

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



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



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

All limits at 95% CL

**ATLAS**

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

$\tilde{g}\rightarrow q\bar{q}\tilde{\chi}_1^0$  forbidden  
Unevaluated Due to UDD Radiation Uncertainties

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

1000

500

400

600

800

1000

1200

1400

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

