450 exclusion (SModelS) 400 2.5 ±20% (SModelS 350 k-factor = 1.25  $\sigma_{
m signal}/\sigma_{
m U}$ 300 250 1.5 200 150 100 0.5 50 300 200 400 500 600 700  $\mathcal{X}$ official plot: https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS13006/Fig13\_exclusion\_TChiSlepSnu\_2i\_0\_95.png

CMS-SUS-13-006 (upperLimit)

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

 $m_{\tilde{\chi}^0}, m_{\tilde{\chi}^{\pm}} = x, m_{\tilde{\chi}}, m_{\tilde{l}} = 0.95 * x + 0.05 * y, m_{\tilde{\chi}^0} = y$