

Upper limit on cross-section [pb]

**ATLAS**

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

All limits at 95% CL

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

$\tilde{g} \rightarrow q\bar{q}\tilde{\chi}_1^0$ ,  $\tau_{\tilde{g}} = 10$  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]