

CMS, $L = 19.5 \text{ fb}^{-1}$, $\sqrt{s} = 8 \text{ TeV}$

$m_{\tilde{\chi}^0}$ (GeV)

$pp \rightarrow \tilde{t}\tilde{t}, \tilde{t} \rightarrow t\tilde{\chi}_1^0 / b\tilde{\chi}_1^\pm$

NLO+NLL exclusion

\equiv Observed $\pm 1\sigma_{\text{theory}}$

$m_{\tilde{\chi}^\pm} - m_{\tilde{\chi}^0} = 5 \text{ GeV}$

\cdots Expected $\pm 1\sigma_{\text{experiment}}$

MVA 1L

400

300

200

100

0

200

300

400

500

600

700

800

900

$m_{\tilde{t}}$ (GeV)

