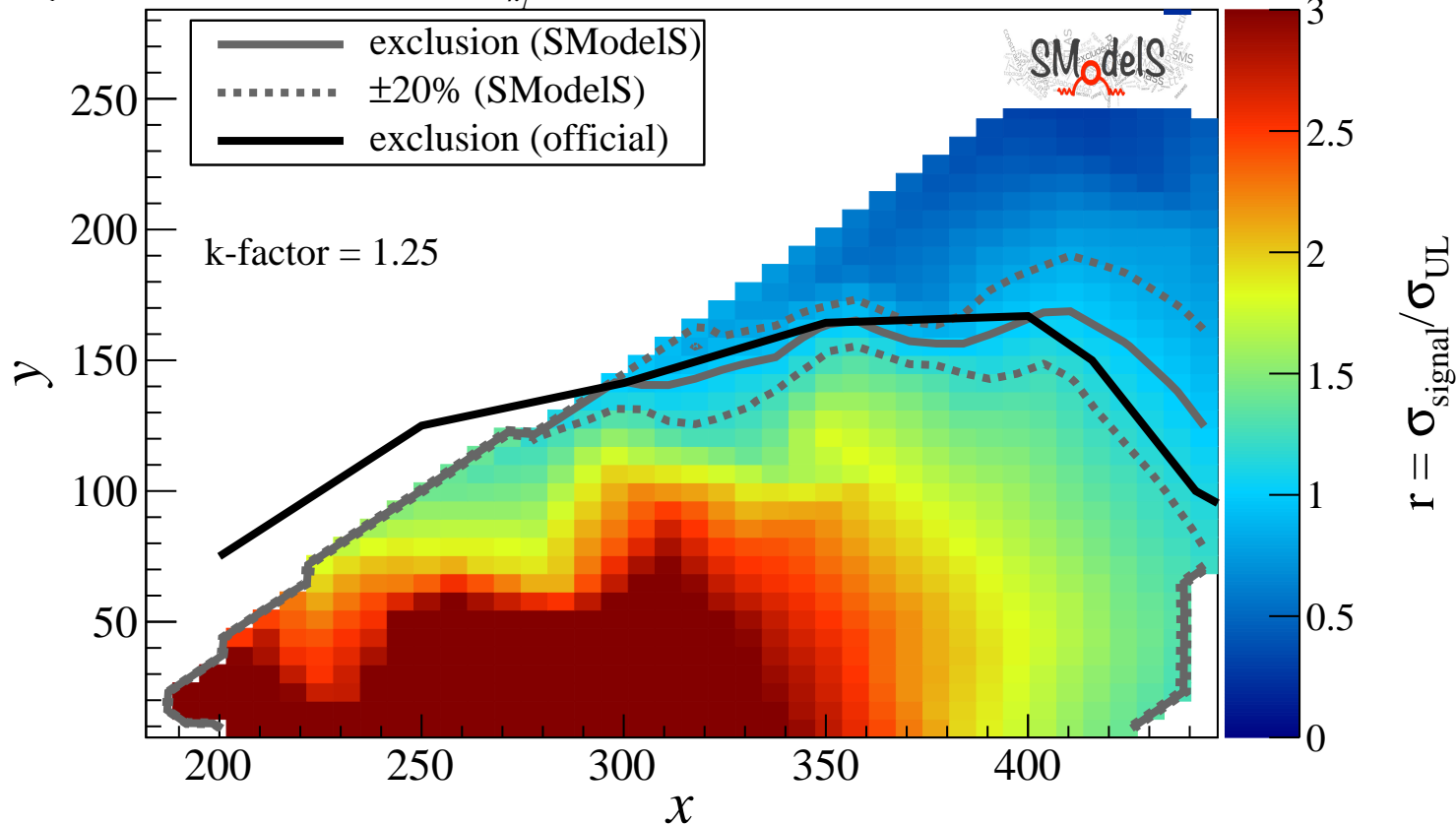# CMS-PAS-SUS-12-022 (upperLimit)

$TChipChimSlepSnu : pp \rightarrow \tilde{\chi}_1^{\pm} \tilde{\chi}_1^{\pm}, \tilde{\chi}_1^{\pm} \rightarrow \nu\, \tilde{l}\, (\, l\, \tilde{\nu}\,), \tilde{l} \rightarrow l\, \tilde{\chi}_1^0, \tilde{\nu} \rightarrow \nu\, \tilde{\chi}_1^0$

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

exclusion (SModelS)

±20% (SModelS)

exclusion (official)

k-factor = 1.25

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

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