CMS-PAS-SUS-12-022 (upperLimit)
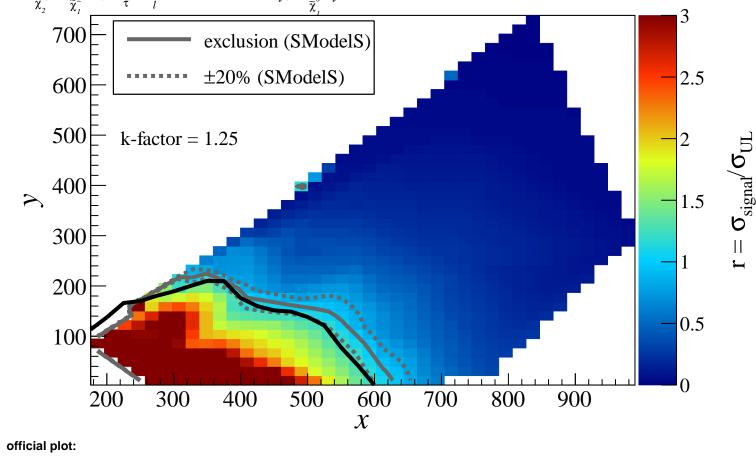
$TChiChipmSlepStau : pp \rightarrow \widetilde{\chi}_2^0 \, \widetilde{\chi}_1^\pm, \, \widetilde{\chi}_2^0 \, \widetilde{\chi}_1^\pm \rightarrow l \, \widetilde{l} \, \nu \, \widetilde{\tau}, \, \widetilde{l} \rightarrow l \, \widetilde{\chi}_1^0, \, \widetilde{\tau} \rightarrow \tau \, \widetilde{\chi}_1^0$

$m_{\widetilde{\chi}_2^0}, \, m_{\widetilde{\chi}_1^\pm} = x, \, m_{\widetilde{\tau}}, \, m_{\widetilde{l}} = 0.05*x + 0.95*y, \, m_{\widetilde{\chi}_1^0} = y$

- exclusion (SModelS)
- ±20% (SModelS)

k-factor = 1.25

$r = \sigma_{signal}/\sigma_{UL}$

official plot:
https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS12022/exclusion_TChiSlepSnu_2a_0_05.pdf