

$\tilde{g}\text{-}\tilde{g}$ production, $\tilde{g}\rightarrow qq\tilde{\chi}_1^0$, $\tilde{\chi}_1^0\rightarrow qq$



Expected limit ($\pm 1\sigma_{\text{exp}}$)



Observed limit ($\pm 1\sigma_{\text{theory}}^{\text{SUSY}}$)

All limits at 95% CL

ATLAS

$\sqrt{s} = 8\text{ TeV}, 20.3\text{ fb}^{-1}$

$\tilde{g}\rightarrow qq\tilde{\chi}_1^0$ forbidden

Unevaluated Due to UDD Radiation Uncertainties

400

600

800

1000

1200

1400

$m_{\tilde{g}}\text{ [GeV]}$

$m_{\tilde{\chi}_1^0}\text{ [GeV]}$