

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+snls3+bao

$10^9 \Delta_{\mathcal{R}}^2$	$2.442 \pm 0.082$	$H_0$	$69.00^{+0.92}_{-0.93}$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5740 \pm 33 \mu\text{K}^2$	$d_A(z_{\text{eq}})$	$14159^{+155}_{-156}$ Mpc
$d_A(z_*)$	$13993^{+156}_{-158}$ Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.43 \pm 0.12$
$\eta$	$(6.16 \pm 0.12) \times 10^{-10}$	$k_{\text{eq}}$	$0.01010 \pm 0.00028$
$\ell_{\text{eq}}$	$141.2 \pm 2.4$	$\ell_*$	$302.5 \pm 1.3$
$n_b$	$(2.530 \pm 0.049) \times 10^{-7} \text{ cm}^{-3}$	$n_s$	$0.969 \pm 0.015$
$\Omega_b$	$0.0473 \pm 0.0011$	$\Omega_b h^2$	$0.02253 \pm 0.00044$
$\Omega_c$	$0.243 \pm 0.011$	$\Omega_c h^2$	$0.1158 \pm 0.0038$
$\Omega_\Lambda$	$0.709 \pm 0.011$	$\Omega_m$	$0.291 \pm 0.011$
$\Omega_m h^2$	$0.1383^{+0.0039}_{-0.0038}$	$r_s(z_d)$	$151.8 \pm 1.2$ Mpc
$r_s(z_d)/D_v(z=0.106)$	$0.3404 \pm 0.0046$	$r_s(z_d)/D_v(z=0.2)$	$0.1860 \pm 0.0023$
$r_s(z_d)/D_v(z=0.35)$	$0.1119 \pm 0.0012$	$r_s(z_d)/D_v(z=0.44)$	$0.09198 \pm 0.00093$
$r_s(z_d)/D_v(z=0.54)$	$0.07775 \pm 0.00072$	$r_s(z_d)/D_v(z=0.57)$	$0.07448 \pm 0.00067$
$r_s(z_d)/D_v(z=0.6)$	$0.07155 \pm 0.00063$	$r_s(z_d)/D_v(z=0.73)$	$0.06173^{+0.00048}_{-0.00049}$
$r_s(z_*)$	$145.3 \pm 1.1$	$R$	$1.7354 \pm 0.0069$
$\sigma_8$	$0.828^{+0.035}_{-0.034}$	$\sigma_8 \Omega_m^{0.5}$	$0.447^{+0.025}_{-0.024}$
$\sigma_8 \Omega_m^{0.6}$	$0.395 \pm 0.023$	$\alpha_{\text{SNLS}}$	$1.43 \pm 0.11$
$\beta_{\text{SNLS}}$	$3.25 \pm 0.11$	$A_{\text{SZ}}$	$< 2.0$ (95% CL)
$t_0$	$13.78 \pm 0.13$ Gyr	$\tau$	$0.087 \pm 0.013$
$\theta_*$	$0.010386^{+0.000044}_{-0.000043}$	$\theta_*$	$0.5951 \pm 0.0025$ °
$\tau_{\text{rec}}$	$282.9 \pm 2.6$	$t_{\text{reion}}$	$459^{+81}_{-82}$ Myr
$t_*$	$374547^{+3379}_{-3415}$ yr	$Y_{\text{He}}$	$< 0.41$ (95% CL)
$z_d$	$1020.6 \pm 1.1$	$z_{\text{eq}}$	$3311^{+92}_{-91}$
$z_{\text{reion}}$	$10.5 \pm 1.3$	$z_*$	$1091.28^{+0.64}_{-0.63}$