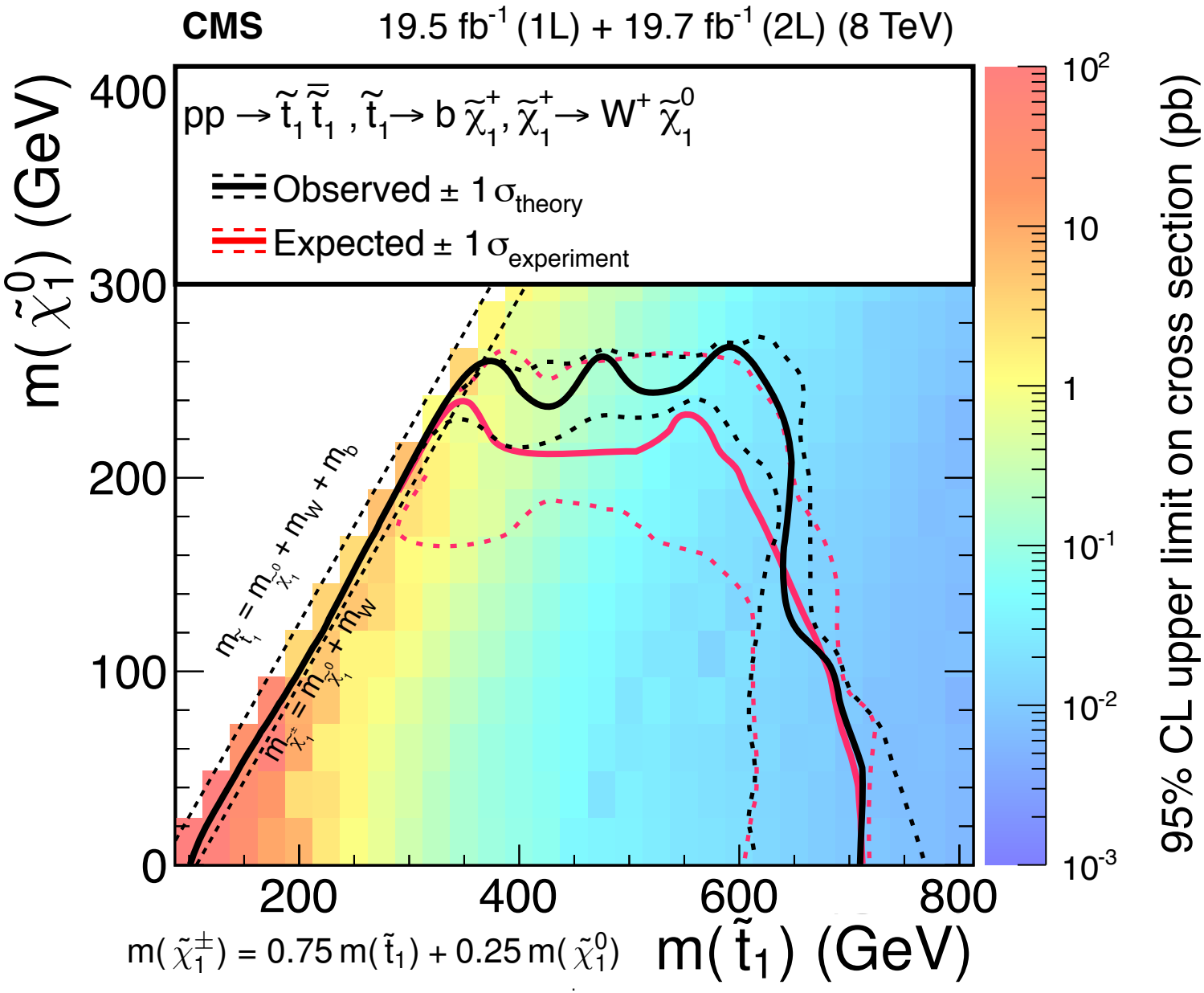
CMS
19.5 fb^{-1} (1L) + 19.7 fb^{-1} (2L) (8 TeV)
$pp \to \tilde{t}_1 \bar{\tilde{t}}_1$, $\tilde{t}_1 \to b\,\tilde{\chi}_1^+$, $\tilde{\chi}_1^+ \to W^+\,\tilde{\chi}_1^0$
Observed ± 1 σ_{theory}
Expected ± 1 $\sigma_{experiment}$
$m_{\tilde{t}_1} = m_{\tilde{\chi}_1^0} + m_W + m_b$
$m_{\tilde{t}_1} = m_{\tilde{\chi}_1^0} + m_W$
$m(\tilde{\chi}_1^0)$ (GeV)
$m(\tilde{t}_1)$ (GeV)
$m(\tilde{\chi}_1^\pm) = 0.75\,m(\tilde{t}_1) + 0.25\,m(\tilde{\chi}_1^0)$
95% CL upper limit on cross section (pb)
0
100
200
300
400
200
400
600
800
10^{-3}
10^{-2}
10^{-1}
1
10
10^2