

WMAP Cosmological Parameters

Model: lcdm+mnu

Data: wmap9+spt+act+snls3+h0

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|-----------------------------------|--|-----------------------------------|---|
| $10^9 \Delta_{\mathcal{R}}^2$ | 2.381 ± 0.078 | H_0 | $71.2 \pm 1.5 \text{ km/s/Mpc}$ |
| $A_{\text{clustered}}$ | $< 10 \text{ (95\% CL)}$ | $A_{\text{Poisson}}^{\text{ACT}}$ | 14.8 ± 2.3 |
| $A_{\text{Poisson}}^{\text{SPT}}$ | $> 17 \text{ (95\% CL)}$ | $\ell(\ell+1)C_{220}/(2\pi)$ | $5760 \pm 32 \mu\text{K}^2$ |
| $d_A(z_{\text{eq}})$ | $14294_{-80}^{+81} \text{ Mpc}$ | $d_A(z_*)$ | $14130_{-81}^{+82} \text{ Mpc}$ |
| $D_v(z=0.57)/r_s(z_d)$ | 13.05 ± 0.20 | η | $(6.152_{-0.097}^{+0.096}) \times 10^{-10}$ |
| k_{eq} | $0.00962_{-0.00021}^{+0.00020}$ | ℓ_{eq} | 135.9 ± 2.2 |
| ℓ_* | 301.84 ± 0.40 | $\sum m_\nu$ | $< 0.30 \text{ eV (95\% CL)}$ |
| n_b | $(2.527_{-0.040}^{+0.039}) \times 10^{-7} \text{ cm}^{-3}$ | n_s | 0.9713 ± 0.0090 |
| Ω_b | 0.0444 ± 0.0017 | $\Omega_b h^2$ | 0.02250 ± 0.00035 |
| Ω_c | 0.216 ± 0.013 | $\Omega_c h^2$ | $0.1093_{-0.0029}^{+0.0028}$ |
| Ω_Λ | 0.737 ± 0.016 | Ω_m | 0.263 ± 0.016 |
| $\Omega_m h^2$ | $0.1330_{-0.0029}^{+0.0028}$ | $\Omega_\nu h^2$ | $< 0.0032 \text{ (95\% CL)}$ |
| $r_s(z_d)$ | $153.70_{-0.88}^{+0.89} \text{ Mpc}$ | $r_s(z_d)/D_v(z=0.106)$ | 0.3545 ± 0.0079 |
| $r_s(z_d)/D_v(z=0.2)$ | 0.1932 ± 0.0040 | $r_s(z_d)/D_v(z=0.35)$ | 0.1158 ± 0.0021 |
| $r_s(z_d)/D_v(z=0.44)$ | 0.0949 ± 0.0016 | $r_s(z_d)/D_v(z=0.54)$ | 0.0801 ± 0.0013 |
| $r_s(z_d)/D_v(z=0.57)$ | 0.0766 ± 0.0012 | $r_s(z_d)/D_v(z=0.6)$ | 0.0736 ± 0.0011 |
| $r_s(z_d)/D_v(z=0.73)$ | 0.06331 ± 0.00085 | $r_s(z_*)$ | $147.06_{-0.78}^{+0.79}$ |
| R | 1.719 ± 0.011 | σ_8 | $0.776_{-0.027}^{+0.026}$ |
| $\sigma_8 \Omega_m^{0.5}$ | $0.398_{-0.019}^{+0.018}$ | $\sigma_8 \Omega_m^{0.6}$ | $0.348_{-0.018}^{+0.017}$ |
| α_{SNLS} | 1.43 ± 0.11 | β_{SNLS} | 3.26 ± 0.11 |
| A_{SZ} | $< 1.1 \text{ (95\% CL)}$ | t_0 | $13.739 \pm 0.080 \text{ Gyr}$ |
| τ | 0.090 ± 0.013 | θ_* | 0.010408 ± 0.000014 |
| θ_* | $0.59635_{-0.00078}^{+0.00079} \text{ }^\circ$ | τ_{rec} | $286.4_{-1.5}^{+1.6}$ |
| t_{reion} | $456_{-63}^{+62} \text{ Myr}$ | t_* | $380431_{-2648}^{+2677} \text{ yr}$ |
| z_d | 1019.95 ± 0.82 | z_{eq} | 3155_{-68}^{+67} |
| z_{rec} | $1087.99_{-0.62}^{+0.63}$ | z_{reion} | 10.6 ± 1.1 |
| z_* | 1090.75 ± 0.56 | | |