

CMS137.2 fb⁻¹ (13 TeV) $m_{\tilde{\chi}_2^0}$ [GeV]

2000

1500

1000

500

800

1000

1200

1400

1600

1800

 $m_{\tilde{b}}$ [GeV]

$pp \rightarrow \tilde{b}\tilde{b}, \tilde{b} \rightarrow \tilde{\chi}_2^0 b, \tilde{\chi}_2^0 \rightarrow \tilde{l}l/Z\tilde{\chi}_1^0, \tilde{l} \rightarrow \tilde{\chi}_1^0 l; m_{\tilde{\chi}_1^0} = 100 \text{ GeV}$
 $m_{\tilde{l}} = 0.5(m_{\tilde{\chi}_2^0} + m_{\tilde{\chi}_1^0})$ NNLO_{approx}+NNLL exclusion

..... Expected limit, $\pm 1, 2 \text{ s.d.}_{\text{exp.}}$
——— Observed limit, $\pm 1 \text{ s.d.}_{\text{theory}}$

10⁻²
10⁻³
10⁻⁴
95% CL upper limit on cross section [pb]

