
 WMAP Cosmological Parameters

Model: lcdm+run

Data: wmap9+h0

$10^9 \Delta_{\mathcal{R}}^2$	2.356 ± 0.096	H_0	$71.9 \pm 2.0 \text{ km/s/Mpc}$
$\ell(\ell + 1)C_{220}/(2\pi)$	$5758 \pm 34 \mu\text{K}^2$	$d_A(z_{\text{eq}})$	$14249 \pm 118 \text{ Mpc}$
$d_A(z_*)$	$14084 \pm 120 \text{ Mpc}$	$dn_s/d\ln k$	0.003 ± 0.020
$D_v(z = 0.57)/r_s(z_d)$	13.02 ± 0.28	η	$(6.27 \pm 0.15) \times 10^{-10}$
k_{eq}	0.00972 ± 0.00031	ℓ_{eq}	136.9 ± 3.3
ℓ_*	302.07 ± 0.61	n_b	$(2.576 \pm 0.061) \times 10^{-7} \text{ cm}^{-3}$
n_s	0.974 ± 0.042	Ω_b	0.0444 ± 0.0019
$\Omega_b h^2$	0.02294 ± 0.00054	Ω_c	0.214 ± 0.020
$\Omega_c h^2$	$0.1103^{+0.0044}_{-0.0043}$	Ω_Λ	$0.742^{+0.022}_{-0.021}$
Ω_m	$0.258^{+0.021}_{-0.022}$	$\Omega_m h^2$	0.1332 ± 0.0042
$r_s(z_d)$	$152.9 \pm 1.2 \text{ Mpc}$	$r_s(z_d)/D_v(z = 0.106)$	0.356 ± 0.011
$r_s(z_d)/D_v(z = 0.2)$	$0.1941^{+0.0055}_{-0.0056}$	$r_s(z_d)/D_v(z = 0.35)$	0.1163 ± 0.0030
$r_s(z_d)/D_v(z = 0.44)$	0.0953 ± 0.0023	$r_s(z_d)/D_v(z = 0.54)$	0.0803 ± 0.0017
$r_s(z_d)/D_v(z = 0.57)$	0.0769 ± 0.0016	$r_s(z_d)/D_v(z = 0.6)$	0.0738 ± 0.0015
$r_s(z_d)/D_v(z = 0.73)$	0.0635 ± 0.0012	$r_s(z_*)$	146.5 ± 1.1
R	1.714 ± 0.015	σ_8	0.810 ± 0.022
$\sigma_8 \Omega_m^{0.5}$	0.412 ± 0.026	$\sigma_8 \Omega_m^{0.6}$	0.360 ± 0.025
A_{SZ}	$< 2.0 \text{ (95\% CL)}$	t_0	$13.67 \pm 0.10 \text{ Gyr}$
τ	$0.092^{+0.014}_{-0.015}$	θ_*	0.010400 ± 0.000021
θ_*	$0.5959 \pm 0.0012^\circ$	τ_{rec}	285.7 ± 2.3
t_{reion}	$454 \pm 71 \text{ Myr}$	t_*	$379553^{+4035}_{-4042} \text{ yr}$
z_d	$1021.0^{+1.2}_{-1.1}$	z_{eq}	3189^{+101}_{-100}
z_{rec}	$1087.63^{+0.81}_{-0.82}$	z_{reion}	10.7 ± 1.2
z_*	1090.28 ± 0.89		
