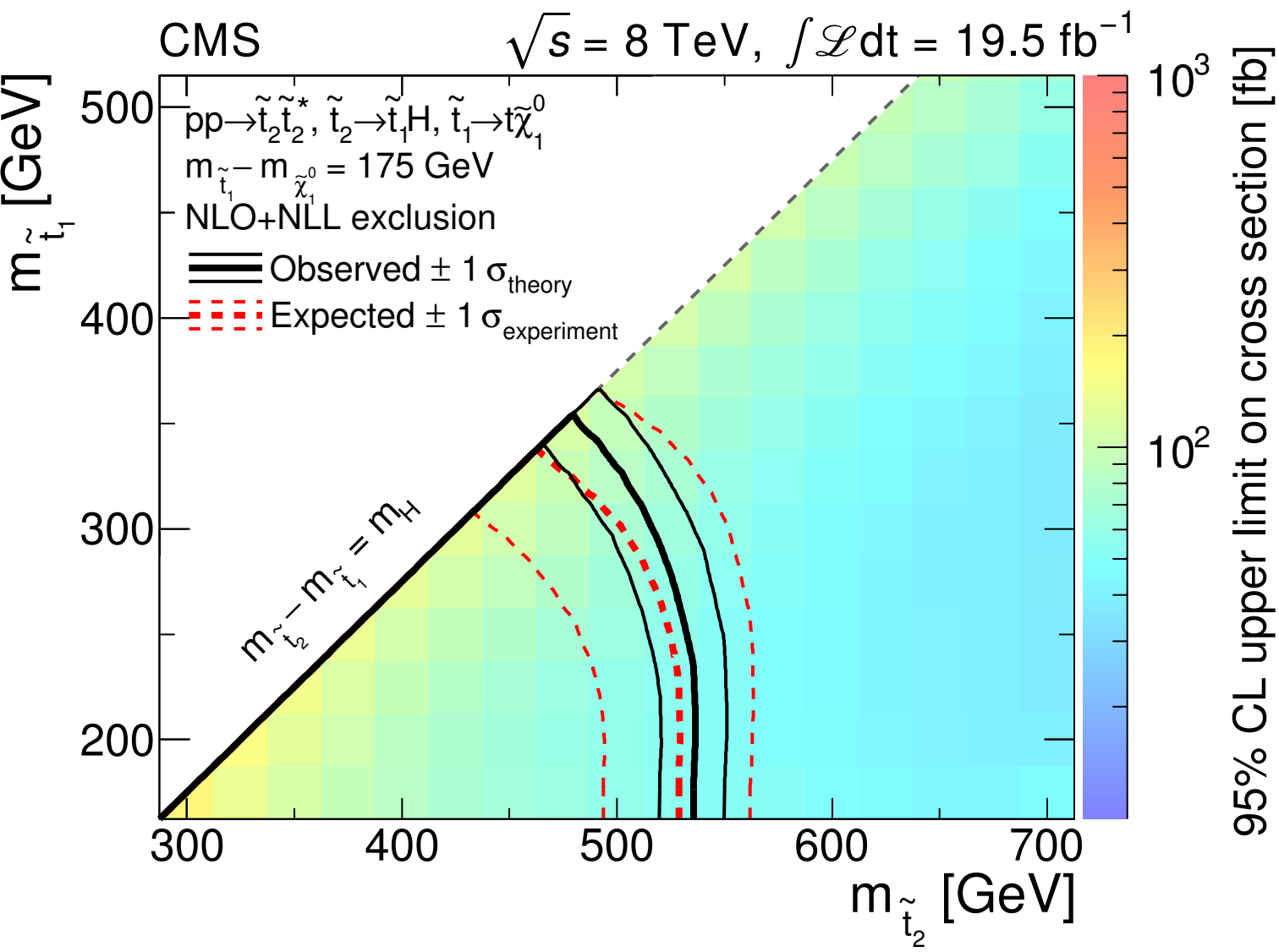
CMS
$\sqrt{s}$ = 8 TeV, $\int \mathscr{L} dt$ = 19.5 fb^{-1}
$pp \to \tilde{t}_2 \tilde{t}_2^*$, $\tilde{t}_2 \to \tilde{t}_1 H$, $\tilde{t}_1 \to t \tilde{\chi}_1^0$
$m_{\tilde{t}_1} - m_{\tilde{\chi}_1^0}$ = 175 GeV
NLO+NLL exclusion
Observed ± 1 σ_{theory}
Expected ± 1 $\sigma_{experiment}$
$m_{\tilde{t}_2} - m_{\tilde{t}_1} = m_H$
$m_{\tilde{t}_1}$ [GeV]
$m_{\tilde{t}_2}$ [GeV]
95% CL upper limit on cross section [fb]
500
400
300
200
300
400
500
600
700
10^3
10^2