

WMAP Cosmological Parameters

Model: Λ cdm

Data: wmap9+h0

$10^9 \Delta_{\mathcal{R}}^2$	$2.389^{+0.096}_{-0.095}$	H_0	73.4 ± 2.4 km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 35 \mu\text{K}^2$	$d_A(z_{\text{eq}})$	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_{eq}	0.00991 ± 0.00031
ℓ_{eq}	139.1 ± 3.3	ℓ_*	$302.28^{+0.64}_{-0.63}$
n_b	$(2.552^{+0.054}_{-0.053}) \times 10^{-7} \text{ cm}^{-3}$	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
Ω_{tot}	$0.9951^{+0.0049}_{-0.0298}$	Ω_{tot}	$0.97 < \Omega_{\text{tot}} < 1.01$ (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_{SZ}	< 2.0 (95% CL)	t_0	13.45 ± 0.24 Gyr
τ	0.090 ± 0.014	θ_*	0.010393 ± 0.000022
θ_*	$0.5955^{+0.0012}_{-0.0013} \text{ }^\circ$	τ_{rec}	284.3 ± 2.3
t_{reion}	450 ± 64 Myr	t_*	376989^{+3923}_{-3951} yr
z_d	1020.8 ± 1.1	z_{eq}	3251^{+102}_{-101}
z_{rec}	$1088.03^{+0.75}_{-0.76}$	z_{reion}	10.6 ± 1.1
z_*	1090.80 ± 0.80		