

Upper limit on cross-section [pb]

ATLAS

$\sqrt{s}=13$ TeV, 139 fb^{-1}

All limits at 95% CL

Gluino R-hadron, $m_{\chi} = 100$ GeV

$\tilde{g} \rightarrow q\bar{q}\tilde{\chi}_1^0$, $\tau_{\tilde{g}} = 30$ ns

— Obs.

Exp. ($\pm 1\sigma_{\text{exp}}$)

Exp. ($\pm 2\sigma_{\text{exp}}$)

$\sigma(pp \rightarrow \tilde{g}\tilde{g})$ [NNLO+NNLL]

10^{-1}

10^{-2}

10^{-3}

10^{-4}

1.6 1.7 1.8 1.9 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3

$m_{\tilde{g}}$ [TeV]