## $TChiChipmSlepStau: pp \rightarrow \widetilde{\chi}_{2}^{0} \ \widetilde{\chi}_{1}^{\pm}, \ \widetilde{\chi}_{2}^{0} \ \widetilde{\chi}_{1}^{\pm} \ \rightarrow l \ \widetilde{l} \ v \ \widetilde{\tau}, \ \widetilde{l} \rightarrow l \ \widetilde{\chi}_{2}^{0}, \ \widetilde{\tau} \rightarrow \tau \ \widetilde{\chi}_{2}^{0}$ $m_{\tilde{\chi}^0}, m_{\tilde{\chi}^{\pm}} = x, m_{\tilde{\tau}}, m_{\tilde{l}} = 0.95 * x + 0.05 * y, m_{\tilde{\chi}^0} = y$ exclusion (SModelS) 350 2.5 ±20% (SModelS) 300 k-factor = 1.25250 $oldsymbol{\sigma}_{ ext{signal}}\!\!\!/\,\! \mathbf{o}_{ ext{U}}$ > 200 1.5 150 100 0.5 50 200 300 400 500 600 700 $\mathcal{X}$

CMS-SUS-13-006 (upperLimit)

https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS13006/Fig14\_exclusion\_TChiSlepSnu\_2a\_0\_95.pdf

official plot: