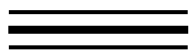


CMS Preliminary

137 fb⁻¹ (13 TeV)

pp → $\tilde{b}_1 \tilde{b}_1$, $\tilde{b}_1 \rightarrow t W \tilde{\chi}_1^0$

NNLO+NNLL
exclusion



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



Expected ± 1 and $2 \sigma_{\text{experiment}}$

$m_{\tilde{\chi}_1^\pm}$ (GeV)

1000

800

600

400

200

$m_{\tilde{\chi}_1^0} = 50$ GeV

$m_{\tilde{b}_1} - m_{\tilde{\chi}_1^\pm} = m_W + m_b$

400

600

800

1000

1200

$m_{\tilde{b}_1}$ (GeV)

1

10⁻¹

10⁻²

10⁻³

95% CL upper limit on cross section (pb)

