

CMS

35.9 fb<sup>-1</sup> (13 TeV) $m_{\tilde{\chi}_1^0}$  (GeV)

800

600

400

200

0

 $m_{\tilde{t}_1}$  (GeV) $pp \rightarrow \tilde{t}_1 \bar{\tilde{t}}_1, \tilde{t}_1 \rightarrow t \tilde{\chi}_1^0$  NLO+NLL exclusionObserved  $\pm 1\sigma_{\text{theory}}$ Expected  $\pm 1\sigma_{\text{experiment}}$ 

Expected 0l analysis

Expected 1l analysis

Expected 2l analysis

10<sup>2</sup>

10

1

10<sup>-1</sup>10<sup>-2</sup>10<sup>-3</sup>

95% CL upper limit on cross section (pb)

$$m_{\tilde{t}} = m_t + m_{\tilde{\chi}_1^0}$$

200

400

600

800

1000

1200

200 400 600 800 1000 1200

200 400 600 800 1000 1200