$\textit{TChiChipmSlepStau}: pp \, \rightarrow \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 2} \, \widetilde{\chi}^{\scriptscriptstyle +} m_{\scriptscriptstyle P} \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 2} \, \widetilde{\chi}^{\scriptscriptstyle +} m_{\scriptscriptstyle I} \, \, \rightarrow l \, \, \widetilde{l} \, \, \nu \, \, \widetilde{\tau}, \, \, \widetilde{l} \, \rightarrow l \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\tau} \, \rightarrow \tau \, \, \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle I}, \, \, \widetilde{\chi}^{\scriptscriptstyle 0$  $Eq(m_{\widetilde{\chi}_{2}^{0}}, m_{\widetilde{\chi}_{1}^{+}m_{I}}, x), Eq(m_{\widetilde{\tau}}, m_{\widetilde{l}}, 0.05*x + 0.95*y), Eq(m_{\widetilde{\chi}_{2}^{0}}, y)$ ±20% (SModelS) 700 exclusion (SModelS) 2.5 exclusion (official) 600 500 k-factor = 1.25  $\sigma_{
m signal'}$ 400 1.5 300 200 0.5 100 800 200 300 400 500 900 600 700  $\mathcal{X}$ official plot:

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

https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS12022/exclusion\_TChiSlepSnu\_2a\_0\_05.pdf