

CMS18.5 fb⁻¹ (8 TeV) m_{LSP} (GeV) $pp \rightarrow \tilde{t}\tilde{t}^*, \tilde{t} \rightarrow b \tilde{\chi}_1^\pm$ NLO+NLL exclusion \equiv Observed $\pm 1 \sigma_{\text{theory}}$ \cdots Expected $\pm 1 \sigma_{\text{experiment}}$ \cdots Expected $\pm 2 \sigma_{\text{experiment}}$

450

400

350

300

250

200

150

100

50

0

 $m_{\tilde{\chi}_1^\pm} = 0.75m_{\tilde{t}} + 0.25m_{\tilde{\chi}_1^0}$ $m_{\tilde{t}}$ (GeV)10²

10

1

10¹10⁻²

95% C.L. upper limit on cross section (pb)

