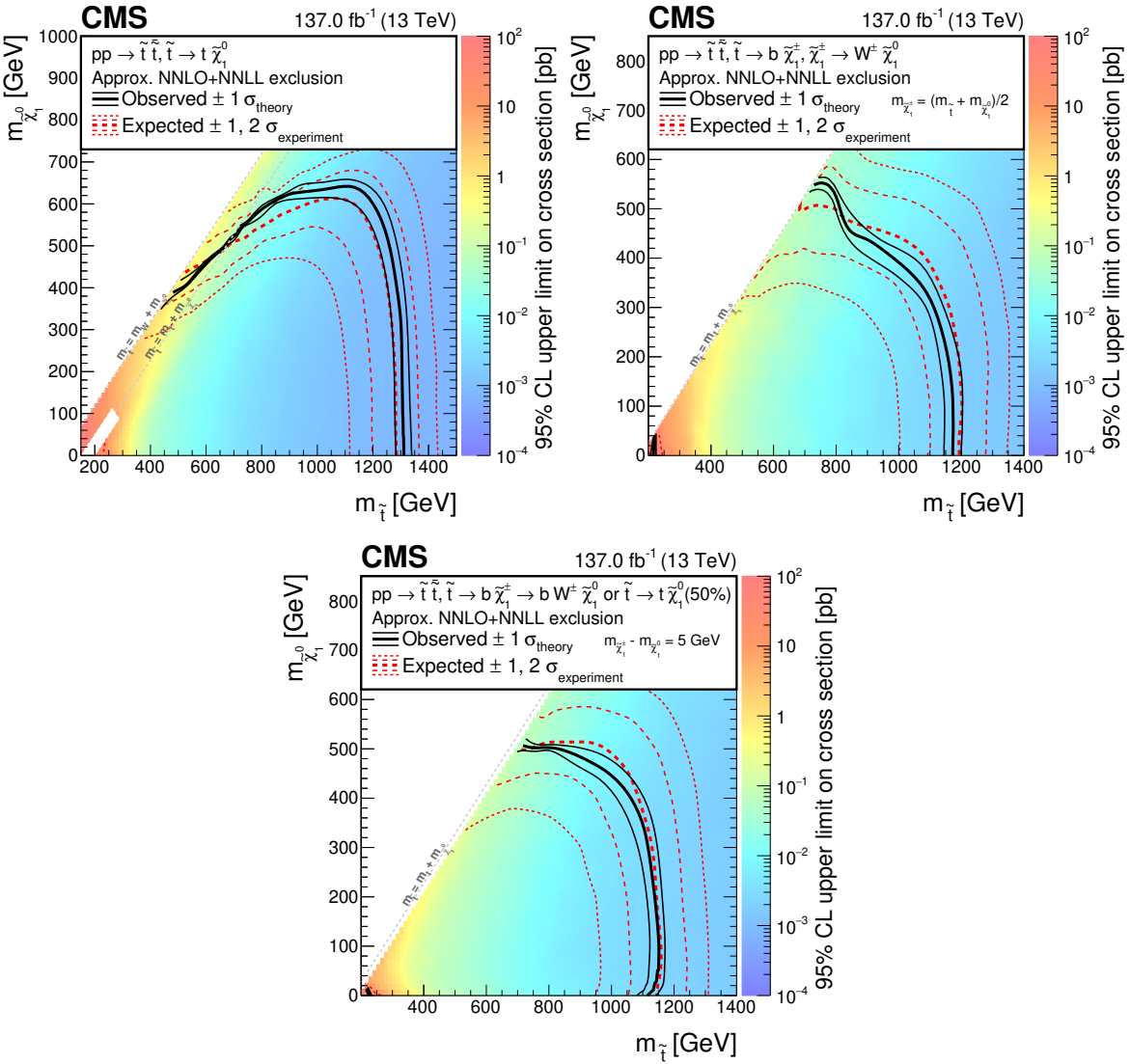
CMS
137.0 fb^{-1} (13 TeV)
$pp \to \tilde{t}\,\bar{\tilde{t}},\ \tilde{t} \to t\,\tilde{\chi}_1^0$
Approx. NNLO+NNLL exclusion
Observed ± 1 σ_{theory}
Expected ± 1, 2 $\sigma_{experiment}$
$m_{\tilde{t}} = m_t + m_{\tilde{\chi}_1^0}$
$m_{\tilde{t}} = m_b + m_{\tilde{\chi}_1^\pm}$
$m_{\tilde{\chi}_1^0}$ [GeV]
$m_{\tilde{t}}$ [GeV]
95% CL upper limit on cross section [pb]
CMS
137.0 fb^{-1} (13 TeV)
$pp \to \tilde{t}\,\bar{\tilde{t}},\ \tilde{t} \to b\,\tilde{\chi}_1^\pm,\ \tilde{\chi}_1^\pm \to W^\pm\,\tilde{\chi}_1^0$
Approx. NNLO+NNLL exclusion
Observed ± 1 σ_{theory}
$m_{\tilde{\chi}_1^\pm} = (m_{\tilde{t}} + m_{\tilde{\chi}_1^0})/2$
Expected ± 1, 2 $\sigma_{experiment}$
$m_{\tilde{t}} = m_t + m_{\tilde{\chi}_1^0}$
$m_{\tilde{\chi}_1^0}$ [GeV]
$m_{\tilde{t}}$ [GeV]
95% CL upper limit on cross section [pb]
CMS
137.0 fb^{-1} (13 TeV)
$pp \to \tilde{t}\,\bar{\tilde{t}},\ \tilde{t} \to b\,\tilde{\chi}_1^\pm \to b\,W^\pm\,\tilde{\chi}_1^0$ or $\tilde{t} \to t\,\tilde{\chi}_1^0$(50%)
Approx. NNLO+NNLL exclusion
Observed ± 1 σ_{theory}
$m_{\tilde{\chi}_1^\pm} - m_{\tilde{\chi}_1^0} = 5$ GeV
Expected ± 1, 2 $\sigma_{experiment}$
$m_{\tilde{t}} = m_t + m_{\tilde{\chi}_1^0}$
$m_{\tilde{\chi}_1^0}$ [GeV]
$m_{\tilde{t}}$ [GeV]
95% CL upper limit on cross section [pb]