm eq})$	14226^{+71}_{-72} Mpc	$d_A(z_*)$	14061^{+72}_{-73} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.48 ± 0.13	η	$(6.081^{+0.093}_{-0.094}) \times 10^{-10}$
$k_{\rm eq}$	0.00986 ± 0.00018	$\ell_{\rm eq}$	138.7 ± 1.9
ℓ_*	302.03 ± 0.41	$\sum m_\nu$	< 0.51 eV (95% CL)
n_b	$(2.498 \pm 0.038) \times 10^{-7}$ cm^{-3}	n_s	0.9635 ± 0.0085
Ω_b	0.0482 ± 0.0014	$\Omega_b h^2$	0.02224 ± 0.00034
Ω_c	0.2444 ± 0.0093	$\Omega_c h^2$	0.1129 ± 0.0025
Ω_Λ	0.701 ± 0.012	Ω_m	0.299 ± 0.012
$\Omega_m h^2$	0.1379 ± 0.0020	$\Omega_\nu h^2$	< 0.0054 (95% CL)
$r_s(z_d)$	152.92 ± 0.78 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3381 ± 0.0048
$r_s(z_d)/D_v(z=0.2)$	0.1849 ± 0.0024	$r_s(z_d)/D_v(z=0.35)$	0.1114 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	$0.09158^{+0.00097}_{-0.00098}$	$r_s(z_d)/D_v(z=0.54)$	$0.07746^{+0.00075}_{-0.00076}$
$r_s(z_d)/D_v(z=0.57)$	0.07422 ± 0.00070	$r_s(z_d)/D_v(z=0.6)$	$0.07131^{+0.00065}_{-0.00066}$
$r_s(z_d)/D_v(z=0.73)$	$0.06156^{+0.00050}_{-0.00051}$	$r_s(z_*)$	146.25 ± 0.68
R	$1.7413^{+0.0069}_{-0.0068}$	σ_8	0.755 ± 0.041
$\sigma_8\Omega_m^{0.5}$	0.412 ± 0.021	$\sigma_8\Omega_m^{0.6}$	0.365 ± 0.019
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.25 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.886^{+0.085}_{-0.084}$ Gyr
τ	0.086 ± 0.013	θ_*	0.010401 ± 0.000014
θ_*	0.59596 ± 0.00080 °	$\tau_{\rm rec}$	284.4 ± 1.3
$t_{\rm reion}$	457^{+64}_{-65} Myr	t_*	376965^{+2161}_{-2170} yr
z_d	$1019.71^{+0.81}_{-0.82}$	$z_{\rm eq}$	3234 ± 60
$z_{\rm rec}$	$1088.53^{+0.59}_{-0.60}$	$z_{\rm reion}$	10.5 ± 1.1
z_*	1091.41 ± 0.52		

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.432 ± 0.073	H_0	68.86 ± 0.91 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5753^{+32}_{-33} μK^2
$d_A(z_{\rm eq})$	14222 ± 70 Mpc	$d_A(z_*)$	14057^{+70}_{-71} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.37 ± 0.12	η	$(6.110 \pm 0.093) \times 10^{-10}$
$k_{\rm eq}$	0.00986 ± 0.00017	$\ell_{\rm eq}$	138.6 ± 1.8
ℓ_*	301.97 ± 0.40	$\sum m_\nu$	< 0.42 eV (95% CL)
n_b	$(2.510 \pm 0.038) \times 10^{-7}$ cm^{-3}	n_s	0.9654 ± 0.0084
Ω_b	0.0471 ± 0.0012	$\Omega_b h^2$	0.02235 ± 0.00034
Ω_c	0.2378 ± 0.0085	$\Omega_c h^2$	$0.1127^{+0.0023}_{-0.0024}$
Ω_Λ	0.711 ± 0.010	Ω_m	0.289 ± 0.010
$\Omega_m h^2$	$0.1371^{+0.0020}_{-0.0019}$	$\Omega_\nu h^2$	< 0.0044 (95% CL)
$r_s(z_d)$	152.87 ± 0.76 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3420 ± 0.0044
$r_s(z_d)/D_v(z=0.2)$	0.1869 ± 0.0022	$r_s(z_d)/D_v(z=0.35)$	0.1124 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	0.09238 ± 0.00090	$r_s(z_d)/D_v(z=0.54)$	$0.07808^{+0.00069}_{-0.00070}$
$r_s(z_d)/D_v(z=0.57)$	0.07479 ± 0.00065	$r_s(z_d)/D_v(z=0.6)$	0.07184 ± 0.00061
$r_s(z_d)/D_v(z=0.73)$	0.06197 ± 0.00047	$r_s(z_*)$	146.24 ± 0.66
R	1.7357 ± 0.0062	σ_8	$0.771^{+0.035}_{-0.036}$
$\sigma_8\Omega_m^{0.5}$	0.414 ± 0.019	$\sigma_8\Omega_m^{0.6}$	0.366 ± 0.017
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.830^{+0.075}_{-0.074}$ Gyr
τ	0.086 ± 0.013	θ_*	0.010403 ± 0.000014
θ_*	$0.59608^{+0.00080}_{-0.00078}$ °	$\tau_{\rm rec}$	284.5 ± 1.2
$t_{\rm reion}$	460^{+64}_{-65} Myr	t_*	377205^{+2080}_{-2069} yr
z_d	1019.93 ± 0.81	$z_{\rm eq}$	3232 ± 56
$z_{\rm rec}$	$1088.39^{+0.60}_{-0.59}$	$z_{\rm reion}$	10.5 ± 1.1
z_*	1091.25 ± 0.51		

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9

$10^9\Delta^2_{\mathcal{R}}$	2.38 ± 0.11	H_0	$76.3^{+9.5}_{-8.9}$ km/s/Mpc
$N_{\rm eff}$	> 1.7 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5744 ± 35 μK^2
$d_A(z_{\rm eq})$	13177^{+1488}_{-1652} Mpc	$d_A(z_*)$	13025^{+1489}_{-1631} Mpc
$D_v(z=0.57)/r_s(z_d)$	$12.83^{+0.74}_{-0.76}$	η	$(6.20 \pm 0.14) \times 10^{-10}$
$k_{\rm eq}$	0.0108 ± 0.0012	$\ell_{\rm eq}$	139.0 ± 3.8
ℓ_*	$303.5^{+1.9}_{-2.0}$	$n_{\rm b}$	$(2.546 \pm 0.056) \times 10^{-7}$ cm^{-3}
n_s	0.988 ± 0.027	$\Omega_{\rm b}$	$0.0404^{+0.0092}_{-0.0096}$
$\Omega_{\rm b}h^2$	0.02267 ± 0.00050	$\Omega_{\rm c}$	0.239 ± 0.025
$\Omega_{\rm c}h^2$	$0.141^{+0.039}_{-0.036}$	Ω_Λ	0.720 ± 0.026
Ω_m	0.280 ± 0.026	$\Omega_m h^2$	$0.164^{+0.039}_{-0.036}$
$r_s(z_d)$	141 ± 17 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.359 ± 0.023
$r_s(z_d)/D_v(z=0.2)$	0.196 ± 0.012	$r_s(z_d)/D_v(z=0.35)$	$0.1178^{+0.0072}_{-0.0071}$
$r_s(z_d)/D_v(z=0.44)$	$0.0967^{+0.0068}_{-0.0067}$	$r_s(z_d)/D_v(z=0.54)$	$0.0817^{+0.0049}_{-0.0047}$
$r_s(z_d)/D_v(z=0.57)$	$0.0782^{+0.0046}_{-0.0045}$	$r_s(z_d)/D_v(z=0.6)$	$0.0751^{+0.0044}_{-0.0043}$
$r_s(z_d)/D_v(z=0.73)$	$0.0647^{+0.0038}_{-0.0037}$	$r_s(z_*)$	135^{+16}_{-17}
R	1.728 ± 0.016	σ_8	$0.875^{+0.084}_{-0.081}$
$\sigma_8\Omega_m^{0.3}$	$0.463^{+0.051}_{-0.050}$	$\sigma_8\Omega_m^{0.6}$	$0.407^{+0.047}_{-0.046}$
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$12.8^{+1.4}_{-1.5}$ Gyr
τ	0.089 ± 0.014	θ_*	$0.010351^{+0.000066}_{-0.000067}$
θ_*	0.5931 ± 0.0038 °	$\tau_{\rm rec}$	263^{+31}_{-32}
$t_{\rm reion}$	396^{+102}_{-105} Myr	t_*	347950^{+41811}_{-45524} yr
z_d	$1022.0^{+2.2}_{-2.4}$	$z_{\rm eq}$	3236 ± 123
$z_{\rm reion}$	11.2 ± 1.5	z_*	$1093.1^{+3.1}_{-2.9}$

WMA

$10^9\Delta^2_{\mathcal{R}}$	2.394 ± 0.09
$N_{\rm eff}$	$3.96^{+0.76}_{-0.74}$
$d_A(z_{\rm eq})$	13486^{+605}_{-610} M
$D_v(z=0.57)/r_s(z_d)$	12.96 ± 0.2
$k_{\rm eq}$	0.01046 ± 0.00
ℓ_*	$303.3 \pm 1.$
n_s	0.984 ± 0.0
$\Omega_{\rm b}h^2$	$0.02266^{+0.00}_{-0.00}$
$\Omega_{\rm c}h^2$	0.129 ± 0.0
Ω_m	0.279 ± 0.0
$r_s(z_d)$	$144.3^{+6.8}_{-6.9}$ M
$r_s(z_d)/D_v(z=0.2)$	0.1936 ± 0.00
$r_s(z_d)/D_v(z=0.44)$	0.0955 ± 0.00
$r_s(z_d)/D_v(z=0.57)$	0.0772 ± 0.00
$r_s(z_d)/D_v(z=0.73)$	0.0639 ± 0.00
R	1.728 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.453 ± 0.0
$A_{\rm SZ}$	< 2.0 (95% C
τ	0.089 ± 0.0
θ_*	0.5935 ± 0.00
$t_{\rm reion}$	410^{+65}_{-66} My
z_d	$1021.9 \pm 1.$
$z_{\rm reion}$	11.0 ± 1.2

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.415 ± 0.094	H_0	$76.0^{+9.5}_{-8.9}$ km/s/Mpc
$N_{\rm eff}$	$4.9^{+2.4}_{-2.2}$	$\ell(\ell+1)C_{220}/(2\pi)$	$5737 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	12982^{+1458}_{-1520} Mpc	$d_A(z_*)$	12831^{+1439}_{-1500} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.49 ± 0.13		$0.000000000616 \pm 0.000000000012$
η	$(6.16 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	$0.0111^{+0.0012}_{-0.0011}$
$\ell_{\rm eq}$	$140.6^{+2.4}_{-2.3}$	ℓ_*	303.9 ± 1.8
n_{δ}	$(2.532 \pm 0.050) \times 10^{-7}$ cm^{-3}	n_s	$0.986^{+0.027}_{-0.026}$
Ω_b	$0.0405^{+0.0094}_{-0.0096}$	$\Omega_b h^2$	0.02254 ± 0.00044
Ω_c	0.251 ± 0.011	$\Omega_c h^2$	$0.148^{+0.040}_{-0.037}$
Ω_Λ	0.708 ± 0.012	Ω_m	0.292 ± 0.012
$\Omega_m h^2$	$0.170^{+0.040}_{-0.037}$	$r_s(z_d)$	139^{+16}_{-17} Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3386 ± 0.0047	$r_s(z_d)/D_v(z=0.2)$	0.1851 ± 0.0024
$r_s(z_d)/D_v(z=0.35)$	0.1114 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	$0.09153^{+0.00096}_{-0.00095}$
$r_s(z_d)/D_v(z=0.54)$	0.07738 ± 0.00074	$r_s(z_d)/D_v(z=0.57)$	0.07413 ± 0.00070
$r_s(z_d)/D_v(z=0.6)$	0.07121 ± 0.00065	$r_s(z_d)/D_v(z=0.73)$	0.06144 ± 0.00051
$r_s(z_*)$	133 ± 16	R	1.7361 ± 0.0071
σ_8	$0.891^{+0.080}_{-0.077}$	$A_{\rm SZ}$	$0.95^{+0.69}_{-0.95}$
t_0	$12.6^{+1.4}_{-1.5}$ Gyr	τ	0.087 ± 0.013
θ_*	0.010340 ± 0.000062	θ_*	$0.5924^{+0.0036}_{-0.0035}$ °
$\tau_{\rm rec}$	258^{+30}_{-32}	$t_{\rm reion}$	389^{+100}_{-102} Myr
t_*	341641^{+40532}_{-42233} yr	z_d	$1022.1^{+2.0}_{-2.2}$
$z_{\rm eq}$	3279^{+89}_{-88}	$z_{\rm reion}$	11.2 ± 1.5
z_*	$1093.8^{+3.0}_{-2.8}$		

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.426^{+0.079}_{-0.080}$	H_0	73.8 ± 2.3 km/s/Mpc
$N_{\rm eff}$	4.23 ± 0.59	$\ell(\ell+1)C_{220}/(2\pi)$	$5738 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	13237^{+434}_{-433} Mpc	$d_A(z_*)$	13083^{+428}_{-427} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.49 ± 0.13		$0.000000000616 \pm 0.000000000012$
η	$(6.16 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01075 ± 0.00038
$\ell_{\rm eq}$	140.5 ± 1.7	ℓ_*	303.71 ± 0.84
n_δ	$(2.531 \pm 0.048) \times 10^{-7}$ cm^{-3}	n_s	0.983 ± 0.011
Ω_b	$0.0415^{+0.0026}_{-0.0027}$	$\Omega_b h^2$	0.02253 ± 0.00043
Ω_c	0.250 ± 0.011	$\Omega_c h^2$	0.136 ± 0.011
Ω_Λ	0.708 ± 0.010	Ω_m	0.292 ± 0.010
$\Omega_m h^2$	0.159 ± 0.011	$r_s(z_d)$	141.4 ± 4.8 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3386 ± 0.0046	$r_s(z_d)/D_v(z=0.2)$	$0.1851^{+0.0023}_{-0.0024}$
$r_s(z_d)/D_v(z=0.35)$	$0.1114^{+0.0012}_{-0.0013}$	$r_s(z_d)/D_v(z=0.44)$	$0.09154^{+0.00095}_{-0.00096}$
$r_s(z_d)/D_v(z=0.54)$	$0.07738^{+0.00074}_{-0.00075}$	$r_s(z_d)/D_v(z=0.57)$	$0.07413^{+0.00069}_{-0.00070}$
$r_s(z_d)/D_v(z=0.6)$	0.07122 ± 0.00065	$r_s(z_d)/D_v(z=0.73)$	0.06144 ± 0.00051
$r_s(z_*)$	135.3 ± 4.6	R	$1.7359^{+0.0063}_{-0.0062}$
σ_8	0.876 ± 0.029	$A_{\rm SZ}$	$0.94^{+0.69}_{-0.94}$
t_0	12.89 ± 0.41 Gyr	τ	0.086 ± 0.013
θ_*	$0.010344^{+0.000028}_{-0.000029}$	θ_*	$0.5927^{+0.0016}_{-0.0017}$ °
$\tau_{\rm rec}$	263.5 ± 9.1	$t_{\rm reion}$	400^{+62}_{-63} Myr
t_*	348543^{+12280}_{-12293} yr	z_d	1022.1 ± 1.1
$z_{\rm eq}$	3276 ± 60	$z_{\rm reion}$	11.0 ± 1.2
z_*	1093.0 ± 1.1		

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	2.35 ± 0.10	H_0	$75.5^{+4.2}_{-4.3}$ km/s/Mpc
$N_{\rm eff}$	3.89 ± 0.67	$A_{\rm clustered}$	< 13 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.1 ± 2.6	$A^{\rm SPT}_{\rm Poisson}$	> 15 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5759 ± 34 μK^2	$d_A(z_{\rm eq})$	13560^{+620}_{-621} Mpc
$d_A(z_*)$	13404^{+514}_{-515} Mpc	$D_v(z=0.57)/r_s(z_d)$	$12.72^{+0.42}_{-0.41}$
η	$(6.21 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.01022 ± 0.00039
$\ell_{\rm eq}$	136.8 ± 3.0	ℓ_*	302.54 ± 0.56
n_{δ}	$(2.550 \pm 0.055) \times 10^{-7}$ cm^{-3}	n_s	$0.985^{+0.018}_{-0.019}$
$\Omega_{\rm b}$	0.0401 ± 0.0039	$\Omega_{\rm b}h^2$	0.02270 ± 0.00049
$\Omega_{\rm c}$	0.220 ± 0.018	$\Omega_{\rm c}h^2$	$0.125^{+0.011}_{-0.010}$
Ω_Λ	0.740 ± 0.020	Ω_m	0.260 ± 0.020
$\Omega_m h^2$	0.148 ± 0.011	$r_s(z_d)$	145.4 ± 5.8 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.364 ± 0.015	$r_s(z_d)/D_v(z=0.2)$	0.1986 ± 0.0077
$r_s(z_d)/D_v(z=0.35)$	0.1190 ± 0.0043	$r_s(z_d)/D_v(z=0.44)$	0.0975 ± 0.0034
$r_s(z_d)/D_v(z=0.54)$	0.0822 ± 0.0027	$r_s(z_d)/D_v(z=0.57)$	0.0787 ± 0.0026
$r_s(z_d)/D_v(z=0.6)$	0.0755 ± 0.0024	$r_s(z_d)/D_v(z=0.73)$	0.0650 ± 0.0020
$r_s(z_*)$	139.2 ± 5.5	R	1.716 ± 0.014
σ_8	$0.844^{+0.031}_{-0.032}$	$\sigma_8\Omega_m^{0.5}$	$0.430^{+0.022}_{-0.025}$
$\sigma_8\Omega_m^{0.6}$	0.376 ± 0.022	$A_{\rm SZ}$	< 1.3 (95% CL)
t_0	13.02 ± 0.55 Gyr	τ	0.087 ± 0.014
θ_*	0.010384 ± 0.000019	θ_*	0.5950 ± 0.0011 $^\circ$
$\tau_{\rm rec}$	271 ± 10	$t_{\rm reion}$	430 ± 70 Myr
t_*	359856^{+1586}_{-1579} yr	z_d	1021.7 ± 1.7
$z_{\rm eq}$	3178 ± 90	$z_{\rm rec}$	$1089.16^{+0.89}_{-0.90}$
$z_{\rm reion}$	10.7 ± 1.2	z_*	1091.83 ± 0.79

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	2.375 ± 0.079	H_0	74.1 ± 2.1 km/s/Mpc
$N_{\rm eff}$	$3.70^{+0.40}_{-0.39}$	$A_{\rm clustered}$	< 12 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	$14.2^{+2.5}_{-2.6}$	$A^{\rm SPT}_{\rm Poisson}$	> 15 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5756 ± 32 μK^2	$d_A(z_{\rm eq})$	13688^{+347}_{-348} Mpc
$d_A(z_*)$	13530^{+344}_{-346} Mpc	$D_v(z=0.57)/r_s(z_d)$	12.84 ± 0.22
η	$(6.177^{+0.101}_{-0.100}) \times 10^{-10}$	$k_{\rm eq}$	0.01017 ± 0.00035
$\ell_{\rm eq}$	137.5 ± 2.3	ℓ_*	302.48 ± 0.52
$n_{\rm b}$	$(2.537 \pm 0.041) \times 10^{-7}$ cm^{-3}	n_s	0.980 ± 0.011
$\Omega_{\rm b}$	0.0412 ± 0.0020	$\Omega_{\rm b}h^2$	$0.02259^{+0.00037}_{-0.00036}$
$\Omega_{\rm c}$	$0.224^{+0.014}_{-0.015}$	$\Omega_{\rm c}h^2$	$0.1228^{+0.0081}_{-0.0080}$
Ω_Λ	$0.735^{+0.016}_{-0.015}$	Ω_m	$0.265^{+0.015}_{-0.016}$
$\Omega_m h^2$	0.1454 ± 0.0081	$r_s(z_d)$	146.8 ± 3.9 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3600 ± 0.0081	$r_s(z_d)/D_v(z=0.2)$	$0.1962^{+0.0042}_{-0.0041}$
$r_s(z_d)/D_v(z=0.35)$	0.1177 ± 0.0023	$r_s(z_d)/D_v(z=0.44)$	0.0965 ± 0.0018
$r_s(z_d)/D_v(z=0.54)$	0.0814 ± 0.0014	$r_s(z_d)/D_v(z=0.57)$	0.0779 ± 0.0013
$r_s(z_d)/D_v(z=0.6)$	0.0748 ± 0.0012	$r_s(z_d)/D_v(z=0.73)$	$0.06436^{+0.00100}_{-0.00099}$
$r_s(z_*)$	140.5 ± 3.7	R	1.719 ± 0.010
σ_8	0.838 ± 0.026	$\sigma_8\Omega_m^{0.5}$	$0.431^{+0.022}_{-0.023}$
$\sigma_8\Omega_m^{0.6}$	$0.378^{+0.021}_{-0.022}$	$A_{\rm SZ}$	< 1.2 (95% CL)
t_0	13.17 ± 0.31 Gyr	τ	0.086 ± 0.013
θ_*	0.010386 ± 0.000018	θ_*	0.5951 ± 0.0010 $^\circ$
$\tau_{\rm rec}$	273.7 ± 7.2	$t_{\rm reion}$	440 ± 64 Myr
t_*	363010^{+9781}_{-9873} yr	z_d	1021.3 ± 1.1
$z_{\rm eq}$	3197 ± 70	$z_{\rm rec}$	$1089.06^{+0.84}_{-0.85}$
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1091.79^{+0.78}_{-0.77}$

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	2.448 ± 0.084	H_0	71.3 ± 3.1 km/s/Mpc
$N_{\rm eff}$	3.55 ± 0.60	$A_{\rm Clustered}$	$4.7^{+3.7}_{-4.7}$
$A^{\rm ACT}_{\rm Poisson}$	14.5 ± 2.5	$A^{\rm SPT}_{\rm Poisson}$	23.0 ± 4.1
$\ell(\ell+1)C_{220}/(2\pi)$	5742 ± 32 μK^2	$d_A(z_{\rm eq})$	13744^{+506}_{-507} Mpc
$d_A(z_*)$	13583 ± 500 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.41 ± 0.12
	$0.000000000610 \pm 0.000000000011$	η	$(6.10 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	0.01039 ± 0.00037	$\ell_{\rm eq}$	140.9 ± 1.6
ℓ_*	$302.58^{+0.57}_{-0.58}$	$n_{\rm b}$	$(2.506 \pm 0.046) \times 10^{-7}$ cm^{-3}
n_s	0.969 ± 0.015	Ω_b	0.0441 ± 0.0034
$\Omega_{\rm b}h^2$	0.02232 ± 0.00041	Ω_c	0.2455 ± 0.0093
$\Omega_c h^2$	0.125 ± 0.010	Ω_Λ	0.710 ± 0.011
Ω_m	0.290 ± 0.011	$\Omega_m h^2$	0.147 ± 0.011
$r_s(z_d)$	147.4 ± 5.7 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3410 ± 0.0045
$r_s(z_d)/D_v(z=0.2)$	0.1863 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1121 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	0.09211 ± 0.00092	$r_s(z_d)/D_v(z=0.54)$	0.07785 ± 0.00071
$r_s(z_d)/D_v(z=0.57)$	0.07458 ± 0.00066	$r_s(z_d)/D_v(z=0.6)$	0.07164 ± 0.00062
$r_s(z_d)/D_v(z=0.73)$	$0.06180^{+0.00047}_{-0.00048}$	$r_s(z_*)$	141.0 ± 5.4
R	1.7347 ± 0.0065	σ_8	0.844 ± 0.030
$A_{\rm SZ}$	$0.45^{+0.36}_{-0.45}$	t_0	13.37 ± 0.51 Gyr
τ	0.080 ± 0.012	θ_*	0.010383 ± 0.000020
θ_*	0.5949 ± 0.0011 $^\circ$	$\tau_{\rm rec}$	274 ± 10
$t_{\rm reion}$	462^{+69}_{-72} Myr	t_*	362893^{+13475}_{-13593} yr
z_d	1020.9 ± 1.5	$z_{\rm eq}$	3298^{+50}_{-52}
$z_{\rm rec}$	$1089.41^{+0.87}_{-0.89}$	$z_{\rm reion}$	10.2 ± 1.1
z_*	1092.33 ± 0.74		

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.423^{+0.073}_{-0.074}$	H_0	72.9 ± 1.9 km/s/Mpc
$N_{\rm eff}$	3.84 ± 0.40	$A_{\rm clustered}$	$5.0^{+3.9}_{-5.0}$
$A^{\rm ACT}_{\rm Poisson}$	$14.2^{+2.6}_{-2.5}$	$A^{\rm SPT}_{\rm Poisson}$	22.7 ± 4.2
$\ell(\ell+1)C_{220}/(2\pi)$	5747^{+32}_{-31} μK^2	$d_A(z_{\rm eq})$	13496 ± 328 Mpc
$d_A(z_*)$	13338 ± 324 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.39 ± 0.11
	$0.000000000614 1 \pm 0.0000000000095$	η	$(6.141 \pm 0.095) \times 10^{-10}$
$k_{\rm eq}$	$0.01054^{+0.00028}_{-0.00029}$	$\ell_{\rm eq}$	140.5 ± 1.4
ℓ_*	$302.77^{+0.50}_{-0.49}$	$n_{\rm b}$	$(2.522 \pm 0.039) \times 10^{-7}$ cm^{-3}
n_s	0.975 ± 0.010	$\Omega_{\rm b}$	0.0424 ± 0.0020
$\Omega_{\rm b}h^2$	0.02246 ± 0.00035	$\Omega_{\rm c}$	0.2439 ± 0.0089
$\Omega_{\rm c}h^2$	$0.1205^{+0.0074}_{-0.0075}$	Ω_Λ	$0.7137^{+0.0095}_{-0.0093}$
$\Omega_{\rm m}$	$0.2863^{+0.0093}_{-0.0095}$	$\Omega_{\rm m}h^2$	$0.1520^{+0.0074}_{-0.0076}$
$r_s(z_d)$	144.6 ± 3.7 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3421 ± 0.0042
$r_s(z_d)/D_v(z=0.2)$	0.1869 ± 0.0021	$r_s(z_d)/D_v(z=0.35)$	0.1124 ± 0.0011
$r_s(z_d)/D_v(z=0.44)$	$0.09231^{+0.00087}_{-0.00086}$	$r_s(z_d)/D_v(z=0.54)$	$0.07800^{+0.00067}_{-0.00066}$
$r_s(z_d)/D_v(z=0.57)$	$0.07471^{+0.00063}_{-0.00062}$	$r_s(z_d)/D_v(z=0.6)$	$0.07177^{+0.00059}_{-0.00058}$
$r_s(z_d)/D_v(z=0.73)$	$0.06189^{+0.00046}_{-0.00045}$	$r_s(z_*)$	138.4 ± 3.5
R	$1.7328^{+0.0057}_{-0.0058}$	σ_8	0.857 ± 0.023
$A_{\rm SZ}$	$0.48^{+0.38}_{-0.48}$	t_0	13.11 ± 0.32 Gyr
τ	$0.080^{+0.011}_{-0.012}$	θ_*	0.010376 ± 0.000017
θ_*	$0.59451^{+0.00096}_{-0.00098}$ $^\circ$	$\tau_{\rm rec}$	$269.3^{+6.6}_{-6.7}$
$t_{\rm reion}$	447^{+65}_{-64} Myr	t_*	356386^{+8947}_{-9033} yr
$z_{\rm d}$	1021.6 ± 1.1	$z_{\rm eq}$	3284^{+46}_{-47}
$z_{\rm rec}$	$1089.69^{+0.78}_{-0.76}$	$z_{\rm reion}$	10.3 ± 1.1
z_*	1092.54 ± 0.66		

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.34 ± 0.10	H_0	$77.8^{+9.4}_{-8.8}$ km/s/Mpc
$N_{\rm eff}$	> 1.8 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5752 ± 34 μK^2
$d_A(z_{\rm eq})$	13193^{+1448}_{-1603} Mpc	$d_A(z_*)$	13041^{+1429}_{-1484} Mpc
$D_v(z=0.57)/r_s(z_d)$	$12.63^{+0.71}_{-0.72}$	η	$(6.24 \pm 0.13) \times 10^{-10}$
$k_{\rm eq}$	$0.0106^{+0.0012}_{-0.0011}$	$\ell_{\rm eq}$	136.9 ± 3.3
ℓ_*	303.4 ± 1.9	$n_{\rm b}$	$(2.562 \pm 0.055) \times 10^{-7}$ cm^{-3}
n_s	0.993 ± 0.026	$\Omega_{\rm b}$	$0.026 < \Omega_{\rm b} < 0.054$ (95% CL)
$\Omega_{\rm b}h^2$	0.02282 ± 0.00049	$\Omega_{\rm c}$	0.225 ± 0.020
$\Omega_{\rm c}h^2$	$0.139^{+0.037}_{-0.035}$	Ω_Λ	0.736 ± 0.021
$\Omega_{\rm m}$	0.264 ± 0.021	$\Omega_{\rm m}h^2$	$0.161^{+0.037}_{-0.035}$
$r_s(z_d)$	141^{+16}_{-17} Mpc	$r_s(z_d)/D_v(z=0.106)$	0.367 ± 0.022
$r_s(z_d)/D_v(z=0.2)$	0.200 ± 0.012	$r_s(z_d)/D_v(z=0.35)$	$0.1199^{+0.0071}_{-0.0069}$
$r_s(z_d)/D_v(z=0.44)$	$0.0983^{+0.0057}_{-0.0056}$	$r_s(z_d)/D_v(z=0.54)$	$0.0829^{+0.0048}_{-0.0047}$
$r_s(z_d)/D_v(z=0.57)$	$0.0794^{+0.0046}_{-0.0044}$	$r_s(z_d)/D_v(z=0.6)$	$0.0762^{+0.0044}_{-0.0042}$
$r_s(z_d)/D_v(z=0.73)$	$0.0656^{+0.0037}_{-0.0036}$	$r_s(z_*)$	135 ± 16
R	1.718 ± 0.014	σ_8	$0.868^{+0.082}_{-0.079}$
$\sigma_8\Omega_m^{0.5}$	0.446 ± 0.046	$\sigma_8\Omega_m^{0.6}$	$0.391^{+0.042}_{-0.041}$
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	12.7 ± 1.4 Gyr
τ	0.091 ± 0.014	θ_*	0.010354 ± 0.000065
θ_*	0.5932 ± 0.0037 °	$\tau_{\rm rec}$	263^{+30}_{-31}
$t_{\rm reion}$	391^{+98}_{-100} Myr	t_*	349278^{+40734}_{-42217} yr
$z_{\rm d}$	$1022.2^{+2.2}_{-2.4}$	$z_{\rm eq}$	3175 ± 108
$z_{\rm rec}$	$1090.0^{+3.1}_{-2.9}$	$z_{\rm reion}$	11.4 ± 1.5
z_*	$1092.7^{+3.0}_{-2.8}$		

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+sqls3+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.358^{+0.089}_{-0.090}$	H_0	73.9 ± 2.3 km/s/Mpc
$N_{\rm eff}$	3.68 ± 0.67	$\ell(\ell+1)C_{220}/(2\pi)$	5753 ± 34 μK^2
$d_A(z_{\rm eq})$	13739^{+557}_{-668} Mpc	$d_A(z_*)$	13581^{+551}_{-660} Mpc
$D_v(z=0.57)/r_s(z_d)$	$12.88^{+0.22}_{-0.23}$	η	$(6.23 \pm 0.13) \times 10^{-10}$
$k_{\rm eq}$	0.01013 ± 0.00054	$\ell_{\rm eq}$	137.3 ± 2.7
ℓ_*	302.9 ± 1.1	n_b	$(2.559^{+0.053}_{-0.054}) \times 10^{-7}$ cm^{-3}
n_s	0.985 ± 0.012	Ω_b	0.0419 ± 0.0027
$\Omega_b h^2$	0.02278 ± 0.00048	Ω_c	0.223 ± 0.020
$\Omega_c h^2$	0.122 ± 0.013	Ω_Λ	0.735 ± 0.020
Ω_m	0.265 ± 0.020	$\Omega_m h^2$	0.145 ± 0.013
$r_s(z_d)$	147.1 ± 6.3 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3588 ± 0.0083
$r_s(z_d)/D_v(z=0.2)$	0.1956 ± 0.0043	$r_s(z_d)/D_v(z=0.35)$	0.1173 ± 0.0023
$r_s(z_d)/D_v(z=0.44)$	0.0962 ± 0.0018	$r_s(z_d)/D_v(z=0.54)$	0.0811 ± 0.0014
$r_s(z_d)/D_v(z=0.57)$	0.0777 ± 0.0014	$r_s(z_d)/D_v(z=0.6)$	0.0745 ± 0.0013
$r_s(z_d)/D_v(z=0.73)$	$0.0642^{+0.0011}_{-0.0010}$	$r_s(z_*)$	140.9 ± 6.1
R	1.719 ± 0.013	σ_8	0.838 ± 0.039
$\sigma_8\Omega_m^{0.5}$	0.432 ± 0.034	$\sigma_8\Omega_m^{0.6}$	0.378 ± 0.032
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$13.22^{+0.46}_{-0.47}$ Gyr
τ	0.091 ± 0.014	θ_*	0.010372 ± 0.000037
θ_*	0.5943 ± 0.0021 $^\circ$	$\tau_{\rm rec}$	275 ± 12
$t_{\rm reion}$	421^{+66}_{-67} Myr	t_*	364436^{+16698}_{-16654} yr
z_d	1021.6 ± 1.3	$z_{\rm eq}$	3189 ± 82
$z_{\rm rec}$	1088.8 ± 1.4	$z_{\rm reion}$	11.0 ± 1.2
z_*	1091.5 ± 1.5		

$10^9\Delta^2_{\mathcal{R}}$	$2.395 \pm$
$N_{\rm eff}$	5.2^{+}
$d_A(z_{\rm eq})$	12795^{+1}_{-1}
$D_v(z=0.57)/r_s(z_d)$	$13.45 \pm$
η	$(6.18 \pm 0.1$
$\ell_{\rm eq}$	$139.8 \pm$
n_b	(2.538 ± 0.050)
Ω_b	0.0389
Ω_c	$0.248 \pm$
Ω_Λ	$0.713 \pm$
$\Omega_m h^2$	0.174
$r_s(z_d)/D_v(z=0.106)$	0.3404
$r_s(z_d)/D_v(z=0.35)$	$0.1119 \pm$
$r_s(z_d)/D_v(z=0.54)$	$0.07764 \pm$
$r_s(z_d)/D_v(z=0.6)$	$0.07144 \pm$
$r_s(z_*)$	$131 \pm$
σ_8	0.899
$\beta_{\rm SNLS}$	$3.26 \pm$
t_0	12.4 ± 1
θ_*	0.010331
$\tau_{\rm rec}$	255
t_*	336637^{+}
$z_{\rm eq}$	3252
$z_{\rm reion}$	$11.4 \pm$

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.415^{+0.078}_{-0.079}$	H_0	73.9 ± 2.3 km/s/Mpc
$N_{\rm eff}$	4.18 ± 0.59	$\ell(\ell+1)C_{220}/(2\pi)$	$5740 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	13288^{+430}_{-427} Mpc	$d_A(z_*)$	13133^{+424}_{-422} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.44 ± 0.12		$0.000000000617 \pm 0.000000000012$
η	$(6.17 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01067 ± 0.00037
$\ell_{\rm eq}$	140.0 ± 1.6	ℓ_*	$303.67^{+0.85}_{-0.86}$
n_b	$(2.534 \pm 0.049) \times 10^{-7}$ cm^{-3}	n_s	0.963 ± 0.011
Ω_b	$0.0415^{+0.0026}_{-0.0027}$	$\Omega_b h^2$	0.02256 ± 0.00043
Ω_c	0.246 ± 0.010	$\Omega_c h^2$	$0.135^{+0.010}_{-0.011}$
Ω_Λ	$0.7122^{+0.0101}_{-0.0099}$	Ω_m	$0.2878^{+0.0099}_{-0.0101}$
$\Omega_m h^2$	0.157 ± 0.010	$r_s(z_d)$	142.0 ± 4.8 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3403 ± 0.0045	$r_s(z_d)/D_v(z=0.2)$	0.1859 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1119 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09189 ± 0.00094
$r_s(z_d)/D_v(z=0.54)$	0.07766 ± 0.00073	$r_s(z_d)/D_v(z=0.57)$	$0.07438^{+0.00069}_{-0.00068}$
$r_s(z_d)/D_v(z=0.6)$	$0.07145^{+0.00065}_{-0.00064}$	$r_s(z_d)/D_v(z=0.73)$	0.06163 ± 0.00050
$r_s(z_*)$	135.9 ± 4.6	R	$1.7336^{+0.0060}_{-0.0061}$
σ_8	$0.871^{+0.029}_{-0.028}$	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	$0.95^{+0.68}_{-0.95}$
t_0	12.92 ± 0.40 Gyr	τ	0.087 ± 0.013
θ_*	0.010346 ± 0.000029	θ_*	$0.5928 \pm 0.0017\ ^\circ$
$\tau_{\rm rec}$	$264.5^{+9.1}_{-9.0}$	$t_{\rm reion}$	402^{+62}_{-63} Myr
t_*	350144^{+12265}_{-12146} yr	z_d	1022.1 ± 1.1
$z_{\rm eq}$	3261 ± 59	$z_{\rm rec}$	1090.0 ± 1.1
$z_{\rm reion}$	11.0 ± 1.2	z_*	1092.8 ± 1.1

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	$2.330^{+0.096}_{-0.097}$	H_0	76.5 ± 4.1 km/s/Mpc
$N_{\rm eff}$	3.97 ± 0.66	$A_{\rm clustered}$	< 13 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.0 ± 2.6	$A^{\rm SPT}_{\rm Poisson}$	> 15 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5763 ± 34 μK^2	$d_A(z_{\rm eq})$	13522^{+511}_{-510} Mpc
$d_A(z_*)$	13367^{+505}_{-503} Mpc	$D_v(z=0.57)/r_s(z_d)$	12.61 ± 0.38
η	$(6.23 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.01017 ± 0.00038
$\ell_{\rm eq}$	135.8 ± 2.7	ℓ_*	302.54 ± 0.56
n_{δ}	$(2.560 \pm 0.054) \times 10^{-7}$ cm^{-3}	n_s	0.989 ± 0.018
Ω_b	0.0392 ± 0.0036	$\Omega_b h^2$	0.02280 ± 0.00048
Ω_c	0.214 ± 0.015	$\Omega_c h^2$	0.125 ± 0.010
Ω_Λ	0.747 ± 0.018	Ω_m	0.253 ± 0.018
$\Omega_m h^2$	0.148 ± 0.011	$r_s(z_d)$	145.0 ± 5.7 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.369 ± 0.014	$r_s(z_d)/D_v(z=0.2)$	0.2008 ± 0.0072
$r_s(z_d)/D_v(z=0.35)$	0.1202 ± 0.0040	$r_s(z_d)/D_v(z=0.44)$	0.0984 ± 0.0031
$r_s(z_d)/D_v(z=0.54)$	0.0829 ± 0.0025	$r_s(z_d)/D_v(z=0.57)$	0.0794 ± 0.0024
$r_s(z_d)/D_v(z=0.6)$	0.0762 ± 0.0023	$r_s(z_d)/D_v(z=0.73)$	0.0655 ± 0.0019
$r_s(z_*)$	138.8 ± 5.4	R	1.711 ± 0.012
σ_8	0.844 ± 0.032	$\sigma_8\Omega_m^{0.5}$	0.425 ± 0.021
$\sigma_8\Omega_m^{0.6}$	0.370 ± 0.020	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.3 (95% CL)
t_0	12.94 ± 0.53 Gyr	τ	0.089 ± 0.014
θ_*	0.010384 ± 0.000019	θ_*	0.5950 ± 0.0011 $^\circ$
$\tau_{\rm rec}$	271 ± 10	$t_{\rm reion}$	420^{+67}_{-68} Myr
t_*	359274^{+13606}_{-13524} yr	z_d	1022.0 ± 1.6
$z_{\rm eq}$	3149 ± 81	$z_{\rm rec}$	$1089.08^{+0.89}_{-0.88}$
$z_{\rm reion}$	10.9 ± 1.2	z_*	$1091.70^{+0.77}_{-0.78}$

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act+snls3+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.363 ± 0.077	H_0	74.4 ± 2.0 km/s/Mpc
$N_{\rm eff}$	$3.66^{+0.40}_{-0.39}$	$A_{\rm clustered}$	< 12 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.3 ± 2.5	$A^{\rm SPT}_{\rm Poisson}$	> 15 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5757 ± 32 μK^2	$d_A(z_{\rm eq})$	13734^{+349}_{-348} Mpc
$d_A(z_*)$	13576 ± 345 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.79 ± 0.21
η	$(6.186 \pm 0.099) \times 10^{-10}$	$k_{\rm eq}$	0.01008 ± 0.00034
$\ell_{\rm eq}$	136.8 ± 2.1	ℓ_*	$302.42^{+0.52}_{-0.51}$
n_{δ}	$(2.541 \pm 0.041) \times 10^{-7}$ cm^{-3}	n_s	0.981 ± 0.011
Ω_b	0.0409 ± 0.0020	$\Omega_b h^2$	0.02262 ± 0.00036
Ω_c	0.219 ± 0.013	$\Omega_c h^2$	0.1212 ± 0.0079
Ω_Λ	0.740 ± 0.014	Ω_m	0.260 ± 0.014
$\Omega_m h^2$	0.1438 ± 0.0080	$r_s(z_d)$	147.3 ± 3.9 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3622 ± 0.0077	$r_s(z_d)/D_v(z=0.2)$	0.1973 ± 0.0040
$r_s(z_d)/D_v(z=0.35)$	0.1182 ± 0.0022	$r_s(z_d)/D_v(z=0.44)$	0.0969 ± 0.0017
$r_s(z_d)/D_v(z=0.54)$	0.0817 ± 0.0013	$r_s(z_d)/D_v(z=0.57)$	0.0782 ± 0.0013
$r_s(z_d)/D_v(z=0.6)$	0.0751 ± 0.0012	$r_s(z_d)/D_v(z=0.73)$	0.06457 ± 0.00097
$r_s(z_*)$	141.0 ± 3.7	R	1.7155 ± 0.0095
σ_8	0.834 ± 0.026	$\sigma_8 \Omega_m^{0.5}$	0.425 ± 0.021
$\sigma_8 \Omega_m^{0.6}$	$0.371^{+0.020}_{-0.021}$	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 1.2 (95% CL)
t_0	$13.18^{+0.31}_{-0.32}$ Gyr	τ	0.087 ± 0.013
θ_*	0.010388 ± 0.000018	θ_*	0.5952 ± 0.0010 $^\circ$
$\tau_{\rm rec}$	274.7 ± 7.2	$t_{\rm reion}$	437^{+63}_{-64} Myr
t_*	364582^{+9830}_{-9811} yr	z_d	1021.3 ± 1.1
$z_{\rm eq}$	3176^{+66}_{-65}	$z_{\rm rec}$	1088.91 ± 0.82
$z_{\rm reion}$	10.7 ± 1.1	z_*	$1091.61^{+0.76}_{-0.75}$

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act+sn|s3+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.435^{+0.081}_{-0.085}$	H_0	71.8 ± 3.1 km/s/Mpc
$N_{\rm eff}$	3.61 ± 0.60	$A_{\rm clustered}$	$4.8^{+3.8}_{-4.8}$
$A^{\rm ACT}_{\rm Poisson}$	14.3 ± 2.6	$A^{\rm SPT}_{\rm Poisson}$	22.9 ± 4.3
$\ell(\ell+1)C_{220}/(2\pi)$	5745 ± 32 μK^2	$d_A(z_{\rm eq})$	13704^{+504}_{-498} Mpc
$d_A(z_*)$	13544^{+498}_{-492} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.37 ± 0.12
	$0.000000000612 \pm 0.000000000011$	η	$(6.12 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	0.01038 ± 0.00037	$\ell_{\rm eq}$	140.4 ± 1.5
ℓ_*	302.61 ± 0.56	n_b	$(2.513 \pm 0.047) \times 10^{-7}$ cm^{-3}
n_s	0.971 ± 0.015	Ω_b	0.0435 ± 0.0033
$\Omega_b h^2$	0.02237 ± 0.00042	Ω_c	$0.2425^{+0.0090}_{-0.0091}$
$\Omega_c h^2$	0.125 ± 0.010	Ω_Λ	$0.714^{+0.011}_{-0.010}$
Ω_m	$0.286^{+0.010}_{-0.011}$	$\Omega_m h^2$	$0.148^{+0.010}_{-0.011}$
$r_s(z_d)$	147.0 ± 5.6 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3424^{+0.0045}_{-0.0044}$
$r_s(z_d)/D_v(z=0.2)$	$0.1871^{+0.0023}_{-0.0022}$	$r_s(z_d)/D_v(z=0.35)$	0.1125 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09241^{+0.00091}_{-0.00090}$	$r_s(z_d)/D_v(z=0.54)$	$0.07808^{+0.00071}_{-0.00070}$
$r_s(z_d)/D_v(z=0.57)$	$0.07479^{+0.00066}_{-0.00065}$	$r_s(z_d)/D_v(z=0.6)$	$0.07184^{+0.00062}_{-0.00061}$
$r_s(z_d)/D_v(z=0.73)$	0.06195 ± 0.00047	$r_s(z_*)$	140.6 ± 5.3
R	1.7326 ± 0.0064	σ_8	0.846 ± 0.030
$\alpha_{\rm SPTLS}$	1.43 ± 0.11	$\beta_{\rm SPTLS}$	3.26 ± 0.11
$A_{\rm SZ}$	$0.46^{+0.37}_{-0.46}$	t_0	13.32 ± 0.51 Gyr
τ	0.081 ± 0.012	θ_*	0.010382 ± 0.000019
θ_*	0.5948 ± 0.0011 $^\circ$	$\tau_{\rm rec}$	274 ± 10
$t_{\rm reion}$	456^{+70}_{-72} Myr	t_*	362049^{+13413}_{-13329} yr
z_d	1021.0 ± 1.5	$z_{\rm eq}$	3284 ± 51
$z_{\rm rec}$	$1089.41^{+0.85}_{-0.86}$	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1092.29^{+0.70}_{-0.72}$		

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.416 ± 0.074	H_0	73.0 ± 1.9 km/s/Mpc
$N_{\rm eff}$	3.83 ± 0.40	$A_{\rm clustered}$	$5.0^{+3.8}_{-5.0}$
$A^{\rm ACT}_{\rm Poisson}$	14.2 ± 2.6	$A^{\rm SPT}_{\rm Poisson}$	22.7 ± 4.3
$\ell(\ell+1)C_{220}/(2\pi)$	$5748^{+31}_{-32}\ \mu{\rm K}^2$	$d_A(z_{\rm eq})$	13513^{+325}_{-329} Mpc
$d_A(z_*)$	13356^{+321}_{-325} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.35 ± 0.11
	$0.000000000\mathbf{6148}^{+0.0000000000097}_{-0.0000000000095}$	η	$(6.148^{+0.097}_{-0.095}) \times 10^{-10}$
$k_{\rm eq}$	$0.01050^{+0.00029}_{-0.00028}$	$\ell_{\rm eq}$	140.1 ± 1.4
ℓ_*	$302.75^{+0.49}_{-0.50}$	n_b	$(2.525^{+0.040}_{-0.038}) \times 10^{-7}\ {\rm cm}^{-3}$
n_s	$0.976^{+0.010}_{-0.011}$	Ω_b	0.0422 ± 0.0020
$\Omega_b h^2$	$0.02248^{+0.00036}_{-0.00034}$	Ω_c	0.2413 ± 0.0087
$\Omega_c h^2$	$0.1288^{+0.0074}_{-0.0072}$	Ω_Λ	0.7165 ± 0.0093
Ω_m	0.2836 ± 0.0093	$\Omega_m h^2$	$0.1513^{+0.0075}_{-0.0075}$
$r_s(z_d)$	$144.8^{+3.6}_{-3.7}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3433 ± 0.0042
$r_s(z_d)/D_v(z=0.2)$	$0.1875^{+0.0021}_{-0.0022}$	$r_s(z_d)/D_v(z=0.35)$	0.1127 ± 0.0011
$r_s(z_d)/D_v(z=0.44)$	$0.09256^{+0.00086}_{-0.00087}$	$r_s(z_d)/D_v(z=0.54)$	0.07820 ± 0.00067
$r_s(z_d)/D_v(z=0.57)$	$0.07490^{+0.00062}_{-0.00063}$	$r_s(z_d)/D_v(z=0.6)$	$0.07194^{+0.00068}_{-0.00069}$
$r_s(z_d)/D_v(z=0.73)$	$0.06202^{+0.00045}_{-0.00046}$	$r_s(z_*)$	$138.6^{+3.4}_{-3.5}$
R	1.7311 ± 0.0057	σ_8	0.855 ± 0.023
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	$0.49^{+0.38}_{-0.49}$	t_0	13.11 ± 0.32 Gyr
τ	0.081 ± 0.012	θ_*	0.010377 ± 0.000017
θ_*	$0.59455^{+0.00097}_{-0.00096}$ °	$\tau_{\rm rec}$	$269.7^{+6.5}_{-6.6}$
$t_{\rm reion}$	445 ± 67 Myr	t_*	357026^{+8793}_{-8939} yr
z_d	1021.6 ± 1.1	$z_{\rm eq}$	3274 ± 46
$z_{\rm rec}$	$1089.61^{+0.76}_{-0.74}$	$z_{\rm reion}$	10.3 ± 1.1
z_*	$1092.44^{+0.63}_{-0.64}$		

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9

$10^9 \Delta^2_{\mathcal{R}}$	2.41 ± 0.10	H_0	70.1 ± 2.2 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5747 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14187^{+191}_{-198} Mpc
$d_A(z_*)$	14021^{+193}_{-195} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.28 ± 0.32
η	$(6.19 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	$0.00997^{+0.00045}_{-0.00044}$
$\ell_{\rm eq}$	139.8 ± 4.4	ℓ_*	302.3 ± 1.3
n_b	$(2.543 \pm 0.057) \times 10^{-7}$ cm^{-3}	n_s	0.973 ± 0.016
Ω_b	0.0462 ± 0.0024	$\Omega_b h^2$	0.02265 ± 0.00051
Ω_c	0.233 ± 0.026	$\Omega_c h^2$	$0.1140^{+0.0063}_{-0.0062}$
Ω_Λ	0.720 ± 0.028	Ω_m	0.280 ± 0.028
$\Omega_m h^2$	0.1366 ± 0.0061	$r_s(z_d)$	152.2 ± 1.7 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.346 ± 0.012	$r_s(z_d)/D_v(z=0.2)$	0.1890 ± 0.0063
$r_s(z_d)/D_v(z=0.35)$	0.1135 ± 0.0033	$r_s(z_d)/D_v(z=0.44)$	0.0932 ± 0.0025
$r_s(z_d)/D_v(z=0.54)$	0.0787 ± 0.0020	$r_s(z_d)/D_v(z=0.57)$	0.0754 ± 0.0018
$r_s(z_d)/D_v(z=0.6)$	0.0724 ± 0.0017	$r_s(z_d)/D_v(z=0.73)$	0.0624 ± 0.0013
$r_s(z_*)$	145.7 ± 1.6	R	1.728 ± 0.018
σ_8	0.823 ± 0.042	$\sigma_8 \Omega_m^{0.5}$	0.435 ± 0.040
$\sigma_8 \Omega_m^{0.6}$	0.383 ± 0.039	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.73 ± 0.14 Gyr	τ	0.089 ± 0.014
θ_*	0.010393 ± 0.000044	θ_*	$0.5955 \pm 0.0025\ ^\circ$
$\tau_{\rm rec}$	$283.8^{+3.8}_{-3.9}$	$t_{\rm reion}$	455^{+81}_{-82} Myr
t_*	376236^{+5637}_{-5677} yr	$Y_{\rm He}$	< 0.42 (95% CL)
z_d	1020.7 ± 1.1	$z_{\rm eq}$	3271^{+146}_{-145}
$z_{\rm reion}$	10.6 ± 1.3	z_*	$1090.97^{+0.99}_{-0.98}$

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+h0

$10^9\Delta^2_{\mathcal{R}}$	2.350 ± 0.088	H_0	71.8 ± 1.7 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5759 ± 34 μK^2	$d_A(z_{\rm eq})$	14254^{+176}_{-177} Mpc
$d_A(z_*)$	14090^{+177}_{-178} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.03 ± 0.24
η	$(\mathbf{6.26} \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00973 ± 0.00037
$\ell_{\rm eq}$	137.0 ± 3.6	ℓ_*	302.2 ± 1.2
$n_{\hat{0}}$	$(2.572 \pm 0.052) \times 10^{-7}$ cm^{-3}	n_s	0.979 ± 0.015
Ω_b	0.0445 ± 0.0017	$\Omega_b h^2$	$0.02290^{+0.00046}_{-0.00047}$
Ω_c	0.215 ± 0.018	$\Omega_c h^2$	0.1104 ± 0.0051
Ω_Λ	0.741 ± 0.020	Ω_m	0.259 ± 0.020
$\Omega_m h^2$	0.1333 ± 0.0050	$r_s(z_d)$	152.9 ± 1.5 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3557 ± 0.0095	$r_s(z_d)/D_v(z=0.2)$	0.1938 ± 0.0048
$r_s(z_d)/D_v(z=0.35)$	0.1161 ± 0.0026	$r_s(z_d)/D_v(z=0.44)$	0.0951 ± 0.0020
$r_s(z_d)/D_v(z=0.54)$	0.0802 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0768 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0737 ± 0.0013	$r_s(z_d)/D_v(z=0.73)$	0.0634 ± 0.0010
$r_s(z_*)$	146.5 ± 1.4	R	1.715 ± 0.013
σ_8	$0.808^{+0.039}_{-0.038}$	$\sigma_8\Omega_m^{0.5}$	0.412 ± 0.032
$\sigma_8\Omega_m^{0.6}$	$0.360^{+0.031}_{-0.030}$	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.68^{+0.12}_{-0.13}$ Gyr	τ	0.093 ± 0.014
θ_*	0.010398 ± 0.000042	θ_*	0.5957 ± 0.0024 $^\circ$
$\tau_{\rm rec}$	285.8 ± 3.3	$t_{\rm reion}$	457^{+80}_{-81} Myr
t_*	379516^{+4726}_{-4749} yr	$Y_{\rm He}$	< 0.40 (95% CL)
z_d	1021.0 ± 1.1	$z_{\rm eq}$	3190^{+121}_{-120}
$z_{\rm reion}$	10.7 ± 1.3	z_*	1090.32 ± 0.79

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.452 ± 0.082	H_0	$68.69^{+0.95}_{-0.94}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5739 ± 33 μK^2	$d_A(z_{\rm eq})$	14119^{+164}_{-165} Mpc
$d_A(z_*)$	13952^{+165}_{-166} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.48 ± 0.13
η	$(6.15 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01019 ± 0.00030
$\ell_{\rm eq}$	142.2 ± 2.6	ℓ_*	302.3 ± 1.3
n_b	$(2.525 \pm 0.049) \times 10^{-7}$ cm^{-3}	n_s	0.969 ± 0.015
Ω_b	0.0477 ± 0.0011	$\Omega_b h^2$	0.02248 ± 0.00044
Ω_c	0.248 ± 0.012	$\Omega_c h^2$	0.1172 ± 0.0041
Ω_Λ	0.704 ± 0.012	Ω_m	0.296 ± 0.012
$\Omega_m h^2$	0.1396 ± 0.0041	$r_s(z_d)$	151.5 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3383 ± 0.0048	$r_s(z_d)/D_v(z=0.2)$	0.1850 ± 0.0024
$r_s(z_d)/D_v(z=0.35)$	0.1114 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.09158 ± 0.00096
$r_s(z_d)/D_v(z=0.54)$	0.07745 ± 0.00074	$r_s(z_d)/D_v(z=0.57)$	0.07420 ± 0.00069
$r_s(z_d)/D_v(z=0.6)$	0.07129 ± 0.00065	$r_s(z_d)/D_v(z=0.73)$	0.06153 ± 0.00050
$r_s(z_*)$	145.0 ± 1.1	R	1.7386 ± 0.0073
σ_8	0.837 ± 0.037	$\sigma_8\Omega_m^{0.5}$	$0.456^{+0.027}_{-0.026}$
$\sigma_8\Omega_m^{0.6}$	0.404 ± 0.025	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.77 ± 0.14 Gyr	τ	0.086 ± 0.013
θ_*	0.010393 ± 0.000046	θ_*	$0.5955^{+0.0027}_{-0.0026}$ °
$z_{\rm rec}$	282.0 ± 2.8	$t_{\rm reion}$	450^{+81}_{-82} Myr
t_*	373325^{+3624}_{-3641} yr	$Y_{\rm He}$	< 0.43 (95% CL)
z_d	1020.6 ± 1.1	$z_{\rm eq}$	3343 ± 99
$z_{\rm reion}$	10.6 ± 1.4	z_*	$1091.47^{+0.85}_{-0.86}$

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.422 ± 0.080	H_0	69.39 ± 0.89 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5747 \pm 33\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14099^{+168}_{-169} Mpc
$d_A(z_*)$	13932^{+169}_{-170} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.40 ± 0.12
η	$(6.20 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01018 ± 0.00031
$\ell_{\rm eq}$	141.8 ± 2.6	ℓ_*	301.9 ± 1.4
n_b	$(2.545 \pm 0.048) \times 10^{-7}$ cm^{-3}	n_s	$0.975^{+0.016}_{-0.015}$
Ω_b	0.0471 ± 0.0011	$\Omega_b h^2$	0.02266 ± 0.00043
Ω_c	0.243 ± 0.011	$\Omega_c h^2$	0.1168 ± 0.0042
Ω_Λ	0.710 ± 0.012	Ω_m	0.290 ± 0.012
$\Omega_m h^2$	0.1395 ± 0.0042	$r_s(z_d)$	151.4 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3413 ± 0.0046	$r_s(z_d)/D_v(z=0.2)$	0.1865 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1122 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09221 ± 0.00092
$r_s(z_d)/D_v(z=0.54)$	0.07793 ± 0.00071	$r_s(z_d)/D_v(z=0.57)$	0.07465 ± 0.00066
$r_s(z_d)/D_v(z=0.6)$	0.07171 ± 0.00062	$r_s(z_d)/D_v(z=0.73)$	0.06186 ± 0.00048
$r_s(z_*)$	145.0 ± 1.2	R	1.7349 ± 0.0071
σ_8	0.841 ± 0.038	$\sigma_8\Omega_m^{0.5}$	0.453 ± 0.027
$\sigma_8\Omega_m^{0.6}$	0.400 ± 0.025	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.72 ± 0.14 Gyr	τ	0.088 ± 0.013
θ_*	0.010405 ± 0.000047	θ_*	0.5962 ± 0.0027 °
$\tau_{\rm rec}$	282.1 ± 2.9	$t_{\rm reion}$	441 ± 81 Myr
t_*	373641^{+3722}_{-3738} yr	$Y_{\rm He}$	< 0.44 (95% CL)
z_d	1021.0 ± 1.1	$z_{\rm eq}$	3338^{+102}_{-101}
$z_{\rm reion}$	10.8 ± 1.4	z_*	$1091.20^{+0.64}_{-0.65}$

WMAP Cosmological Parameters Model: lcdm+yhe Data: wmap9+spt+act				WM D	
$10^9\Delta^2_{\mathcal{R}}$	2.360 ± 0.089	H_0	71.3 ± 1.7 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	2.332 ± 0.0
$A_{\rm clustered}$	< 14 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.1 ± 2.8	$A_{\rm clustered}$	< 14 (95%
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5757 \pm 33\ \mu{\rm K}^2$	$A^{\rm SPT}_{\rm Poisson}$	> 13 (95%
$d_A(z_{\rm eq})$	14147 ± 96 Mpc	$d_A(z_*)$	13982 ± 97 Mpc	$d_A(z_{\rm eq})$	14169 ± 93
$D_v(z=0.57)/r_s(z_d)$	13.12 ± 0.24	η	$(6.21 \pm 0.12) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	$13.00^{+0.2}_{-0.1}$
$k_{\rm eq}$	0.00995 ± 0.00025	$\ell_{\rm eq}$	139.1 ± 2.7	$k_{\rm eq}$	$0.00985^{+0.0}_{-0.0}$
ℓ_*	301.38 ± 0.53	$n_{\rm b}$	$(2.551 \pm 0.048) \times 10^{-7}$ cm^{-3}	ℓ_*	$301.24^{+0.}_{-0.}$
n_s	0.982 ± 0.013	$\Omega_{\rm b}$	0.0448 ± 0.0017	n_s	0.986 ± 0.0
$\Omega_{\rm b}h^2$	0.02272 ± 0.00043	$\Omega_{\rm c}$	0.224 ± 0.017	$\Omega_{\rm b}h^2$	0.02285 ± 0.0
$\Omega_{\rm c}h^2$	0.1136 ± 0.0035	Ω_Λ	0.731 ± 0.019	$\Omega_{\rm c}h^2$	0.1121 ± 0.0
Ω_m	0.269 ± 0.019	$\Omega_m h^2$	0.1363 ± 0.0035	Ω_m	0.260 ± 0.0
$r_s(z_d)$	152.2 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3517 ± 0.0092	$r_s(z_d)$	152.48 ± 0.98
$r_s(z_d)/D_v(z=0.2)$	0.1918 ± 0.0047	$r_s(z_d)/D_v(z=0.35)$	0.1151 ± 0.0025	$r_s(z_d)/D_v(z=0.2)$	0.1941 ± 0.0
$r_s(z_d)/D_v(z=0.44)$	0.0944 ± 0.0019	$r_s(z_d)/D_v(z=0.54)$	0.0796 ± 0.0015	$r_s(z_d)/D_v(z=0.44)$	0.0953 ± 0.0
$r_s(z_d)/D_v(z=0.57)$	0.0762 ± 0.0014	$r_s(z_d)/D_v(z=0.6)$	0.0732 ± 0.0013	$r_s(z_d)/D_v(z=0.57)$	0.0769 ± 0.0
$r_s(z_d)/D_v(z=0.73)$	0.06303 ± 0.00099	$r_s(z_*)$	145.75 ± 0.93	$r_s(z_d)/D_v(z=0.73)$	0.06351 ± 0.0
R	1.722 ± 0.012	σ_8	0.830 ± 0.020	R	1.716 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.430 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.377 ± 0.022	$\sigma_8\Omega_m^{0.5}$	0.421 ± 0.0
$A_{\rm SZ}$	< 1.5 (95% CL)	t_0	13.637 ± 0.092 Gyr	$A_{\rm SZ}$	< 1.6 (95%
τ	0.088 ± 0.014	θ_*	0.010424 ± 0.000018	τ	0.091 ± 0.0
θ_*	0.5973 ± 0.0010 $^\circ$	$\tau_{\rm rec}$	283.6 ± 1.9	θ_*	0.59753 ± 0.00
$t_{\rm reion}$	436^{+63}_{-64} Myr	t_*	376490^{+3216}_{-3212} yr	$t_{\rm reion}$	428^{+61}_{-62} M
$Y_{\rm He}$	0.299 ± 0.027	$z_{\rm d}$	1020.87 ± 0.96	$Y_{\rm He}$	0.302 ± 0.0
$z_{\rm eq}$	3263 ± 83	$z_{\rm rec}$	1090.1 ± 1.1	$z_{\rm eq}$	3230 ± 7
$z_{\rm reion}$	10.9 ± 1.2	z_*	$1090.85^{+0.69}_{-0.70}$	$z_{\rm reion}$	$11.1 \pm 1.$

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	2.424 ± 0.078	H_0	69.21 ± 0.87 km/s/Mpc
$A_{\rm clustered}$	< 14 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.3 ± 2.8
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5744 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14075^{+79}_{-80} Mpc	$d_A(z_*)$	13908 ± 80 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.41 ± 0.12	η	$(6.14 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	0.01023 ± 0.00016	$\ell_{\rm eq}$	142.3 ± 1.5
ℓ_*	301.65 ± 0.49	n_b	$(2.523 \pm 0.043) \times 10^{-7}$ cm^{-3}
n_s	0.973 ± 0.011	Ω_b	$0.04691^{+0.00098}_{-0.00097}$
$\Omega_b h^2$	0.02247 ± 0.00039	Ω_c	$0.2459^{+0.0095}_{-0.0094}$
$\Omega_c h^2$	0.1177 ± 0.0021	Ω_Λ	0.707 ± 0.010
Ω_m	0.293 ± 0.010	$\Omega_m h^2$	0.1402 ± 0.0022
$r_s(z_d)$	$151.34^{+0.80}_{-0.81}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3405^{+0.0044}_{-0.0045}$
$r_s(z_d)/D_v(z=0.2)$	$0.1861^{+0.0022}_{-0.0023}$	$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09206^{+0.00090}_{-0.00091}$	$r_s(z_d)/D_v(z=0.54)$	0.07783 ± 0.00070
$r_s(z_d)/D_v(z=0.57)$	$0.07456^{+0.00065}_{-0.00066}$	$r_s(z_d)/D_v(z=0.6)$	0.07163 ± 0.00061
$r_s(z_d)/D_v(z=0.73)$	0.06181 ± 0.00047	$r_s(z_*)$	144.85 ± 0.67
R	$1.7367^{+0.0061}_{-0.0060}$	σ_8	0.842 ± 0.017
$\sigma_8\Omega_m^{0.5}$	0.455 ± 0.014	$\sigma_8\Omega_m^{0.6}$	0.403 ± 0.014
$A_{\rm SZ}$	< 1.5 (95% CL)	t_0	13.710 ± 0.076 Gyr
τ	0.082 ± 0.012	θ_*	0.010415 ± 0.000017
θ_s	$0.59672 \pm 0.00097\ ^\circ$	$\tau_{\rm rec}$	281.5 ± 1.2
$t_{\rm reion}$	453^{+64}_{-66} Myr	t_*	372814^{+1881}_{-1897} yr
$Y_{\rm He}$	0.295 ± 0.027	z_d	$1020.68^{+0.93}_{-0.94}$
$z_{\rm eq}$	3355 ± 53	$z_{\rm rec}$	1090.5 ± 1.0
$z_{\rm reion}$	10.5 ± 1.1	z_*	$1091.53^{+0.51}_{-0.52}$

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+spt+act+bao+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.401 ± 0.077	H_0	$69.76^{+0.83}_{-0.82}$ km/s/Mpc
$A_{\rm clustered}$	< 14 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.2 ± 2.8
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5750 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14076^{+80}_{-79} Mpc	$d_A(z_*)$	13909 ± 80 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.34 ± 0.11	η	$(6.18 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.01019 ± 0.00016	$\ell_{\rm eq}$	141.7 ± 1.5
ℓ_*	301.50 ± 0.49	n_b	$(2.539 \pm 0.043) \times 10^{-7}$ cm^{-3}
n_s	0.977 ± 0.011	Ω_b	0.04647 ± 0.00093
$\Omega_b h^2$	0.02261 ± 0.00038	Ω_c	0.2406 ± 0.0087
$\Omega_c h^2$	0.1170 ± 0.0021	Ω_Λ	0.7130 ± 0.0095
Ω_m	0.2870 ± 0.0095	$\Omega_m h^2$	0.1396 ± 0.0022
$r_s(z_d)$	$151.37^{+0.81}_{-0.80}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3430 ± 0.0042
$r_s(z_d)/D_v(z=0.2)$	0.1874 ± 0.0021	$r_s(z_d)/D_v(z=0.35)$	0.1127 ± 0.0011
$r_s(z_d)/D_v(z=0.44)$	$0.09259^{+0.00087}_{-0.00086}$	$r_s(z_d)/D_v(z=0.54)$	0.07824 ± 0.00067
$r_s(z_d)/D_v(z=0.57)$	0.07494 ± 0.00063	$r_s(z_d)/D_v(z=0.6)$	$0.07199^{+0.00059}_{-0.00058}$
$r_s(z_d)/D_v(z=0.73)$	0.06208 ± 0.00045	$r_s(z_*)$	144.93 ± 0.67
R	1.7333 ± 0.0058	σ_8	0.841 ± 0.017
$\sigma_8 \Omega_m^{0.5}$	0.451 ± 0.014	$\sigma_8 \Omega_m^{0.6}$	0.398 ± 0.013
$A_{\rm SZ}$	< 1.5 (95% CL)	t_0	13.678 ± 0.074 Gyr
τ	0.084 ± 0.012	θ_*	0.010420 ± 0.000017
θ_*	0.59701 ± 0.00096 °	$\tau_{\rm rec}$	281.8 ± 1.2
$t_{\rm reion}$	446^{+63}_{-65} Myr	t_*	373434^{+1466}_{-1851} yr
$Y_{\rm He}$	0.299 ± 0.027	z_d	$1020.93^{+0.93}_{-0.92}$
$z_{\rm eq}$	3341 ± 52	$z_{\rm rec}$	$1090.5^{+1.0}_{-1.1}$
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1091.28^{+0.50}_{-0.49}$

WMAP Cosmological Parameters

Model: ledm+yhe

Data: wmap9+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.367 ± 0.095	H_0	71.3 ± 1.9 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14267^{+166}_{-168} Mpc
$d_A(z_*)$	14102^{+168}_{-169} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.09 ± 0.27
η	$(6.24^{+0.13}_{-0.14}) \times 10^{-10}$	$k_{\rm eq}$	0.00974 ± 0.00036
$\ell_{\rm eq}$	137.3 ± 3.6	ℓ_*	302.4 ± 1.2
n_δ	$(2.562^{+0.056}_{-0.056}) \times 10^{-7}\ \mathrm{cm}^{-3}$	n_s	0.975 ± 0.015
Ω_b	0.0449 ± 0.0020	$\Omega_b h^2$	0.02281 ± 0.00049
Ω_c	0.218 ± 0.020	$\Omega_c h^2$	0.1106 ± 0.0051
Ω_Λ	0.737 ± 0.022	Ω_m	0.263 ± 0.022
$\Omega_m h^2$	0.1334 ± 0.0050	$r_s(z_d)$	$153.0^{+1.4}_{-1.5}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.354 ± 0.011	$r_s(z_d)/D_v(z=0.2)$	0.1927 ± 0.0054
$r_s(z_d)/D_v(z=0.35)$	0.1155 ± 0.0029	$r_s(z_d)/D_v(z=0.44)$	0.0947 ± 0.0022
$r_s(z_d)/D_v(z=0.54)$	0.0799 ± 0.0017	$r_s(z_d)/D_v(z=0.57)$	0.0764 ± 0.0016
$r_s(z_d)/D_v(z=0.6)$	0.0734 ± 0.0015	$r_s(z_d)/D_v(z=0.73)$	0.0631 ± 0.0011
$r_s(z_*)$	146.5 ± 1.3	R	1.717 ± 0.015
σ_8	0.806 ± 0.036	$\sigma_8\Omega_m^{0.5}$	0.413 ± 0.032
$\sigma_8\Omega_m^{0.6}$	0.362 ± 0.031	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.71 ± 0.13 Gyr	τ	0.092 ± 0.014
θ_*	$0.010389^{+0.000041}_{-0.000040}$	θ_*	0.5952 ± 0.0023 °
$\tau_{\rm rec}$	285.7 ± 3.2	$t_{\rm reion}$	465^{+80}_{-81} Myr
t_*	379306^{+4693}_{-4708} yr	$Y_{\rm He}$	< 0.39 (95% CL)
z_d	1020.8 ± 1.1	$z_{\rm eq}$	3193 ± 119
$z_{\rm reion}$	10.5 ± 1.3	z_*	$1090.47^{+0.85}_{-0.86}$

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.336 ± 0.085	H_0	72.3 ± 1.5 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5761^{+34}_{-33} μK^2	$d_A(z_{\rm eq})$	14294^{+161}_{-162} Mpc
$d_A(z_*)$	14130^{+162}_{-164} Mpc	$D_v(z=0.57)/r_s(z_d)$	12.95 ± 0.22
η	$(6.28 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00962 ± 0.00033
$\ell_{\rm eq}$	135.9 ± 3.2	ℓ_*	$302.3^{+1.1}_{-1.2}$
n_b	$(2.578 \pm 0.052) \times 10^{-7}$ cm^{-3}	n_s	0.979 ± 0.014
Ω_b	0.0440 ± 0.0016	$\Omega_b h^2$	0.02296 ± 0.00046
Ω_c	0.209 ± 0.016	$\Omega_c h^2$	0.1089 ± 0.0045
Ω_Λ	0.747 ± 0.017	Ω_m	0.253 ± 0.017
$\Omega_m h^2$	0.1318 ± 0.0045	$r_s(z_d)$	153.3 ± 1.4 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3587 ± 0.0086	$r_s(z_d)/D_v(z=0.2)$	0.1953 ± 0.0044
$r_s(z_d)/D_v(z=0.35)$	0.1169 ± 0.0023	$r_s(z_d)/D_v(z=0.44)$	0.0958 ± 0.0018
$r_s(z_d)/D_v(z=0.54)$	0.0807 ± 0.0014	$r_s(z_d)/D_v(z=0.57)$	0.0772 ± 0.0013
$r_s(z_d)/D_v(z=0.6)$	0.0741 ± 0.0012	$r_s(z_d)/D_v(z=0.73)$	0.06370 ± 0.00093
$r_s(z_*)$	146.9 ± 1.3	R	1.711 ± 0.012
σ_8	0.800 ± 0.035	$\sigma_8\Omega_m^{0.5}$	0.402 ± 0.028
$\sigma_8\Omega_m^{0.6}$	0.351 ± 0.027	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.68 ± 0.12 Gyr	τ	0.094 ± 0.014
θ_*	$0.010393^{+0.000040}_{-0.000039}$	θ_*	0.5955 ± 0.0023 $^\circ$
$\tau_{\rm rec}$	$286.7^{+2.9}_{-3.0}$	$t_{\rm reion}$	463^{+79}_{-80} Myr
t_*	380905^{+4232}_{-4243} yr	$Y_{\rm He}$	< 0.38 (95% CL)
z_d	1021.0 ± 1.1	$z_{\rm eq}$	3155 ± 107
$z_{\rm reion}$	10.6 ± 1.3	z_*	1090.12 ± 0.73

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.442 ± 0.082	H_0	$69.00^{+0.92}_{-0.93}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5740 ± 33 μK^2	$d_A(z_{\rm eq})$	14159^{+155}_{-156} Mpc
$d_A(z_*)$	13993^{+156}_{-158} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.43 ± 0.12
η	$(6.16 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01010 ± 0.00028
$\ell_{\rm eq}$	141.2 ± 2.4	ℓ_*	302.5 ± 1.3
n_b	$(2.530 \pm 0.049) \times 10^{-7}$ cm^{-3}	n_s	0.969 ± 0.015
Ω_b	0.0473 ± 0.0011	$\Omega_b h^2$	0.02253 ± 0.00044
Ω_c	0.243 ± 0.011	$\Omega_c h^2$	0.1158 ± 0.0038
Ω_Λ	0.709 ± 0.011	Ω_m	0.291 ± 0.011
$\Omega_m h^2$	$0.1383^{+0.0039}_{-0.0038}$	$r_s(z_d)$	151.8 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3404 ± 0.0046	$r_s(z_d)/D_v(z=0.2)$	0.1860 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1119 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09198 ± 0.00093
$r_s(z_d)/D_v(z=0.54)$	0.07775 ± 0.00072	$r_s(z_d)/D_v(z=0.57)$	0.07448 ± 0.00067
$r_s(z_d)/D_v(z=0.6)$	0.07155 ± 0.00063	$r_s(z_d)/D_v(z=0.73)$	$0.06173^{+0.00048}_{-0.00049}$
$r_s(z_*)$	145.3 ± 1.1	R	1.7354 ± 0.0069
σ_8	$0.828^{+0.036}_{-0.034}$	$\sigma_8\Omega_m^{0.5}$	$0.447^{+0.025}_{-0.024}$
$\sigma_8\Omega_m^{0.6}$	0.395 ± 0.023	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.78 ± 0.13 Gyr	τ	0.087 ± 0.013
θ_*	$0.010386^{+0.000044}_{-0.000043}$	θ_*	0.5951 ± 0.0025 $^\circ$
$\tau_{\rm rec}$	282.9 ± 2.6	$t_{\rm reion}$	459^{+81}_{-82} Myr
t_*	374547^{+3379}_{-3415} yr	$Y_{\rm He}$	< 0.41 (95% CL)
z_d	1020.6 ± 1.1	$z_{\rm eq}$	3311^{+92}_{-91}
$z_{\rm reion}$	10.5 ± 1.3	z_*	$1091.28^{+0.64}_{-0.63}$

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+sn1s3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.415 ± 0.080	H_0	69.63 ± 0.87 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5748 ± 33 μK^2	$d_A(z_{\rm eq})$	14138^{+159}_{-160} Mpc
$d_A(z_*)$	13972^{+160}_{-162} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.35 ± 0.11
η	$(6.21 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01009 ± 0.00029
$\ell_{\rm eq}$	$140.9^{+2.5}_{-2.4}$	ℓ_*	302.2 ± 1.3
n_b	$(2.549 \pm 0.048) \times 10^{-7}$ cm^{-3}	n_s	0.974 ± 0.015
Ω_b	0.0468 ± 0.0010	$\Omega_b h^2$	0.02269 ± 0.00043
Ω_c	0.238 ± 0.010	$\Omega_c h^2$	$0.1155^{+0.0039}_{-0.0038}$
Ω_Λ	0.715 ± 0.011	Ω_m	0.285 ± 0.011
$\Omega_m h^2$	$0.1382^{+0.0040}_{-0.0039}$	$r_s(z_d)$	$151.7^{+1.2}_{-1.3}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3430 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	0.1874 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1127 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09254 ± 0.00089
$r_s(z_d)/D_v(z=0.54)$	0.07819 ± 0.00069	$r_s(z_d)/D_v(z=0.57)$	0.07489 ± 0.00064
$r_s(z_d)/D_v(z=0.6)$	0.07193 ± 0.00060	$r_s(z_d)/D_v(z=0.73)$	$0.06202^{+0.00047}_{-0.00046}$
$r_s(z_*)$	145.3 ± 1.1	R	1.7321 ± 0.0068
σ_8	0.832 ± 0.036	$\sigma_8\Omega_m^{0.5}$	0.444 ± 0.025
$\sigma_8\Omega_m^{0.6}$	0.392 ± 0.023	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.73 ± 0.13 Gyr	τ	0.088 ± 0.013
θ_*	0.010397 ± 0.000045	θ_*	0.5957 ± 0.0026 °
$\tau_{\rm rec}$	282.9 ± 2.7	$t_{\rm reion}$	450^{+80}_{-82} Myr
t_*	374785^{+3466}_{-3512} yr	$Y_{\rm He}$	< 0.42 (95% CL)
z_d	1021.0 ± 1.1	$z_{\rm eq}$	3308^{+95}_{-94}
$z_{\rm reion}$	$10.7^{+1.4}_{-1.3}$	z_*	1091.04 ± 0.63

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.340 ± 0.085	H_0	71.9 ± 1.6 km/s/Mpc
$A_{\rm clustered}$	< 14 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.1 ± 2.7
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5762 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14171 ± 93 Mpc	$d_A(z_*)$	14006 ± 94 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.03 ± 0.22	η	$(6.23 \pm 0.12) \times 10^{-10}$
$k_{\rm eq}$	0.00986 ± 0.00023	$\ell_{\rm eq}$	138.1 ± 2.5
ℓ_*	301.31 ± 0.52	n_b	$(2.561 \pm 0.048) \times 10^{-7}$ cm^{-3}
n_s	0.984 ± 0.013	Ω_b	0.0441 ± 0.0016
$\Omega_b h^2$	0.02280 ± 0.00043	Ω_c	0.218 ± 0.015
$\Omega_c h^2$	0.1123 ± 0.0033	Ω_Λ	0.738 ± 0.017
Ω_m	0.262 ± 0.017	$\Omega_m h^2$	0.1351 ± 0.0032
$r_s(z_d)$	152.49 ± 0.99 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3354 ± 0.0085
$r_s(z_d)/D_v(z=0.2)$	0.1937 ± 0.0043	$r_s(z_d)/D_v(z=0.35)$	0.1161 ± 0.0023
$r_s(z_d)/D_v(z=0.44)$	0.0951 ± 0.0018	$r_s(z_d)/D_v(z=0.54)$	0.0802 ± 0.0014
$r_s(z_d)/D_v(z=0.57)$	0.0768 ± 0.0013	$r_s(z_d)/D_v(z=0.6)$	0.0737 ± 0.0012
$r_s(z_d)/D_v(z=0.73)$	0.06342 ± 0.00092	$r_s(z_*)$	146.03 ± 0.88
R	1.717 ± 0.011	σ_8	0.826 ± 0.020
$\sigma_8\Omega_m^{0.5}$	0.422 ± 0.020	$\sigma_8\Omega_m^{0.6}$	0.369 ± 0.020
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.6 (95% CL)	t_0	$13.614^{+0.090}_{-0.089}$ Gyr
τ	0.090 ± 0.014	θ_*	0.010427 ± 0.000018
θ_s	0.5974 ± 0.0010 °	$\tau_{\rm rec}$	284.3 ± 1.8
$t_{\rm reion}$	430^{+62}_{-63} Myr	t_*	377688^{+2993}_{-3000} yr
$Y_{\rm He}$	0.300 ± 0.027	z_d	1020.94 ± 0.97
$z_{\rm eq}$	3234 ± 77	$z_{\rm rec}$	1090.0 ± 1.1
$z_{\rm reion}$	11.0 ± 1.2	z_*	1090.62 ± 0.66

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.322^{+0.081}_{-0.080}$	H_0	72.5 ± 1.3 km/s/Mpc
$A_{\rm clustered}$	< 14 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.1 ± 2.7
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5766 ± 32 μK^2
$d_A(z_{\rm eq})$	14184 ± 91 Mpc	$d_A(z_*)$	14019 ± 92 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.95 ± 0.18	η	$(6.26 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	0.00980 ± 0.00021	$\ell_{\rm eq}$	137.3 ± 2.2
ℓ_*	301.21 ± 0.50	$n_{\rm b}$	$(2.571 \pm 0.045) \times 10^{-7}$ cm^{-3}
n_s	0.987 ± 0.012	$\Omega_{\rm b}$	0.0436 ± 0.0014
$\Omega_{\rm b}h^2$	0.02289 ± 0.00040	$\Omega_{\rm c}$	0.212 ± 0.013
$\Omega_{\rm c}h^2$	0.1113 ± 0.0029	Ω_Λ	0.744 ± 0.014
Ω_m	0.256 ± 0.014	$\Omega_m h^2$	0.1342 ± 0.0029
$r_s(z_d)$	152.65 ± 0.96 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3583^{+0.0072}_{-0.0073}$
$r_s(z_d)/D_v(z=0.2)$	0.1951 ± 0.0037	$r_s(z_d)/D_v(z=0.35)$	0.1169 ± 0.0020
$r_s(z_d)/D_v(z=0.44)$	0.0957 ± 0.0015	$r_s(z_d)/D_v(z=0.54)$	0.0807 ± 0.0012
$r_s(z_d)/D_v(z=0.57)$	0.0772 ± 0.0011	$r_s(z_d)/D_v(z=0.6)$	0.0741 ± 0.0010
$r_s(z_d)/D_v(z=0.73)$	0.06374 ± 0.00079	$r_s(z_*)$	146.22 ± 0.84
R	1.7130 ± 0.0095	σ_8	0.824 ± 0.020
$\sigma_8\Omega_m^{0.5}$	0.416 ± 0.018	$\sigma_8\Omega_m^{0.6}$	0.363 ± 0.018
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.6 (95% CL)	t_0	$13.590^{+0.082}_{-0.081}$ Gyr
τ	0.092 ± 0.014	θ_*	0.010430 ± 0.000017
θ_*	0.59759 ± 0.00100 $^\circ$	$\tau_{\rm rec}$	284.7 ± 1.6
$t_{\rm reion}$	425^{+61}_{-62} Myr	t_*	378554^{+2679}_{-2696} yr
$Y_{\rm He}$	0.302 ± 0.027	z_d	$1021.05^{+0.98}_{-0.96}$
$z_{\rm eq}$	3213 ± 70	$z_{\rm rec}$	1089.9 ± 1.1
$z_{\rm reion}$	11.2 ± 1.2	z_*	1090.42 ± 0.58

WMAP Cosmological Parameters Model: lcdm+yhe Data: wmap9+spt+act+snls3+bao				WMA Data: wm	
$10^9\Delta^2_{\mathcal{R}}$	2.416 ± 0.078	H_0	$69.51^{+0.86}_{-0.85}$ km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	$2.395^{+0.07}_{-0.07}$
$A_{\rm clustered}$	< 14 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$13.2^{+2.8}_{-2.7}$	$A_{\rm clustered}$	< 14 (95% C
$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5747 \pm 32\ \mu{\rm K}^2$	$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% C
$d_A(z_{\rm eq})$	14086^{+80}_{-81} Mpc	$d_A(z_*)$	13919^{+81}_{-82} Mpc	$d_A(z_{\rm eq})$	14085^{+80}_{-81} M
$D_v(z=0.57)/r_s(z_d)$	13.37 ± 0.11	η	$(6.16^{+0.11}_{-0.10}) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	13.31 ± 0.1
$k_{\rm eq}$	0.01019 ± 0.00016	$\ell_{\rm eq}$	141.8 ± 1.5	$k_{\rm eq}$	0.01015 ± 0.0
ℓ_*	$301.62^{+0.49}_{-0.50}$	$n_{\rm b}$	$(2.528 \pm 0.043) \times 10^{-7}$ cm^{-3}	ℓ_*	$301.48 \pm 0.$
n_s	0.974 ± 0.011	$\Omega_{\rm b}$	0.04661 ± 0.00095	n_s	0.978 ± 0.0
$\Omega_{\rm b}h^2$	0.02251 ± 0.00038	$\Omega_{\rm c}$	$0.2425^{+0.0089}_{-0.0090}$	$\Omega_{\rm b}h^2$	0.02264 ± 0.0
$\Omega_{\rm c}h^2$	0.1171 ± 0.0021	Ω_Λ	$0.7109^{+0.0099}_{-0.0098}$	$\Omega_{\rm c}h^2$	0.1165 ± 0.0
Ω_m	$0.2891^{+0.0098}_{-0.0099}$	$\Omega_m h^2$	0.1396 ± 0.0022	Ω_m	$0.2840^{+0.00}_{-0.00}$
$r_s(z_d)$	$151.45^{+0.81}_{-0.82}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3420 ± 0.0043	$r_s(z_d)$	$151.48^{+0.81}_{-0.82}$ M
$r_s(z_d)/D_v(z=0.2)$	0.1869 ± 0.0022	$r_s(z_d)/D_v(z=0.35)$	0.1125 ± 0.0012	$r_s(z_d)/D_v(z=0.2)$	0.1881 ± 0.0
$r_s(z_d)/D_v(z=0.44)$	$0.09239^{+0.00089}_{-0.00088}$	$r_s(z_d)/D_v(z=0.54)$	$0.07808^{+0.00069}_{-0.00068}$	$r_s(z_d)/D_v(z=0.44)$	0.09286 ± 0.0
$r_s(z_d)/D_v(z=0.57)$	0.07480 ± 0.00064	$r_s(z_d)/D_v(z=0.6)$	0.07185 ± 0.00060	$r_s(z_d)/D_v(z=0.57)$	0.07514 ± 0.0
$r_s(z_d)/D_v(z=0.73)$	0.06198 ± 0.00046	$r_s(z_*)$	$144.98^{+0.67}_{-0.69}$	$r_s(z_d)/D_v(z=0.73)$	0.06222 ± 0.0
R	1.7346 ± 0.0059	σ_8	$0.840^{+0.018}_{-0.017}$	R	1.7315 ± 0.0
$\sigma_8\Omega_m^{0.5}$	0.452 ± 0.014	$\sigma_8\Omega_m^{0.6}$	$0.399^{+0.014}_{-0.013}$	$\sigma_8\Omega_m^{0.5}$	0.448 ± 0.0
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.25 ± 0.11	$\alpha_{\rm SNLS}$	1.43 ± 0.1
$A_{\rm SZ}$	< 1.5 (95% CL)	t_0	$13.700^{+0.075}_{-0.076}$ Gyr	$A_{\rm SZ}$	< 1.5 (95% C
τ	0.083 ± 0.012	θ_*	0.010416 ± 0.000017	τ	0.084 ± 0.0
θ_*	$0.59678^{+0.00098}_{-0.00097}$ ◦	$\tau_{\rm rec}$	281.8 ± 1.2	θ_*	$0.59705^{+0.000}_{-0.000}$
$t_{\rm reion}$	449^{+64}_{-65} Myr	t_*	373356^{+1875}_{-1887} yr	$t_{\rm reion}$	444^{+62}_{-64} My
$Y_{\rm He}$	0.295 ± 0.027	$z_{\rm d}$	$1020.73^{+0.94}_{-0.92}$	$Y_{\rm He}$	0.299 ± 0.0
$z_{\rm eq}$	3341 ± 53	$z_{\rm rec}$	1090.5 ± 1.0	$z_{\rm eq}$	3330^{+53}_{-52}
$z_{\rm reion}$	10.6 ± 1.1	z_*	1091.41 ± 0.50	$z_{\rm reion}$	10.7 ± 1.1

WMAP Cosmological Parameters

Model: lcdm+nrel+yhe

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	2.372 ± 0.100	H_0	$70.5^{+4.8}_{-4.9}$ km/s/Mpc
$N_{\rm eff}$	2.92 ± 0.79	$A_{\rm clustered}$	< 14 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	13.2 ± 2.7	$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5757 ± 34 μK^2	$d_A(z_{\rm eq})$	14292^{+670}_{-669} Mpc
$d_A(z_*)$	14124^{+660}_{-658} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.23 ± 0.52
η	$(6.20 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00991 ± 0.00038
$\ell_{\rm eq}$	139.7 ± 3.6	ℓ_*	301.2 ± 1.0
n_{δ}	$(2.545 \pm 0.055) \times 10^{-7}$ cm^{-3}	n_s	0.978 ± 0.019
Ω_b	0.0462 ± 0.0058	$\Omega_b h^2$	0.02266 ± 0.00049
Ω_c	$0.226^{+0.018}_{-0.019}$	$\Omega_c h^2$	0.112 ± 0.011
Ω_Λ	0.728 ± 0.023	Ω_m	0.272 ± 0.023
$\Omega_m h^2$	0.135 ± 0.012	$r_s(z_d)$	153.9 ± 7.7 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.349 ± 0.017	$r_s(z_d)/D_v(z=0.2)$	0.1903 ± 0.0088
$r_s(z_d)/D_v(z=0.35)$	$0.1142^{+0.0049}_{-0.0050}$	$r_s(z_d)/D_v(z=0.44)$	0.0937 ± 0.0039
$r_s(z_d)/D_v(z=0.54)$	0.0791 ± 0.0032	$r_s(z_d)/D_v(z=0.57)$	0.0757 ± 0.0030
$r_s(z_d)/D_v(z=0.6)$	$0.0727^{+0.0028}_{-0.0029}$	$r_s(z_d)/D_v(z=0.73)$	0.0626 ± 0.0023
$r_s(z_*)$	147.3 ± 7.3	R	1.724 ± 0.015
σ_8	0.824 ± 0.033	$\sigma_8\Omega_m^{0.5}$	0.430 ± 0.022
$\sigma_8\Omega_m^{0.6}$	0.377 ± 0.022	$A_{\rm SZ}$	< 1.5 (95% CL)
t_0	13.80 ± 0.72 Gyr	τ	0.088 ± 0.014
θ_*	0.010431 ± 0.000036	θ_*	0.5977 ± 0.0021 $^\circ$
$\tau_{\rm rec}$	287 ± 14	$t_{\rm reion}$	442 ± 71 Myr
t_*	380367^{+18260}_{-18120} yr	$Y_{\rm He}$	$0.302^{+0.058}_{-0.059}$
z_d	1020.5 ± 1.9	$z_{\rm eq}$	3283^{+116}_{-117}
$z_{\rm rec}$	1090.1 ± 1.1	$z_{\rm reion}$	10.9 ± 1.2
z_*	$1090.76^{+0.96}_{-0.95}$		

WMAP Cosmological Parameters

Model: lcdm+nrel+yhe

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	2.336 ± 0.081	H_0	73.1 ± 2.2 km/s/Mpc
$N_{\rm eff}$	3.31 ± 0.45	$A_{\rm clustered}$	< 14 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	$13.2^{+2.7}_{-2.8}$	$A^{\rm SPT}_{\rm Poisson}$	> 13 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5762^{+32}_{-33} μK^2	$d_A(z_{\rm eq})$	13952^{+387}_{-384} Mpc
$d_A(z_*)$	13789^{+382}_{-380} Mpc	$D_v(z=0.57)/r_s(z_d)$	12.93 ± 0.23
η	$(6.24 \pm 0.11) \times 10^{-10}$	$k_{\rm eq}$	0.01001 ± 0.00035
$\ell_{\rm eq}$	138.0 ± 2.3	ℓ_*	$301.61^{+0.79}_{-0.78}$
$n_{\rm b}$	$(2.564^{+0.046}_{-0.046}) \times 10^{-7}$ cm^{-3}	n_s	0.987 ± 0.012
$\Omega_{\rm b}$	0.0429 ± 0.0024	$\Omega_{\rm b}h^2$	$0.02283^{+0.00040}_{-0.00041}$
$\Omega_{\rm c}$	0.219 ± 0.015	$\Omega_{\rm c}h^2$	$0.1169^{+0.0083}_{-0.0085}$
Ω_Λ	0.738 ± 0.015	Ω_m	0.262 ± 0.015
$\Omega_m h^2$	$0.1397^{+0.0083}_{-0.0084}$	$r_s(z_d)$	$150.0^{+4.5}_{-4.4}$ Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3579 ± 0.0082	$r_s(z_d)/D_v(z=0.2)$	$0.1950^{+0.0043}_{-0.0042}$
$r_s(z_d)/D_v(z=0.35)$	0.1169 ± 0.0023	$r_s(z_d)/D_v(z=0.44)$	0.0958 ± 0.0018
$r_s(z_d)/D_v(z=0.54)$	0.0808 ± 0.0014	$r_s(z_d)/D_v(z=0.57)$	0.0773 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0742 ± 0.0013	$r_s(z_d)/D_v(z=0.73)$	0.0639 ± 0.0010
$r_s(z_*)$	$143.6^{+4.3}_{-4.2}$	R	1.717 ± 0.010
σ_8	0.836 ± 0.026	$\sigma_8\Omega_m^{0.5}$	0.428 ± 0.022
$\sigma_8\Omega_m^{0.6}$	0.374 ± 0.021	$A_{\rm SZ}$	< 1.5 (95% CL)
t_0	13.40 ± 0.35 Gyr	τ	0.090 ± 0.014
θ_*	0.010416 ± 0.000027	θ_*	0.5968 ± 0.0016 $^\circ$
$\tau_{\rm rec}$	$279.7^{+8.2}_{-8.1}$	$t_{\rm reion}$	424^{+61}_{-62} Myr
t_*	371494^{+11319}_{-11159} yr	$Y_{\rm He}$	0.290 ± 0.033
z_d	1021.4 ± 1.1	$z_{\rm eq}$	3227^{+73}_{-74}
$z_{\rm rec}$	1090.0 ± 1.0	$z_{\rm reion}$	11.0 ± 1.2
z_*	1090.97 ± 0.92		

WMAP Cosmological Parameters

Model: lcdm+nrel+yhe

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.444^{+0.082}_{-0.081}$	H_0	66.9 ± 3.4 km/s/Mpc
$N_{\rm eff}$	2.58 ± 0.67	$A_{\rm clustered}$	$5.8^{+4.3}_{-5.8}$
$A^{\rm ACT}_{\rm Poisson}$	13.4 ± 2.7	$A^{\rm SPT}_{\rm Poisson}$	21.6 ± 4.6
$\ell(\ell+1)C_{220}/(2\pi)$	5745 ± 31 μK^2	$d_A(z_{\rm eq})$	14515^{+616}_{-625} Mpc
$d_A(z_*)$	14341^{+607}_{-616} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.43 ± 0.12
	$0.000000000612 \pm 0.000000000011$	η	$(6.12 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	$0.01001^{+0.00037}_{-0.00036}$	$\ell_{\rm eq}$	143.3 ± 2.1
ℓ_*	301.0 ± 1.0	n_b	$(2.512 \pm 0.045) \times 10^{-7}$ cm^{-3}
n_s	0.965 ± 0.015	Ω_b	0.0504 ± 0.0048
$\Omega_b h^2$	$0.02237^{+0.00040}_{-0.00041}$	Ω_c	$0.2468^{+0.0099}_{-0.0097}$
$\Omega_c h^2$	0.111 ± 0.011	Ω_Λ	0.703 ± 0.012
Ω_m	0.297 ± 0.012	$\Omega_m h^2$	0.133 ± 0.011
$r_s(z_d)$	$156.4^{+7.1}_{-7.2}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3395^{+0.0047}_{-0.0046}$
$r_s(z_d)/D_v(z=0.2)$	0.1856 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1118 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09192^{+0.00093}_{-0.00094}$	$r_s(z_d)/D_v(z=0.54)$	$0.07774^{+0.00072}_{-0.00073}$
$r_s(z_d)/D_v(z=0.57)$	0.07448 ± 0.00067	$r_s(z_d)/D_v(z=0.6)$	$0.07156^{+0.00062}_{-0.00063}$
$r_s(z_d)/D_v(z=0.73)$	0.06177 ± 0.00048	$r_s(z_*)$	$149.7^{+6.7}_{-6.9}$
R	$1.7393^{+0.0071}_{-0.0070}$	σ_8	0.823 ± 0.031
$A_{\rm SZ}$	$0.62^{+0.46}_{-0.62}$	t_0	$14.16^{+0.63}_{-0.64}$ Gyr
τ	0.082 ± 0.012	θ_*	0.010437 ± 0.000035
θ_s	0.5980 ± 0.0020 °	$\tau_{\rm rec}$	291 ± 13
$t_{\rm reion}$	469 ± 71 Myr	t_*	384986^{+17053}_{-17249} yr
$Y_{\rm He}$	$0.311^{+0.036}_{-0.037}$	z_d	1019.7 ± 1.7
$z_{\rm eq}$	3394^{+76}_{-75}	$z_{\rm rec}$	1090.5 ± 1.0
$z_{\rm reion}$	10.5 ± 1.1	z_*	1091.02 ± 0.91

WMAP Cosmological Parameters

Model: lcdm+nrel+yhe

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.400^{+0.077}_{-0.076}$	H_0	$71.9^{+2.1}_{-2.2}$ km/s/Mpc
$N_{\rm eff}$	$3.55^{+0.49}_{-0.48}$	$A_{\rm clustered}$	$5.8^{+4.3}_{-5.8}$
$A^{\rm ACT}_{\rm Poisson}$	13.4 ± 2.7	$A^{\rm SPT}_{\rm Poisson}$	$21.7^{+4.5}_{-4.6}$
$\ell(\ell+1)C_{220}/(2\pi)$	5750 ± 32 μK^2	$d_A(z_{\rm eq})$	13678^{+384}_{-389} Mpc
$d_A(z_*)$	13516^{+379}_{-385} Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.37^{+0.12}_{-0.11}$
	$0.000000000\mathbf{6184}^{+0.000000000001103}_{-0.000000000000999}$	η	$(6.184^{+0.103}_{-0.099}) \times 10^{-10}$
$k_{\rm eq}$	0.01045 ± 0.00030	$\ell_{\rm eq}$	$141.2^{+1.6}_{-1.5}$
ℓ_*	$302.15^{+0.75}_{-0.78}$	n_b	$(2.540^{+0.042}_{-0.041}) \times 10^{-7}$ cm^{-3}
n_s	0.980 ± 0.011	Ω_b	$0.0439^{+0.0026}_{-0.0025}$
$\Omega_b h^2$	$0.02261^{+0.00038}_{-0.00036}$	Ω_c	$0.2429^{+0.0091}_{-0.0090}$
$\Omega_c h^2$	$0.1255^{+0.0087}_{-0.0084}$	Ω_Λ	$0.7132^{+0.0096}_{-0.0099}$
Ω_m	$0.2868^{+0.0099}_{-0.0096}$	$\Omega_m h^2$	$0.1481^{+0.0086}_{-0.0084}$
$r_s(z_d)$	146.8 ± 4.4 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3424^{+0.0043}_{-0.0044}$
$r_s(z_d)/D_v(z=0.2)$	0.1871 ± 0.0022	$r_s(z_d)/D_v(z=0.35)$	0.1125 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09242^{+0.00088}_{-0.00089}$	$r_s(z_d)/D_v(z=0.54)$	$0.07810^{+0.00068}_{-0.00070}$
$r_s(z_d)/D_v(z=0.57)$	$0.07481^{+0.00064}_{-0.00066}$	$r_s(z_d)/D_v(z=0.6)$	$0.07186^{+0.00060}_{-0.00061}$
$r_s(z_d)/D_v(z=0.73)$	$0.06197^{+0.00047}_{-0.00048}$	$r_s(z_*)$	140.5 ± 4.2
R	$1.7331^{+0.0060}_{-0.0058}$	σ_8	0.858 ± 0.023
$A_{\rm SZ}$	$0.60^{+0.45}_{-0.60}$	t_0	13.29 ± 0.37 Gyr
τ	0.082 ± 0.012	θ_*	0.010398 ± 0.000026
θ_*	0.5957 ± 0.0015 $^\circ$	$\tau_{\rm rec}$	$273.4^{+8.0}_{-8.1}$
$t_{\rm reion}$	435^{+62}_{-64} Myr	t_*	362081^{+10818}_{-11037} yr
$Y_{\rm He}$	$0.278^{+0.034}_{-0.032}$	z_d	1021.6 ± 1.1
$z_{\rm eq}$	3318 ± 55	$z_{\rm rec}$	1090.5 ± 1.0
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1091.99^{+0.85}_{-0.84}$

WMAP Cosmological Parameters

Model: oleda

Data: wmap9

$10^9\Delta^2_{\mathcal{R}}$	2.43 ± 0.11	H_0	$38 < H_0 < 84$ $km/s/Mpc$ (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5747 ± 35 μK^2	$d_A(z_{\rm eq})$	14168 ± 122 Mpc
$d_A(z_*)$	14016 ± 119 Mpc	$D_v(z=0.57)/r_s(z_d)$	$14.9^{+2.3}_{-2.2}$
η	$(6.16 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	0.01002 ± 0.00033
$\ell_{\rm eq}$	$140.4^{+3.5}_{-3.6}$	ℓ_*	$302.43^{+0.66}_{-0.65}$
n_b	$(2.531 \pm 0.057) \times 10^{-7}$ cm^{-3}	n_s	0.969 ± 0.014
Ω_b	$0.032 < \Omega_b < 0.151$ (95% CL)	$\Omega_b h^2$	0.02253 ± 0.00051
Ω_c	$0.16 < \Omega_c < 0.80$ (95% CL)	$\Omega_c h^2$	0.1147 ± 0.0046
Ω_k	$-0.037^{+0.044}_{-0.042}$	Ω_k	$-0.212 < \Omega_k < 0.021$ (95% CL)
Ω_Λ	$0.22 < \Omega_\Lambda < 0.79$ (95% CL)	Ω_m	$0.19 < \Omega_m < 0.95$ (95% CL)
$\Omega_m h^2$	$0.13 < \Omega_m h^2 < 0.14$ (95% CL)	$\Omega_{\rm tot}$	$1.037^{+0.042}_{-0.044}$
$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.21$ (95% CL)	$r_s(z_d)$	152.1 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.306^{+0.063}_{-0.064}$	$r_s(z_d)/D_v(z=0.2)$	$0.168^{+0.032}_{-0.033}$
$r_s(z_d)/D_v(z=0.35)$	0.102 ± 0.018	$r_s(z_d)/D_v(z=0.44)$	0.085 ± 0.014
$r_s(z_d)/D_v(z=0.54)$	0.072 ± 0.011	$r_s(z_d)/D_v(z=0.57)$	0.069 ± 0.010
$r_s(z_d)/D_v(z=0.6)$	$0.0662^{+0.0097}_{-0.0099}$	$r_s(z_d)/D_v(z=0.73)$	$0.0575^{+0.0078}_{-0.0079}$
$r_s(z_*)$	145.6 ± 1.2	R	1.732 ± 0.016
σ_8	$0.804^{+0.032}_{-0.030}$	$\sigma_8\Omega_m^{0.5}$	0.51 ± 0.11
$\sigma_8\Omega_m^{0.6}$	0.47 ± 0.12	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	14.8 ± 1.5 Gyr	τ	0.087 ± 0.014
θ_*	0.010388 ± 0.000022	θ_*	0.5952 ± 0.0013 °
$\tau_{\rm rec}$	283.5 ± 2.4	$t_{\rm reion}$	462^{+87}_{-88} Myr
t_*	375533^{+4189}_{-4179} yr	z_d	1020.5 ± 1.1
$z_{\rm eq}$	3285 ± 108	$z_{\rm rec}$	1088.33 ± 0.81
$z_{\rm reion}$	10.4 ± 1.1	z_*	1091.19 ± 0.89

WMAP Cosmological Parameters

Model: olcdm

Data: wmap9+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.389^{+0.096}_{-0.095}$	H_0	73.4 ± 2.4 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14208 ± 114 Mpc
$d_A(z_*)$	14037^{+116}_{-117} Mpc	$D_v(z=0.57)/r_s(z_d)$	12.83 ± 0.31
η	$(6.21 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00991 ± 0.00031
$\ell_{\rm eq}$	139.1 ± 3.3	ℓ_*	$302.28^{+0.64}_{-0.63}$
n_b	$(2.552^{+0.054}_{-0.055}) \times 10^{-7}$ cm^{-3}	n_s	0.975 ± 0.012
$\Omega_b h^2$	0.02272 ± 0.00048	$\Omega_c h^2$	0.1131 ± 0.0043
Ω_k	$0.0049^{+0.0298}_{-0.0049}$	Ω_k	$-0.0050 < \Omega_k < 0.0348$ (95% CL)
Ω_Λ	$0.742^{+0.018}_{-0.017}$	$\Omega_m h^2$	0.1358 ± 0.0042
$\Omega_{\rm tot}$	$0.9951^{+0.0049}_{-0.0298}$	$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.4 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.362 ± 0.011
$r_s(z_d)/D_v(z=0.2)$	0.1972 ± 0.0059	$r_s(z_d)/D_v(z=0.35)$	0.1181 ± 0.0033
$r_s(z_d)/D_v(z=0.44)$	0.0967 ± 0.0025	$r_s(z_d)/D_v(z=0.54)$	0.0815 ± 0.0020
$r_s(z_d)/D_v(z=0.57)$	0.0780 ± 0.0019	$r_s(z_d)/D_v(z=0.6)$	0.0749 ± 0.0018
$r_s(z_d)/D_v(z=0.73)$	0.0644 ± 0.0014	$r_s(z_*)$	145.9 ± 1.1
R	1.725 ± 0.015	σ_8	0.821 ± 0.024
$\sigma_8\Omega_m^{0.5}$	0.413 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.360 ± 0.022
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.45 ± 0.24 Gyr
τ	0.090 ± 0.014	θ_*	0.010393 ± 0.000022
θ_*	$0.5955^{+0.0012}_{-0.0013}$ °	$\tau_{\rm rec}$	284.3 ± 2.3
$t_{\rm reion}$	450 ± 64 Myr	t_*	376989^{+3923}_{-3951} yr
z_d	1020.8 ± 1.1	$z_{\rm eq}$	3251^{+102}_{-101}
$z_{\rm rec}$	$1088.03^{+0.75}_{-0.76}$	$z_{\rm reion}$	10.6 ± 1.1
z_*	1090.80 ± 0.80		

WMAP Cosmological Parameters

Model: oleda

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.409^{+0.096}_{-0.095}$	H_0	68.2 ± 1.1 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5749 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14198 ± 113 Mpc
$d_A(z_*)$	14035^{+117}_{-116} Mpc	$D_v(z=0.57)/r_s(z_{\rm d})$	13.54 ± 0.14
η	$(6.19 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	$0.00994, \pm 0.00031$
$\ell_{\rm eq}$	$139.5^{+3.3}_{-3.2}$	ℓ_*	$302.36^{+0.85}_{-0.84}$
$n_{\rm b}$	$(2.541 \pm 0.053) \times 10^{-7}$ cm^{-3}	n_s	0.972 ± 0.012
$\Omega_{\rm b}h^2$	0.02263 ± 0.00047	$\Omega_{\rm c}h^2$	0.1136 ± 0.0043
Ω_Λ	0.711 ± 0.013	$\Omega_m h^2$	0.1362 ± 0.0042
$r_s(z_{\rm d})$	152.3 ± 1.2 Mpc	$r_s(z_{\rm d})/D_v(z=0.106)$	$0.3375^{+0.0047}_{-0.0048}$
$r_s(z_{\rm d})/D_v(z=0.2)$	$0.1845^{+0.0024}_{-0.0025}$	$r_s(z_{\rm d})/D_v(z=0.35)$	0.1110 ± 0.0013
$r_s(z_{\rm d})/D_v(z=0.44)$	0.0912 ± 0.0010	$r_s(z_{\rm d})/D_v(z=0.54)$	0.07712 ± 0.00083
$r_s(z_{\rm d})/D_v(z=0.57)$	0.07388 ± 0.00078	$r_s(z_{\rm d})/D_v(z=0.6)$	0.07097 ± 0.00074
$r_s(z_{\rm d})/D_v(z=0.73)$	0.06124 ± 0.00060	$r_s(z_*)$	145.8 ± 1.1
R	$1.727^{+0.015}_{-0.014}$	σ_8	$0.818^{+0.023}_{-0.024}$
$\sigma_8\Omega_m^{0.5}$	0.443 ± 0.018	$\sigma_8\Omega_m^{0.6}$	0.392 ± 0.017
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.93 ± 0.19 Gyr
τ	0.089 ± 0.013	θ_*	0.010390 ± 0.000022
θ_*	0.5953 ± 0.0013 °	$\tau_{\rm rec}$	$284.1^{+2.3}_{-2.2}$
$t_{\rm reion}$	455^{+63}_{-64} Myr	t_*	376571^{+3876}_{-3905} yr
$z_{\rm d}$	1020.7 ± 1.1	$z_{\rm eq}$	3260 ± 100
$z_{\rm rec}$	$1088.15^{+0.75}_{-0.74}$	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1090.96^{+0.78}_{-0.79}$		

WMAP Cosmological Parameters

Model: olcdm

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.406^{+0.098}_{-0.095}$	H_0	69.1 ± 1.0 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5751 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14166^{+112}_{-114} Mpc
$d_A(z_*)$	14001^{+116}_{-118} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.42 ± 0.13
η	$(6.22 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.01001 ± 0.00031
$\ell_{\rm eq}$	$140.1^{+3.2}_{-3.3}$	ℓ_*	302.24 ± 0.64
n_b	$(2.554^{+0.063}_{-0.052}) \times 10^{-7}$ cm^{-3}	n_s	0.974 ± 0.012
$\Omega_b h^2$	0.02275 ± 0.00047	$\Omega_c h^2$	0.1143 ± 0.0043
Ω_Λ	$0.715^{+0.143}_{-0.013}$	$\Omega_m h^2$	0.1371 ± 0.0042
$r_s(z_d)$	152.0 ± 1.2 Mpc	$r_s(z_*)$	145.5 ± 1.1
R	$1.729^{+0.015}_{-0.014}$	σ_8	0.824 ± 0.024
$\sigma_8\Omega_m^{0.5}$	0.441 ± 0.018	$\sigma_8\Omega_m^{0.6}$	0.389 ± 0.017
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	13.81 ± 0.18 Gyr
τ	0.089 ± 0.014	θ_*	0.010394 ± 0.000022
θ_*	0.5956 ± 0.0013 °	$\tau_{\rm rec}$	$283.6^{+2.3}_{-2.2}$
$t_{\rm reion}$	452^{+64}_{-65} Myr	t_*	375855^{+3915}_{-3865} yr
z_d	1021.0 ± 1.0	$z_{\rm eq}$	3281 ± 101
$z_{\rm rec}$	1088.08 ± 0.75	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1090.87^{+0.79}_{-0.80}$		

$10^9\Delta^2_{\mathcal{R}}$	$2.430 \pm$
$A_{\rm clustered}$	< 10 (9
$A^{\rm SPT}_{\rm Poisson}$	> 17 (9
$d_A(z_{\rm eq})$	$14233 \pm$
$D_v(z=0.57)/r_s(z_d)$	$13.14 \pm$
$k_{\rm eq}$	$0.00985 \pm$
ℓ_*	302.05
n_s	0.9646
$\Omega_b h^2$	$0.02230 \pm$
$\Omega_c h^2$	$0.1127 \pm$
Ω_k	$-0.029 < \Omega_k <$
Ω_m	$0.273 \pm$
$\Omega_{\rm tot}$	$1.001 \pm$
$r_s(z_d)$	$153.0 \pm$
$r_s(z_d)/D_v(z=0.2)$	$0.192 \pm$
$r_s(z_d)/D_v(z=0.44)$	$0.0947 \pm$
$r_s(z_d)/D_v(z=0.57)$	$0.0765 \pm$
$r_s(z_d)/D_v(z=0.73)$	0.0632
R	$1.724 \pm$
$\sigma_8\Omega_m^{0.5}$	$0.421 \pm$
$A_{\rm SZ}$	< 1.1 (9
τ	$0.084 \pm$
θ_*	$0.59593 \pm$
$t_{\rm reion}$	474^{+6}_{-6}
z_d	1019.8
$z_{\rm rec}$	1088.43
z_*	1091.3

WMAP Cosmological Parameters

Model: oledm

Data: wmap9+spt+act+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.434 ± 0.088	H_0	$73.4^{+2.2}_{-2.5}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.8^{+2.3}_{-2.4}$
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5745^{+34}_{-33} μK^2
$d_A(z_{\rm eq})$	14229 ± 91 Mpc	$d_A(z_*)$	14059 ± 94 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.79 ± 0.30	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00987 ± 0.00027	$\ell_{\rm eq}$	138.8 ± 2.9
ℓ_*	$302.03^{+0.42}_{-0.43}$	n_b	$(2.506 \pm 0.041) \times 10^{-7}$ cm^{-3}
n_s	$0.9650^{+0.0099}_{-0.0098}$	Ω_b	0.0415 ± 0.0026
$\Omega_b h^2$	0.02231 ± 0.00037	Ω_c	$0.210^{+0.015}_{-0.014}$
$\Omega_c h^2$	0.1130 ± 0.0038	Ω_k	0.0049 ± 0.0047
Ω_k	$-0.0049 < \Omega_k < 0.0140$ (95% CL)	Ω_Λ	0.743 ± 0.015
Ω_m	0.252 ± 0.017	$\Omega_m h^2$	0.1353 ± 0.0037
$\Omega_{\rm tot}$	0.9951 ± 0.0047	$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.00$ (95% CL)
$r_s(z_d)$	152.9 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.363 ± 0.011
$r_s(z_d)/D_v(z=0.2)$	0.1978 ± 0.0056	$r_s(z_d)/D_v(z=0.35)$	0.1184 ± 0.0031
$r_s(z_d)/D_v(z=0.44)$	0.0970 ± 0.0024	$r_s(z_d)/D_v(z=0.54)$	0.0817 ± 0.0019
$r_s(z_d)/D_v(z=0.57)$	0.0782 ± 0.0018	$r_s(z_d)/D_v(z=0.6)$	0.0751 ± 0.0017
$r_s(z_d)/D_v(z=0.73)$	0.0645 ± 0.0014	$r_s(z_*)$	146.23 ± 0.96
R	1.724 ± 0.013	σ_8	0.815 ± 0.020
$\sigma_8 \Omega_m^{0.5}$	0.409 ± 0.018	$\sigma_8 \Omega_m^{0.6}$	0.356 ± 0.018
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.46 ± 0.24 Gyr
τ	0.085 ± 0.013	θ_*	0.010401 ± 0.000014
θ_*	$0.59596^{+0.00081}_{-0.00083}$ °	$\tau_{\rm rec}$	284.5 ± 2.0
$t_{\rm reion}$	467^{+64}_{-65} Myr	t_*	377125^{+3475}_{-3444} yr
z_d	$1019.88^{+0.80}_{-0.82}$	$z_{\rm eq}$	3238^{+87}_{-88}
$z_{\rm rec}$	$1088.44^{+0.68}_{-0.69}$	$z_{\rm reion}$	10.4 ± 1.1
z_*	$1091.32^{+0.68}_{-0.69}$		

WMAP Cosmological Parameters

Model: oleda

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	2.429 ± 0.086	H_0	68.0 ± 1.0 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5750^{+33}_{-34} μK^2
$d_A(z_{\rm eq})$	14234 ± 89 Mpc	$d_A(z_*)$	14073 ± 93 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.52 ± 0.14	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00984 ± 0.00026	$\ell_{\rm eq}$	138.5 ± 2.8
ℓ_*	302.05 ± 0.42	n_b	$(2.503^{+0.041}_{-0.042}) \times 10^{-7}$ cm^{-3}
n_s	0.9642 ± 0.0098	Ω_b	0.0482 ± 0.0015
$\Omega_b h^2$	0.02229 ± 0.00037	Ω_c	$0.2434^{+0.0096}_{-0.0095}$
$\Omega_c h^2$	$0.1125^{+0.0037}_{-0.0036}$	Ω_k	$-0.0049^{+0.0041}_{-0.0040}$
Ω_k	$-0.0127 < \Omega_k < 0.0030$ (95% CL)	Ω_Λ	0.713 ± 0.011
Ω_m	0.292 ± 0.010	$\Omega_m h^2$	$0.1348^{+0.0056}_{-0.0055}$
$\Omega_{\rm tot}$	$1.0049^{+0.0040}_{-0.0041}$	$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	153.0 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3381 ± 0.0046
$r_s(z_d)/D_v(z=0.2)$	$0.1847^{+0.0024}_{-0.0023}$	$r_s(z_d)/D_v(z=0.35)$	0.1112 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0913 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	$0.07719^{+0.00081}_{-0.00080}$
$r_s(z_d)/D_v(z=0.57)$	$0.07395^{+0.00077}_{-0.00076}$	$r_s(z_d)/D_v(z=0.6)$	$0.07104^{+0.00073}_{-0.00072}$
$r_s(z_d)/D_v(z=0.73)$	$0.06128^{+0.00059}_{-0.00058}$	$r_s(z_*)$	146.37 ± 0.94
R	1.723 ± 0.013	σ_8	0.806 ± 0.019
$\sigma_8\Omega_m^{0.5}$	0.435 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.385 ± 0.014
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.99 ± 0.17 Gyr
τ	0.084 ± 0.013	θ_*	$0.010401^{+0.000015}_{-0.000014}$
θ_*	0.59592 ± 0.00083 $^\circ$	$\tau_{\rm rec}$	284.7 ± 1.9
$t_{\rm reion}$	479^{+65}_{-67} Myr	t_*	377545^{+3311}_{-3386} yr
$z_{\rm d}$	$1019.79^{+0.82}_{-0.84}$	$z_{\rm eq}$	3227^{+86}_{-85}
$z_{\rm rec}$	$1088.42^{+0.69}_{-0.68}$	$z_{\rm reion}$	$10.2^{+1.1}_{-1.0}$
z_*	$1091.31^{+0.68}_{-0.67}$		

WMAP Cosmological Parameters

Model: oleda

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.432^{+0.088}_{-0.086}$	H_0	$68.92^{+0.94}_{-0.95}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5751^{+33}_{-34} μK^2
$d_A(z_{\rm eq})$	14213^{+88}_{-89} Mpc	$d_A(z_*)$	14050^{+91}_{-92} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.40 ± 0.13	η	$(6.11 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00989 ± 0.00026	$\ell_{\rm eq}$	$139.0^{+2.9}_{-2.8}$
ℓ_s	302.02 ± 0.42	n_b	$(2.509^{+0.041}_{-0.042}) \times 10^{-7}$ cm^{-3}
n_s	0.9646 ± 0.0098	Ω_b	0.0471 ± 0.0014
$\Omega_b h^2$	0.02234 ± 0.00037	Ω_c	$0.2384^{+0.0091}_{-0.0092}$
$\Omega_c h^2$	$0.1132^{+0.0037}_{-0.0036}$	Ω_k	$-0.0027^{+0.0039}_{-0.0038}$
Ω_k	$-0.0103 < \Omega_k < 0.0047$ (95% CL)	Ω_Λ	0.717 ± 0.011
Ω_m	$0.2855^{+0.0096}_{-0.0097}$	$\Omega_m h^2$	0.1355 ± 0.0036
$\Omega_{\rm tot}$	$1.0027^{+0.0038}_{-0.0039}$	$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.8 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3419 ± 0.0044
$r_s(z_d)/D_v(z=0.2)$	0.1867 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	$0.1123^{+0.0012}_{-0.0013}$
$r_s(z_d)/D_v(z=0.44)$	$0.09220^{+0.00096}_{-0.00098}$	$r_s(z_d)/D_v(z=0.54)$	$0.07789^{+0.00077}_{-0.00078}$
$r_s(z_d)/D_v(z=0.57)$	$0.07461^{+0.00072}_{-0.00074}$	$r_s(z_d)/D_v(z=0.6)$	$0.07166^{+0.00069}_{-0.00070}$
$r_s(z_d)/D_v(z=0.73)$	0.06179 ± 0.00056	$r_s(z_*)$	$146.15^{+0.94}_{-0.95}$
R	1.725 ± 0.013	σ_8	0.811 ± 0.019
$\sigma_8\Omega_m^{0.5}$	0.433 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.382 ± 0.014
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.88 ± 0.16 Gyr
τ	0.084 ± 0.013	θ_*	$0.010402^{+0.000014}_{-0.000015}$
θ_*	$0.59598^{+0.00082}_{-0.00083}$ °	$\tau_{\rm rec}$	$284.3^{+1.9}_{-2.0}$
$t_{\rm reion}$	477^{+65}_{-66} Myr	t_*	376928^{+3339}_{-3399} yr
z_d	1019.97 ± 0.81	$z_{\rm eq}$	3244^{+87}_{-85}
$z_{\rm rec}$	$1088.42^{+0.69}_{-0.70}$	$z_{\rm reion}$	$10.2^{+1.1}_{-1.0}$
z_*	$1091.30^{+0.68}_{-0.67}$		

WMAP Cosmological Parameters

Model: oledm

Data: wmap9+snls3

$10^9 \Delta^2_{\mathcal{R}}$	2.375 ± 0.097	H_0	$75.9^{+6.0}_{-5.9}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14223 ± 112 Mpc
$d_A(z_*)$	14050 ± 115 Mpc	$D_v(z=0.57)/r_s(z_d)$	$12.54^{+0.74}_{-0.75}$
η	$(6.23 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00987 ± 0.00030
$\ell_{\rm eq}$	138.6 ± 3.2	ℓ_*	302.25 ± 0.64
$n_{\hat{\delta}}$	$(2.557 \pm 0.055) \times 10^{-7}$ cm^{-3}	n_s	0.977 ± 0.012
Ω_b	0.0403 ± 0.0062	$\Omega_b h^2$	0.02277 ± 0.00049
Ω_c	0.199 ± 0.032	$\Omega_c h^2$	0.1124 ± 0.0042
Ω_k	0.0070 ± 0.0088	Ω_k	$-0.012 < \Omega_k < 0.023$ (95% CL)
Ω_Λ	0.754 ± 0.031	Ω_m	0.239 ± 0.038
$\Omega_m h^2$	0.1352 ± 0.0041	$\Omega_{\rm tot}$	0.9930 ± 0.0088
$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_s(z_d)$	152.5 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.374 ± 0.028	$r_s(z_d)/D_v(z=0.2)$	0.203 ± 0.015
$r_s(z_d)/D_v(z=0.35)$	0.1215 ± 0.0081	$r_s(z_d)/D_v(z=0.44)$	0.0994 ± 0.0063
$r_s(z_d)/D_v(z=0.54)$	$0.0836^{+0.0061}_{-0.0050}$	$r_s(z_d)/D_v(z=0.57)$	0.0800 ± 0.0048
$r_s(z_d)/D_v(z=0.6)$	0.0768 ± 0.0045	$r_s(z_d)/D_v(z=0.73)$	0.0659 ± 0.0036
$r_s(z_*)$	146.0 ± 1.1	R	1.723 ± 0.015
σ_8	$0.819^{+0.024}_{-0.025}$	$\sigma_8 \Omega_m^{0.5}$	0.399 ± 0.034
$\sigma_8 \Omega_m^{0.6}$	$0.346^{+0.034}_{-0.035}$	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.27 ± 0.54 Gyr	τ	0.090 ± 0.014
θ_*	0.010394 ± 0.000022	θ_*	0.5955 ± 0.0013 °
$\tau_{\rm rec}$	284.6 ± 2.2	$t_{\rm reion}$	449^{+63}_{-64} Myr
t_*	377607^{+3831}_{-3829} yr	z_d	1020.9 ± 1.1
$z_{\rm eq}$	3236 ± 98	$z_{\rm rec}$	$1087.93^{+0.78}_{-0.75}$
$z_{\rm reion}$	10.7 ± 1.1	z_*	$1090.67^{+0.80}_{-0.79}$

WMAP Cosmological Parameters

Model: oledm

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.382 ± 0.095	H_0	73.9 ± 2.2 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5749 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14221 ± 112 Mpc
$d_A(z_*)$	14050 ± 115 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.75 ± 0.29
η	$(6.22 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00987 ± 0.00030
$\ell_{\rm eq}$	138.7 ± 3.2	ℓ_*	302.28 ± 0.64
n_{δ}	$(2.554 \pm 0.054) \times 10^{-7}$ cm^{-3}	n_s	0.976 ± 0.012
$\Omega_{\rm b}$	0.0417 ± 0.0026	$\Omega_{\rm b}h^2$	0.02274 ± 0.00048
$\Omega_{\rm c}$	0.206 ± 0.014	$\Omega_{\rm c}h^2$	0.1125 ± 0.0042
Ω_k	0.0054 ± 0.0048	Ω_k	$-0.0044 < \Omega_k < 0.0146$ (95% CL)
Ω_Λ	0.747 ± 0.015	Ω_m	$0.248^{+0.016}_{-0.017}$
$\Omega_m h^2$	0.1353 ± 0.0041	$\Omega_{\rm tot}$	0.9946 ± 0.0048
$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.00$ (95% CL)	$r_s(z_d)$	152.5 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.365 ± 0.011	$r_s(z_d)/D_v(z=0.2)$	0.1986 ± 0.0055
$r_s(z_d)/D_v(z=0.35)$	0.1189 ± 0.0030	$r_s(z_d)/D_v(z=0.44)$	0.0973 ± 0.0024
$r_s(z_d)/D_v(z=0.54)$	0.0820 ± 0.0019	$r_s(z_d)/D_v(z=0.57)$	0.0785 ± 0.0018
$r_s(z_d)/D_v(z=0.6)$	0.0753 ± 0.0017	$r_s(z_d)/D_v(z=0.73)$	0.0647 ± 0.0013
$r_s(z_*)$	146.0 ± 1.1	R	1.723 ± 0.014
σ_8	0.819 ± 0.024	$\sigma_8\Omega_m^{0.5}$	0.408 ± 0.021
$\sigma_8\Omega_m^{0.6}$	0.355 ± 0.020	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.42 ± 0.24 Gyr	τ	0.090 ± 0.014
θ_*	0.010393 ± 0.000022	θ_*	0.5955 ± 0.0013 °
$\tau_{\rm rec}$	284.6 ± 2.2	$t_{\rm reion}$	450^{+63}_{-64} Myr
t_*	377511^{+3818}_{-3810} yr	z_d	1020.8 ± 1.1
$z_{\rm eq}$	3237 ± 98	$z_{\rm rec}$	$1087.97^{+0.75}_{-0.74}$
$z_{\rm reion}$	10.7 ± 1.1	z_*	$1090.73^{+0.78}_{-0.79}$

WMAP Cosmological Parameters

Model: oleda

Data: wmap9+snls3+bao

$10^9 \Delta^2_{\mathcal{R}}$	2.391 ± 0.096	H_0	$68.4^{+1.1}_{-1.0}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5752 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14220 ± 112 Mpc
$d_A(z_*)$	14058 ± 115 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.50 ± 0.14
η	$(6.20 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00986 ± 0.00030
$\ell_{\rm eq}$	138.6 ± 3.2	ℓ_*	302.31 ± 0.64
$n_{\hat{\delta}}$	$(2.548^{+0.066}_{-0.064}) \times 10^{-7}$ cm^{-3}	n_s	0.974 ± 0.012
Ω_b	0.0485 ± 0.0016	$\Omega_b h^2$	$0.02269^{+0.00049}_{-0.00048}$
Ω_c	0.240 ± 0.010	$\Omega_c h^2$	0.1124 ± 0.0041
Ω_k	-0.0042 ± 0.0044	Ω_k	$-0.0127 < \Omega_k < 0.0045$ (95% CL)
Ω_Λ	0.716 ± 0.012	Ω_m	0.289 ± 0.011
$\Omega_m h^2$	0.1351 ± 0.0041	$\Omega_{\rm tot}$	1.0042 ± 0.0044
$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_s(z_d)$	152.6 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3391^{+0.0047}_{-0.0046}$	$r_s(z_d)/D_v(z=0.2)$	0.1853 ± 0.0024
$r_s(z_d)/D_v(z=0.35)$	0.1114 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.0915 ± 0.0010
$r_s(z_d)/D_v(z=0.54)$	0.07735 ± 0.00082	$r_s(z_d)/D_v(z=0.57)$	0.07409 ± 0.00077
$r_s(z_d)/D_v(z=0.6)$	0.07117 ± 0.00073	$r_s(z_d)/D_v(z=0.73)$	$0.06138^{+0.00059}_{-0.00060}$
$r_s(z_*)$	146.1 ± 1.1	R	1.723 ± 0.014
σ_8	$0.813^{+0.025}_{-0.024}$	$\sigma_8 \Omega_m^{0.5}$	0.437 ± 0.018
$\sigma_8 \Omega_m^{0.6}$	0.386 ± 0.017	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.94 ± 0.19 Gyr	τ	0.090 ± 0.014
θ_*	0.010392 ± 0.000022	θ_*	0.5954 ± 0.0013 °
$\tau_{\rm rec}$	284.7 ± 2.2	$t_{\rm reion}$	453 ± 64 Myr
t_*	377625^{+3795}_{-3811} yr	z_d	1020.7 ± 1.1
$z_{\rm eq}$	3233^{+97}_{-98}	$z_{\rm rec}$	1088.01 ± 0.75
$z_{\rm reion}$	10.6 ± 1.1	z_*	1090.78 ± 0.79

WMAP Cosmological Parameters

Model: oledm

Data: wmap9+snls3+bao+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.389 ± 0.096	H_0	69.32 ± 0.98 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14188^{+110}_{-111} Mpc
$d_A(z_*)$	14025 ± 114 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.39 ± 0.13
η	$(6.23 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00993 ± 0.00030
$\ell_{\rm eq}$	139.2 ± 3.2	ℓ_*	$302.20^{+0.64}_{-0.63}$
n_b	$(2.560^{+0.054}_{-0.053}) \times 10^{-7}\ \mathrm{cm}^{-3}$	n_s	0.976 ± 0.012
Ω_b	0.0475 ± 0.0015	$\Omega_b h^2$	0.02280 ± 0.00048
Ω_c	$0.2357^{+0.0097}_{-0.0098}$	$\Omega_c h^2$	0.1132 ± 0.0042
Ω_k	-0.0022 ± 0.0042	Ω_k	$-0.0105 < \Omega_k < 0.0063$ (95% CL)
Ω_Λ	0.719 ± 0.012	Ω_m	0.283 ± 0.010
$\Omega_m h^2$	0.1360 ± 0.0041	$\Omega_{\rm tot}$	1.0022 ± 0.0042
$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_s(z_d)$	152.2 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3426 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	0.1871 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1124 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09233^{+0.00096}_{-0.00097}$
$r_s(z_d)/D_v(z=0.54)$	0.07799 ± 0.00077	$r_s(z_d)/D_v(z=0.57)$	0.07470 ± 0.00072
$r_s(z_d)/D_v(z=0.6)$	0.07174 ± 0.00069	$r_s(z_d)/D_v(z=0.73)$	0.06185 ± 0.00056
$r_s(z_*)$	145.8 ± 1.1	R	1.725 ± 0.014
σ_8	0.819 ± 0.023	$\sigma_8 \Omega_m^{0.5}$	0.436 ± 0.018
$\sigma_8 \Omega_m^{0.6}$	0.384 ± 0.017	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.25 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.83 ± 0.18 Gyr	τ	0.090 ± 0.014
θ_*	0.010396 ± 0.000022	θ_*	$0.5956^{+0.0012}_{-0.0013}\ ^\circ$
$\tau_{\rm rec}$	284.2 ± 2.2	$t_{\rm reion}$	450 ± 64 Myr
t_*	376867^{+3780}_{-3792} yr	z_d	1021.0 ± 1.1
$z_{\rm eq}$	3255 ± 98	$z_{\rm rec}$	$1087.96^{+0.74}_{-0.75}$
$z_{\rm reion}$	10.7 ± 1.1	z_*	1090.71 ± 0.78

WMAP Cosmological Parameters

Model: oledm

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.427 ± 0.087	H_0	74.7 ± 4.8 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5746 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14238 ± 88 Mpc	$d_A(z_*)$	14066^{+92}_{-93} Mpc
$D_v(z=0.57)/r_s(z_d)$	$12.65^{+0.61}_{-0.62}$	η	$(6.11 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00985 ± 0.00026	$\ell_{\rm eq}$	$138.5^{+2.8}_{-2.9}$
ℓ_*	302.03 ± 0.42	n_b	$(2.508 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	0.9659 ± 0.0098	Ω_b	0.0406 ± 0.0052
$\Omega_b h^2$	0.02233 ± 0.00037	Ω_c	0.204 ± 0.026
$\Omega_c h^2$	0.1126 ± 0.0037	Ω_k	$0.0059^{+0.0082}_{-0.0081}$
Ω_k	$-0.011 < \Omega_k < 0.021$ (95% CL)	Ω_Λ	0.749 ± 0.024
Ω_m	0.245 ± 0.031	$\Omega_m h^2$	0.1350 ± 0.0036
$\Omega_{\rm tot}$	$0.9941^{+0.0081}_{-0.0082}$	$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.9 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.369^{+0.023}_{-0.022}$
$r_s(z_d)/D_v(z=0.2)$	0.201 ± 0.012	$r_s(z_d)/D_v(z=0.35)$	0.1202 ± 0.0065
$r_s(z_d)/D_v(z=0.44)$	0.0984 ± 0.0051	$r_s(z_d)/D_v(z=0.54)$	0.0828 ± 0.0041
$r_s(z_d)/D_v(z=0.57)$	$0.0793^{+0.0039}_{-0.0038}$	$r_s(z_d)/D_v(z=0.6)$	$0.0761^{+0.0037}_{-0.0036}$
$r_s(z_d)/D_v(z=0.73)$	0.0653 ± 0.0029	$r_s(z_*)$	$146.31^{+0.94}_{-0.95}$
R	1.723 ± 0.013	σ_8	0.814 ± 0.021
$\sigma_8\Omega_m^{0.5}$	0.402 ± 0.025	$\sigma_8\Omega_m^{0.6}$	0.349 ± 0.026
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.37 ± 0.47 Gyr
τ	0.085 ± 0.013	θ_*	0.010402 ± 0.000014
θ_*	0.59598 ± 0.00083 °	$\tau_{\rm rec}$	284.6 ± 2.0
$t_{\rm reion}$	465 ± 64 Myr	t_*	377443^{+3406}_{-3396} yr
z_d	$1019.89^{+0.82}_{-0.81}$	$z_{\rm eq}$	3230 ± 86
$z_{\rm rec}$	1088.39 ± 0.69	$z_{\rm reion}$	10.4 ± 1.1
z_*	1091.27 ± 0.68		

WMAP Cosmological Parameters

Model: oleda

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.427 ± 0.086	H_0	73.8 ± 2.1 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5746 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14238 ± 88 Mpc	$d_A(z_*)$	14068 ± 91 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.73 ± 0.28	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00985 ± 0.00026	$\ell_{\rm eq}$	138.5 ± 2.8
ℓ_*	302.03 ± 0.42	n_b	$(2.507^{+0.042}_{-0.041}) \times 10^{-7}$ cm^{-3}
n_s	$0.9657^{+0.0097}_{-0.0098}$	Ω_b	$0.0410^{+0.0025}_{-0.0024}$
$\Omega_b h^2$	0.02233 ± 0.00037	Ω_c	0.207 ± 0.013
$\Omega_c h^2$	0.1126 ± 0.0036	Ω_k	0.0053 ± 0.0046
Ω_k	$-0.0041 < \Omega_k < 0.0142$ (95% CL)	Ω_Λ	0.747 ± 0.014
Ω_m	0.248 ± 0.015	$\Omega_m h^2$	0.1349 ± 0.0035
$\Omega_{\rm tot}$	0.9947 ± 0.0046	$\Omega_{\rm tot}$	$0.99 < \Omega_{\rm tot} < 1.00$ (95% CL)
$r_s(z_d)$	153.0 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.365 ± 0.010
$r_s(z_d)/D_v(z=0.2)$	0.1990 ± 0.0052	$r_s(z_d)/D_v(z=0.35)$	0.1191 ± 0.0029
$r_s(z_d)/D_v(z=0.44)$	0.0975 ± 0.0023	$r_s(z_d)/D_v(z=0.54)$	0.0821 ± 0.0018
$r_s(z_d)/D_v(z=0.57)$	0.0786 ± 0.0017	$r_s(z_d)/D_v(z=0.6)$	0.0754 ± 0.0016
$r_s(z_d)/D_v(z=0.73)$	0.0648 ± 0.0013	$r_s(z_*)$	146.33 ± 0.93
R	1.723 ± 0.013	σ_8	0.813 ± 0.019
$\sigma_8\Omega_m^{0.5}$	0.405 ± 0.017	$\sigma_8\Omega_m^{0.6}$	0.352 ± 0.017
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.44 ± 0.23 Gyr
τ	0.085 ± 0.013	θ_*	0.010402 ± 0.000015
θ_*	$0.59597 \pm 0.00083\ ^\circ$	$\tau_{\rm rec}$	284.7 ± 1.9
$t_{\rm reion}$	466 ± 64 Myr	t_*	377490^{+3348}_{-3353} yr
z_d	$1019.87^{+0.81}_{-0.80}$	$z_{\rm eq}$	3229 ± 85
$z_{\rm rec}$	1088.39 ± 0.68	$z_{\rm reion}$	10.4 ± 1.1
z_*	1091.27 ± 0.68		

WMAP Cosmological Parameters

Model: oleda

Data: wmap9+spt+act+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.415 ± 0.087	H_0	$68.23^{+1.01}_{-1.00}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5752 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14250 ± 86 Mpc	$d_A(z_*)$	14090^{+89}_{-90} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.49 ± 0.14	η	$(6.11 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	$0.00978^{+0.00025}_{-0.00026}$	$\ell_{\rm eq}$	137.8 ± 2.8
ℓ_*	302.03 ± 0.42	n_b	$(2.508 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	0.9656 ± 0.0098	Ω_b	0.0480 ± 0.0015
$\Omega_b h^2$	0.02233 ± 0.00037	Ω_c	$0.2400^{+0.0094}_{-0.0093}$
$\Omega_c h^2$	$0.1117^{+0.0036}_{-0.0037}$	Ω_k	$-0.0051^{+0.0039}_{-0.0041}$
Ω_k	$-0.0130 < \Omega_k < 0.0028$ (95% CL)	Ω_Λ	0.717 ± 0.011
Ω_m	$0.2880^{+0.0100}_{-0.0099}$	$\Omega_m h^2$	$0.1340^{+0.0035}_{-0.0036}$
$\Omega_{\rm tot}$	$1.0051^{+0.0041}_{-0.0039}$	$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	$153.22^{+0.99}_{-1.00}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3395 ± 0.0045
$r_s(z_d)/D_v(z=0.2)$	$0.1854^{+0.0024}_{-0.0023}$	$r_s(z_d)/D_v(z=0.35)$	0.1115 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0916 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	$0.07740^{+0.00082}_{-0.00080}$
$r_s(z_d)/D_v(z=0.57)$	$0.07414^{+0.00077}_{-0.00076}$	$r_s(z_d)/D_v(z=0.6)$	$0.07121^{+0.00073}_{-0.00071}$
$r_s(z_d)/D_v(z=0.73)$	0.06141 ± 0.00059	$r_s(z_*)$	146.56 ± 0.93
R	1.720 ± 0.013	σ_8	$0.803^{+0.019}_{-0.018}$
$\sigma_8\Omega_m^{0.5}$	0.431 ± 0.014	$\sigma_8\Omega_m^{0.6}$	0.381 ± 0.014
$\alpha_{\rm SNLS}$	$1.43^{+0.10}_{-0.11}$	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	14.00 ± 0.17 Gyr
τ	0.084 ± 0.013	θ_*	0.010402 ± 0.000014
θ_*	$0.59597^{+0.00082}_{-0.00083}$ °	$\tau_{\rm rec}$	$285.1^{+2.0}_{-1.9}$
$t_{\rm reion}$	478^{+65}_{-67} Myr	t_*	378298^{+3409}_{-3277} yr
z_d	$1019.80^{+0.81}_{-0.80}$	$z_{\rm eq}$	3208^{+83}_{-85}
$z_{\rm rec}$	1088.33 ± 0.69	$z_{\rm reion}$	10.2 ± 1.1
z_*	1091.19 ± 0.68		

WMAP Cosmological Parameters

Model: oledm

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.419^{+0.086}_{-0.085}$	H_0	$69.09^{+0.96}_{-0.95}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.9^{+2.3}_{-2.2}$
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5753 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14229 ± 86 Mpc	$d_A(z_*)$	14067 ± 90 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.38 ± 0.13	η	$(6.12 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00984 ± 0.00026	$\ell_{\rm eq}$	138.4 ± 2.8
ℓ_*	$301.99^{+0.42}_{-0.41}$	n_b	$(2.513^{+0.042}_{-0.041}) \times 10^{-7}$ cm^{-3}
n_s	0.9659 ± 0.0098	Ω_b	0.0469 ± 0.0014
$\Omega_b h^2$	0.02238 ± 0.00037	Ω_c	0.2355 ± 0.0089
$\Omega_c h^2$	0.1124 ± 0.0036	Ω_k	$-0.0031^{+0.0038}_{-0.0039}$
Ω_k	$-0.0106 < \Omega_k < 0.0048$ (95% CL)	Ω_Λ	0.721 ± 0.011
Ω_m	0.2824 ± 0.0094	$\Omega_m h^2$	0.1348 ± 0.0035
$\Omega_{\rm tot}$	$1.0031^{+0.0039}_{-0.0038}$	$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.96 ± 0.98 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3431 ± 0.0044
$r_s(z_d)/D_v(z=0.2)$	$0.1873^{+0.0022}_{-0.0023}$	$r_s(z_d)/D_v(z=0.35)$	0.1126 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09242^{+0.00096}_{-0.00095}$	$r_s(z_d)/D_v(z=0.54)$	$0.07807^{+0.00077}_{-0.00076}$
$r_s(z_d)/D_v(z=0.57)$	0.07477 ± 0.00072	$r_s(z_d)/D_v(z=0.6)$	$0.07181^{+0.00069}_{-0.00068}$
$r_s(z_d)/D_v(z=0.73)$	0.06190 ± 0.00056	$r_s(z_*)$	$146.34^{+0.91}_{-0.92}$
R	1.722 ± 0.013	σ_8	$0.808^{+0.019}_{-0.018}$
$\sigma_8\Omega_m^{0.5}$	0.429 ± 0.014	$\sigma_8\Omega_m^{0.6}$	0.378 ± 0.013
$\alpha_{\rm SNLS}$	$1.43^{+0.10}_{-0.11}$	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.89 ± 0.16 Gyr
τ	0.084 ± 0.013	θ_*	0.010403 ± 0.000014
θ_*	$0.59604^{+0.00081}_{-0.00083}\ ^\circ$	$\tau_{\rm rec}$	284.8 ± 1.9
$t_{\rm reion}$	477^{+65}_{-67} Myr	t_*	377655^{+3336}_{-3327} yr
z_d	$1019.97^{+0.82}_{-0.79}$	$z_{\rm eq}$	3226 ± 84
$z_{\rm rec}$	$1088.33^{+0.68}_{-0.69}$	$z_{\rm reion}$	10.2 ± 1.1
z_*	1091.19 ± 0.67		

WMAP Cosmological Parameters

Model: olcdm+mnu

Data: wmap9

$10^9\Delta^2_{\mathcal{R}}$	2.49 ± 0.12	H_0	60^{+13}_{-14} km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5754^{+37}_{-36} μK^2	$d_A(z_{\rm eq})$	14131 ± 126 Mpc
$d_A(z_*)$	13972^{+126}_{-125} Mpc	$D_v(z=0.57)/r_s(z_d)$	$14.9^{+2.3}_{-2.1}$
η	$(6.07^{+0.15}_{-0.16}) \times 10^{-10}$	$k_{\rm eq}$	0.01012 ± 0.00034
$\ell_{\rm eq}$	141.4 ± 3.6	ℓ_*	302.40 ± 0.66
$\sum m_\nu$	< 1.3 eV (95% CL)	$n_{\rm b}$	$(2.494^{+0.063}_{-0.064}) \times 10^{-7}$ cm^{-3}
n_s	0.960 ± 0.016	Ω_b	$0.033 < \Omega_b < 0.146$ (95% CL)
$\Omega_b h^2$	$0.02220^{+0.00056}_{-0.00057}$	Ω_c	$0.17 < \Omega_c < 0.79$ (95% CL)
$\Omega_c h^2$	$0.1163^{+0.0048}_{-0.0047}$	Ω_k	$-0.026^{+0.042}_{-0.043}$
Ω_k	$-0.170 < \Omega_k < 0.031$ (95% CL)	Ω_Λ	$0.55^{+0.16}_{-0.18}$
Ω_m	$0.21 < \Omega_m < 0.98$ (95% CL)	$\Omega_m h^2$	$0.1450^{+0.0069}_{-0.0068}$
$\Omega_\nu h^2$	< 0.014 (95% CL)	$\Omega_{\rm tot}$	$1.026^{+0.043}_{-0.042}$
$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.17$ (95% CL)	$r_s(z_d)$	151.7 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.299^{+0.060}_{-0.063}$	$r_s(z_d)/D_v(z=0.2)$	$0.165^{+0.031}_{-0.032}$
$r_s(z_d)/D_v(z=0.35)$	$0.101^{+0.017}_{-0.018}$	$r_s(z_d)/D_v(z=0.44)$	$0.084^{+0.013}_{-0.014}$
$r_s(z_d)/D_v(z=0.54)$	$0.071^{+0.010}_{-0.011}$	$r_s(z_d)/D_v(z=0.57)$	$0.0683^{+0.0098}_{-0.0102}$
$r_s(z_d)/D_v(z=0.6)$	$0.0658^{+0.0092}_{-0.0096}$	$r_s(z_d)/D_v(z=0.73)$	$0.0572^{+0.0074}_{-0.0077}$
$r_s(z_*)$	145.2 ± 1.2	R	1.774 ± 0.031
σ_8	$0.690^{+0.078}_{-0.075}$	$\sigma_8\Omega_m^{0.5}$	$0.458^{+0.100}_{-0.097}$
$\sigma_8\Omega_m^{0.6}$	0.42 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$14.7^{+1.5}_{-1.4}$ Gyr	τ	0.085 ± 0.013
θ_*	0.010389 ± 0.000023	θ_*	0.5952 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	282.2 ± 2.6	$t_{\rm reion}$	445^{+65}_{-66} Myr
t_*	373023^{+4602}_{-4606} yr	z_d	1019.9 ± 1.2
$z_{\rm eq}$	3315 ± 110	$z_{\rm rec}$	1088.91 ± 0.95
$z_{\rm reion}$	10.5 ± 1.1	z_*	1091.8 ± 1.0

WMAP Cosmological Parameters

Model: oleda+mnu

Data: wmap9+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.44 ± 0.11	H_0	$73.3^{+2.3}_{-2.4}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 37\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14173^{+116}_{-120} Mpc
$d_A(z_*)$	13993^{+120}_{-124} Mpc	$D_v(z=0.57)/r_s(z_d)$	$12.74^{+0.32}_{-0.31}$
η	$(6.14 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	$0.01001^{+0.00032}_{-0.00031}$
$\ell_{\rm eq}$	$140.1^{+3.3}_{-3.2}$	ℓ_*	$302.25^{+0.65}_{-0.63}$
$\sum m_\nu$	< 1.2 eV (95% CL)	$n_{\rm b}$	$(2.521^{+0.059}_{-0.058}) \times 10^{-7}$ cm^{-3}
n_s	0.967 ± 0.014	$\Omega_{\rm b}h^2$	0.02245 ± 0.00052
$\Omega_{\rm c}h^2$	$0.1146^{+0.0045}_{-0.0043}$	Ω_k	$0.0158^{+0.0052}_{-0.0086}$
Ω_k	$0.00023 < \Omega_k < 0.05099$ (95% CL)	Ω_Λ	$0.717^{+0.024}_{-0.025}$
Ω_m	0.267 ± 0.021	$\Omega_m h^2$	$0.1431^{+0.0065}_{-0.0063}$
$\Omega_\nu h^2$	< 0.013 (95% CL)	$\Omega_{\rm tot}$	$0.9842^{+0.0086}_{-0.0052}$
$\Omega_{\rm tot}$	$0.95 < \Omega_{\rm tot} < 1.00$ (95% CL)	$r_s(z_d)$	152.0 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.362^{+0.011}_{-0.012}$	$r_s(z_d)/D_v(z=0.2)$	$0.1974^{+0.0069}_{-0.0060}$
$r_s(z_d)/D_v(z=0.35)$	$0.1185^{+0.0032}_{-0.0033}$	$r_s(z_d)/D_v(z=0.44)$	$0.0972^{+0.0025}_{-0.0026}$
$r_s(z_d)/D_v(z=0.54)$	$0.0821^{+0.0020}_{-0.0021}$	$r_s(z_d)/D_v(z=0.57)$	0.0786 ± 0.0019
$r_s(z_d)/D_v(z=0.6)$	0.0754 ± 0.0018	$r_s(z_d)/D_v(z=0.73)$	0.0650 ± 0.0015
$r_s(z_*)$	145.4 ± 1.2	R	1.765 ± 0.029
σ_8	$0.712^{+0.076}_{-0.075}$	$\sigma_8 \Omega_m^{0.5}$	0.367 ± 0.036
$\sigma_8 \Omega_m^{0.6}$	0.322 ± 0.032	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.22 ± 0.27 Gyr	τ	0.087 ± 0.013
θ_*	0.010394 ± 0.000022	θ_*	$0.5955^{+0.0012}_{-0.0013}$ °
$\tau_{\rm rec}$	$283.1^{+2.4}_{-2.5}$	$t_{\rm reion}$	434^{+60}_{-62} Myr
t_*	374630^{+4181}_{-4298} yr	z_d	$1020.3^{+1.2}_{-1.1}$
$z_{\rm eq}$	3280^{+104}_{-101}	$z_{\rm rec}$	$1088.52^{+0.86}_{-0.85}$
$z_{\rm reion}$	10.7 ± 1.1	z_*	1091.29 ± 0.89

WMAP Cosmological Parameters

Model: oleda+mnu

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.45 ± 0.11	$\ell(\ell+1)C_{220}/(2\pi)$	5753^{+37}_{-35} μK^2
$d_A(z_{\rm eq})$	14170^{+117}_{-114} Mpc	$d_A(z_*)$	14000^{+122}_{-119} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.51 ± 0.14	η	$(6.12 \pm 0.14) \times 10^{-10}$
$k_{\rm eq}$	$0.01002^{+0.00031}_{-0.00032}$	$\ell_{\rm eq}$	$140.3^{+3.2}_{-3.3}$
ℓ_*	$302.32^{+0.65}_{-0.64}$	$\sum m_\nu$	< 1.2 eV (95% CL)
n_δ	$(2.513 \pm 0.039) \times 10^{-7}$ cm^{-3}	n_s	0.965 ± 0.014
$\Omega_b h^2$	$0.02237^{+0.00053}_{-0.00052}$	$\Omega_c h^2$	$0.1148^{+0.0043}_{-0.0044}$
Ω_k	$0.0062^{+0.0044}_{-0.0084}$	Ω_k	$-0.0083 < \Omega_k < 0.0510$ (95% CL)
Ω_Λ	0.682 ± 0.025	$\Omega_m h^2$	$0.1427^{+0.0062}_{-0.0063}$
$\Omega_\nu h^2$	< 0.013 (95% CL)	$\Omega_{\rm tot}$	$0.9938^{+0.0084}_{-0.0448}$
$\Omega_{\rm tot}$	$0.95 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_s(z_d)$	152.0 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3351^{+0.0051}_{-0.0050}$	$r_s(z_d)/D_v(z=0.2)$	$0.1835^{+0.0026}_{-0.0025}$
$r_s(z_d)/D_v(z=0.35)$	0.1108 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.0912 ± 0.0010
$r_s(z_d)/D_v(z=0.54)$	0.07726 ± 0.00083	$r_s(z_d)/D_v(z=0.57)$	0.07405 ± 0.00078
$r_s(z_d)/D_v(z=0.6)$	0.07117 ± 0.00074	$r_s(z_d)/D_v(z=0.73)$	$0.06152^{+0.00061}_{-0.00063}$
$r_s(z_*)$	145.5 ± 1.2	R	1.764 ± 0.029
σ_8	$0.716^{+0.074}_{-0.073}$	$\sigma_8\Omega_m^{0.5}$	$0.399^{+0.034}_{-0.035}$
$\sigma_8\Omega_m^{0.6}$	$0.355^{+0.029}_{-0.030}$	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.76^{+0.21}_{-0.22}$ Gyr	τ	0.087 ± 0.013
θ_*	0.010392 ± 0.000022	θ_*	0.5954 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	283.0 ± 2.4	$t_{\rm reion}$	440^{+62}_{-64} Myr
t_*	374574^{+4199}_{-4174} yr	z_d	1020.2 ± 1.2
$z_{\rm eq}$	3283^{+101}_{-104}	$z_{\rm rec}$	1088.59 ± 0.85
$z_{\rm reion}$	10.7 ± 1.1	z_*	1091.41 ± 0.87

WMAP Cosmological Parameters

Model: oledm+mnu

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.44^{+0.10}_{-0.11}$	H_0	68.8 ± 1.0 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5755^{+38}_{-36} μK^2	$d_A(z_{\rm eq})$	14144 ± 110 Mpc
$d_A(z_*)$	13973^{+115}_{-114} Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.38^{+0.13}_{-0.14}$
η	$(6.17 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	0.01007 ± 0.00031
$\ell_{\rm eq}$	140.7 ± 3.3	ℓ_*	$302.21^{+0.65}_{-0.64}$
$\sum m_\nu$	< 1.1 eV (95% CL)	$n_{\rm b}$	$(2.534^{+0.059}_{-0.057}) \times 10^{-7}$ cm^{-3}
n_s	0.969 ± 0.013	$\Omega_{\rm b}h^2$	$0.02256^{+0.00052}_{-0.00051}$
$\Omega_{\rm c}h^2$	0.1153 ± 0.0043	Ω_k	$0.0063^{+0.0447}_{-0.0077}$
Ω_k	$-0.0064 < \Omega_k < 0.0510$ (95% CL)	Ω_Λ	$0.692^{+0.021}_{-0.022}$
$\Omega_m h^2$	$0.1424^{+0.0059}_{-0.0060}$	$\Omega_\nu h^2$	< 0.011 (95% CL)
$\Omega_{\rm tot}$	$0.9937^{+0.0077}_{-0.0447}$	$\Omega_{\rm tot}$	$0.95 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	151.7 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.35)$	0.1121 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09216^{+0.00099}_{-0.00095}$	$r_s(z_d)/D_v(z=0.54)$	$0.07798^{+0.00080}_{-0.00078}$
$r_s(z_d)/D_v(z=0.57)$	$0.07472^{+0.00077}_{-0.00072}$	$r_s(z_d)/D_v(z=0.6)$	$0.07180^{+0.00073}_{-0.00069}$
$r_s(z_d)/D_v(z=0.73)$	$0.06201^{+0.00062}_{-0.00058}$	$r_s(z_*)$	145.3 ± 1.1
R	$1.758^{+0.027}_{-0.026}$	σ_8	$0.740^{+0.066}_{-0.069}$
$\sigma_8\Omega_m^{0.5}$	0.406 ± 0.032	$\sigma_8\Omega_m^{0.6}$	0.360 ± 0.028
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$13.67^{+0.20}_{-0.21}$ Gyr
τ	$0.088^{+0.013}_{-0.014}$	θ_*	0.010395 ± 0.000022
θ_*	$0.5956^{+0.0013}_{-0.0012}$ °	$\tau_{\rm rec}$	282.8 ± 2.4
$t_{\rm reion}$	440^{+81}_{-83} Myr	t_*	374313^{+4218}_{-4080} yr
$z_{\rm d}$	1020.7 ± 1.1	$z_{\rm eq}$	3300^{+101}_{-102}
$z_{\rm rec}$	$1088.40^{+0.84}_{-0.83}$	$z_{\rm reion}$	10.7 ± 1.1
z_*	$1091.21^{+0.85}_{-0.87}$		

WMAP Cosmological Parameters

Model: oleden+mnu

Data: wmap9+spt+act

$10^9\Delta^2_{\mathcal{R}}$	2.60 ± 0.12	H_0	$56.2^{+8.2}_{-8.3}$ km/s/Mpc
$A_{\rm clustered}$	< 13 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	13.9 ± 2.5
$A^{\rm SPT}_{\rm Poisson}$	> 15 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5764 \pm 35\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14078^{+113}_{-112} Mpc	$d_A(z_*)$	13920^{+116}_{-114} Mpc
$D_v(z=0.57)/r_s(z_d)$	15.3 ± 1.4	η	$(5.93 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	$0.01023^{+0.00030}_{-0.00031}$	$\ell_{\rm eq}$	142.3 ± 3.2
ℓ_*	$302.03^{+0.44}_{-0.43}$	$\sum m_\nu$	< 1.6 eV (95% CL)
n_b	$(2.437 \pm 0.047) \times 10^{-7}$ cm^{-3}	n_s	0.945 ± 0.013
Ω_b	0.073 ± 0.021	$\Omega_b h^2$	0.02170 ± 0.00042
Ω_c	0.40 ± 0.12	$\Omega_c h^2$	0.1180 ± 0.0043
Ω_k	-0.018 ± 0.026	Ω_k	$-0.033 < \Omega_k < 0.022$ (95% CL)
Ω_Λ	0.51 ± 0.14	Ω_m	0.51 ± 0.16
$\Omega_m h^2$	$0.1503^{+0.0067}_{-0.0069}$	$\Omega_\nu h^2$	$0.0031 < \Omega_\nu h^2 < 0.0168$ (95% CL)
$\Omega_{\rm tot}$	1.018 ± 0.026	$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.09$ (95% CL)
$r_s(z_d)$	151.5 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.282 ± 0.038
$r_s(z_d)/D_v(z=0.2)$	0.157 ± 0.019	$r_s(z_d)/D_v(z=0.35)$	0.096 ± 0.010
$r_s(z_d)/D_v(z=0.44)$	$0.0802^{+0.0080}_{-0.0081}$	$r_s(z_d)/D_v(z=0.54)$	$0.0686^{+0.0063}_{-0.0064}$
$r_s(z_d)/D_v(z=0.57)$	$0.0660^{+0.0059}_{-0.0060}$	$r_s(z_d)/D_v(z=0.6)$	0.0636 ± 0.0056
$r_s(z_d)/D_v(z=0.73)$	$0.0556^{+0.0044}_{-0.0045}$	$r_s(z_*)$	$144.8^{+1.2}_{-1.1}$
R	$1.799^{+0.027}_{-0.029}$	σ_8	$0.633^{+0.064}_{-0.061}$
$\sigma_8\Omega_m^{0.5}$	$0.441^{+0.044}_{-0.045}$	$\sigma_8\Omega_m^{0.6}$	$0.412^{+0.053}_{-0.052}$
$A_{\rm SZ}$	< 1.3 (95% CL)	t_0	$14.78^{+0.88}_{-0.87}$ Gyr
τ	0.081 ± 0.012	θ_*	0.010402 ± 0.000015
θ_*	$0.59597^{+0.00085}_{-0.00086}$ °	$\tau_{\rm rec}$	280.8 ± 2.5
$t_{\rm reion}$	442^{+64}_{-66} Myr	t_*	370326^{+4500}_{-4398} yr
z_d	$1018.91^{+0.89}_{-0.90}$	$z_{\rm eq}$	3345^{+98}_{-99}
$z_{\rm rec}$	$1089.70^{+0.87}_{-0.86}$	$z_{\rm reion}$	10.4 ± 1.1
z_*	1092.62 ± 0.83		

WMAP Cosmological Parameters

Model: oleclm+mnu

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	2.51 ± 0.11	H_0	$72.7^{+2.2}_{-2.3}$ km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.4 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5744^{+35}_{-36} μK^2
$d_A(z_{\rm eq})$	14155^{+109}_{-108} Mpc	$d_A(z_*)$	13976 ± 114 Mpc
$D_v(z=0.57)/r_s(z_d)$	$12.80^{+0.29}_{-0.28}$	η	$(6.04^{+0.12}_{-0.11}) \times 10^{-10}$
$k_{\rm eq}$	$0.01010^{+0.00032}_{-0.00031}$	$\ell_{\rm eq}$	$141.1^{+3.4}_{-3.3}$
ℓ_*	302.04 ± 0.42	$\sum m_\nu$	< 1.1 eV (95% CL)
n_{δ}	$(2.479^{+0.049}_{-0.048}) \times 10^{-7}$ cm^{-3}	n_s	$0.958^{+0.012}_{-0.011}$
$\Omega_b h^2$	$0.02207^{+0.00044}_{-0.00041}$	Ω_c	$0.220^{+0.017}_{-0.016}$
$\Omega_c h^2$	$0.1162^{+0.0045}_{-0.0044}$	Ω_k	$0.0151^{+0.0090}_{-0.0085}$
Ω_k	$-0.00039 < \Omega_k < 0.03238$ (95% CL)	Ω_Λ	0.713 ± 0.027
Ω_m	$0.272^{+0.023}_{-0.022}$	$\Omega_m h^2$	$0.1436^{+0.0072}_{-0.0070}$
$\Omega_\rho h^2$	< 0.012 (95% CL)	$\Omega_{\rm tot}$	$0.9849^{+0.0085}_{-0.0090}$
$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.00$ (95% CL)	$r_s(z_d)$	152.0 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.359 ± 0.011	$r_s(z_d)/D_v(z=0.2)$	$0.1960^{+0.0056}_{-0.0057}$
$r_s(z_d)/D_v(z=0.35)$	$0.1178^{+0.0030}_{-0.0032}$	$r_s(z_d)/D_v(z=0.44)$	$0.0966^{+0.0023}_{-0.0024}$
$r_s(z_d)/D_v(z=0.54)$	$0.0816^{+0.0018}_{-0.0019}$	$r_s(z_d)/D_v(z=0.57)$	$0.0781^{+0.0017}_{-0.0018}$
$r_s(z_d)/D_v(z=0.6)$	$0.0750^{+0.0016}_{-0.0017}$	$r_s(z_d)/D_v(z=0.73)$	0.0646 ± 0.0013
$r_s(z_*)$	$145.4^{+1.2}_{-1.1}$	R	$1.765^{+0.032}_{-0.031}$
σ_8	$0.728^{+0.054}_{-0.065}$	$\sigma_8\Omega_m^{0.5}$	$0.379^{+0.026}_{-0.028}$
$\sigma_8\Omega_m^{0.5}$	$0.333^{+0.023}_{-0.024}$	$A_{\rm SZ}$	< 1.2 (95% CL)
t_0	$13.26^{+0.26}_{-0.27}$ Gyr	τ	0.084 ± 0.013
θ_*	$0.010401^{+0.000014}_{-0.000015}$	θ_*	$0.59594^{+0.00083}_{-0.00084}$ °
$\tau_{\rm rec}$	282.4 ± 2.5	$t_{\rm reion}$	440^{+62}_{-64} Myr
t_*	373433^{+4466}_{-4526} yr	z_d	$1019.62^{+0.85}_{-0.86}$
$z_{\rm eq}$	3309 ± 102	$z_{\rm rec}$	$1089.02^{+0.82}_{-0.79}$
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1091.93^{+0.84}_{-0.81}$

WMAP Cosmological Parameters

Model: oleden+mnu

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	2.52 ± 0.11	$A_{\rm clustered}$	< 12 (95% CL)
$A^{\rm ACT}_{\rm Poisson}$	14.2 ± 2.4	$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	$5749 \pm 34\ \mu{\rm K}^2$	$d_A(z_{\rm eq})$	14146^{+107}_{-108} Mpc
$d_A(z_*)$	13974^{+111}_{-114} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.51 ± 0.14
η	$(6.01 \pm 0.11) \times 10^{-10}$	$k_{\rm eq}$	0.01011 ± 0.00032
$\ell_{\rm eq}$	$141.2^{+3.3}_{-3.4}$	ℓ_*	$302.07^{+0.44}_{-0.42}$
$\sum m_\nu$	< 1.2 eV (95% CL)	n_b	$(2.468 \pm 0.046) \times 10^{-7}$ cm^{-3}
n_s	$0.955^{+0.011}_{-0.012}$	$\Omega_b h^2$	0.02197 ± 0.00041
Ω_c	$0.257^{+0.012}_{-0.013}$	$\Omega_c h^2$	$0.1163^{+0.0044}_{-0.0045}$
Ω_k	$0.0084^{+0.0090}_{-0.0092}$	Ω_k	$-0.0067 < \Omega_k < 0.0254$ (95% CL)
Ω_Λ	$0.672^{+0.028}_{-0.027}$	Ω_m	$0.319^{+0.019}_{-0.020}$
$\Omega_m h^2$	$0.1447^{+0.0070}_{-0.0072}$	$\Omega_\nu h^2$	< 0.013 (95% CL)
$\Omega_{\rm tot}$	$0.9916^{+0.0092}_{-0.0090}$	$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.0 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3340^{+0.0050}_{-0.0052}$
$r_s(z_d)/D_v(z=0.2)$	$0.1831^{+0.0026}_{-0.0026}$	$r_s(z_d)/D_v(z=0.35)$	$0.1107^{+0.0013}_{-0.0014}$
$r_s(z_d)/D_v(z=0.44)$	$0.0911^{+0.0010}_{-0.0011}$	$r_s(z_d)/D_v(z=0.54)$	$0.07723^{+0.00083}_{-0.00084}$
$r_s(z_d)/D_v(z=0.57)$	$0.07403^{+0.00077}_{-0.00079}$	$r_s(z_d)/D_v(z=0.6)$	$0.07117^{+0.00074}_{-0.00075}$
$r_s(z_d)/D_v(z=0.73)$	$0.06155^{+0.00061}_{-0.00062}$	$r_s(z_*)$	145.3 ± 1.2
R	$1.773^{+0.030}_{-0.032}$	σ_8	$0.704^{+0.062}_{-0.059}$
$\sigma_8\Omega_m^{0.5}$	0.397 ± 0.027	$\sigma_8\Omega_m^{0.6}$	0.354 ± 0.023
$A_{\rm SZ}$	< 1.2 (95% CL)	t_0	13.72 ± 0.23 Gyr
τ	$0.084^{+0.012}_{-0.013}$	θ_*	0.010400 ± 0.000015
θ_*	$0.59589^{+0.00084}_{-0.00087}$ ◦	$r_{\rm rec}$	282.3 ± 2.5
$t_{\rm reion}$	439^{+63}_{-64} Myr	t_*	373047^{+4483}_{-4512} yr
z_d	$1019.40^{+0.85}_{-0.86}$	$z_{\rm eq}$	3310 ± 102
$z_{\rm rec}$	1089.15 ± 0.81	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1092.09^{+0.80}_{-0.83}$		

WMAP Cosmological Parameters

Model: oledm+mnu

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.51 ± 0.10	H_0	68.5 ± 1.0 km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.4 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14135^{+105}_{-106} Mpc	$d_A(z_*)$	13962^{+112}_{-113} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.38 ± 0.13	η	$(6.04 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	$0.01013^{+0.00032}_{-0.00031}$	$\ell_{\rm eq}$	$141.5^{+3.3}_{-3.4}$
ℓ_*	302.03 ± 0.44	$\sum m_\nu$	< 1.1 eV (95% CL)
n_b	$(2.480^{+0.042}_{-0.043}) \times 10^{-7}$ cm^{-3}	n_s	0.957 ± 0.011
$\Omega_b h^2$	0.02208 ± 0.00038	$\Omega_c h^2$	0.1166 ± 0.0044
Ω_k	$0.0089^{+0.0088}_{-0.0087}$	Ω_k	$-0.0050 < \Omega_k < 0.0265$ (95% CL)
Ω_Λ	$0.683^{+0.024}_{-0.026}$	$\Omega_m h^2$	$0.1443^{+0.0070}_{-0.0068}$
$\Omega_\nu h^2$	< 0.012 (95% CL)	$\Omega_{\rm tot}$	$0.9911^{+0.0087}_{-0.0088}$
$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_s(z_d)$	151.9 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.2)$	0.1855 ± 0.0024	$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	$0.09215^{+0.00100}_{-0.00097}$	$r_s(z_d)/D_v(z=0.54)$	$0.07801^{+0.00079}_{-0.00078}$
$r_s(z_d)/D_v(z=0.57)$	$0.07477^{+0.00075}_{-0.00073}$	$r_s(z_d)/D_v(z=0.6)$	0.07185 ± 0.00070
$r_s(z_d)/D_v(z=0.73)$	$0.06209^{+0.00059}_{-0.00058}$	$r_s(z_*)$	$145.2^{+1.2}_{-1.1}$
R	1.768 ± 0.030	σ_8	$0.722^{+0.058}_{-0.059}$
$\sigma_8\Omega_m^{0.5}$	0.400 ± 0.026	$\sigma_8\Omega_m^{0.6}$	0.355 ± 0.023
$A_{\rm SZ}$	< 1.2 (95% CL)	t_0	$13.63^{+0.23}_{-0.22}$ Gyr
τ	$0.084^{+0.012}_{-0.013}$	θ_*	0.010401 ± 0.000015
θ_*	$0.59596^{+0.00087}_{-0.00088}$ °	$\tau_{\rm rec}$	282.2 ± 2.5
$t_{\rm reion}$	445^{+61}_{-66} Myr	t_*	372985^{+4390}_{-4458} yr
z_d	$1019.67^{+0.78}_{-0.81}$	$z_{\rm eq}$	3320^{+102}_{-101}
$z_{\rm rec}$	1089.04 ± 0.80	$z_{\rm reion}$	10.5 ± 1.1
z_*	$1091.96^{+0.78}_{-0.74}$		

WMAP Cosmological Parameters

Model: oleclm+mnu

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.474 ± 0.098	H_0	73.6 ± 4.7 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.6 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5745 ± 34 μK^2
$d_A(z_{\rm eq})$	14198^{+98}_{-97} Mpc	$d_A(z_*)$	14020^{+104}_{-102} Mpc
$D_v(z=0.57)/r_s(z_d)$	12.73 ± 0.60	η	$(6.06 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	0.00997 ± 0.00029	$\ell_{\rm eq}$	139.8 ± 3.1
ℓ_*	$302.04^{+0.42}_{-0.41}$	$\sum m_\nu$	< 0.93 eV (95% CL)
n_b	$(2.489 \pm 0.045) \times 10^{-7}$ cm^{-3}	n_s	0.962 ± 0.011
Ω_b	0.0415 ± 0.0053	$\Omega_b h^2$	0.02217 ± 0.00040
Ω_c	0.214 ± 0.028	$\Omega_c h^2$	0.1144 ± 0.0041
Ω_k	$0.0122^{+0.0094}_{-0.0095}$	Ω_k	$-0.0073 < \Omega_k < 0.0308$ (95% CL)
Ω_Λ	0.725 ± 0.032	Ω_m	0.263 ± 0.035
$\Omega_m h^2$	$0.1406^{+0.0058}_{-0.0058}$	$\Omega_\nu h^2$	< 0.0099 (95% CL)
$\Omega_{\rm tot}$	$0.9878^{+0.0095}_{-0.0094}$	$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.5 ± 1.1 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.364 ± 0.022
$r_s(z_d)/D_v(z=0.2)$	0.198 ± 0.011	$r_s(z_d)/D_v(z=0.35)$	0.1189 ± 0.0063
$r_s(z_d)/D_v(z=0.44)$	0.0975 ± 0.0049	$r_s(z_d)/D_v(z=0.54)$	$0.0823^{+0.0039}_{-0.0040}$
$r_s(z_d)/D_v(z=0.57)$	0.0788 ± 0.0037	$r_s(z_d)/D_v(z=0.6)$	0.0756 ± 0.0035
$r_s(z_d)/D_v(z=0.73)$	0.0651 ± 0.0028	$r_s(z_*)$	145.8 ± 1.1
R	$1.753^{+0.026}_{-0.025}$	σ_8	$0.743^{+0.055}_{-0.057}$
$\sigma_8\Omega_m^{0.5}$	$0.380^{+0.029}_{-0.030}$	$\sigma_8\Omega_m^{0.6}$	$0.332^{+0.028}_{-0.029}$
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.29 ± 0.46 Gyr
τ	0.086 ± 0.013	θ_*	0.010401 ± 0.000014
θ_*	0.59596 ± 0.00082 °	$\tau_{\rm rec}$	$283.5^{+2.3}_{-2.2}$
$t_{\rm reion}$	441^{+63}_{-64} Myr	t_*	375311^{+3267}_{-3266} yr
z_d	$1019.67^{+0.85}_{-0.86}$	$z_{\rm eq}$	3268^{+94}_{-95}
$z_{\rm rec}$	$1088.75^{+0.76}_{-0.77}$	$z_{\rm reion}$	10.7 ± 1.1
z_*	$1091.65^{+0.76}_{-0.77}$		

WMAP Cosmological Parameters

Model: oledm+mnu

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.476 ± 0.099	H_0	73.6 ± 2.1 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.6 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5745 ± 34 μK^2
$d_A(z_{\rm eq})$	14195^{+98}_{-97} Mpc	$d_A(z_*)$	14017^{+103}_{-102} Mpc
$D_v(z=0.57)/r_s(z_d)$	$12.70^{+0.27}_{-0.28}$	η	$(6.06 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	0.00998 ± 0.00029	$\ell_{\rm eq}$	139.9 ± 3.1
ℓ_*	302.04 ± 0.41	$\sum m_\nu$	< 0.94 eV (95% CL)
n_b	$(2.489 \pm 0.045) \times 10^{-7}$ cm^{-3}	n_s	0.961 ± 0.011
Ω_b	0.0410 ± 0.0025	$\Omega_b h^2$	0.02216 ± 0.00040
Ω_c	0.212 ± 0.014	$\Omega_c h^2$	0.1145 ± 0.0041
Ω_k	$0.0131^{+0.0077}_{-0.0074}$	Ω_k	$-0.00021 < \Omega_k < 0.02951$ (95% CL)
Ω_Λ	0.727 ± 0.021	Ω_m	0.260 ± 0.018
$\Omega_m h^2$	$0.1408^{+0.0058}_{-0.0057}$	$\Omega_\nu h^2$	< 0.0100 (95% CL)
$\Omega_{\rm tot}$	$0.9869^{+0.0074}_{-0.0077}$	$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.00$ (95% CL)
$r_s(z_d)$	152.5 ± 1.1 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.364 ± 0.010
$r_s(z_d)/D_v(z=0.2)$	0.1984 ± 0.0052	$r_s(z_d)/D_v(z=0.35)$	0.1190 ± 0.0029
$r_s(z_d)/D_v(z=0.44)$	0.0976 ± 0.0023	$r_s(z_d)/D_v(z=0.54)$	0.0823 ± 0.0018
$r_s(z_d)/D_v(z=0.57)$	0.0788 ± 0.0017	$r_s(z_d)/D_v(z=0.6)$	0.0756 ± 0.0016
$r_s(z_d)/D_v(z=0.73)$	0.0651 ± 0.0013	$r_s(z_*)$	145.8 ± 1.1
R	$1.754^{+0.026}_{-0.025}$	σ_8	$0.744^{+0.054}_{-0.057}$
$\sigma_8\Omega_m^{0.5}$	$0.379^{+0.025}_{-0.026}$	$\sigma_8\Omega_m^{0.6}$	$0.331^{+0.022}_{-0.023}$
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.27 ± 0.26 Gyr
τ	0.086 ± 0.013	θ_*	0.010401 ± 0.000014
θ_*	$0.59596^{+0.00081}_{-0.00082}$ °	$\tau_{\rm rec}$	$283.4^{+2.3}_{-2.2}$
$t_{\rm reion}$	440^{+63}_{-64} Myr	t_*	375184^{+3955}_{-3963} yr
z_d	$1019.68^{+0.84}_{-0.86}$	$z_{\rm eq}$	3271^{+94}_{-95}
$z_{\rm rec}$	$1088.76^{+0.77}_{-0.78}$	$z_{\rm reion}$	10.7 ± 1.1
z_*	1091.66 ± 0.77		

WMAP Cosmological Parameters

Model: oleclm+mnu

Data: wmap9+spt+act+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.463^{+0.096}_{-0.097}$	H_0	$67.9^{+1.1}_{-1.0}$ km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.5 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5752^{+34}_{-33} μK^2
$d_A(z_{\rm eq})$	14211^{+96}_{-98} Mpc	$d_A(z_*)$	14044^{+101}_{-104} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.47 ± 0.14	η	$(6.06 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	$0.00991^{+0.00029}_{-0.00028}$	$\ell_{\rm eq}$	139.1 ± 3.1
ℓ_*	$302.04^{+0.41}_{-0.42}$	$\sum m_\nu$	< 0.87 eV (95% CL)
n_b	$(2.491 \pm 0.045) \times 10^{-7}$ cm^{-3}	n_s	0.962 ± 0.011
Ω_b	0.0482 ± 0.0015	$\Omega_b h^2$	0.02218 ± 0.00040
Ω_c	0.246 ± 0.011	$\Omega_c h^2$	0.1135 ± 0.0040
Ω_k	$0.0025^{+0.0072}_{-0.0070}$	Ω_k	$-0.0097 < \Omega_k < 0.0183$ (95% CL)
Ω_Λ	$0.694^{+0.020}_{-0.021}$	Ω_m	0.303 ± 0.015
$\Omega_m h^2$	$0.1396^{+0.0055}_{-0.0054}$	$\Omega_\nu h^2$	< 0.0093 (95% CL)
$\Omega_{\rm tot}$	$0.9975^{+0.0070}_{-0.0072}$	$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.8 ± 1.1 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3374 ± 0.0048
$r_s(z_d)/D_v(z=0.2)$	0.1846 ± 0.0024	$r_s(z_d)/D_v(z=0.35)$	0.1113 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0916 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	$0.07749^{+0.00081}_{-0.00082}$
$r_s(z_d)/D_v(z=0.57)$	0.07425 ± 0.00077	$r_s(z_d)/D_v(z=0.6)$	0.07135 ± 0.00073
$r_s(z_d)/D_v(z=0.73)$	0.06162 ± 0.00061	$r_s(z_*)$	$146.1^{+1.0}_{-1.1}$
R	$1.750^{+0.025}_{-0.024}$	σ_8	0.736 ± 0.051
$\sigma_8\Omega_m^{0.5}$	0.405 ± 0.023	$\sigma_8\Omega_m^{0.6}$	0.359 ± 0.020
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.25 ± 0.11
$A_{\rm SZ}$	< 1.2 (95% CL)	t_0	$13.84^{+0.20}_{-0.21}$ Gyr
τ	0.086 ± 0.013	θ_*	0.010401 ± 0.000014
θ_s	$0.59595^{+0.00083}_{-0.00082}$ °	$\tau_{\rm rec}$	284.0 ± 2.2
$t_{\rm reion}$	449 ± 64 Myr	t_*	376185^{+3879}_{-3930} yr
z_d	1019.61 ± 0.85	$z_{\rm eq}$	3247^{+93}_{-92}
$z_{\rm rec}$	1088.66 ± 0.76	$z_{\rm reion}$	10.6 ± 1.1
z_*	1091.55 ± 0.76		

WMAP Cosmological Parameters

Model: oleclm+mnu

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.460^{+0.094}_{-0.095}$	H_0	$68.86^{+0.97}_{-0.98}$ km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.7 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5752^{+34}_{-33} μK^2
$d_A(z_{\rm eq})$	14193 ± 95 Mpc	$d_A(z_*)$	14025 ± 100 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.35 ± 0.13	η	$(6.09 \pm 0.11) \times 10^{-10}$
$k_{\rm eq}$	0.00995 ± 0.00028	$\ell_{\rm eq}$	$139.5^{+3.0}_{-3.1}$
ℓ_*	302.00 ± 0.42	$\sum m_\nu$	< 0.80 eV (95% CL)
n_b	$(2.500 \pm 0.044) \times 10^{-7}$ cm^{-3}	n_s	0.963 ± 0.010
Ω_b	0.0470 ± 0.0014	$\Omega_b h^2$	0.02226 ± 0.00039
Ω_c	0.241 ± 0.010	$\Omega_c h^2$	0.1140 ± 0.0040
Ω_k	$0.0036^{+0.0068}_{-0.0066}$	Ω_k	$-0.0076 < \Omega_k < 0.0188$ (95% CL)
Ω_Λ	$0.702^{+0.018}_{-0.019}$	Ω_m	0.295 ± 0.014
$\Omega_m h^2$	$0.1397^{+0.0053}_{-0.0052}$	$\Omega_\nu h^2$	< 0.0085 (95% CL)
$\Omega_{\rm tot}$	$0.9964^{+0.0066}_{-0.0068}$	$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.5 ± 1.1 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3415 ± 0.0045
$r_s(z_d)/D_v(z=0.2)$	0.1867 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1125 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09246^{+0.00097}_{-0.00095}$	$r_s(z_d)/D_v(z=0.54)$	$0.07819^{+0.00078}_{-0.00077}$
$r_s(z_d)/D_v(z=0.57)$	$0.07491^{+0.00074}_{-0.00073}$	$r_s(z_d)/D_v(z=0.6)$	$0.07197^{+0.00070}_{-0.00069}$
$r_s(z_d)/D_v(z=0.73)$	$0.06211^{+0.00059}_{-0.00058}$	$r_s(z_*)$	145.9 ± 1.0
R	$1.748^{+0.024}_{-0.023}$	σ_8	$0.750^{+0.046}_{-0.048}$
$\sigma_8\Omega_m^{0.5}$	0.407 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.360 ± 0.019
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.74 ± 0.20 Gyr
τ	0.086 ± 0.013	θ_*	$0.010403^{+0.000015}_{-0.000014}$
θ_*	$0.59603^{+0.00084}_{-0.00082}$ °	$\tau_{\rm rec}$	283.7 ± 2.2
$t_{\rm reion}$	451^{+63}_{-64} Myr	t_*	375787^{+3832}_{-3838} yr
z_d	1019.86 ± 0.83	$z_{\rm eq}$	3262^{+92}_{-93}
$z_{\rm rec}$	1088.60 ± 0.74	$z_{\rm reion}$	10.5 ± 1.1
z_*	$1091.48^{+0.75}_{-0.74}$		

WMAP Cosmological Parameters

Model: wacdm

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.466 ± 0.083	H_0	72.3 ± 2.0 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.8^{+2.3}_{-2.4}$
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5740 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14182^{+79}_{-80} Mpc	$d_A(z_*)$	14016 ± 80 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.52 ± 0.14	η	$(6.064 \pm 0.098) \times 10^{-10}$
$k_{\rm eq}$	0.01003 ± 0.00022	$\ell_{\rm eq}$	140.5 ± 2.4
ℓ_*	302.19 ± 0.41	$n_{\rm b}$	$(2.491 \pm 0.040) \times 10^{-7}$ cm^{-3}
n_s	0.9606 ± 0.0097	Ω_b	0.0425 ± 0.0025
$\Omega_b h^2$	0.02218 ± 0.00036	Ω_c	0.221 ± 0.013
$\Omega_c h^2$	0.1152 ± 0.0031	Ω_Λ	0.737 ± 0.015
Ω_m	0.263 ± 0.015	$\Omega_m h^2$	0.1374 ± 0.0030
$r_s(z_d)$	152.36 ± 0.87 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3495 ± 0.0063
$r_s(z_d)/D_v(z=0.2)$	0.1884 ± 0.0026	$r_s(z_d)/D_v(z=0.35)$	0.1119 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0916 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	0.07725 ± 0.00082
$r_s(z_d)/D_v(z=0.57)$	0.07396 ± 0.00078	$r_s(z_d)/D_v(z=0.6)$	$0.07103^{+0.00073}_{-0.00074}$
$r_s(z_d)/D_v(z=0.73)$	$0.06124^{+0.00059}_{-0.00060}$	$r_s(z_*)$	145.71 ± 0.79
R	1.733 ± 0.011	σ_8	0.834 ± 0.037
$\sigma_8\Omega_m^{0.5}$	0.427 ± 0.020	$\sigma_8\Omega_m^{0.6}$	0.374 ± 0.019
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.834 ± 0.076 Gyr
τ	0.082 ± 0.013	θ_*	0.010396 ± 0.000014
θ_*	0.59566 ± 0.00081 °	$\tau_{\rm rec}$	283.3 ± 1.6
$t_{\rm reion}$	472^{+67}_{-68} Myr	t_*	375002^{+2782}_{-2789} yr
w	-1.34 ± 0.18	w_a	0.85 ± 0.47
z_d	$1019.78^{+0.80}_{-0.81}$	$z_{\rm eq}$	3288^{+73}_{-72}
$z_{\rm rec}$	1088.52 ± 0.64	$z_{\rm reion}$	10.2 ± 1.1
z_*	1091.70 ± 0.62		

WMAP Cosmological Parameters

Model: wacdm

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.472 ± 0.085	H_0	71.0 ± 1.3 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.8^{+2.3}_{-2.4}$
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5741 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14172^{+84}_{-83} Mpc	$d_A(z_*)$	14006^{+85}_{-84} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.43 ± 0.13	η	$(6.066 \pm 0.100) \times 10^{-10}$
$k_{\rm eq}$	0.01006 ± 0.00024	$\ell_{\rm eq}$	140.9 ± 2.6
ℓ_*	302.20 ± 0.42	n_b	$(2.491 \pm 0.041) \times 10^{-7}$ cm^{-3}
n_s	0.9597 ± 0.0100	Ω_b	0.0440 ± 0.0018
$\Omega_b h^2$	$0.02218^{+0.00036}_{-0.00037}$	Ω_c	0.2295 ± 0.0097
$\Omega_c h^2$	0.1157 ± 0.0034	Ω_Λ	0.726 ± 0.011
Ω_m	0.274 ± 0.011	$\Omega_m h^2$	0.1379 ± 0.0033
$r_s(z_d)$	152.25 ± 0.92 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3471 ± 0.0051
$r_s(z_d)/D_v(z=0.2)$	0.1882 ± 0.0025	$r_s(z_d)/D_v(z=0.35)$	0.1125 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0922 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	$0.07774^{+0.00078}_{-0.00079}$
$r_s(z_d)/D_v(z=0.57)$	$0.07445^{+0.00073}_{-0.00074}$	$r_s(z_d)/D_v(z=0.6)$	$0.07149^{+0.00068}_{-0.00069}$
$r_s(z_d)/D_v(z=0.73)$	0.06162 ± 0.00053	$r_s(z_*)$	145.61 ± 0.85
R	1.734 ± 0.012	σ_8	0.833 ± 0.036
$\sigma_8\Omega_m^{0.5}$	0.436 ± 0.021	$\sigma_8\Omega_m^{0.6}$	0.383 ± 0.019
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.799^{+0.076}_{-0.075}$ Gyr
τ	0.081 ± 0.012	θ_*	0.010396 ± 0.000014
θ_*	$0.59564^{+0.00082}_{-0.00083}$ °	$\tau_{\rm rec}$	283.1 ± 1.8
$t_{\rm reion}$	481^{+68}_{-69} Myr	t_*	374662^{+3056}_{-3053} yr
w	$-1.17^{+0.13}_{-0.12}$	w_a	$0.35^{+0.50}_{-0.49}$
z_d	1019.83 ± 0.81	$z_{\rm eq}$	3300 ± 79
$z_{\rm rec}$	1088.54 ± 0.66	$z_{\rm reion}$	10.1 ± 1.1
z_*	$1091.74^{+0.65}_{-0.66}$		

WMAP Cosmological Parameters

Model: wedm

Data: wmap9

$10^9\Delta^2_{\mathcal{R}}$	2.39 ± 0.12	H_0	> 50 km/s/Mpc (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5745 ± 35 μK^2	$d_A(z_{\rm eq})$	14196 ± 120 Mpc
$d_A(z_*)$	14030^{+122}_{-121} Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.54^{+0.84}_{-0.79}$
η	$(6.21 \pm 0.15) \times 10^{-10}$	$k_{\rm eq}$	$0.00994^{+0.00084}_{-0.00085}$
$\ell_{\rm eq}$	139.4 ± 3.8	ℓ_*	302.32 ± 0.66
n_b	$(2.549^{+0.060}_{-0.061}) \times 10^{-7}$ cm^{-3}	n_s	0.975 ± 0.015
Ω_b	$0.025 < \Omega_b < 0.091$ (95% CL)	$\Omega_b h^2$	0.02269 ± 0.00054
Ω_c	$0.13 < \Omega_c < 0.44$ (95% CL)	$\Omega_c h^2$	0.1135 ± 0.0049
Ω_Λ	$0.47 < \Omega_\Lambda < 0.85$ (95% CL)	Ω_m	$0.15 < \Omega_m < 0.53$ (95% CL)
$\Omega_m h^2$	0.1362 ± 0.0047	$r_s(z_d)$	152.3 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.344^{+0.062}_{-0.058}$	$r_s(z_d)/D_v(z=0.2)$	$0.187^{+0.027}_{-0.026}$
$r_s(z_d)/D_v(z=0.35)$	0.112 ± 0.011	$r_s(z_d)/D_v(z=0.44)$	$0.0917^{+0.0074}_{-0.0075}$
$r_s(z_d)/D_v(z=0.54)$	$0.0774^{+0.0049}_{-0.0061}$	$r_s(z_d)/D_v(z=0.57)$	$0.0741^{+0.0043}_{-0.0046}$
$r_s(z_d)/D_v(z=0.6)$	$0.0712^{+0.0039}_{-0.0041}$	$r_s(z_d)/D_v(z=0.73)$	$0.0614^{+0.0025}_{-0.0027}$
$r_s(z_*)$	145.8 ± 1.2	R	$1.726^{+0.018}_{-0.017}$
σ_8	$0.81^{+0.16}_{-0.15}$	$\sigma_8\Omega_m^{0.5}$	$0.427^{+0.032}_{-0.031}$
$\sigma_8\Omega_m^{0.6}$	0.378 ± 0.036	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.86^{+0.35}_{-0.34}$ Gyr	τ	0.089 ± 0.014
θ_*	0.010392 ± 0.000023	θ_*	0.5954 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	284.1 ± 2.6	$t_{\rm reion}$	449 ± 64 Myr
t_*	376618^{+4454}_{-4462} yr	w	$-1.71 < w < -0.34$ (95% CL)
z_d	1020.8 ± 1.1	$z_{\rm eq}$	3260 ± 113
$z_{\rm rec}$	1088.09 ± 0.86	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1090.87^{+0.96}_{-0.95}$		

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+h0

$10^9\Delta^2_{\mathcal{R}}$	2.42 ± 0.11	H_0	73.6 ± 2.4 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5746 ± 35 μK^2	$d_A(z_{\rm eq})$	14189 ± 119 Mpc
$d_A(z_*)$	14023 ± 120 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.14 ± 0.25
η	$(6.18 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	0.00998 ± 0.00033
$\ell_{\rm eq}$	139.9 ± 3.6	ℓ_*	302.36 ± 0.65
n_{δ}	$(2.540 \pm 0.057) \times 10^{-7}$ cm^{-3}	n_s	0.971 ± 0.013
Ω_b	0.0418 ± 0.0029	$\Omega_b h^2$	$0.02261^{+0.00051}_{-0.00050}$
Ω_c	0.211 ± 0.016	$\Omega_c h^2$	0.1141 ± 0.0047
Ω_Λ	0.747 ± 0.018	Ω_m	0.253 ± 0.018
$\Omega_m h^2$	0.1367 ± 0.0046	$r_s(z_d)$	152.2 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3597^{+0.0100}_{-0.0099}$	$r_s(z_d)/D_v(z=0.2)$	0.1947 ± 0.0048
$r_s(z_d)/D_v(z=0.35)$	0.1158 ± 0.0025	$r_s(z_d)/D_v(z=0.44)$	0.0946 ± 0.0019
$r_s(z_d)/D_v(z=0.54)$	0.0796 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0761 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0731 ± 0.0014	$r_s(z_d)/D_v(z=0.73)$	0.0627 ± 0.0011
$r_s(z_*)$	145.7 ± 1.2	R	1.729 ± 0.016
σ_8	0.857 ± 0.047	$\sigma_8\Omega_m^{0.5}$	0.431 ± 0.028
$\sigma_8\Omega_m^{0.6}$	0.375 ± 0.026	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.682 ± 0.094 Gyr	τ	$0.089^{+0.013}_{-0.014}$
θ_*	0.010390 ± 0.000022	θ_*	0.5953 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	283.8 ± 2.5	$t_{\rm reion}$	453 ± 64 Myr
t_*	376082^{+4259}_{-4264} yr	w	-1.12 ± 0.10
z_d	1020.7 ± 1.1	$z_{\rm eq}$	3272 ± 109
$z_{\rm rec}$	$1088.21^{+0.80}_{-0.81}$	$z_{\rm reion}$	10.6 ± 1.1
z_*	1091.03 ± 0.88		

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.44 ± 0.11	H_0	68.3 ± 2.8 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5740^{+35}_{-34} μK^2	$d_A(z_{\rm eq})$	14159 ± 113 Mpc
$d_A(z_*)$	13993^{+114}_{-116} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.49 ± 0.13
η	$(6.16 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	0.01009 ± 0.00031
$\ell_{\rm eq}$	141.1 ± 3.3	ℓ_*	302.47 ± 0.64
n_{δ}	$(2.531 \pm 0.056) \times 10^{-7}$ cm^{-3}	n_s	0.969 ± 0.013
Ω_b	0.0486 ± 0.0045	$\Omega_b h^2$	0.02254 ± 0.00050
Ω_c	$0.249^{+0.015}_{-0.016}$	$\Omega_c h^2$	$0.1157^{+0.0043}_{-0.0044}$
Ω_Λ	$0.703^{+0.020}_{-0.019}$	Ω_m	$0.297^{+0.019}_{-0.020}$
$\Omega_m h^2$	0.1382 ± 0.0042	$r_s(z_d)$	151.8 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3373 ± 0.0092	$r_s(z_d)/D_v(z=0.2)$	0.1845 ± 0.0038
$r_s(z_d)/D_v(z=0.35)$	$0.1112^{+0.0014}_{-0.0015}$	$r_s(z_d)/D_v(z=0.44)$	0.09147 ± 0.00098
$r_s(z_d)/D_v(z=0.54)$	0.07739 ± 0.00074	$r_s(z_d)/D_v(z=0.57)$	0.07415 ± 0.00070
$r_s(z_d)/D_v(z=0.6)$	0.07125 ± 0.00067	$r_s(z_d)/D_v(z=0.73)$	0.06153 ± 0.00059
$r_s(z_*)$	145.3 ± 1.1	R	1.735 ± 0.015
σ_8	0.821 ± 0.058	$\sigma_8\Omega_m^{0.5}$	0.447 ± 0.024
$\sigma_8\Omega_m^{0.6}$	0.396 ± 0.020	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.804^{+0.095}_{-0.094}$ Gyr	τ	0.087 ± 0.013
θ_*	0.010386 ± 0.000022	θ_*	0.5951 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	$283.0^{+2.3}_{-2.2}$	$t_{\rm reion}$	454 ± 64 Myr
t_*	374656^{+3911}_{-3855} yr	w	-0.98 ± 0.14
z_d	1020.6 ± 1.1	$z_{\rm eq}$	3308 ± 101
$z_{\rm rec}$	1088.40 ± 0.79	$z_{\rm reion}$	10.5 ± 1.1
z_*	1091.26 ± 0.85		

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.499^{+0.097}_{-0.096}$	H_0	71.7 ± 2.0 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5732 \pm 33 \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14089 ± 98 Mpc
$d_A(z_*)$	13921^{+100}_{-99} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.48 ± 0.13
η	$(6.12^{+0.13}_{-0.12}) \times 10^{-10}$	$k_{\rm eq}$	$0.01034^{+0.00025}_{-0.00024}$
$\ell_{\rm eq}$	143.9 ± 2.5	ℓ_*	$302.62^{+0.61}_{-0.63}$
$n_{\hat{\mathbf{b}}}$	$(2.514^{+0.053}_{-0.051}) \times 10^{-7}$ cm^{-3}	n_s	0.963 ± 0.012
$\Omega_{\rm b}$	$0.0437^{+0.0027}_{-0.0028}$	$\Omega_{\rm b}h^2$	$0.02239^{+0.00047}_{-0.00048}$
$\Omega_{\rm c}$	0.232 ± 0.011	$\Omega_{\rm c}h^2$	0.1192 ± 0.0034
Ω_Λ	0.724 ± 0.013	Ω_m	0.276 ± 0.013
$\Omega_m h^2$	$0.1416^{+0.0034}_{-0.0033}$	$r_s(z_d)$	151.0 ± 1.0 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3478^{+0.0065}_{-0.0066}$	$r_s(z_d)/D_v(z=0.2)$	0.1885 ± 0.0027
$r_s(z_d)/D_v(z=0.35)$	0.1124 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09202^{+0.00091}_{-0.00092}$
$r_s(z_d)/D_v(z=0.54)$	$0.07753^{+0.00077}_{-0.00076}$	$r_s(z_d)/D_v(z=0.57)$	0.07421 ± 0.00073
$r_s(z_d)/D_v(z=0.6)$	0.07124 ± 0.00070	$r_s(z_d)/D_v(z=0.73)$	0.06132 ± 0.00061
$r_s(z_*)$	144.52 ± 0.90	R	1.747 ± 0.011
σ_8	$0.882^{+0.042}_{-0.043}$	$\sigma_8\Omega_m^{0.5}$	$0.463^{+0.019}_{-0.020}$
$\sigma_8\Omega_m^{0.6}$	0.407 ± 0.017	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.749 ± 0.084 Gyr	τ	0.084 ± 0.013
θ_*	$0.010381^{+0.000022}_{-0.000021}$	θ_*	0.5948 ± 0.0012 °
$\tau_{\rm rec}$	281.1 ± 1.7	$t_{\rm reion}$	456 ± 65 Myr
t_*	371489^{+2963}_{-2992} yr	w	-1.14 ± 0.11
z_d	$1020.6^{+1.1}_{-1.0}$	$z_{\rm eq}$	3390^{+81}_{-80}
$z_{\rm rec}$	$1088.79^{+0.71}_{-0.72}$	$z_{\rm reion}$	10.4 ± 1.1
z_*	1091.77 ± 0.73		

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+spt+act

$10^9 \Delta^2_{\mathcal{R}}$	$2.434^{+0.086}_{-0.087}$	H_0	> 55 km/s/Mpc (95% CL)
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.7^{+2.4}_{-2.3}$
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5746^{+32}_{-33}\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14228^{+87}_{-88} Mpc	$d_A(z_*)$	14063 ± 88 Mpc
$D_v(z=0.57)/r_s(z_d)$	$13.22^{+0.70}_{-0.68}$	η	$(6.09 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00987 ± 0.00025	$\ell_{\rm eq}$	138.8 ± 2.7
ℓ_*	302.06 ± 0.42	n_b	$(2.502 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	0.964 ± 0.010	$\Omega_{\rm b}$	$0.024 < \Omega_{\rm b} < 0.074$ (95% CL)
$\Omega_{\rm b}h^2$	0.02228 ± 0.00038	$\Omega_{\rm c}$	$0.12 < \Omega_{\rm c} < 0.38$ (95% CL)
$\Omega_{\rm c}h^2$	0.1129 ± 0.0035	Ω_Λ	$0.55 < \Omega_\Lambda < 0.85$ (95% CL)
Ω_m	$0.15 < \Omega_m < 0.45$ (95% CL)	$\Omega_m h^2$	$0.13 < \Omega_m h^2 < 0.14$ (95% CL)
$r_s(z_d)$	152.92 ± 0.97 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.359^{+0.057}_{-0.053}$
$r_s(z_d)/D_v(z=0.2)$	$0.194^{+0.025}_{-0.024}$	$r_s(z_d)/D_v(z=0.35)$	0.115 ± 0.010
$r_s(z_d)/D_v(z=0.44)$	0.0942 ± 0.0067	$r_s(z_d)/D_v(z=0.54)$	$0.0793^{+0.0044}_{-0.0045}$
$r_s(z_d)/D_v(z=0.57)$	$0.0758^{+0.0039}_{-0.0040}$	$r_s(z_d)/D_v(z=0.6)$	$0.0728^{+0.0036}_{-0.0036}$
$r_s(z_d)/D_v(z=0.73)$	$0.0626^{+0.0022}_{-0.0023}$	$r_s(z_*)$	146.26 ± 0.90
R	1.725 ± 0.012	σ_8	$0.83^{+0.13}_{-0.12}$
$\sigma_8\Omega_m^{0.5}$	0.419 ± 0.027	$\sigma_8\Omega_m^{0.6}$	0.367 ± 0.035
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.76^{+0.28}_{-0.27}$ Gyr
τ	0.084 ± 0.013	θ_*	$0.010401^{+0.000013}_{-0.000014}$
θ_*	$0.59592^{+0.00084}_{-0.00082}$ °	$\tau_{\rm rec}$	$284.5^{+1.8}_{-1.9}$
$t_{\rm reion}$	472 ± 66 Myr	t_*	377149^{+3208}_{-3254} yr
w	$-1.07^{+0.38}_{-0.41}$	z_d	$1019.80^{+0.83}_{-0.82}$
$z_{\rm eq}$	3237 ± 82	$z_{\rm rec}$	$1088.47^{+0.68}_{-0.69}$
$z_{\rm reion}$	10.3 ± 1.1	z_*	$1091.37^{+0.67}_{-0.68}$

WMAP Cosmological Parameters

Model: wcdm

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.431^{+0.085}_{-0.084}$	H_0	$73.6^{+2.4}_{-2.5}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.7 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5748 ± 32 μK^2
$d_A(z_{\rm eq})$	14232^{+86}_{-87} Mpc	$d_A(z_*)$	14067^{+87}_{-89} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.03 ± 0.20	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00985 ± 0.00025	$\ell_{\rm eq}$	138.6 ± 2.7
ℓ_*	302.04 ± 0.42	n_b	$(2.504 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	$0.9644^{+0.0099}_{-0.0101}$	Ω_b	$0.0413^{+0.0027}_{-0.0028}$
$\Omega_b h^2$	0.02229 ± 0.00037	Ω_c	0.209 ± 0.015
$\Omega_c h^2$	0.1127 ± 0.0035	Ω_Λ	0.750 ± 0.017
Ω_m	0.250 ± 0.017	$\Omega_m h^2$	0.1350 ± 0.0034
$r_s(z_d)$	$152.97^{+0.97}_{-0.85}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3620 ± 0.0098
$r_s(z_d)/D_v(z=0.2)$	0.1961 ± 0.0045	$r_s(z_d)/D_v(z=0.35)$	0.1167 ± 0.0022
$r_s(z_d)/D_v(z=0.44)$	0.0954 ± 0.0016	$r_s(z_d)/D_v(z=0.54)$	$0.0802^{+0.0012}_{-0.0013}$
$r_s(z_d)/D_v(z=0.57)$	0.0767 ± 0.0012	$r_s(z_d)/D_v(z=0.6)$	0.0736 ± 0.0011
$r_s(z_d)/D_v(z=0.73)$	0.06321 ± 0.00086	$r_s(z_*)$	146.31 ± 0.89
R	1.724 ± 0.012	σ_8	$0.838^{+0.036}_{-0.035}$
$\sigma_8\Omega_m^{0.5}$	$0.419^{+0.019}_{-0.020}$	$\sigma_8\Omega_m^{0.6}$	$0.364^{+0.018}_{-0.019}$
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.684 ± 0.071 Gyr
τ	0.084 ± 0.013	θ_*	0.010401 ± 0.000014
θ_s	0.59595 ± 0.00083 $^\circ$	$\tau_{\rm rec}$	$284.6^{+1.8}_{-1.9}$
$t_{\rm reion}$	475^{+66}_{-67} Myr	t_*	377363^{+3193}_{-3224} yr
w	$-1.092^{+0.083}_{-0.084}$	z_d	$1019.81^{+0.83}_{-0.82}$
$z_{\rm eq}$	3231^{+82}_{-81}	$z_{\rm rec}$	$1088.44^{+0.68}_{-0.69}$
$z_{\rm reion}$	10.3 ± 1.1	z_*	1091.33 ± 0.66

WMAP Cosmological Parameters Model: wcdm Data: wmap9+spt+act+bao				WMA Data
$10^9\Delta^2_{\mathcal{R}}$	$2.452^{+0.083}_{-0.084}$	H_0	67.1 ± 2.3 km/s/Mpc	$10^9\Delta^2_{\mathcal{R}}$	$2.495^{+0.0}_{-0.0}$
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.7 ± 2.4	$A_{\rm clustered}$	< 11 (95%
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5742 \pm 32\ \mu{\rm K}^2$	$A^{\rm SPT}_{\rm Poisson}$	> 17 (95%
$d_A(z_{\rm eq})$	14201 ± 82 Mpc	$d_A(z_*)$	14036 ± 83 Mpc	$d_A(z_{\rm eq})$	14145 ± 73
$D_v(z=0.57)/r_s(z_d)$	13.45 ± 0.12	η	$(6.08 \pm 0.10) \times 10^{-10}$	$D_v(z=0.57)/r_s(z_d)$	$13.38^{+0.1}_{-0.1}$
$k_{\rm eq}$	0.00996 ± 0.00023	$\ell_{\rm eq}$	$139.8^{+2.4}_{-2.5}$	$k_{\rm eq}$	0.01016 ± 0.0
ℓ_*	302.12 ± 0.42	n_b	$(2.496 \pm 0.042) \times 10^{-7}$ cm^{-3}	ℓ_*	302.25 ± 0
n_s	$0.9620^{+0.0100}_{-0.0102}$	Ω_b	$0.0495^{+0.0037}_{-0.0036}$	n_s	$0.9569^{+0.0}_{-0.0}$
$\Omega_b h^2$	$0.02222^{+0.00037}_{-0.00038}$	Ω_c	0.254 ± 0.015	$\Omega_b h^2$	0.02211 ± 0.0
$\Omega_c h^2$	$0.1143^{+0.0032}_{-0.0033}$	Ω_Λ	0.696 ± 0.018	$\Omega_c h^2$	$0.1171^{+0.0}_{-0.0}$
Ω_m	0.304 ± 0.018	$\Omega_m h^2$	0.1365 ± 0.0031	Ω_m	0.279 ± 0.0
$r_s(z_d)$	$152.60^{+0.89}_{-0.90}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3347^{+0.0085}_{-0.0082}$	$r_s(z_d)$	$151.94^{+0.79}_{-0.80}$
$r_s(z_d)/D_v(z=0.2)$	0.1837 ± 0.0036	$r_s(z_d)/D_v(z=0.35)$	0.1112 ± 0.0015	$r_s(z_d)/D_v(z=0.2)$	0.1886 ± 0.0
$r_s(z_d)/D_v(z=0.44)$	$0.09158^{+0.00099}_{-0.00100}$	$r_s(z_d)/D_v(z=0.54)$	0.07759 ± 0.00072	$r_s(z_d)/D_v(z=0.44)$	$0.09254^{+0.0}_{-0.0}$
$r_s(z_d)/D_v(z=0.57)$	$0.07437^{+0.00067}_{-0.00066}$	$r_s(z_d)/D_v(z=0.6)$	0.07148 ± 0.00062	$r_s(z_d)/D_v(z=0.57)$	$0.07474^{+0.0}_{-0.0}$
$r_s(z_d)/D_v(z=0.73)$	$0.06179^{+0.00049}_{-0.00048}$	$r_s(z_*)$	$145.95^{+0.81}_{-0.82}$	$r_s(z_d)/D_v(z=0.73)$	0.06182 ± 0.0
R	1.729 ± 0.011	σ_8	$0.791^{+0.041}_{-0.042}$	R	1.7392 ± 0.0
$\sigma_8\Omega_m^{0.5}$	$0.436^{+0.017}_{-0.018}$	$\sigma_8\Omega_m^{0.6}$	0.387 ± 0.015	$\sigma_8\Omega_m^{0.5}$	0.447 ± 0.0
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.831^{+0.071}_{-0.072}$ Gyr	$A_{\rm SZ}$	< 1.1 (95%
τ	$0.082^{+0.013}_{-0.012}$	θ_*	0.010398 ± 0.000014	τ	0.079 ± 0.0
θ_*	$0.59578^{+0.00083}_{-0.00082}$ ○	$\tau_{\rm rec}$	283.8 ± 1.7	θ_*	0.59554 ± 0.00
$t_{\rm reion}$	477^{+66}_{-67} Myr	t_*	375031^{+2950}_{-2897} yr	$t_{\rm reion}$	489^{+68}_{-69} M
w	$-0.925^{+0.102}_{-0.099}$	z_d	$1019.79^{+0.83}_{-0.82}$	w	$-1.073^{+0.0}_{-0.0}$
$z_{\rm eq}$	3267^{+74}_{-75}	$z_{\rm rec}$	$1088.61^{+0.69}_{-0.67}$	$z_{\rm eq}$	3331^{+65}_{-67}
$z_{\rm reion}$	10.2 ± 1.1	z_*	$1091.56^{+0.65}_{-0.64}$	$z_{\rm reion}$	9.9 ± 1.0

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.40 ± 0.10	H_0	72.3 ± 2.4 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5748 ± 35 μK^2	$d_A(z_{\rm eq})$	14205^{+116}_{-117} Mpc
$d_A(z_*)$	14040 ± 118 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.15 ± 0.27
η	$(6.20 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	0.00992 ± 0.00032
$\ell_{\rm eq}$	139.2 ± 3.5	ℓ_*	302.31 ± 0.65
n_b	$(2.545 \pm 0.056) \times 10^{-7}$ cm^{-3}	n_s	0.973 ± 0.013
Ω_b	$0.0435^{+0.0027}_{-0.0028}$	$\Omega_b h^2$	0.02267 ± 0.00050
Ω_c	0.217 ± 0.019	$\Omega_c h^2$	0.1132 ± 0.0045
Ω_Λ	0.739 ± 0.021	Ω_m	0.261 ± 0.021
$\Omega_m h^2$	0.1359 ± 0.0044	$r_s(z_d)$	152.4 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.355 ± 0.011	$r_s(z_d)/D_v(z=0.2)$	0.1931 ± 0.0055
$r_s(z_d)/D_v(z=0.35)$	0.1153 ± 0.0028	$r_s(z_d)/D_v(z=0.44)$	0.0944 ± 0.0022
$r_s(z_d)/D_v(z=0.54)$	0.0795 ± 0.0017	$r_s(z_d)/D_v(z=0.57)$	0.0761 ± 0.0016
$r_s(z_d)/D_v(z=0.6)$	0.0730 ± 0.0015	$r_s(z_d)/D_v(z=0.73)$	0.0628 ± 0.0012
$r_s(z_*)$	145.9 ± 1.2	R	1.726 ± 0.016
σ_8	0.837 ± 0.038	$\sigma_8\Omega_m^{0.5}$	0.427 ± 0.027
$\sigma_8\Omega_m^{0.6}$	0.374 ± 0.026	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.70 ± 0.11 Gyr	τ	0.089 ± 0.014
θ_*	0.010392 ± 0.000022	θ_*	0.5954 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	284.2 ± 2.4	$t_{\rm reion}$	452^{+63}_{-64} Myr
t_*	376886^{+4105}_{-4108} yr	w	-1.061 ± 0.075
z_d	1020.7 ± 1.1	$z_{\rm eq}$	3252 ± 105
$z_{\rm rec}$	$1088.09^{+0.80}_{-0.79}$	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1090.88^{+0.86}_{-0.85}$		

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.39 ± 0.10	H_0	73.0 ± 1.7 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5751 \pm 34\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14209 ± 116 Mpc
$d_A(z_*)$	14044 ± 117 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.09 ± 0.24
η	$(6.21 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00989 ± 0.00031
$\ell_{\rm eq}$	138.9 ± 3.3	ℓ_*	$302.26^{+0.64}_{-0.63}$
$n_{\rm b}$	$(2.550 \pm 0.055) \times 10^{-7}$ cm^{-3}	n_s	0.974 ± 0.013
$\Omega_{\rm b}$	0.0426 ± 0.0020	$\Omega_{\rm b}h^2$	0.02271 ± 0.00049
$\Omega_{\rm c}$	0.212 ± 0.014	$\Omega_{\rm c}h^2$	0.1128 ± 0.0044
Ω_Λ	0.745 ± 0.016	Ω_m	0.255 ± 0.016
$\Omega_m h^2$	0.1355 ± 0.0043	$r_s(z_d)$	152.4 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3586 ± 0.0084	$r_s(z_d)/D_v(z=0.2)$	0.1946 ± 0.0042
$r_s(z_d)/D_v(z=0.35)$	0.1160 ± 0.0023	$r_s(z_d)/D_v(z=0.44)$	0.0949 ± 0.0018
$r_s(z_d)/D_v(z=0.54)$	0.0799 ± 0.0015	$r_s(z_d)/D_v(z=0.57)$	0.0764 ± 0.0014
$r_s(z_d)/D_v(z=0.6)$	0.0733 ± 0.0013	$r_s(z_d)/D_v(z=0.73)$	0.0630 ± 0.0011
$r_s(z_*)$	146.0 ± 1.1	R	1.724 ± 0.015
σ_8	0.841 ± 0.037	$\sigma_8\Omega_m^{0.5}$	0.424 ± 0.026
$\sigma_8\Omega_m^{0.6}$	0.370 ± 0.024	$\alpha_{\rm SNLS}$	1.44 ± 0.11
$\beta_{\rm SNLS}$	3.27 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.676 ± 0.094 Gyr	τ	0.090 ± 0.014
θ_*	0.010394 ± 0.000022	θ_*	$0.5955^{+0.0013}_{-0.0012}$ °
$\tau_{\rm rec}$	284.4 ± 2.3	$t_{\rm reion}$	451^{+63}_{-64} Myr
t_*	377234^{+3385}_{-3396} yr	w	-1.075 ± 0.068
z_d	1020.8 ± 1.1	$z_{\rm eq}$	3244 ± 102
$z_{\rm rec}$	1088.02 ± 0.77	$z_{\rm reion}$	10.6 ± 1.1
z_*	1090.79 ± 0.82		

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+snls3+bao

$10^9 \Delta^2_{\mathcal{R}}$	2.479 ± 0.089	H_0	70.2 ± 1.6 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5734 ± 33 μK^2	$d_A(z_{\rm eq})$	14124 ± 100 Mpc
$d_A(z_*)$	13958^{+100}_{-101} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.47 ± 0.13
η	$(6.13 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01023 ± 0.00023
$\ell_{\rm eq}$	142.7 ± 2.3	ℓ_*	302.62 ± 0.60
$n_{\bar{b}}$	$(2.516^{+0.060}_{-0.051}) \times 10^{-7}$ cm^{-3}	n_s	0.965 ± 0.011
Ω_b	0.0455 ± 0.0022	$\Omega_b h^2$	0.02241 ± 0.00045
Ω_c	$0.239^{+0.011}_{-0.010}$	$\Omega_c h^2$	0.1177 ± 0.0031
Ω_Λ	0.715 ± 0.012	Ω_m	0.285 ± 0.012
$\Omega_m h^2$	0.1401 ± 0.0032	$r_s(z_d)$	151.4 ± 1.0 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3435 ± 0.0058	$r_s(z_d)/D_v(z=0.2)$	0.1870 ± 0.0026
$r_s(z_d)/D_v(z=0.35)$	0.1120 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.09187^{+0.00093}_{-0.00094}$
$r_s(z_d)/D_v(z=0.54)$	$0.07754^{+0.00075}_{-0.00074}$	$r_s(z_d)/D_v(z=0.57)$	$0.07425^{+0.00071}_{-0.00070}$
$r_s(z_d)/D_v(z=0.6)$	0.07130 ± 0.00067	$r_s(z_d)/D_v(z=0.73)$	$0.06145^{+0.00055}_{-0.00056}$
$r_s(z_*)$	144.90 ± 0.88	R	$1.7426^{+0.0097}_{-0.0098}$
σ_8	0.856 ± 0.035	$\sigma_8 \Omega_m^{0.5}$	0.456 ± 0.018
$\sigma_8 \Omega_m^{0.6}$	0.402 ± 0.017	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.776 ± 0.088 Gyr	τ	0.085 ± 0.013
θ_*	0.010381 ± 0.000021	θ_*	0.5948 ± 0.0012 °
$\tau_{\rm rec}$	281.9 ± 1.6	$t_{\rm reion}$	457^{+64}_{-65} Myr
t_*	372809^{+2789}_{-2784} yr	w	-1.073 ± 0.078
z_d	1020.5 ± 1.1	$z_{\rm eq}$	3354 ± 76
$z_{\rm rec}$	$1088.66^{+0.69}_{-0.68}$	$z_{\rm reion}$	10.4 ± 1.1
z_*	1091.62 ± 0.67		

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.487 ± 0.088	H_0	71.4 ± 1.4 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5735 ± 33 μK^2	$d_A(z_{\rm eq})$	14100^{+97}_{-96} Mpc
$d_A(z_*)$	13933^{+98}_{-97} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.45 ± 0.13
η	$(6.13 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01029 ± 0.00022
$\ell_{\rm eq}$	143.4 ± 2.2	ℓ_*	302.58 ± 0.60
n_{δ}	$(2.519 \pm 0.050) \times 10^{-7}$ cm^{-3}	n_s	0.964 ± 0.011
Ω_b	0.0441 ± 0.0018	$\Omega_b h^2$	0.02243 ± 0.00044
Ω_c	0.2330 ± 0.0090	$\Omega_c h^2$	0.1185 ± 0.0030
Ω_Λ	0.723 ± 0.010	Ω_m	0.277 ± 0.010
$\Omega_m h^2$	0.1410 ± 0.0030	$r_s(z_d)$	151.15 ± 0.98 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3472 ± 0.0050	$r_s(z_d)/D_v(z=0.2)$	0.1885 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1125 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09216 ± 0.00091
$r_s(z_d)/D_v(z=0.54)$	0.07768 ± 0.00074	$r_s(z_d)/D_v(z=0.57)$	0.07436 ± 0.00070
$r_s(z_d)/D_v(z=0.6)$	0.07139 ± 0.00067	$r_s(z_d)/D_v(z=0.73)$	0.06146 ± 0.00056
$r_s(z_*)$	144.66 ± 0.85	R	1.7448 ± 0.0092
σ_8	0.873 ± 0.032	$\sigma_8\Omega_m^{0.5}$	0.459 ± 0.018
$\sigma_8\Omega_m^{0.6}$	0.404 ± 0.016	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.747 ± 0.084 Gyr	τ	0.085 ± 0.013
θ_*	0.010383 ± 0.000021	θ_*	0.5949 ± 0.0012 $^\circ$
$\tau_{\rm rec}$	281.5 ± 1.6	$t_{\rm reion}$	456^{+64}_{-65} Myr
t_*	372077^{+2538}_{-2547} yr	w	$-1.117^{+0.070}_{-0.069}$
z_d	$1020.7^{+1.1}_{-1.0}$	$z_{\rm eq}$	3374 ± 72
$z_{\rm rec}$	$1088.69^{+0.68}_{-0.67}$	$z_{\rm reion}$	10.4 ± 1.1
z_*	$1091.65^{+0.66}_{-0.65}$		

WMAP Cosmological Parameters

Model: wcdm

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	$2.426^{+0.085}_{-0.084}$	H_0	72.5 ± 2.3 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14242 ± 87 Mpc	$d_A(z_*)$	14078 ± 88 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.06 ± 0.22	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00982 ± 0.00025	$\ell_{\rm eq}$	138.2 ± 2.7
ℓ_*	302.03 ± 0.42	n_b	$(2.505 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	$0.9651^{+0.0100}_{-0.0099}$	Ω_b	0.0426 ± 0.0027
$\Omega_b h^2$	0.02231 ± 0.00037	Ω_c	0.214 ± 0.017
$\Omega_c h^2$	0.1122 ± 0.0035	Ω_Λ	0.743 ± 0.019
Ω_m	0.257 ± 0.019	$\Omega_m h^2$	0.1346 ± 0.0034
$r_s(z_d)$	153.09 ± 0.97 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.358 ± 0.010
$r_s(z_d)/D_v(z=0.2)$	$0.1945^{+0.0049}_{-0.0060}$	$r_s(z_d)/D_v(z=0.35)$	0.1161 ± 0.0025
$r_s(z_d)/D_v(z=0.44)$	0.0950 ± 0.0018	$r_s(z_d)/D_v(z=0.54)$	0.0800 ± 0.0014
$r_s(z_d)/D_v(z=0.57)$	0.0766 ± 0.0013	$r_s(z_d)/D_v(z=0.6)$	0.0735 ± 0.0012
$r_s(z_d)/D_v(z=0.73)$	0.06317 ± 0.00093	$r_s(z_*)$	146.43 ± 0.89
R	1.722 ± 0.012	σ_8	0.825 ± 0.031
$\sigma_8\Omega_m^{0.5}$	0.418 ± 0.020	$\sigma_8\Omega_m^{0.6}$	0.365 ± 0.020
$\alpha_{\rm SNLS}$	1.44 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.703^{+0.079}_{-0.078}$ Gyr
τ	0.085 ± 0.013	θ_*	0.010402 ± 0.000014
θ_*	$0.59597 \pm 0.00083\ ^\circ$	$\tau_{\rm rec}$	284.9 ± 1.8
$t_{\rm reion}$	472 ± 65 Myr	t_*	377788^{+3198}_{-3196} yr
w	-1.053 ± 0.069	z_d	1019.80 ± 0.82
$z_{\rm eq}$	3221 ± 81	$z_{\rm rec}$	$1088.39^{+0.67}_{-0.68}$
$z_{\rm reion}$	10.3 ± 1.1	z_*	$1091.26^{+0.67}_{-0.66}$

WMAP Cosmological Parameters

Model: wcdm

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.422^{+0.084}_{-0.085}$	H_0	73.1 ± 1.7 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5750 ± 33 μK^2
$d_A(z_{\rm eq})$	14246 ± 87 Mpc	$d_A(z_*)$	14081 ± 88 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.02 ± 0.19	η	$(6.11 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00981 ± 0.00024	$\ell_{\rm eq}$	138.1 ± 2.6
ℓ_*	302.01 ± 0.41	n_b	$(2.508 \pm 0.041) \times 10^{-7}$ cm^{-3}
n_s	0.9657 ± 0.0098	Ω_b	0.0418 ± 0.0019
$\Omega_b h^2$	0.02233 ± 0.00037	Ω_c	$0.210^{+0.013}_{-0.012}$
$\Omega_c h^2$	0.1120 ± 0.0034	Ω_Λ	0.748 ± 0.014
Ω_m	0.252 ± 0.014	$\Omega_m h^2$	0.1343 ± 0.0033
$r_s(z_d)$	153.13 ± 0.96 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3606 ± 0.0077
$r_s(z_d)/D_v(z=0.2)$	0.1957 ± 0.0038	$r_s(z_d)/D_v(z=0.35)$	0.1167 ± 0.0020
$r_s(z_d)/D_v(z=0.44)$	0.0954 ± 0.0015	$r_s(z_d)/D_v(z=0.54)$	0.0803 ± 0.0012
$r_s(z_d)/D_v(z=0.57)$	0.0768 ± 0.0011	$r_s(z_d)/D_v(z=0.6)$	0.0737 ± 0.0011
$r_s(z_d)/D_v(z=0.73)$	0.06332 ± 0.00084	$r_s(z_*)$	146.47 ± 0.88
R	1.721 ± 0.012	σ_8	0.829 ± 0.029
$\sigma_8\Omega_m^{0.5}$	$0.416^{+0.019}_{-0.020}$	$\sigma_8\Omega_m^{0.6}$	0.362 ± 0.018
$\alpha_{\rm SNLS}$	1.44 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.687 ± 0.067 Gyr
τ	0.085 ± 0.013	θ_*	0.010402 ± 0.000014
θ_*	0.59601 ± 0.00081 $^\circ$	$\tau_{\rm rec}$	285.0 ± 1.8
$t_{\rm reion}$	471 ± 65 Myr	t_*	377998^{+3135}_{-3133} yr
w	-1.067 ± 0.059	z_d	$1019.83^{+0.81}_{-0.82}$
$z_{\rm eq}$	3216 ± 79	$z_{\rm rec}$	1088.35 ± 0.67
$z_{\rm reion}$	10.3 ± 1.1	z_*	$1091.21^{+0.65}_{-0.64}$

WMAP Cosmological Parameters

Model: wcdm

Data: wmap9+spt+act+sdss3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.492 ± 0.079	H_0	69.7 ± 1.6 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	$14.8^{+2.3}_{-2.4}$
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5736 \pm 32\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14160^{+74}_{-75} Mpc	$d_A(z_*)$	13994^{+75}_{-76} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.40 ± 0.12	η	$(6.040 \pm 0.094) \times 10^{-10}$
$k_{\rm eq}$	0.01012 ± 0.00019	$\ell_{\rm eq}$	141.6 ± 2.0
ℓ_*	$302.27^{+0.40}_{-0.41}$	n_b	$(2.481 \pm 0.039) \times 10^{-7}$ cm^{-3}
n_s	0.9570 ± 0.0090	Ω_b	$0.0455^{+0.0021}_{-0.0022}$
$\Omega_b h^2$	$0.02209^{+0.00035}_{-0.00034}$	Ω_c	0.240 ± 0.010
$\Omega_c h^2$	$0.1165^{+0.0027}_{-0.0026}$	Ω_Λ	0.714 ± 0.012
Ω_m	0.286 ± 0.012	$\Omega_m h^2$	0.1386 ± 0.0026
$r_s(z_d)$	152.11 ± 0.80 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3435 ± 0.0058
$r_s(z_d)/D_v(z=0.2)$	0.1873 ± 0.0026	$r_s(z_d)/D_v(z=0.35)$	0.1124 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	0.09227 ± 0.00089	$r_s(z_d)/D_v(z=0.54)$	0.07792 ± 0.00069
$r_s(z_d)/D_v(z=0.57)$	0.07463 ± 0.00065	$r_s(z_d)/D_v(z=0.6)$	0.07168 ± 0.00061
$r_s(z_d)/D_v(z=0.73)$	0.06179 ± 0.00050	$r_s(z_*)$	145.44 ± 0.71
R	1.7378 ± 0.0088	σ_8	0.833 ± 0.030
$\sigma_8\Omega_m^{0.5}$	0.445 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.393 ± 0.014
$\alpha_{\rm SDSS}$	1.43 ± 0.11	$\beta_{\rm SDSS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.786 ± 0.063 Gyr
τ	0.079 ± 0.012	θ_*	0.010393 ± 0.000014
θ_*	$0.59550^{+0.00080}_{-0.00079}$ ◦	$\tau_{\rm rec}$	282.6 ± 1.4
$t_{\rm reion}$	487 ± 68 Myr	t_*	373875^{+2372}_{-2374} yr
w	$-1.037^{+0.071}_{-0.070}$	z_d	$1019.70^{+0.80}_{-0.81}$
$z_{\rm eq}$	3318 ± 63	$z_{\rm rec}$	$1088.91^{+0.63}_{-0.62}$
$z_{\rm reion}$	10.0 ± 1.0	z_*	1091.94 ± 0.56

WMAP Cosmological Parameters

Model: wedm

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.500^{+0.077}_{-0.078}$	H_0	$71.0^{+1.4}_{-1.3}$ km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.9 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5736 ± 32 μK^2
$d_A(z_{\rm eq})$	14142 ± 72 Mpc	$d_A(z_*)$	13975^{+72}_{-73} Mpc
$D_v(z=0.57)/r_s(z_d)$	$13.37^{+0.11}_{-0.12}$	η	$(6.043^{+0.093}_{-0.094}) \times 10^{-10}$
$k_{\rm eq}$	0.01017 ± 0.00018	$\ell_{\rm eq}$	142.1 ± 1.9
ℓ_*	302.26 ± 0.40	n_b	$(2.482^{+0.038}_{-0.039}) \times 10^{-7}$ cm^{-3}
n_s	0.9564 ± 0.0088	$\Omega_{\rm b}$	0.0439 ± 0.0018
$\Omega_{\rm b}h^2$	$0.02210^{+0.00034}_{-0.00035}$	$\Omega_{\rm c}$	0.2329 ± 0.0090
$\Omega_{\rm c}h^2$	0.1172 ± 0.0025	Ω_Λ	0.723 ± 0.010
Ω_m	0.277 ± 0.010	$\Omega_m h^2$	0.1393 ± 0.0025
$r_s(z_d)$	$151.90^{+0.77}_{-0.78}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3478 ± 0.0051
$r_s(z_d)/D_v(z=0.2)$	0.1891 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1131 ± 0.0011
$r_s(z_d)/D_v(z=0.44)$	$0.09266^{+0.00086}_{-0.00087}$	$r_s(z_d)/D_v(z=0.54)$	0.07813 ± 0.00069
$r_s(z_d)/D_v(z=0.57)$	$0.07480^{+0.00065}_{-0.00064}$	$r_s(z_d)/D_v(z=0.6)$	0.07182 ± 0.00061
$r_s(z_d)/D_v(z=0.73)$	$0.06184^{+0.00051}_{-0.00050}$	$r_s(z_*)$	145.25 ± 0.68
R	$1.7399^{+0.0083}_{-0.0084}$	σ_8	0.850 ± 0.027
$\sigma_8\Omega_m^{0.5}$	0.447 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.393 ± 0.013
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.0 (95% CL)	t_0	13.759 ± 0.059 Gyr
τ	0.079 ± 0.011	θ_*	0.010394 ± 0.000014
θ_*	$0.59552^{+0.00078}_{-0.00080}$ °	$\tau_{\rm rec}$	282.3 ± 1.3
$t_{\rm reion}$	489^{+67}_{-68} Myr	t_*	373251^{+2258}_{-2266} yr
w	-1.084 ± 0.063	z_d	$1019.79^{+0.79}_{-0.81}$
$z_{\rm eq}$	3335 ± 60	$z_{\rm rec}$	1088.96 ± 0.63
$z_{\rm reion}$	9.9 ± 1.0	z_*	$1091.99^{+0.54}_{-0.56}$

W

$10^9\Delta^2_{\mathcal{R}}$	$2.47 \pm$
$\ell(\ell+1)C_{220}/(2\pi)$	5754 ± 3
$d_A(z_*)$	13972 ± 1
η	$(6.08 \pm 0.17$
$\ell_{\rm eq}$	$140.9 \pm$
$\sum m_\nu$	< 1.4 eV (
n_s	0.963^+
$\Omega_{\rm b}h^2$	0.02224^+
$\Omega_{\rm c}h^2$	$0.1156 \pm$
Ω_m	$0.17 < \Omega_m < 0$
$\Omega_\nu h^2$	< 0.015 (
$r_s(z_d)/D_v(z=0.106)$	0.318^+
$r_s(z_d)/D_v(z=0.35)$	$0.104 \pm$
$r_s(z_d)/D_v(z=0.54)$	0.0727^+
$r_s(z_d)/D_v(z=0.6)$	0.0671^+
$r_s(z_*)$	$145.2 \pm$
σ_8	0.69^+
$\sigma_8\Omega_m^{0.6}$	0.365^+
t_0	$14.23^{+0.}_{-0.}$
θ_*	0.010391^+
$\tau_{\rm rec}$	282.3
t_*	373168^+
z_d	1020.0
$z_{\rm rec}$	1088.9
z_*	1091.7

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+h0

$10^9 \Delta^2_{\mathcal{R}}$	2.51 ± 0.13	H_0	73.6 ± 2.4 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5754 \pm 37\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14138 ± 127 Mpc
$d_A(z_*)$	13972 ± 128 Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.80^{+0.58}_{-0.55}$
η	$(6.07 \pm 0.16) \times 10^{-10}$	$k_{\rm eq}$	$0.01013^{+0.00035}_{-0.00034}$
$\ell_{\rm eq}$	$141.4^{+3.7}_{-3.6}$	ℓ_*	$302.40^{+0.67}_{-0.66}$
$\sum m_\nu$	< 1.3 eV (95% CL)	$n_{\bar{b}}$	$(2.491 \pm 0.066) \times 10^{-7}$ cm^{-3}
n_s	0.959 ± 0.017	Ω_b	0.0411 ± 0.0029
$\Omega_b h^2$	0.02218 ± 0.00059	Ω_c	0.216 ± 0.017
$\Omega_c h^2$	$0.1163^{+0.0049}_{-0.0048}$	Ω_Λ	0.731 ± 0.022
Ω_m	0.269 ± 0.022	$\Omega_m h^2$	$0.1451^{+0.0074}_{-0.0073}$
$\Omega_\nu h^2$	< 0.014 (95% CL)	$r_s(z_d)$	151.8 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.351^{+0.012}_{-0.011}$	$r_s(z_d)/D_v(z=0.2)$	0.1881 ± 0.0069
$r_s(z_d)/D_v(z=0.35)$	$0.1107^{+0.0044}_{-0.0047}$	$r_s(z_d)/D_v(z=0.44)$	$0.0903^{+0.0037}_{-0.0039}$
$r_s(z_d)/D_v(z=0.54)$	$0.0759^{+0.0031}_{-0.0032}$	$r_s(z_d)/D_v(z=0.57)$	$0.0726^{+0.0029}_{-0.0030}$
$r_s(z_d)/D_v(z=0.6)$	$0.0697^{+0.0028}_{-0.0029}$	$r_s(z_d)/D_v(z=0.73)$	$0.0600^{+0.0022}_{-0.0023}$
$r_s(z_*)$	$145.2^{+1.2}_{-1.3}$	R	$1.774^{+0.034}_{-0.033}$
σ_8	$0.782^{+0.064}_{-0.063}$	$\sigma_8 \Omega_m^{0.5}$	0.405 ± 0.031
$\sigma_8 \Omega_m^{0.6}$	0.355 ± 0.027	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.96^{+0.22}_{-0.21}$ Gyr	τ	0.086 ± 0.013
θ_*	0.010389 ± 0.000023	θ_*	$0.5952 \pm 0.0013\ ^\circ$
$\tau_{\rm rec}$	282.1 ± 2.7	$t_{\rm reion}$	439^{+62}_{-64} Myr
t_*	372945^{+4826}_{-4821} yr	w	$-1.45^{+0.29}_{-0.31}$
z_d	$1019.9^{+1.2}_{-1.3}$	$z_{\rm eq}$	3316^{+113}_{-112}
$z_{\rm rec}$	1088.9 ± 1.0	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1091.8^{+1.1}_{-1.0}$		

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.444 ± 0.098	H_0	70.4 ± 3.4 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5751^{+36}_{-35} μK^2	$d_A(z_{\rm eq})$	14180^{+113}_{-112} Mpc
$d_A(z_*)$	14015^{+114}_{-113} Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.61^{+0.16}_{-0.15}$
η	$(6.13 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.01000 ± 0.00029
$\ell_{\rm eq}$	140.1 ± 3.1	ℓ_*	$302.36^{+0.64}_{-0.65}$
$\sum m_\nu$	< 0.81 eV (95% CL)	$n_{\rm \delta}$	$(2.519^{+0.054}_{-0.055}) \times 10^{-7}$ cm^{-3}
n_s	0.967 ± 0.012	Ω_b	$0.0456^{+0.0047}_{-0.0048}$
$\Omega_b h^2$	$0.02243^{+0.00048}_{-0.00049}$	Ω_c	0.232 ± 0.020
$\Omega_c h^2$	0.1144 ± 0.0040	Ω_Λ	0.714 ± 0.023
Ω_m	0.286 ± 0.023	$\Omega_m h^2$	$0.1411^{+0.0041}_{-0.0042}$
$\Omega_\nu h^2$	< 0.0086 (95% CL)	$r_s(z_d)$	152.2 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.344 ± 0.011	$r_s(z_d)/D_v(z=0.2)$	0.1863 ± 0.0040
$r_s(z_d)/D_v(z=0.35)$	0.1112 ± 0.0014	$r_s(z_d)/D_v(z=0.44)$	0.0910 ± 0.0010
$r_s(z_d)/D_v(z=0.54)$	$0.07676^{+0.00085}_{-0.00087}$	$r_s(z_d)/D_v(z=0.57)$	$0.07350^{+0.00083}_{-0.00084}$
$r_s(z_d)/D_v(z=0.6)$	$0.07057^{+0.00081}_{-0.00082}$	$r_s(z_d)/D_v(z=0.73)$	$0.06082^{+0.00075}_{-0.00076}$
$r_s(z_*)$	145.6 ± 1.1	R	1.755 ± 0.017
σ_8	$0.773^{+0.062}_{-0.060}$	$\sigma_8\Omega_m^{0.5}$	$0.412^{+0.031}_{-0.030}$
$\sigma_8\Omega_m^{0.6}$	0.364 ± 0.027	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.91 ± 0.12 Gyr	τ	0.088 ± 0.013
θ_*	0.010390 ± 0.000022	θ_*	0.5953 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	$283.4^{+2.1}_{-2.0}$	$t_{\rm reion}$	441 ± 63 Myr
t_*	375250^{+3551}_{-3477} yr	w	-1.17 ± 0.20
z_d	$1020.3^{+1.2}_{-1.1}$	$z_{\rm eq}$	3276 ± 96
$z_{\rm rec}$	1088.48 ± 0.74	$z_{\rm reion}$	10.7 ± 1.1
z_*	$1091.30^{+0.77}_{-0.76}$		

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.472^{+0.090}_{-0.091}$	H_0	72.6 ± 2.1 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5750^{+37}_{-36} μK^2	$d_A(z_{\rm eq})$	14150^{+105}_{-104} Mpc
$d_A(z_*)$	13984^{+106}_{-105} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.63 ± 0.16
η	$(6.11 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	$0.01010^{+0.00027}_{-0.00026}$
$\ell_{\rm eq}$	$141.2^{+2.8}_{-2.7}$	ℓ_*	302.40 ± 0.64
$\sum m_\nu$	< 0.86 eV (95% CL)	$n_{\rm b}$	$(2.509^{+0.052}_{-0.053}) \times 10^{-7}$ cm^{-3}
n_s	0.964 ± 0.012	$\Omega_{\rm b}$	0.0425 ± 0.0027
$\Omega_{\rm b}h^2$	$0.02234^{+0.00046}_{-0.00047}$	$\Omega_{\rm c}$	0.220 ± 0.013
$\Omega_{\rm c}h^2$	$0.1159^{+0.0037}_{-0.0036}$	Ω_Λ	0.728 ± 0.014
Ω_m	0.272 ± 0.014	$\Omega_m h^2$	0.1431 ± 0.0032
$\Omega_\nu h^2$	< 0.0091 (95% CL)	$r_s(z_d)$	151.8 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3506 ± 0.0066	$r_s(z_d)/D_v(z=0.2)$	$0.1888^{+0.0027}_{-0.0026}$
$r_s(z_d)/D_v(z=0.35)$	0.1117 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.0912 ± 0.0010
$r_s(z_d)/D_v(z=0.54)$	$0.07670^{+0.00089}_{-0.00091}$	$r_s(z_d)/D_v(z=0.57)$	$0.07339^{+0.00086}_{-0.00086}$
$r_s(z_d)/D_v(z=0.6)$	$0.07043^{+0.00083}_{-0.00084}$	$r_s(z_d)/D_v(z=0.73)$	$0.06058^{+0.00072}_{-0.00073}$
$r_s(z_*)$	145.28 ± 0.97	R	1.764 ± 0.012
σ_8	0.793 ± 0.060	$\sigma_8\Omega_m^{0.5}$	$0.413^{+0.032}_{-0.031}$
$\sigma_8\Omega_m^{0.6}$	$0.363^{+0.029}_{-0.028}$	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.90 ± 0.12 Gyr	τ	0.087 ± 0.013
θ_*	0.010389 ± 0.000022	θ_*	0.5952 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	282.6 ± 1.8	$t_{\rm reion}$	441 ± 62 Myr
t_*	373845^{+3010}_{-3043} yr	w	-1.29 ± 0.14
z_d	1020.2 ± 1.1	$z_{\rm eq}$	3308^{+89}_{-87}
$z_{\rm rec}$	1088.68 ± 0.69	$z_{\rm reion}$	10.6 ± 1.1
z_*	1091.54 ± 0.69		

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+spt+act

$10^9 \Delta^2_{\mathcal{R}}$	2.61 ± 0.12	H_0	69^{+14}_{-13} km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.1 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 15 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5759 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14074^{+111}_{-112} Mpc	$d_A(z_*)$	13908^{+112}_{-113} Mpc
$D_v(z=0.57)/r_s(z_d)$	$14.42^{+0.66}_{-0.68}$	η	$(5.93 \pm 0.12) \times 10^{-10}$
$k_{\rm eq}$	0.01027 ± 0.00030	$\ell_{\rm eq}$	142.9 ± 3.1
ℓ_*	302.06 ± 0.43	$\sum m_\nu$	< 1.5 eV (95% CL)
n_b	$2.4 < n_b < 2.5\ cm^{-3}$ (95% CL)	n_s	0.945 ± 0.013
Ω_b	$0.026 < \Omega_b < 0.083$ (95% CL)	$\Omega_b h^2$	$0.02170^{+0.00043}_{-0.00042}$
Ω_c	$0.14 < \Omega_c < 0.46$ (95% CL)	$\Omega_c h^2$	0.1187 ± 0.0042
Ω_Λ	$0.41 < \Omega_\Lambda < 0.82$ (95% CL)	Ω_m	$0.18 < \Omega_m < 0.59$ (95% CL)
$\Omega_m h^2$	$0.14 < \Omega_m h^2 < 0.16$ (95% CL)	$\Omega_\nu h^2$	< 0.016 (95% CL)
$r_s(z_d)$	151.4 ± 1.2 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.329^{+0.048}_{-0.047}$
$r_s(z_d)/D_v(z=0.2)$	$0.176^{+0.020}_{-0.019}$	$r_s(z_d)/D_v(z=0.35)$	$0.1047^{+0.0079}_{-0.0077}$
$r_s(z_d)/D_v(z=0.44)$	$0.0858^{+0.0052}_{-0.0051}$	$r_s(z_d)/D_v(z=0.54)$	$0.0725^{+0.0036}_{-0.0035}$
$r_s(z_d)/D_v(z=0.57)$	$0.0695^{+0.0033}_{-0.0032}$	$r_s(z_d)/D_v(z=0.6)$	$0.0668^{+0.0030}_{-0.0029}$
$r_s(z_d)/D_v(z=0.73)$	$0.0579^{+0.0021}_{-0.0020}$	$r_s(z_*)$	144.7 ± 1.1
R	$1.799^{+0.028}_{-0.030}$	σ_8	0.71 ± 0.11
$\sigma_8 \Omega_m^{0.5}$	0.404 ± 0.030	$\sigma_8 \Omega_m^{0.6}$	0.362 ± 0.039
$A_{\rm SZ}$	< 1.3 (95% CL)	t_0	$14.20^{+0.26}_{-0.27}$ Gyr
τ	0.082 ± 0.013	θ_*	0.010401 ± 0.000015
θ_s	$0.59592 \pm 0.00085\ ^\circ$	$\tau_{\rm rec}$	280.5 ± 2.5
$t_{\rm reion}$	433^{+63}_{-64} Myr	t_*	369894^{+4406}_{-4288} yr
w	< -0.57 (95% CL)	z_d	$1018.96^{+0.89}_{-0.88}$
$z_{\rm eq}$	3360^{+96}_{-95}	$z_{\rm rec}$	1089.73 ± 0.88
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1092.69^{+0.84}_{-0.86}$

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+spt+act+h0

$10^9\Delta^2_{\mathcal{R}}$	2.61 ± 0.12	H_0	73.6 ± 2.4 km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.0 ± 2.6
$A^{\rm SPT}_{\rm Poisson}$	> 15 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5759 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14075^{+110}_{-111} Mpc	$d_A(z_*)$	13909^{+111}_{-112} Mpc
$D_v(z=0.57)/r_s(z_d)$	$14.22^{+0.56}_{-0.58}$	η	$(5.93 \pm 0.12) \times 10^{-10}$
$k_{\rm eq}$	0.01027 ± 0.00029	$\ell_{\rm eq}$	$142.8^{+3.0}_{-3.1}$
ℓ_*	$302.06^{+0.44}_{-0.43}$	$\sum m_\nu$	< 1.5 eV (95% CL)
n_b	$(2.436^{+0.048}_{-0.047}) \times 10^{-7}$ cm^{-3}	n_s	0.944 ± 0.013
Ω_b	0.0401 ± 0.0027	$\Omega_b h^2$	$0.02169^{+0.00043}_{-0.00042}$
Ω_c	0.220 ± 0.016	$\Omega_c h^2$	0.1187 ± 0.0041
Ω_Λ	0.722 ± 0.022	Ω_m	0.278 ± 0.022
$\Omega_m h^2$	$0.1505^{+0.0068}_{-0.0072}$	$\Omega_\nu h^2$	< 0.016 (95% CL)
$r_s(z_d)$	$151.4^{+1.1}_{-1.2}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.346^{+0.012}_{-0.011}$
$r_s(z_d)/D_v(z=0.2)$	$0.1835^{+0.0071}_{-0.0069}$	$r_s(z_d)/D_v(z=0.35)$	$0.1074^{+0.0046}_{-0.0045}$
$r_s(z_d)/D_v(z=0.44)$	$0.0875^{+0.0038}_{-0.0036}$	$r_s(z_d)/D_v(z=0.54)$	$0.0736^{+0.0031}_{-0.0029}$
$r_s(z_d)/D_v(z=0.57)$	$0.0704^{+0.0029}_{-0.0027}$	$r_s(z_d)/D_v(z=0.6)$	$0.0676^{+0.0027}_{-0.0026}$
$r_s(z_d)/D_v(z=0.73)$	$0.0583^{+0.0021}_{-0.0020}$	$r_s(z_*)$	144.7 ± 1.1
R	$1.799^{+0.028}_{-0.030}$	σ_8	0.748 ± 0.049
$\sigma_8\Omega_m^{0.5}$	0.394 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.347 ± 0.020
$A_{\rm SZ}$	< 1.3 (95% CL)	t_0	$14.10^{+0.17}_{-0.18}$ Gyr
τ	0.081 ± 0.013	θ_*	0.010401 ± 0.000015
θ_*	$0.59592^{+0.00085}_{-0.00087}$ °	$\tau_{\rm rec}$	$280.6^{+2.5}_{-2.4}$
$t_{\rm reion}$	436^{+64}_{-65} Myr	t_*	369905^{+4429}_{-4332} yr
w	< -1.2 (95% CL)	z_d	$1018.94^{+0.89}_{-0.90}$
$z_{\rm eq}$	3359 ± 94	$z_{\rm rec}$	$1089.74^{+0.88}_{-0.89}$
$z_{\rm reion}$	10.5 ± 1.1	z_*	1092.69 ± 0.85

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+spt+act+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.492^{+0.088}_{-0.086}$	H_0	$71.2^{+3.6}_{-3.5}$ km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.6 ± 2.5
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5752^{+34}_{-35} μK^2
$d_A(z_{\rm eq})$	14179^{+82}_{-80} Mpc	$d_A(z_*)$	14014^{+82}_{-81} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.65 ± 0.16	η	$(6.028 \pm 0.099) \times 10^{-10}$
$k_{\rm eq}$	0.01000 ± 0.00022	$\ell_{\rm eq}$	140.1 ± 2.3
ℓ_*	$302.06^{+0.44}_{-0.41}$	$\sum m_\nu$	< 0.88 eV (95% CL)
n_b	$(2.476 \pm 0.041) \times 10^{-7}$ cm^{-3}	n_s	$0.9578^{+0.0095}_{-0.0096}$
Ω_b	0.0438 ± 0.0046	$\Omega_b h^2$	0.02205 ± 0.00036
Ω_c	$0.228^{+0.021}_{-0.020}$	$\Omega_c h^2$	$0.1148^{+0.0031}_{-0.0030}$
Ω_Λ	0.718 ± 0.023	Ω_m	0.282 ± 0.023
$\Omega_m h^2$	$0.1423^{+0.0036}_{-0.0037}$	$\Omega_\nu h^2$	< 0.0094 (95% CL)
$r_s(z_d)$	$152.45^{+0.88}_{-0.86}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.346 ± 0.011
$r_s(z_d)/D_v(z=0.2)$	0.1870 ± 0.0040	$r_s(z_d)/D_v(z=0.35)$	0.1111 ± 0.0014
$r_s(z_d)/D_v(z=0.44)$	0.0909 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	$0.07653^{+0.00087}_{-0.00089}$
$r_s(z_d)/D_v(z=0.57)$	$0.07326^{+0.00086}_{-0.00087}$	$r_s(z_d)/D_v(z=0.6)$	$0.07033^{+0.00083}_{-0.00085}$
$r_s(z_d)/D_v(z=0.73)$	0.06058 ± 0.00078	$r_s(z_*)$	$145.75^{+0.78}_{-0.80}$
R	1.763 ± 0.016	σ_8	$0.760^{+0.046}_{-0.047}$
$\sigma_8\Omega_m^{0.5}$	$0.403^{+0.024}_{-0.023}$	$\sigma_8\Omega_m^{0.6}$	0.355 ± 0.022
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.944 ± 0.088 Gyr
τ	0.084 ± 0.012	θ_*	$0.010401^{+0.000014}_{-0.000015}$
θ_*	$0.59591^{+0.00081}_{-0.00086}$ $^\circ$	$\tau_{\rm rec}$	283.2 ± 1.6
$t_{\rm reion}$	450^{+63}_{-64} Myr	t_*	374695^{+2703}_{-2740} yr
w	$-1.24^{+0.22}_{-0.21}$	z_d	$1019.44^{+0.84}_{-0.82}$
$z_{\rm eq}$	3276^{+72}_{-71}	$z_{\rm rec}$	1088.92 ± 0.67
$z_{\rm reion}$	10.5 ± 1.1	z_*	$1091.85^{+0.61}_{-0.63}$

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.510^{+0.082}_{-0.079}$	H_0	$72.9^{+2.1}_{-2.0}$ km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.5 ± 2.5
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5753^{+35}_{-34} μK^2
$d_A(z_{\rm eq})$	14161^{+74}_{-73} Mpc	$d_A(z_*)$	13996^{+75}_{-74} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.67 ± 0.16	η	$(6.014^{+0.098}_{-0.096}) \times 10^{-10}$
$k_{\rm eq}$	0.01005 ± 0.00020	$\ell_{\rm eq}$	$140.6^{+2.2}_{-2.1}$
ℓ_*	$302.07^{+0.44}_{-0.43}$	$\sum m_\nu$	0.58 ± 0.20 eV
$\sum m_\nu$	$0.18 < \sum m_\nu < 0.97\ eV$ (95% CL)	n_b	$(2.470^{+0.040}_{-0.039}) \times 10^{-7}$ cm^{-3}
n_s	$0.9558^{+0.0089}_{-0.0090}$	Ω_b	0.0415 ± 0.0025
$\Omega_b h^2$	$0.02200^{+0.00036}_{-0.00035}$	Ω_c	0.218 ± 0.012
$\Omega_c h^2$	0.1155 ± 0.0028	Ω_Λ	$0.729^{+0.014}_{-0.013}$
Ω_m	$0.271^{+0.013}_{-0.014}$	$\Omega_m h^2$	$0.1437^{+0.0028}_{-0.0027}$
$\Omega_\nu h^2$	$0.0061^{+0.0021}_{-0.0022}$	$\Omega_\nu h^2$	$0.0020 < \Omega_\nu h^2 < 0.0104$ (95% CL)
$r_s(z_d)$	$152.26^{+0.80}_{-0.79}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3516^{+0.0066}_{-0.0064}$
$r_s(z_d)/D_v(z=0.2)$	0.1889 ± 0.0026	$r_s(z_d)/D_v(z=0.35)$	0.1115 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0910 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	0.07646 ± 0.00089
$r_s(z_d)/D_v(z=0.57)$	0.07316 ± 0.00085	$r_s(z_d)/D_v(z=0.6)$	0.07020 ± 0.00082
$r_s(z_d)/D_v(z=0.73)$	0.06038 ± 0.00069	$r_s(z_*)$	$145.56^{+0.72}_{-0.71}$
R	$1.769^{+0.011}_{-0.012}$	σ_8	0.770 ± 0.044
$\sigma_8\Omega_m^{0.5}$	0.400 ± 0.023	$\sigma_8\Omega_m^{0.6}$	$0.351^{+0.021}_{-0.020}$
$A_{\rm SZ}$	< 1.2 (95% CL)	t_0	$13.942^{+0.088}_{-0.089}$ Gyr
τ	0.084 ± 0.012	θ_*	$0.010400^{+0.000014}_{-0.000015}$
θ_s	$0.59590^{+0.00061}_{-0.00067}$ °	$\tau_{\rm rec}$	282.7 ± 1.4
$t_{\rm reion}$	448^{+64}_{-65} Myr	t_*	373884^{+2550}_{-2580} yr
w	-1.34 ± 0.14	z_d	$1019.39^{+0.85}_{-0.84}$
$z_{\rm eq}$	3292^{+67}_{-66}	$z_{\rm rec}$	1089.03 ± 0.63
$z_{\rm reion}$	10.5 ± 1.1	z_*	$1091.98^{+0.56}_{-0.57}$

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.44 ± 0.11	H_0	69.8 ± 2.9 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5753 \pm 36\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14184 ± 118 Mpc
$d_A(z_*)$	14019^{+120}_{-119} Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.61^{+0.46}_{-0.44}$
η	$(6.13 \pm 0.15) \times 10^{-10}$	$k_{\rm eq}$	0.00998 ± 0.00032
$\ell_{\rm eq}$	139.9 ± 3.4	ℓ_*	302.35 ± 0.65
$\sum m_\nu$	< 1.0 eV (95% CL)	$n_{\rm b}$	$(2.518 \pm 0.061) \times 10^{-7}$ cm^{-3}
n_s	0.967 ± 0.014	$\Omega_{\rm b}$	0.0462 ± 0.0034
$\Omega_{\rm b}h^2$	0.02242 ± 0.00054	$\Omega_{\rm c}$	0.236 ± 0.025
$\Omega_{\rm c}h^2$	0.1142 ± 0.0045	Ω_Λ	0.709 ± 0.033
Ω_m	0.291 ± 0.033	$\Omega_m h^2$	$0.1411^{+0.0059}_{-0.0058}$
$\Omega_\nu h^2$	< 0.011 (95% CL)	$r_s(z_d)$	152.2 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.342^{+0.014}_{-0.015}$	$r_s(z_d)/D_v(z=0.2)$	$0.1859^{+0.0074}_{-0.0076}$
$r_s(z_d)/D_v(z=0.35)$	$0.1111^{+0.0041}_{-0.0042}$	$r_s(z_d)/D_v(z=0.44)$	$0.0911^{+0.0032}_{-0.0033}$
$r_s(z_d)/D_v(z=0.54)$	$0.0768^{+0.0025}_{-0.0026}$	$r_s(z_d)/D_v(z=0.57)$	$0.0736^{+0.0024}_{-0.0025}$
$r_s(z_d)/D_v(z=0.6)$	$0.0706^{+0.0022}_{-0.0023}$	$r_s(z_d)/D_v(z=0.73)$	0.0609 ± 0.0018
$r_s(z_*)$	145.7 ± 1.2	R	$1.756^{+0.027}_{-0.026}$
σ_8	$0.764^{+0.063}_{-0.064}$	$\sigma_8\Omega_m^{0.5}$	0.411 ± 0.029
$\sigma_8\Omega_m^{0.6}$	$0.363^{+0.026}_{-0.027}$	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	$13.91^{+0.20}_{-0.19}$ Gyr	τ	0.088 ± 0.014
θ_*	0.010391 ± 0.000022	θ_*	0.5953 ± 0.0013 °
$\tau_{\rm rec}$	283.5 ± 2.4	$t_{\rm reion}$	442 ± 63 Myr
t_*	375384^{+4267}_{-4283} yr	w	-1.15 ± 0.11
z_d	1020.2 ± 1.2	$z_{\rm eq}$	3270 ± 104
$z_{\rm rec}$	1088.48 ± 0.87	$z_{\rm reion}$	10.7 ± 1.1
z_*	1091.29 ± 0.93		

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.40 ± 0.10	H_0	72.2 ± 1.8 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5755 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14205^{+116}_{-115} Mpc
$d_A(z_*)$	14040 ± 117 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.31 ± 0.30
η	$(6.19 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	0.00989 ± 0.00031
$\ell_{\rm eq}$	138.9 ± 3.3	ℓ_*	302.22 ± 0.63
$\sum m_\nu$	< 0.67 eV (95% CL)	$n_{\rm h}$	$(2.542^{+0.066}_{-0.068}) \times 10^{-7}$ cm^{-3}
n_s	0.973 ± 0.013	Ω_b	0.0435 ± 0.0021
$\Omega_b h^2$	0.02264 ± 0.00049	Ω_c	0.217 ± 0.015
$\Omega_c h^2$	0.1128 ± 0.0043	Ω_Λ	0.734 ± 0.019
Ω_m	0.266 ± 0.019	$\Omega_m h^2$	0.1383 ± 0.0047
$\Omega_\nu h^2$	< 0.0071 (95% CL)	$r_s(z_d)$	152.4 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3535 ± 0.0093	$r_s(z_d)/D_v(z=0.2)$	0.1915 ± 0.0049
$r_s(z_d)/D_v(z=0.35)$	0.1141 ± 0.0028	$r_s(z_d)/D_v(z=0.44)$	0.0933 ± 0.0022
$r_s(z_d)/D_v(z=0.54)$	0.0785 ± 0.0018	$r_s(z_d)/D_v(z=0.57)$	0.0752 ± 0.0017
$r_s(z_d)/D_v(z=0.6)$	0.0721 ± 0.0016	$r_s(z_d)/D_v(z=0.73)$	0.0620 ± 0.0013
$r_s(z_*)$	145.9 ± 1.1	R	1.741 ± 0.019
σ_8	$0.795^{+0.050}_{-0.051}$	$\sigma_8\Omega_m^{0.5}$	0.410 ± 0.028
$\sigma_8\Omega_m^{0.6}$	0.359 ± 0.025	$\alpha_{\rm SNLS}$	1.44 ± 0.11
$\beta_{\rm SNLS}$	3.27 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.79 ± 0.13 Gyr	τ	0.090 ± 0.014
θ_*	0.010395 ± 0.000022	θ_*	$0.5956^{+0.0013}_{-0.0012}$ °
$\tau_{\rm rec}$	284.3 ± 2.3	$t_{\rm reion}$	444 ± 63 Myr
t_*	376937^{+3927}_{-3940} yr	w	-1.135 ± 0.089
z_d	1020.6 ± 1.1	$z_{\rm eq}$	3243^{+100}_{-101}
$z_{\rm rec}$	1088.12 ± 0.78	$z_{\rm reion}$	10.7 ± 1.1
z_*	$1090.88^{+0.82}_{-0.81}$		

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.439 ± 0.089	H_0	69.9 ± 1.6 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5749 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14184 ± 104 Mpc
$d_A(z_*)$	14018 ± 105 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.57 ± 0.14
η	$(6.14 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.00999 ± 0.00026
$\ell_{\rm eq}$	140.1 ± 2.7	ℓ_*	302.39 ± 0.62
$\sum m_\nu$	< 0.72 eV (95% CL)	$n_{\rm h}$	$(2.521^{+0.051}_{-0.050}) \times 10^{-7}$ cm^{-3}
n_s	0.968 ± 0.011	Ω_b	0.0459 ± 0.0022
$\Omega_b h^2$	0.02245 ± 0.00045	Ω_c	0.234 ± 0.011
$\Omega_c h^2$	0.1144 ± 0.0035	Ω_Λ	0.712 ± 0.012
Ω_m	0.288 ± 0.012	$\Omega_m h^2$	0.1407 ± 0.0030
$\Omega_\nu h^2$	< 0.0077 (95% CL)	$r_s(z_d)$	152.2 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3428 ± 0.0057	$r_s(z_d)/D_v(z=0.2)$	0.1862 ± 0.0026
$r_s(z_d)/D_v(z=0.35)$	0.1113 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.0913 ± 0.0010
$r_s(z_d)/D_v(z=0.54)$	$0.07698^{+0.00082}_{-0.00081}$	$r_s(z_d)/D_v(z=0.57)$	0.07371 ± 0.00077
$r_s(z_d)/D_v(z=0.6)$	$0.07079^{+0.00073}_{-0.00074}$	$r_s(z_d)/D_v(z=0.73)$	0.06100 ± 0.00061
$r_s(z_*)$	145.63 ± 0.96	R	1.753 ± 0.011
σ_8	0.775 ± 0.057	$\sigma_8\Omega_m^{0.5}$	$0.416^{+0.030}_{-0.029}$
$\sigma_8\Omega_m^{0.6}$	0.367 ± 0.026	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.89 ± 0.11 Gyr	τ	0.088 ± 0.013
θ_*	0.010389 ± 0.000021	θ_*	$0.5953 \pm 0.0012\ ^\circ$
$\tau_{\rm rec}$	283.4 ± 1.8	$t_{\rm reion}$	444^{+63}_{-64} Myr
t_*	375358 ± 3013 yr	w	$-1.128^{+0.064}_{-0.065}$
z_d	1020.3 ± 1.1	$z_{\rm eq}$	3276^{+85}_{-86}
$z_{\rm rec}$	$1088.44^{+0.67}_{-0.68}$	$z_{\rm reion}$	10.6 ± 1.1
z_*	1091.27 ± 0.67		

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+sn|s3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.445 ± 0.089	H_0	71.1 ± 1.3 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5749 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14157^{+102}_{-101} Mpc
$d_A(z_*)$	13991 ± 103 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.54 ± 0.14
η	$(6.15 \pm 0.12) \times 10^{-10}$	$k_{\rm eq}$	0.01006 ± 0.00025
$\ell_{\rm eq}$	140.7 ± 2.6	ℓ_*	302.34 ± 0.62
$\sum m_\nu$	< 0.70 eV (95% CL)	$n_{\rm b}$	$(2.526 \pm 0.050) \times 10^{-7}$ cm^{-3}
n_s	0.968 ± 0.011	$\Omega_{\rm b}$	0.0445 ± 0.0018
$\Omega_{\rm b}h^2$	0.02249 ± 0.00045	$\Omega_{\rm c}$	$0.2280^{+0.0096}_{-0.0094}$
$\Omega_{\rm c}h^2$	0.1153 ± 0.0035	Ω_Λ	0.720 ± 0.011
Ω_m	0.280 ± 0.011	$\Omega_m h^2$	0.1414 ± 0.0029
$\Omega_\nu h^2$	< 0.0074 (95% CL)	$r_s(z_d)$	151.9 ± 1.1 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3467^{+0.0060}_{-0.0049}$	$r_s(z_d)/D_v(z=0.2)$	0.1878 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	0.1119 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09158 ± 0.00098
$r_s(z_d)/D_v(z=0.54)$	0.07716 ± 0.00081	$r_s(z_d)/D_v(z=0.57)$	0.07386 ± 0.00077
$r_s(z_d)/D_v(z=0.6)$	0.07091 ± 0.00073	$r_s(z_d)/D_v(z=0.73)$	$0.06105^{+0.00061}_{-0.00060}$
$r_s(z_*)$	$145.38^{+0.94}_{-0.93}$	R	1.755 ± 0.010
σ_8	$0.794^{+0.057}_{-0.056}$	$\sigma_8\Omega_m^{0.5}$	0.420 ± 0.029
$\sigma_8\Omega_m^{0.6}$	0.369 ± 0.026	$\alpha_{\rm SNLS}$	1.44 ± 0.11
$\beta_{\rm SNLS}$	3.27 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.86 ± 0.11 Gyr	τ	0.088 ± 0.013
θ_*	0.010391 ± 0.000021	θ_*	$0.5953 \pm 0.0012\ ^\circ$
$\tau_{\rm rec}$	283.0 ± 1.7	$t_{\rm reion}$	444 ± 63 Myr
t_*	374607^{+2938}_{-2918} yr	w	-1.171 ± 0.078
z_d	1020.5 ± 1.1	$z_{\rm eq}$	3297 ± 83
$z_{\rm rec}$	$1088.45^{+0.67}_{-0.68}$	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1091.29^{+0.66}_{-0.67}$		

WMAP Cosmological Parameters

Model: wedm+mnu

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.52 ± 0.11	H_0	68.6 ± 3.1 km/s/Mpc
$A_{\rm clustered}$	< 12 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.4 ± 2.5
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5755 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14152^{+104}_{-103} Mpc	$d_A(z_*)$	13987^{+105}_{-104} Mpc
$D_v(z=0.57)/r_s(z_d)$	$13.86^{+0.53}_{-0.54}$	η	$(6.00 \pm 0.12) \times 10^{-10}$
$k_{\rm eq}$	0.01007 ± 0.00028	$\ell_{\rm eq}$	140.8 ± 3.0
ℓ_*	302.05 ± 0.42	$\sum m_\nu$	< 1.2 eV (95% CL)
n_b	$(2.466 \pm 0.048) \times 10^{-7}$ cm^{-3}	n_s	0.954 ± 0.012
Ω_b	0.0469 ± 0.0038	$\Omega_b h^2$	$0.02196^{+0.00042}_{-0.00043}$
Ω_c	0.248 ± 0.028	$\Omega_c h^2$	0.1157 ± 0.0040
Ω_Λ	$0.690^{+0.039}_{-0.040}$	Ω_m	$0.310^{+0.040}_{-0.039}$
$\Omega_m h^2$	$0.1444^{+0.0066}_{-0.0067}$	$\Omega_\nu h^2$	< 0.013 (95% CL)
$r_s(z_d)$	152.2 ± 1.1 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.335 ± 0.016
$r_s(z_d)/D_v(z=0.2)$	0.1821 ± 0.0085	$r_s(z_d)/D_v(z=0.35)$	$0.1089^{+0.0048}_{-0.0047}$
$r_s(z_d)/D_v(z=0.44)$	$0.0893^{+0.0038}_{-0.0037}$	$r_s(z_d)/D_v(z=0.54)$	$0.0754^{+0.0030}_{-0.0029}$
$r_s(z_d)/D_v(z=0.57)$	0.0723 ± 0.0028	$r_s(z_d)/D_v(z=0.6)$	0.0694 ± 0.0026
$r_s(z_d)/D_v(z=0.73)$	$0.0599^{+0.0021}_{-0.0020}$	$r_s(z_*)$	$145.5^{+1.1}_{-1.0}$
R	$1.772^{+0.030}_{-0.031}$	σ_8	$0.734^{+0.060}_{-0.059}$
$\sigma_8\Omega_m^{0.5}$	0.406 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.361 ± 0.020
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.2 (95% CL)	t_0	$14.02^{+0.20}_{-0.21}$ Gyr
τ	0.084 ± 0.013	θ_*	$0.010401^{+0.000044}_{-0.000045}$
θ_s	0.59593 ± 0.00083 °	$\tau_{\rm rec}$	282.5 ± 2.3
$t_{\rm reion}$	444 ± 64 Myr	t_*	373485^{+4137}_{-4107} yr
w	-1.21 ± 0.13	z_d	1019.31 ± 0.88
$z_{\rm eq}$	3296^{+91}_{-92}	$z_{\rm rec}$	1089.13 ± 0.83
$z_{\rm reion}$	10.5 ± 1.1	z_*	1092.06 ± 0.82

WMAP Cosmological Parameters

Model: wedm+mnu

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.460 ± 0.091	H_0	71.9 ± 1.9 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.6 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5753 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14207 ± 91 Mpc	$d_A(z_*)$	14042 ± 92 Mpc
$D_v(z=0.57)/r_s(z_d)$	$13.39^{+0.35}_{-0.34}$	η	$(6.07 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00991 ± 0.00025	$\ell_{\rm eq}$	139.1 ± 2.7
ℓ_*	301.99 ± 0.41	$\sum m_\nu$	< 0.80 eV (95% CL)
n_b	$(2.493^{+0.043}_{-0.042}) \times 10^{-7}$ cm^{-3}	n_s	0.962 ± 0.010
Ω_b	0.0431 ± 0.0022	$\Omega_b h^2$	0.02220 ± 0.00038
Ω_c	0.220 ± 0.015	$\Omega_c h^2$	$0.1134^{+0.0036}_{-0.0035}$
Ω_Λ	0.729 ± 0.021	Ω_m	0.271 ± 0.021
$\Omega_m h^2$	$0.1393^{+0.0049}_{-0.0048}$	$\Omega_\nu h^2$	< 0.0086 (95% CL)
$r_s(z_d)$	$152.74^{+0.99}_{-1.00}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3520^{+0.0100}_{-0.0101}$
$r_s(z_d)/D_v(z=0.2)$	$0.1905^{+0.0053}_{-0.0054}$	$r_s(z_d)/D_v(z=0.35)$	$0.1134^{+0.0031}_{-0.0032}$
$r_s(z_d)/D_v(z=0.44)$	0.0927 ± 0.0025	$r_s(z_d)/D_v(z=0.54)$	$0.0781^{+0.0020}_{-0.0021}$
$r_s(z_d)/D_v(z=0.57)$	0.0747 ± 0.0019	$r_s(z_d)/D_v(z=0.6)$	0.0717 ± 0.0018
$r_s(z_d)/D_v(z=0.73)$	$0.0617^{+0.0014}_{-0.0015}$	$r_s(z_*)$	$146.08^{+0.92}_{-0.93}$
R	$1.748^{+0.022}_{-0.021}$	σ_8	$0.781^{+0.044}_{-0.045}$
$\sigma_8\Omega_m^{0.5}$	0.405 ± 0.021	$\sigma_8\Omega_m^{0.6}$	0.356 ± 0.019
$\alpha_{\rm SNLS}$	1.44 ± 0.11	$\beta_{\rm SNLS}$	3.27 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.84^{+0.14}_{-0.13}$ Gyr
τ	0.086 ± 0.013	θ_*	0.010403 ± 0.000014
θ_*	0.59604 ± 0.00081 °	$\tau_{\rm rec}$	284.0 ± 1.9
$t_{\rm reion}$	453^{+63}_{-65} Myr	t_*	376253^{+3397}_{-3410} yr
w	-1.17 ± 0.10	z_d	1019.67 ± 0.83
$z_{\rm eq}$	3247 ± 82	$z_{\rm rec}$	1088.63 ± 0.70
$z_{\rm reion}$	10.5 ± 1.1	z_*	$1091.52^{+0.68}_{-0.70}$

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+spt+act+sqls3+bao

$10^9\Delta^2_{\mathcal{R}}$	$2.481^{+0.078}_{-0.077}$	H_0	69.8 ± 1.5 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.6 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5750 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14190 ± 75 Mpc	$d_A(z_*)$	14024 ± 76 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.59 ± 0.15	η	$(6.043 \pm 0.093) \times 10^{-10}$
$k_{\rm eq}$	0.00997 ± 0.00020	$\ell_{\rm eq}$	139.8 ± 2.1
ℓ_*	302.05 ± 0.41	$\sum m_\nu$	< 0.75 eV (95% CL)
n_b	$(2.482 \pm 0.038) \times 10^{-7}$ cm^{-3}	n_s	0.9594 ± 0.0086
Ω_b	0.0454 ± 0.0021	$\Omega_b h^2$	0.02210 ± 0.00034
Ω_c	0.235 ± 0.011	$\Omega_c h^2$	$0.1144^{+0.0027}_{-0.0028}$
Ω_Λ	0.710 ± 0.013	Ω_m	0.290 ± 0.013
$\Omega_m h^2$	$0.1411^{+0.0027}_{-0.0026}$	$\Omega_\nu h^2$	< 0.0080 (95% CL)
$r_s(z_d)$	152.55 ± 0.82 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3427 ± 0.0057
$r_s(z_d)/D_v(z=0.2)$	0.1860 ± 0.0026	$r_s(z_d)/D_v(z=0.35)$	0.1112 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0911 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	0.07684 ± 0.00084
$r_s(z_d)/D_v(z=0.57)$	$0.07357^{+0.00080}_{-0.00079}$	$r_s(z_d)/D_v(z=0.6)$	$0.07065^{+0.00076}_{-0.00075}$
$r_s(z_d)/D_v(z=0.73)$	0.06090 ± 0.00063	$r_s(z_*)$	145.86 ± 0.73
R	1.757 ± 0.011	σ_8	0.758 ± 0.044
$\sigma_8\Omega_m^{0.5}$	0.408 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.360 ± 0.020
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.925 ± 0.090 Gyr
τ	0.085 ± 0.013	θ_*	0.010401 ± 0.000014
θ_s	$0.59592 \pm 0.00081\ ^\circ$	$\tau_{\rm rec}$	283.5 ± 1.4
$t_{\rm reion}$	450^{+64}_{-65} Myr	t_*	375243^{+2371}_{-2365} yr
w	-1.149 ± 0.087	z_d	1019.53 ± 0.82
$z_{\rm eq}$	3267 ± 66	$z_{\rm rec}$	$1088.81^{+0.62}_{-0.61}$
$z_{\rm reion}$	10.5 ± 1.1	z_*	1091.73 ± 0.54

WMAP Cosmological Parameters

Model: wcdm+mnu

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.486 ± 0.078	H_0	71.0 ± 1.3 km/s/Mpc
$A_{\rm clustered}$	< 11 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.6 ± 2.4
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5750 \pm 34\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14176 ± 74 Mpc	$d_A(z_*)$	14010 ± 75 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.56 ± 0.15	η	$(6.049 \pm 0.092) \times 10^{-10}$
$k_{\rm eq}$	0.0100 ± 0.00020	$\ell_{\rm eq}$	140.2 ± 2.1
ℓ_*	302.04 ± 0.41	$\sum m_\nu$	< 0.74 eV (95% CL)
$n_{\rm b}$	$(2.484 \pm 0.038) \times 10^{-7}$ cm^{-3}	n_s	$0.9592^{+0.0085}_{-0.0086}$
$\Omega_{\rm b}$	0.0439 ± 0.0017	$\Omega_{\rm b}h^2$	0.02212 ± 0.00034
$\Omega_{\rm c}$	0.2280 ± 0.0092	$\Omega_{\rm c}h^2$	0.1149 ± 0.0027
Ω_Λ	0.719 ± 0.011	Ω_m	0.281 ± 0.011
$\Omega_m h^2$	$0.1416^{+0.0025}_{-0.0026}$	$\Omega_\nu h^2$	< 0.0079 (95% CL)
$r_s(z_d)$	$152.39^{+0.81}_{-0.80}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3468 ± 0.0050
$r_s(z_d)/D_v(z=0.2)$	0.1877 ± 0.0024	$r_s(z_d)/D_v(z=0.35)$	0.1118 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0914 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	$0.07703^{+0.00083}_{-0.00084}$
$r_s(z_d)/D_v(z=0.57)$	0.07374 ± 0.00079	$r_s(z_d)/D_v(z=0.6)$	$0.07079^{+0.00075}_{-0.00076}$
$r_s(z_d)/D_v(z=0.73)$	$0.06095^{+0.00062}_{-0.00063}$	$r_s(z_*)$	$145.72^{+0.72}_{-0.71}$
R	1.758 ± 0.010	σ_8	0.771 ± 0.044
$\sigma_8\Omega_m^{0.5}$	0.409 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.360 ± 0.020
$\alpha_{\rm SNLS}$	1.44 ± 0.11	$\beta_{\rm SNLS}$	3.27 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.900^{+0.088}_{-0.087}$ Gyr
τ	0.084 ± 0.013	θ_*	0.010401 ± 0.000014
θ_*	0.59596 ± 0.00081 °	$\tau_{\rm rec}$	283.2 ± 1.4
$t_{\rm reion}$	451^{+64}_{-65} Myr	t_*	374814^{+2288}_{-2300} yr
w	-1.194 ± 0.081	z_d	1019.62 ± 0.81
$z_{\rm eq}$	3279 ± 65	$z_{\rm rec}$	$1088.82^{+0.62}_{-0.61}$
$z_{\rm reion}$	10.5 ± 1.1	z_*	$1091.75^{+0.63}_{-0.64}$

WMAP Cosmological Parameters

Model: owcdm

Data: wmap9

$10^9\Delta^2_{\mathcal{R}}$	2.42 ± 0.12	H_0	$37 < H_0 < 84$ $km/s/Mpc$ (95% CL)
$\ell(\ell+1)C_{220}/(2\pi)$	5748 ± 35 μK^2	$d_A(z_{\rm eq})$	14168 ± 124 Mpc
$d_A(z_*)$	14022^{+122}_{-121} Mpc	$D_v(z=0.57)/r_s(z_d)$	15.9 ± 2.2
η	$(6.17 \pm 0.15) \times 10^{-10}$	$k_{\rm eq}$	$0.00999^{+0.00035}_{-0.00034}$
$\ell_{\rm eq}$	$140.1^{+3.8}_{-3.8}$	ℓ_*	$302.42^{+0.67}_{-0.66}$
n_δ	$(2.535^{+0.053}_{-0.052}) \times 10^{-7}$ cm^{-3}	n_s	$0.971^{+0.015}_{-0.016}$
Ω_b	$0.032 < \Omega_b < 0.167$ (95% CL)	$\Omega_b h^2$	$0.02257^{+0.00056}_{-0.00055}$
Ω_c	$0.16 < \Omega_c < 0.88$ (95% CL)	$\Omega_c h^2$	$0.1143^{+0.0050}_{-0.0049}$
Ω_k	$-0.052^{+0.051}_{-0.054}$	Ω_k	$-0.228 < \Omega_k < 0.021$ (95% CL)
Ω_Λ	< 0.81 (95% CL)	Ω_m	$0.19 < \Omega_m < 1.04$ (95% CL)
$\Omega_m h^2$	$0.13 < \Omega_m h^2 < 0.14$ (95% CL)	$\Omega_{\rm tot}$	$1.052^{+0.054}_{-0.051}$
$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.23$ (95% CL)	$r_s(z_d)$	152.2 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.276^{+0.083}_{-0.058}$	$r_s(z_d)/D_v(z=0.2)$	$0.153^{+0.031}_{-0.029}$
$r_s(z_d)/D_v(z=0.35)$	$0.094^{+0.016}_{-0.015}$	$r_s(z_d)/D_v(z=0.44)$	0.078 ± 0.012
$r_s(z_d)/D_v(z=0.54)$	$0.0668^{+0.0093}_{-0.0094}$	$r_s(z_d)/D_v(z=0.57)$	$0.0642^{+0.0087}_{-0.0089}$
$r_s(z_d)/D_v(z=0.6)$	$0.0619^{+0.0082}_{-0.0084}$	$r_s(z_d)/D_v(z=0.73)$	$0.0541^{+0.0065}_{-0.0067}$
$r_s(z_*)$	145.7 ± 1.2	R	1.730 ± 0.018
σ_8	0.75 ± 0.13	$\sigma_8\Omega_m^{0.5}$	$0.52^{+0.11}_{-0.10}$
$\sigma_8\Omega_m^{0.6}$	0.49 ± 0.12	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	15.3 ± 1.4 Gyr	τ	0.087 ± 0.014
θ_*	0.010388 ± 0.000023	θ_*	0.5952 ± 0.0013 $^\circ$
$\tau_{\rm rec}$	$283.6^{+2.5}_{-2.6}$	$t_{\rm reion}$	458^{+68}_{-69} Myr
t_*	375840^{+4413}_{-4505} yr	w	> -2.1 (95% CL)
z_d	1020.6 ± 1.1	$z_{\rm eq}$	3276^{+116}_{-112}
$z_{\rm rec}$	$1088.27^{+0.89}_{-0.88}$	$z_{\rm reion}$	10.5 ± 1.2
z_*	$1091.10^{+0.99}_{-0.98}$		

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.42^{+0.12}_{-0.11}$	H_0	$73.4^{+2.3}_{-2.4}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5746 ± 34 μK^2	$d_A(z_{\rm eq})$	14178^{+118}_{-114} Mpc
$d_A(z_*)$	14016^{+119}_{-114} Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.6^{+1.2}_{-1.0}$
η	$(6.18^{+0.16}_{-0.15}) \times 10^{-10}$	$k_{\rm eq}$	$0.01000^{+0.00031}_{-0.00032}$
$\ell_{\rm eq}$	$140.1^{+3.5}_{-3.4}$	ℓ_*	$302.37^{+0.67}_{-0.66}$
n_b	$(2.539^{+0.064}_{-0.060}) \times 10^{-7}$ cm^{-3}	n_s	$0.971^{+0.014}_{-0.015}$
$\Omega_b h^2$	$0.02261^{+0.00057}_{-0.00054}$	$\Omega_c h^2$	$0.1144^{+0.0045}_{-0.0044}$
Ω_k	$-0.003^{+0.014}_{-0.015}$	Ω_k	$-0.029 < \Omega_k < 0.030$ (95% CL)
Ω_Λ	$0.748^{+0.021}_{-0.022}$	$\Omega_m h^2$	$0.1370^{+0.0042}_{-0.0044}$
$\Omega_{\rm tot}$	$1.003^{+0.015}_{-0.014}$	$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.03$ (95% CL)
$r_s(z_d)$	$152.1^{+1.3}_{-1.2}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.354^{+0.014}_{-0.015}$
$r_s(z_d)/D_v(z=0.2)$	$0.1906^{+0.0100}_{-0.0113}$	$r_s(z_d)/D_v(z=0.35)$	$0.1128^{+0.0076}_{-0.0087}$
$r_s(z_d)/D_v(z=0.44)$	$0.0920^{+0.0067}_{-0.0076}$	$r_s(z_d)/D_v(z=0.54)$	$0.0774^{+0.0059}_{-0.0067}$
$r_s(z_d)/D_v(z=0.57)$	$0.0741^{+0.0056}_{-0.0065}$	$r_s(z_d)/D_v(z=0.6)$	$0.0711^{+0.0054}_{-0.0063}$
$r_s(z_d)/D_v(z=0.73)$	$0.0611^{+0.0047}_{-0.0054}$	$r_s(z_*)$	$145.6^{+1.2}_{-1.1}$
R	1.730 ± 0.016	σ_8	$0.880^{+0.103}_{-0.095}$
$\sigma_8\Omega_m^{0.5}$	$0.444^{+0.056}_{-0.049}$	$\sigma_8\Omega_m^{0.6}$	$0.387^{+0.050}_{-0.044}$
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$13.94^{+0.83}_{-0.78}$ Gyr
τ	0.089 ± 0.014	θ_*	0.010390 ± 0.000023
θ_*	0.5953 ± 0.0013 $^\circ$	$\tau_{\rm rec}$	283.6 ± 2.3
$t_{\rm reion}$	453^{+63}_{-66} Myr	t_*	375815^{+4047}_{-4059} yr
w	$-1.29^{+0.38}_{-0.45}$	$z_{\rm d}$	$1020.7^{+1.2}_{-1.1}$
$z_{\rm eq}$	3279^{+101}_{-105}	$z_{\rm rec}$	1088.26 ± 0.85
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1091.06^{+0.93}_{-0.94}$

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+bao

$10^9\Delta^2_{\mathcal{R}}$	2.42 ± 0.11	H_0	$69.2^{+3.4}_{-3.6}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5749 ± 35 μK^2	$d_A(z_{\rm eq})$	14185 ± 110 Mpc
$d_A(z_*)$	14022^{+117}_{-110} Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.57^{+0.19}_{-0.17}$
η	$(6.19^{+0.14}_{-0.13}) \times 10^{-10}$	$k_{\rm eq}$	0.00997 ± 0.00031
$\ell_{\rm eq}$	$139.8^{+3.3}_{-3.5}$	ℓ_*	$302.34^{+0.60}_{-0.61}$
n_b	$(2.542^{+0.056}_{-0.054}) \times 10^{-7}$ cm^{-3}	n_s	0.971 ± 0.012
Ω_b	$0.0477^{+0.0053}_{-0.0049}$	$\Omega_b h^2$	$0.02264^{+0.00050}_{-0.00048}$
Ω_c	$0.240^{+0.024}_{-0.023}$	$\Omega_c h^2$	$0.1140^{+0.0044}_{-0.0047}$
Ω_k	$-0.0033^{+0.0070}_{-0.0060}$	Ω_k	$-0.013 < \Omega_k < 0.064$ (95% CL)
Ω_Λ	$0.716^{+0.031}_{-0.033}$	$\Omega_m h^2$	$0.1367^{+0.0042}_{-0.0043}$
$\Omega_{\rm tot}$	$1.0033^{+0.0060}_{-0.0070}$	$\Omega_{\rm tot}$	$0.94 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	$152.2^{+1.3}_{-1.2}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.340^{+0.011}_{-0.012}$
$r_s(z_d)/D_v(z=0.2)$	$0.1853^{+0.0040}_{-0.0044}$	$r_s(z_d)/D_v(z=0.35)$	$0.1111^{+0.0014}_{-0.0015}$
$r_s(z_d)/D_v(z=0.44)$	$0.0912^{+0.0010}_{-0.0011}$	$r_s(z_d)/D_v(z=0.54)$	$0.0770^{+0.0016}_{-0.0010}$
$r_s(z_d)/D_v(z=0.57)$	$0.0737^{+0.0017}_{-0.0010}$	$r_s(z_d)/D_v(z=0.6)$	$0.0708^{+0.0018}_{-0.0010}$
$r_s(z_d)/D_v(z=0.73)$	$0.06106^{+0.00098}_{-0.00100}$	$r_s(z_*)$	$145.7^{+1.2}_{-1.1}$
R	$1.729^{+0.015}_{-0.016}$	σ_8	$0.832^{+0.064}_{-0.069}$
$\sigma_8\Omega_m^{0.5}$	$0.444^{+0.021}_{-0.022}$	$\sigma_8\Omega_m^{0.6}$	$0.392^{+0.018}_{-0.019}$
$A_{\rm SZ}$	< 2.0 (95% CL)	t_0	$13.93^{+0.22}_{-0.21}$ Gyr
τ	$0.089^{+0.013}_{-0.014}$	θ_*	$0.010391^{+0.000021}_{-0.000020}$
θ_*	0.5954 ± 0.0012 °	$\tau_{\rm rec}$	$283.8^{+2.4}_{-2.3}$
$t_{\rm reion}$	454^{+62}_{-61} Myr	t_*	376152^{+4235}_{-3974} yr
w	$-1.05^{+0.21}_{-0.19}$	z_d	1020.7 ± 1.1
$z_{\rm eq}$	3271^{+101}_{-103}	$z_{\rm rec}$	$1088.17^{+0.79}_{-0.83}$
$z_{\rm reion}$	10.6 ± 1.1	z_*	$1090.99^{+0.83}_{-0.81}$

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.45 ± 0.11	H_0	$72.3^{+1.9}_{-2.1}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	5747^{+36}_{-35} μK^2	$d_A(z_{\rm eq})$	14155^{+105}_{-91} Mpc
$d_A(z_*)$	13995^{+109}_{-95} Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.62^{+0.19}_{-0.17}$
η	$(6.17 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	$0.01007^{+0.00026}_{-0.00033}$
$\ell_{\rm eq}$	$140.8^{+2.8}_{-3.5}$	ℓ_*	$302.37^{+0.66}_{-0.80}$
n_b	$(2.534^{+0.053}_{-0.052}) \times 10^{-7}$ cm^{-3}	n_s	$0.969^{+0.012}_{-0.013}$
$\Omega_b h^2$	0.02257 ± 0.00047	$\Omega_c h^2$	$0.1153^{+0.0056}_{-0.0046}$
Ω_k	$-0.0060^{+0.0097}_{-0.0044}$	Ω_k	$-0.014 < \Omega_k < 0.064$ (95% CL)
Ω_Λ	$0.741^{+0.036}_{-0.049}$	$\Omega_m h^2$	$0.1379^{+0.0036}_{-0.0045}$
$\Omega_{\rm tot}$	$1.0060^{+0.0044}_{-0.0097}$	$\Omega_{\rm tot}$	$0.94 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	$151.9^{+1.1}_{-1.0}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3500^{+0.0060}_{-0.0064}$
$r_s(z_d)/D_v(z=0.35)$	0.1118 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	$0.0913^{+0.0010}_{-0.0011}$
$r_s(z_d)/D_v(z=0.54)$	$0.0767^{+0.0018}_{-0.0010}$	$r_s(z_d)/D_v(z=0.57)$	$0.0734^{+0.0020}_{-0.0010}$
$r_s(z_d)/D_v(z=0.6)$	$0.0704^{+0.0022}_{-0.0010}$	$r_s(z_d)/D_v(z=0.73)$	$0.06054^{+0.00080}_{-0.00088}$
$r_s(z_*)$	$145.41^{+1.09}_{-0.98}$	R	$1.733^{+0.013}_{-0.016}$
σ_8	$0.885^{+0.040}_{-0.043}$	$\sigma_8\Omega_m^{0.5}$	$0.455^{+0.017}_{-0.020}$
$\sigma_8\Omega_m^{0.6}$	$0.398^{+0.015}_{-0.019}$	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	14.00 ± 0.19 Gyr	τ	0.088 ± 0.014
θ_*	$0.010390^{+0.000021}_{-0.000023}$	θ_*	$0.5953^{+0.0012}_{-0.0013}$ °
$\tau_{\rm rec}$	$283.1^{+2.4}_{-2.0}$	$t_{\rm reion}$	454^{+61}_{-64} Myr
t_*	374954^{+4034}_{-3294} yr	w	-1.22 ± 0.12
z_d	$1020.68^{+0.98}_{-1.02}$	$z_{\rm eq}$	3301^{+85}_{-107}
$z_{\rm rec}$	$1088.34^{+0.76}_{-0.78}$	$z_{\rm reion}$	$10.6^{+1.2}_{-1.1}$
z_*	$1091.20^{+0.83}_{-0.79}$		

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+spt+act+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.436^{+0.087}_{-0.086}$	H_0	71.7 ± 2.0 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5751 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14221^{+88}_{-89} Mpc	$d_A(z_*)$	14062 ± 92 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.57 ± 0.17	η	$(6.09 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00988 ± 0.00026	$\ell_{\rm eq}$	138.9 ± 2.8
ℓ_*	302.08 ± 0.42	n_b	$(2.500^{+0.041}_{-0.042}) \times 10^{-7}$ cm^{-3}
n_s	0.9624 ± 0.0097	Ω_b	0.0434 ± 0.0026
$\Omega_b h^2$	0.02226 ± 0.00037	Ω_c	0.220 ± 0.014
$\Omega_c h^2$	0.1131 ± 0.0037	Ω_k	$-0.0072^{+0.0042}_{-0.0043}$
Ω_k	$-0.0150 < \Omega_k < 0.0020$ (95% CL)	Ω_Λ	$0.743^{+0.018}_{-0.019}$
Ω_m	0.264 ± 0.016	$\Omega_m h^2$	0.1353 ± 0.0036
$\Omega_{\rm tot}$	$1.0072^{+0.0043}_{-0.0042}$	$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.9 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.3504 ± 0.0069
$r_s(z_d)/D_v(z=0.2)$	0.1892 ± 0.0027	$r_s(z_d)/D_v(z=0.35)$	0.1122 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	0.0916 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	0.07705 ± 0.00093
$r_s(z_d)/D_v(z=0.57)$	0.07371 ± 0.00091	$r_s(z_d)/D_v(z=0.6)$	0.07073 ± 0.00089
$r_s(z_d)/D_v(z=0.73)$	$0.06078^{+0.00083}_{-0.00082}$	$r_s(z_*)$	146.25 ± 0.94
R	1.725 ± 0.013	σ_8	0.858 ± 0.035
$\sigma_8\Omega_m^{0.5}$	0.440 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.385 ± 0.014
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	14.07 ± 0.20 Gyr
τ	0.082 ± 0.012	θ_*	0.010400 ± 0.000014
θ_*	$0.59587 \pm 0.00083\ ^\circ$	$\tau_{\rm rec}$	284.4 ± 1.9
$t_{\rm reion}$	490^{+66}_{-69} Myr	t_*	377054^{+3358}_{-3362} yr
w	-1.19 ± 0.12	z_d	1019.77 ± 0.82
$z_{\rm eq}$	3239^{+86}_{-85}	$z_{\rm rec}$	$1088.49^{+0.69}_{-0.68}$
$z_{\rm reion}$	10.0 ± 1.0	z_*	1091.40 ± 0.67

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.39 ± 0.11	H_0	$74.3^{+7.0}_{-7.1}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14212 ± 119 Mpc
$d_A(z_*)$	14042 ± 119 Mpc	$D_v(z=0.57)/r_s(z_d)$	12.9 ± 1.2
η	$(6.22 \pm 0.14) \times 10^{-10}$	$k_{\rm eq}$	$0.00990^{+0.00032}_{-0.00033}$
$\ell_{\rm eq}$	138.9 ± 3.5	ℓ_*	302.27 ± 0.66
$n_{\hat{\delta}}$	$(2.553 \pm 0.059) \times 10^{-7}$ cm^{-3}	n_s	0.975 ± 0.014
Ω_b	0.0423 ± 0.0077	$\Omega_b h^2$	0.02273 ± 0.00053
Ω_c	0.211 ± 0.042	$\Omega_c h^2$	0.1129 ± 0.0046
Ω_k	0.003 ± 0.015	Ω_k	$-0.030 < \Omega_k < 0.029$ (95% CL)
Ω_Λ	0.744 ± 0.037	Ω_m	0.253 ± 0.050
$\Omega_m h^2$	0.1356 ± 0.0045	$\Omega_{\rm tot}$	0.997 ± 0.015
$\Omega_{\rm tot}$	$0.97 < \Omega_{\rm tot} < 1.03$ (95% CL)	$r_s(z_d)$	152.4 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.365 ± 0.035	$r_s(z_d)/D_v(z=0.2)$	0.199 ± 0.019
$r_s(z_d)/D_v(z=0.35)$	0.119 ± 0.011	$r_s(z_d)/D_v(z=0.44)$	0.0971 ± 0.0090
$r_s(z_d)/D_v(z=0.54)$	0.0818 ± 0.0074	$r_s(z_d)/D_v(z=0.57)$	0.0782 ± 0.0070
$r_s(z_d)/D_v(z=0.6)$	0.0751 ± 0.0067	$r_s(z_d)/D_v(z=0.73)$	0.0645 ± 0.0055
$r_s(z_*)$	145.9 ± 1.2	R	1.724 ± 0.016
σ_8	0.827 ± 0.045	$\sigma_8\Omega_m^{0.5}$	0.415 ± 0.056
$\sigma_8\Omega_m^{0.6}$	0.362 ± 0.055	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.49 ± 0.82 Gyr	τ	0.090 ± 0.014
θ_*	0.010393 ± 0.000023	θ_*	0.5955 ± 0.0013 °
$\tau_{\rm rec}$	284.4 ± 2.4	$t_{\rm reion}$	451^{+64}_{-65} Myr
t_*	377204^{+4212}_{-4202} yr	w	-1.05 ± 0.12
z_d	1020.8 ± 1.1	$z_{\rm eq}$	3245 ± 107
$z_{\rm rec}$	1088.00 ± 0.82	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1090.77^{+0.89}_{-0.90}$		

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	2.39 ± 0.10	H_0	73.7 ± 2.3 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14208 ± 117 Mpc
$d_A(z_*)$	14039^{+119}_{-118} Mpc	$D_v(z=0.57)/r_s(z_d)$	12.89 ± 0.47
η	$(6.21 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00991 ± 0.00032
$\ell_{\rm eq}$	139.1 ± 3.4	ℓ_*	302.29 ± 0.64
n_b	$(2.550 \pm 0.055) \times 10^{-7}$ cm^{-3}	n_s	0.975 ± 0.013
Ω_b	0.0419 ± 0.0026	$\Omega_b h^2$	0.02271 ± 0.00049
Ω_c	0.209 ± 0.016	$\Omega_c h^2$	0.1131 ± 0.0045
Ω_k	0.0037 ± 0.0071	Ω_k	$-0.010 < \Omega_k < 0.018$ (95% CL)
Ω_Λ	0.746 ± 0.016	Ω_m	0.251 ± 0.018
$\Omega_m h^2$	0.1358 ± 0.0044	$\Omega_{\rm tot}$	0.9963 ± 0.0071
$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_s(z_d)$	152.4 ± 1.3 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.363 ± 0.012	$r_s(z_d)/D_v(z=0.2)$	0.1971 ± 0.0067
$r_s(z_d)/D_v(z=0.35)$	0.1177 ± 0.0042	$r_s(z_d)/D_v(z=0.44)$	0.0964 ± 0.0035
$r_s(z_d)/D_v(z=0.54)$	0.0812 ± 0.0029	$r_s(z_d)/D_v(z=0.57)$	0.0777 ± 0.0028
$r_s(z_d)/D_v(z=0.6)$	0.0745 ± 0.0027	$r_s(z_d)/D_v(z=0.73)$	0.0640 ± 0.0023
$r_s(z_*)$	145.9 ± 1.2	R	1.725 ± 0.016
σ_8	0.830 ± 0.042	$\sigma_8\Omega_m^{0.5}$	$0.416^{+0.031}_{-0.030}$
$\sigma_8\Omega_m^{0.6}$	0.362 ± 0.029	$a_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.51 ± 0.35 Gyr	τ	0.090 ± 0.014
θ_*	0.010393 ± 0.000022	θ_*	0.5955 ± 0.0013 °
$\tau_{\rm rec}$	284.3 ± 2.4	$t_{\rm reion}$	451 ± 64 Myr
t_*	377010^{+4074}_{-4082} yr	w	-1.037 ± 0.097
z_d	1020.8 ± 1.1	$z_{\rm eq}$	3250 ± 104
$z_{\rm rec}$	$1088.04^{+0.78}_{-0.79}$	$z_{\rm reion}$	10.6 ± 1.1
z_*	1090.81 ± 0.84		

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.419 ± 0.099	H_0	69.9 ± 1.6 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14190 ± 115 Mpc
$d_A(z_*)$	14030 ± 118 Mpc	$D_v(z=0.57)/r_s(z_d)$	13.57 ± 0.15
η	$(6.18 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	0.00996 ± 0.00031
$\ell_{\rm eq}$	139.7 ± 3.3	ℓ_*	302.37 ± 0.64
n_δ	$(2.538 \pm 0.054) \times 10^{-7}$ cm^{-3}	n_s	0.971 ± 0.012
Ω_b	0.0464 ± 0.0023	$\Omega_b h^2$	0.02260 ± 0.00048
Ω_c	0.234 ± 0.011	$\Omega_c h^2$	0.1139 ± 0.0043
Ω_k	-0.0052 ± 0.0042	Ω_k	$-0.0135 < \Omega_k < 0.0034$ (95% CL)
Ω_Λ	0.725 ± 0.014	Ω_m	0.280 ± 0.013
$\Omega_m h^2$	0.1365 ± 0.0043	$\Omega_{\rm tot}$	1.0052 ± 0.0042
$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_s(z_d)$	152.3 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3429 ± 0.0057	$r_s(z_d)/D_v(z=0.2)$	0.1863 ± 0.0026
$r_s(z_d)/D_v(z=0.35)$	0.1114 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.0913 ± 0.0010
$r_s(z_d)/D_v(z=0.54)$	$0.07697^{+0.00086}_{-0.00087}$	$r_s(z_d)/D_v(z=0.57)$	0.07369 ± 0.00083
$r_s(z_d)/D_v(z=0.6)$	$0.07075^{+0.00079}_{-0.00080}$	$r_s(z_d)/D_v(z=0.73)$	0.06093 ± 0.00068
$r_s(z_*)$	145.8 ± 1.1	R	1.729 ± 0.015
σ_8	0.845 ± 0.035	$\sigma_8\Omega_m^{0.5}$	$0.447^{+0.019}_{-0.020}$
$\sigma_8\Omega_m^{0.6}$	0.393 ± 0.018	$\alpha_{\rm SNLS}$	1.43 ± 0.11
$\beta_{\rm SNLS}$	3.26 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.98 ± 0.19 Gyr	τ	0.089 ± 0.014
θ_*	0.010390 ± 0.000022	θ_*	$0.5953 \pm 0.0013\ ^\circ$
$\tau_{\rm rec}$	283.9 ± 2.3	$t_{\rm reion}$	455 ± 65 Myr
t_*	376261^{+3947}_{-3945} yr	w	-1.093 ± 0.077
z_d	1020.6 ± 1.1	$z_{\rm eq}$	3267 ± 102
$z_{\rm rec}$	1088.21 ± 0.76	$z_{\rm reion}$	10.6 ± 1.1
z_*	$1091.03^{+0.80}_{-0.81}$		

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	2.431 ± 0.099	H_0	71.1 ± 1.4 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5747 \pm 35\ \mu\mathrm{K}^2$	$d_A(z_{\rm eq})$	14159^{+112}_{-111} Mpc
$d_A(z_*)$	13997^{+115}_{-114} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.54 ± 0.15
η	$(6.18 \pm 0.13) \times 10^{-10}$	$k_{\rm eq}$	$0.01005^{+0.00030}_{-0.00031}$
$\ell_{\rm eq}$	$140.6^{+3.2}_{-3.3}$	ℓ_*	302.34 ± 0.64
n_δ	$(2.540 \pm 0.054) \times 10^{-7}$ cm^{-3}	n_s	0.970 ± 0.012
Ω_b	0.0448 ± 0.0019	$\Omega_b h^2$	0.02262 ± 0.00048
Ω_c	0.228 ± 0.010	$\Omega_c h^2$	$0.1151^{+0.0042}_{-0.0043}$
Ω_k	$-0.0046^{+0.0040}_{-0.0041}$	Ω_k	$-0.0126 < \Omega_k < 0.0037$ (95% CL)
Ω_Λ	0.732 ± 0.013	Ω_m	0.273 ± 0.011
$\Omega_m h^2$	$0.1377^{+0.0041}_{-0.0042}$	$\Omega_{\rm tot}$	$1.0046^{+0.0041}_{-0.0040}$
$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)	$r_s(z_d)$	151.9 ± 1.2 Mpc
$r_s(z_d)/D_v(z=0.106)$	0.3469 ± 0.0050	$r_s(z_d)/D_v(z=0.2)$	0.1880 ± 0.0023
$r_s(z_d)/D_v(z=0.35)$	$0.1120^{+0.0012}_{-0.0013}$	$r_s(z_d)/D_v(z=0.44)$	0.0916 ± 0.0010
$r_s(z_d)/D_v(z=0.54)$	$0.07719^{+0.00085}_{-0.00084}$	$r_s(z_d)/D_v(z=0.57)$	0.07387 ± 0.00081
$r_s(z_d)/D_v(z=0.6)$	0.07091 ± 0.00078	$r_s(z_d)/D_v(z=0.73)$	$0.06100^{+0.00068}_{-0.00067}$
$r_s(z_*)$	145.4 ± 1.1	R	$1.732^{+0.014}_{-0.015}$
σ_8	$0.863^{+0.032}_{-0.033}$	$\sigma_8\Omega_m^{0.5}$	0.451 ± 0.019
$\sigma_8\Omega_m^{0.6}$	$0.396^{+0.017}_{-0.018}$	$\alpha_{\rm SNLS}$	1.44 ± 0.11
$\beta_{\rm SNLS}$	3.27 ± 0.11	$A_{\rm SZ}$	< 2.0 (95% CL)
t_0	13.93 ± 0.18 Gyr	τ	0.088 ± 0.014
θ_*	0.010391 ± 0.000022	θ_*	$0.5954 \pm 0.0013\ ^\circ$
$\tau_{\rm rec}$	$283.3^{+2.3}_{-2.2}$	$t_{\rm reion}$	455^{+64}_{-66} Myr
t_*	375209^{+3897}_{-3807} yr	w	$-1.137^{+0.070}_{-0.071}$
z_d	1020.8 ± 1.1	$z_{\rm eq}$	3295^{+99}_{-101}
$z_{\rm rec}$	$1088.27^{+0.75}_{-0.76}$	$z_{\rm reion}$	10.5 ± 1.1
z_*	$1091.10^{+0.80}_{-0.81}$		

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+spt+act+snls3

$10^9\Delta^2_{\mathcal{R}}$	2.428 ± 0.088	H_0	74.2 ± 4.9 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5746 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14236 ± 90 Mpc	$d_A(z_*)$	14066 ± 94 Mpc
$D_v(z=0.57)/r_s(z_d)$	12.80 ± 0.71	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00985 ± 0.00027	$\ell_{\rm eq}$	138.6 ± 2.9
ℓ_*	302.04 ± 0.42	n_b	$(2.506 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	0.965 ± 0.010	Ω_b	0.0410 ± 0.0054
$\Omega_b h^2$	0.02231 ± 0.00037	Ω_c	0.207 ± 0.027
$\Omega_c h^2$	0.1127 ± 0.0038	Ω_k	0.004 ± 0.010
Ω_k	$-0.018 < \Omega_k < 0.022$ (95% CL)	Ω_Λ	0.748 ± 0.025
Ω_m	0.248 ± 0.032	$\Omega_m h^2$	0.1350 ± 0.0037
$\Omega_{\rm tot}$	0.996 ± 0.010	$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.02$ (95% CL)
$r_s(z_d)$	153.0 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.366 ± 0.023
$r_s(z_d)/D_v(z=0.2)$	0.199 ± 0.012	$r_s(z_d)/D_v(z=0.35)$	$0.1189^{+0.0070}_{-0.0071}$
$r_s(z_d)/D_v(z=0.44)$	0.0973 ± 0.0056	$r_s(z_d)/D_v(z=0.54)$	0.0819 ± 0.0046
$r_s(z_d)/D_v(z=0.57)$	0.0783 ± 0.0043	$r_s(z_d)/D_v(z=0.6)$	0.0752 ± 0.0041
$r_s(z_d)/D_v(z=0.73)$	0.0646 ± 0.0034	$r_s(z_*)$	146.31 ± 0.96
R	1.724 ± 0.013	σ_8	$0.822^{+0.032}_{-0.031}$
$\sigma_8\Omega_m^{0.5}$	0.408 ± 0.030	$\sigma_8\Omega_m^{0.6}$	0.355 ± 0.030
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	$13.49^{+0.54}_{-0.55}$ Gyr
τ	0.085 ± 0.013	θ_*	$0.010401^{+0.000014}_{-0.000015}$
θ_*	0.59595 ± 0.00083 °	$\tau_{\rm rec}$	284.6 ± 2.0
$t_{\rm reion}$	470^{+66}_{-67} Myr	t_*	377378^{+3462}_{-3447} yr
w	$-1.034^{+0.081}_{-0.080}$	z_d	$1019.85^{+0.82}_{-0.83}$
$z_{\rm eq}$	3231 ± 88	$z_{\rm rec}$	1088.41 ± 0.69
$z_{\rm reion}$	10.3 ± 1.1	z_*	1091.30 ± 0.68

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+spt+act+snls3+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.430^{+0.087}_{-0.088}$	H_0	73.8 ± 2.1 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5746 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14234^{+89}_{-90} Mpc	$d_A(z_*)$	14065^{+93}_{-92} Mpc
$D_v(z=0.57)/r_s(z_d)$	12.84 ± 0.38	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00986 ± 0.00026	$\ell_{\rm eq}$	138.6 ± 2.9
ℓ_*	302.04 ± 0.42	n_b	$(2.506 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	0.965 ± 0.010	Ω_b	$0.0411^{+0.0024}_{-0.0025}$
$\Omega_b h^2$	0.02231 ± 0.00037	Ω_c	0.208 ± 0.013
$\Omega_c h^2$	0.1127 ± 0.0037	Ω_k	0.0037 ± 0.0066
Ω_k	$-0.0092 < \Omega_k < 0.0170$ (95% CL)	Ω_Λ	0.747 ± 0.014
Ω_m	0.249 ± 0.015	$\Omega_m h^2$	0.1350 ± 0.0036
$\Omega_{\rm tot}$	0.9963 ± 0.0066	$\Omega_{\rm tot}$	$0.98 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	152.9 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	0.364 ± 0.011
$r_s(z_d)/D_v(z=0.2)$	0.1979 ± 0.0058	$r_s(z_d)/D_v(z=0.35)$	0.1182 ± 0.0035
$r_s(z_d)/D_v(z=0.44)$	0.0968 ± 0.0029	$r_s(z_d)/D_v(z=0.54)$	0.0815 ± 0.0024
$r_s(z_d)/D_v(z=0.57)$	0.0779 ± 0.0023	$r_s(z_d)/D_v(z=0.6)$	0.0748 ± 0.0022
$r_s(z_d)/D_v(z=0.73)$	0.0643 ± 0.0019	$\tau_s(z_*)$	146.30 ± 0.95
R	1.724 ± 0.013	σ_8	0.822 ± 0.031
$\sigma_8\Omega_m^{0.5}$	0.410 ± 0.022	$\sigma_8\Omega_m^{0.6}$	0.357 ± 0.021
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	13.52 ± 0.32 Gyr
τ	0.085 ± 0.013	θ_*	$0.010401^{+0.000015}_{-0.000014}$
θ_*	$0.59595^{+0.00084}_{-0.00083}$	$\tau_{\rm rec}$	284.6 ± 2.0
$t_{\rm reion}$	470^{+65}_{-66} Myr	t_*	377344^{+3418}_{-3413} yr
w	-1.033 ± 0.080	z_d	$1019.85^{+0.82}_{-0.81}$
$z_{\rm eq}$	3232 ± 87	$z_{\rm rec}$	$1088.42^{+0.68}_{-0.69}$
$z_{\rm reion}$	10.3 ± 1.1	z_*	$1091.30^{+0.69}_{-0.68}$

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+spt+act+snls3+bao

$10^9\Delta^2_{\mathcal{R}}$	2.425 ± 0.086	H_0	69.4 ± 1.5 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.7 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	5751^{+33}_{-34} μK^2
$d_A(z_{\rm eq})$	14239 ± 90 Mpc	$d_A(z_*)$	14080 ± 93 Mpc
$D_v(z=0.57)/r_s(z_d)$	13.55 ± 0.15	η	$(6.09 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00982 ± 0.00026	$\ell_{\rm eq}$	$138.3^{+2.9}_{-2.8}$
ℓ_*	302.06 ± 0.43	n_b	$(2.503 \pm 0.042) \times 10^{-7}$ cm^{-3}
n_s	0.9640 ± 0.0098	Ω_b	0.0463 ± 0.0022
$\Omega_b h^2$	0.02229 ± 0.00038	Ω_c	0.233 ± 0.011
$\Omega_c h^2$	$0.1123^{+0.0037}_{-0.0036}$	Ω_k	-0.0065 ± 0.0040
Ω_k	$-0.0143 < \Omega_k < 0.0017$ (95% CL)	Ω_Λ	0.727 ± 0.014
Ω_m	$0.279^{+0.013}_{-0.012}$	$\Omega_m h^2$	0.1346 ± 0.0036
$\Omega_{\rm tot}$	1.0065 ± 0.0040	$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	153.1 ± 1.0 Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3430^{+0.0058}_{-0.0057}$
$r_s(z_d)/D_v(z=0.2)$	0.1865 ± 0.0026	$r_s(z_d)/D_v(z=0.35)$	0.1116 ± 0.0013
$r_s(z_d)/D_v(z=0.44)$	0.0914 ± 0.0010	$r_s(z_d)/D_v(z=0.54)$	0.07711 ± 0.00085
$r_s(z_d)/D_v(z=0.57)$	$0.07383^{+0.00082}_{-0.00081}$	$r_s(z_d)/D_v(z=0.6)$	$0.07088^{+0.00078}_{-0.00077}$
$r_s(z_d)/D_v(z=0.73)$	$0.06104^{+0.00068}_{-0.00067}$	$r_s(z_*)$	$146.44^{+0.94}_{-0.95}$
R	1.722 ± 0.013	σ_8	0.826 ± 0.029
$\sigma_8\Omega_m^{0.5}$	$0.436^{+0.015}_{-0.016}$	$\sigma_8\Omega_m^{0.6}$	0.384 ± 0.014
$\alpha_{\rm SNLS}$	1.43 ± 0.11	$\beta_{\rm SNLS}$	3.26 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	14.05 ± 0.18 Gyr
τ	0.083 ± 0.013	θ_*	0.010401 ± 0.000015
θ_*	0.59590 ± 0.00084 °	$\tau_{\rm rec}$	$284.9^{+1.9}_{-2.0}$
$t_{\rm reion}$	484^{+68}_{-69} Myr	t_*	377668^{+3363}_{-3431} yr
w	-1.077 ± 0.072	z_d	1019.75 ± 0.82
$z_{\rm eq}$	3221^{+87}_{-85}	$z_{\rm rec}$	1088.41 ± 0.69
$z_{\rm reion}$	10.1 ± 1.1	z_*	1091.30 ± 0.68

WMAP Cosmological Parameters

Model: owedm

Data: wmap9+spt+act+snls3+bao+h0

$10^9\Delta^2_{\mathcal{R}}$	$2.434^{+0.086}_{-0.085}$	H_0	70.7 ± 1.3 km/s/Mpc
$A_{\rm clustered}$	< 10 (95% CL)	$A^{\rm ACT}_{\rm Poisson}$	14.8 ± 2.3
$A^{\rm SPT}_{\rm Poisson}$	> 17 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5751 \pm 33\ \mu{\rm K}^2$
$d_A(z_{\rm eq})$	14218^{+88}_{-87} Mpc	$d_A(z_*)$	14058^{+92}_{-91} Mpc
$D_v(z=0.57)/r_s(z_d)$	13.50 ± 0.15	η	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\rm eq}$	0.00988 ± 0.00026	$\ell_{\rm eq}$	138.9 ± 2.8
ℓ_*	302.06 ± 0.43	n_b	$(2.504^{+0.042}_{-0.041}) \times 10^{-7}$ cm^{-3}
n_s	$0.9633^{+0.0099}_{-0.0098}$	Ω_b	0.0446 ± 0.0018
$\Omega_b h^2$	0.02229 ± 0.00037	Ω_c	$0.2262^{+0.0098}_{-0.0099}$
$\Omega_c h^2$	$0.1131^{+0.0037}_{-0.0036}$	Ω_k	$-0.0059^{+0.0038}_{-0.0039}$
Ω_k	$-0.0134 < \Omega_k < 0.0020$ (95% CL)	Ω_Λ	0.735 ± 0.013
Ω_m	0.271 ± 0.011	$\Omega_m h^2$	$0.1354^{+0.0036}_{-0.0035}$
$\Omega_{\rm tot}$	$1.0059^{+0.0039}_{-0.0038}$	$\Omega_{\rm tot}$	$1.00 < \Omega_{\rm tot} < 1.01$ (95% CL)
$r_s(z_d)$	$152.86^{+1.01}_{-1.00}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3475^{+0.0049}_{-0.0051}$
$r_s(z_d)/D_v(z=0.2)$	0.1884 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1123 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	0.09188 ± 0.00099	$r_s(z_d)/D_v(z=0.54)$	0.07738 ± 0.00085
$r_s(z_d)/D_v(z=0.57)$	0.07406 ± 0.00082	$r_s(z_d)/D_v(z=0.6)$	0.07108 ± 0.00078
$r_s(z_d)/D_v(z=0.73)$	$0.06114^{+0.00067}_{-0.00068}$	$r_s(z_*)$	146.21 ± 0.93
R	$1.725^{+0.015}_{-0.012}$	σ_8	$0.842^{+0.026}_{-0.027}$
$\sigma_8\Omega_m^{0.5}$	0.438 ± 0.015	$\sigma_8\Omega_m^{0.6}$	0.385 ± 0.014
$\alpha_{\rm SNLS}$	1.44 ± 0.11	$\beta_{\rm SNLS}$	3.27 ± 0.11
$A_{\rm SZ}$	< 1.1 (95% CL)	t_0	14.00 ± 0.18 Gyr
τ	0.082 ± 0.013	θ_*	0.010401 ± 0.000015
θ_*	0.59592 ± 0.00084 °	$\tau_{\rm rec}$	284.4 ± 1.9
$t_{\rm reion}$	486^{+69}_{-68} Myr	t_*	377006^{+3318}_{-3376} yr
w	$-1.122^{+0.068}_{-0.067}$	z_d	1019.85 ± 0.81
$z_{\rm eq}$	3241 ± 85	$z_{\rm rec}$	1088.46 ± 0.70
$z_{\rm reion}$	$10.1^{+1.0}_{-1.1}$	z_*	$1091.36^{+0.68}_{-0.67}$