

WMAP Cosmological Parameters

Model: lcdm+nrel+yh

Data: wmap9+spt+act+bao+h0

$10^9 \Delta_{\mathcal{R}}^2$	$2.400^{+0.077}_{-0.076}$	$H_0$	$71.9^{+2.1}_{-2.2}$ km/s/Mpc
$N_{\text{eff}}$	$3.55^{+0.49}_{-0.48}$	$A_{\text{clustered}}$	$5.8^{+4.3}_{-5.8}$
$A_{\text{Poisson}}^{\text{ACT}}$	$13.4 \pm 2.7$	$A_{\text{Poisson}}^{\text{SPT}}$	$21.7^{+4.5}_{-4.6}$
$\ell(\ell+1)C_{220}/(2\pi)$	$5750 \pm 32 \mu\text{K}^2$	$d_A(z_{\text{eq}})$	$13678^{+384}_{-389}$ Mpc
$d_A(z_*)$	$13516^{+379}_{-385}$ Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.37^{+0.12}_{-0.11}$
$0.0000000006184^{+0.000000000103}_{-0.000000000099}$		$\eta$	$(6.184^{+0.103}_{-0.099}) \times 10^{-10}$
$k_{\text{eq}}$	$0.01045 \pm 0.00030$	$\ell_{\text{eq}}$	$141.2^{+1.6}_{-1.5}$
$\ell_*$	$302.15^{+0.75}_{-0.76}$	$n_b$	$(2.540^{+0.042}_{-0.041}) \times 10^{-7} \text{ cm}^{-3}$
$n_s$	$0.980 \pm 0.011$	$\Omega_b$	$0.0439^{+0.0026}_{-0.0025}$
$\Omega_b h^2$	$0.02261^{+0.00038}_{-0.00036}$	$\Omega_c$	$0.2429^{+0.0091}_{-0.0090}$
$\Omega_c h^2$	$0.1255^{+0.0087}_{-0.0084}$	$\Omega_\Lambda$	$0.7132^{+0.0096}_{-0.0099}$
$\Omega_m$	$0.2868^{+0.0099}_{-0.0096}$	$\Omega_m h^2$	$0.1481^{+0.0086}_{-0.0084}$
$r_s(z_d)$	$146.8 \pm 4.4$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3424^{+0.0043}_{-0.0044}$
$r_s(z_d)/D_v(z=0.2)$	$0.1871 \pm 0.0022$	$r_s(z_d)/D_v(z=0.35)$	$0.1125 \pm 0.0012$
$r_s(z_d)/D_v(z=0.44)$	$0.09242^{+0.00088}_{-0.00089}$	$r_s(z_d)/D_v(z=0.54)$	$0.07810^{+0.00068}_{-0.00070}$
$r_s(z_d)/D_v(z=0.57)$	$0.07481^{+0.00064}_{-0.00066}$	$r_s(z_d)/D_v(z=0.6)$	$0.07186^{+0.00060}_{-0.00061}$
$r_s(z_d)/D_v(z=0.73)$	$0.06197^{+0.00047}_{-0.00048}$	$r_s(z_*)$	$140.5 \pm 4.2$
$R$	$1.7331^{+0.0060}_{-0.0058}$	$\sigma_8$	$0.858 \pm 0.023$
$A_{\text{SZ}}$	$0.60^{+0.45}_{-0.60}$	$t_0$	$13.29 \pm 0.37$ Gyr
$\tau$	$0.082 \pm 0.012$	$\theta_*$	$0.010398 \pm 0.000026$
$\theta_*$	$0.5957 \pm 0.0015^\circ$	$\tau_{\text{rec}}$	$273.4^{+8.0}_{-8.1}$
$t_{\text{reion}}$	$435^{+62}_{-64}$ Myr	$t_*$	$362081^{+10818}_{-11037}$ yr
$Y_{\text{He}}$	$0.278^{+0.034}_{-0.032}$	$z_d$	$1021.6 \pm 1.1$
$z_{\text{eq}}$	$3318 \pm 55$	$z_{\text{rec}}$	$1090.5 \pm 1.0$
$z_{\text{reion}}$	$10.6 \pm 1.1$	$z_*$	$1091.99^{+0.85}_{-0.84}$