

WMAP Cosmological Parameters

Model:  $\Lambda$ cdm

Data: wmap9+spt+act

$10^9 \Delta_{\mathcal{R}}^2$	$2.430 \pm 0.087$	$H_0$	$71.2 \pm 6.5$ km/s/Mpc
$A_{\text{clustered}}$	$< 10$ (95% CL)	$A_{\text{Poisson}}^{\text{ACT}}$	$14.8_{-2.4}^{+2.3}$
$A_{\text{Poisson}}^{\text{SPT}}$	$> 17$ (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5747 \pm 34$ $\mu\text{K}^2$
$d_A(z_{\text{eq}})$	$14233 \pm 90$ Mpc	$d_A(z_*)$	$14067_{-95}^{+94}$ Mpc
$D_v(z=0.57)/r_s(z_d)$	$13.14 \pm 0.89$	$\eta$	$(6.10 \pm 0.10) \times 10^{-10}$
$k_{\text{eq}}$	$0.00985 \pm 0.00027$	$\ell_{\text{eq}}$	$138.6 \pm 2.9$
$\ell_*$	$302.05 \pm 0.42$	$n_b$	$(2.504 \pm 0.042) \times 10^{-7}$ $\text{cm}^{-3}$
$n_s$	$0.9646_{-0.0100}^{+0.0099}$	$\Omega_b$	$0.0452 \pm 0.0082$
$\Omega_b h^2$	$0.02230 \pm 0.00037$	$\Omega_c$	$0.228 \pm 0.041$
$\Omega_c h^2$	$0.1127 \pm 0.0037$	$\Omega_k$	$-0.001 \pm 0.012$
$\Omega_k$	$-0.029 < \Omega_k < 0.020$ (95% CL)	$\Omega_\Lambda$	$0.727 \pm 0.038$
$\Omega_m$	$0.273 \pm 0.049$	$\Omega_m h^2$	$0.1350 \pm 0.0037$
$\Omega_{\text{tot}}$	$1.001 \pm 0.012$	$\Omega_{\text{tot}}$	$0.98 < \Omega_{\text{tot}} < 1.03$ (95% CL)
$r_s(z_d)$	$153.0 \pm 1.0$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.353_{-0.031}^{+0.030}$
$r_s(z_d)/D_v(z=0.2)$	$0.192 \pm 0.016$	$r_s(z_d)/D_v(z=0.35)$	$0.1155 \pm 0.0088$
$r_s(z_d)/D_v(z=0.44)$	$0.0947 \pm 0.0069$	$r_s(z_d)/D_v(z=0.54)$	$0.0799 \pm 0.0055$
$r_s(z_d)/D_v(z=0.57)$	$0.0765 \pm 0.0052$	$r_s(z_d)/D_v(z=0.6)$	$0.0734 \pm 0.0049$
$r_s(z_d)/D_v(z=0.73)$	$0.0632_{-0.0040}^{+0.0039}$	$r_s(z_*)$	$146.31_{-0.97}^{+0.96}$
$R$	$1.724 \pm 0.013$	$\sigma_8$	$0.810_{-0.022}^{+0.021}$
$\sigma_8 \Omega_m^{0.5}$	$0.421 \pm 0.036$	$\sigma_8 \Omega_m^{0.6}$	$0.370 \pm 0.038$
$A_{\text{SZ}}$	$< 1.1$ (95% CL)	$t_0$	$13.71 \pm 0.65$ Gyr
$\tau$	$0.084 \pm 0.013$	$\theta_*$	$0.010401_{-0.000015}^{+0.000014}$
$\theta_*$	$0.59593 \pm 0.00083$ $^\circ$	$\tau_{\text{rec}}$	$284.6 \pm 2.0$
$t_{\text{reion}}$	$474_{-68}^{+67}$ Myr	$t_*$	$377362_{-3440}^{+3436}$ yr
$z_d$	$1019.82_{-0.82}^{+0.83}$	$z_{\text{eq}}$	$3232 \pm 87$
$z_{\text{rec}}$	$1088.43 \pm 0.69$	$z_{\text{reion}}$	$10.3 \pm 1.1$
$z_*$	$1091.32_{-0.69}^{+0.68}$		