

Upper limit on cross-section [pb]

ATLAS

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

All limits at 95% CL

Stau

$\tilde{\tau} \rightarrow \tau \tilde{\chi}_1^0$, $\tau_{\tilde{\tau}} = 1 \text{ ns}$

— Obs.

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

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

10^{-2}

10^{-3}

$\sigma(pp \rightarrow \tilde{\tau} \tilde{\tau})$ [NLO+NLL]

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

0.46

0.48

0.5

0.52

0.54

0.56

0.58

0.6