

CMS**35.9 fb⁻¹ (13 TeV)** χ^2

[$N_{\text{jet}}^{0,1+}, M(t\bar{t}), y(t\bar{t})$], dof = 23, data and PDF unc.

$\alpha_s(m_Z) \pm \Delta\alpha_s(m_Z)$ PDF [χ^2_{min}]

○ 0.1144 +- 0.0025 CT14 [30]

▽ 0.1200 +- 0.0015 HERAPDF20 [33]

△ 0.1169 +- 0.0013 ABMP16 [26]

200**100****0****0.11****0.12****0.13** $\alpha_s(m_Z)$ 