$\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$  $Eq(m_{\widetilde{\chi}^{o}}, m_{\widetilde{\chi}^{+}_{m_{i}}}, x), Eq(m_{\widetilde{\tau}}, m_{\widetilde{l}}, 0.95*x + 0.05*y), Eq(m_{\widetilde{\kappa}^{o}}, y)$ 500 ±20% (SModelS) 450 exclusion (SModell 2.5 exclusion (official) 400 350 k-factor = 1.25  $\sigma_{
m signal}/\sigma_{
m l}$ 300 > 250 1.5 200 150 100 0.5 50 300 800 200 400 500 600 700 900  $\mathcal{X}$ official plot:

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

https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS12022/exclusion\_TChiSlepSnu\_2a\_0\_95.pdf