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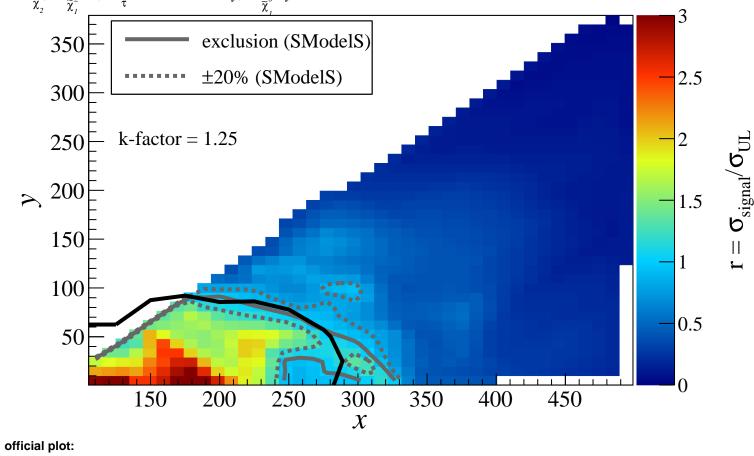
$TChiChipmStauStau : pp \rightarrow \tilde{\chi}_2^0 \, \tilde{\chi}_1^\pm, \, \tilde{\chi}_2^0 \, \tilde{\chi}_1^\pm \rightarrow \tau \, \tilde{\tau} \, \nu \, \tilde{\tau}, \, \tilde{\tau} \rightarrow \tau \, \tilde{\chi}_1^0$

$m_{\tilde{\chi}_2^0}, \, m_{\tilde{\chi}_1^\pm} = x, \, m_{\tilde{\tau}} = 0.5*x + 0.5*y, \, m_{\tilde{\chi}_1^0} = y$

exclusion (SModelS)

$\pm 20\%$ (SModelS)

k-factor = 1.25

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

official plot:
https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS12022/exclusion_TChiStauSnu_0_5.pdf