$m_{\tilde{\chi}^0}, m_{\tilde{\chi}^{\pm}} = x, m_{\tilde{v}}, m_{\tilde{l}} = 0.95 * x + 0.05 * y, m_{\tilde{\chi}^0} = y$ exclusion (SMode \overline{IS}) 450 ±20% (SModelS) 400 2.5 exclusion (official) ±1σ (official) 350 k-factor = 1.25 300 $oldsymbol{\sigma}_{ ext{signal}}/oldsymbol{\sigma}_{ extsf{l}}$ 250 1.5 200 150 100 0.5 50 300 200 400 500 600 700 \mathcal{X} official plot:

CMS-SUS-13-006 (upperLimit)

 $TChiChipmSlepL: pp \rightarrow \widetilde{\chi}_{2}^{0} \ \widetilde{\chi}_{1}^{\pm}, \ \widetilde{\chi}_{2}^{0} \ \widetilde{\chi}_{1}^{\pm} \ \rightarrow l \ \widetilde{l} \ (\ \nu \ \widetilde{\nu}\) \ l \ \widetilde{\nu} \ (\ \nu \ \widetilde{l}\), \ \widetilde{l} \rightarrow l \ \widetilde{\chi}_{1}^{0}, \ \widetilde{\nu} \rightarrow \nu \ \widetilde{\chi}_{1}^{0}$

https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS13006/Fig13_exclusion_TChiSlepSnu_2i_0_95.png