$\textit{TChiChipmSlepStau}: pp \to \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 1} \; \widetilde{\chi}^{\scriptscriptstyle \pm}_{\scriptscriptstyle 1}, \; \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 2} \; \widetilde{\chi}^{\scriptscriptstyle \pm}_{\scriptscriptstyle 1} \; \to l \; \widetilde{l} \; \nu \; \widetilde{\tau}, \; \widetilde{l} \to l \; \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 1}, \; \widetilde{\tau} \to \tau \; \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 1}$ $m_{\tilde{\chi}^0}, m_{\tilde{\chi}^{\pm}} = x, m_{\tilde{\tau}}, m_{\tilde{\tau}} = 0.5 * x + 0.5 * y, m_{\tilde{\chi}^0} = y$ SModelS exclusion (SModelS) 350 2.5 ±20% (SModelS) 300 k-factor = 1.25 $\sigma_{
m signal}/\sigma_{
m U}$ 250 > 200 1.5 150 100 0.5 50 200 300 500 400 600 700 \mathcal{X} official plot:

CMS-SUS-13-006 (upperLimit)

 $https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS13006/Fig14_exclusion_TChiSlepSnu_2a_0_5.pdf$