

Upper limit on cross-section [pb]

ATLAS

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

All limits at 95% CL

Gluino R-hadron, $\Delta m = 30$ 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]

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

10^{-1}

10^{-2}

10^{-3}

1.4

1.5

1.6

1.7

1.8

1.9

2

2.1

2.2

2.3

2.4