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

$TChiChipmSlepStau : pp \rightarrow \widetilde{\chi}_2^0 \, \widetilde{\chi}_1^\pm, \, \widetilde{\chi}_2^0 \, \widetilde{\chi}_1^\pm \rightarrow l \, \widetilde{l} \, \nu \, \widetilde{\tau}, \, \widetilde{l} \rightarrow l \, \widetilde{\chi}_1^0, \, \widetilde{\tau} \rightarrow \tau \, \widetilde{\chi}_1^0$

$m_{\widetilde{\chi}_1^\pm}, \, m_{\widetilde{\chi}_2^0}=x, \, m_{\widetilde{l}}, \, m_{\widetilde{\tau}}=0.95*x + 0.05*y, \, m_{\widetilde{\chi}_1^0}=y$

k-factor = 1.25

- ······ ±20% (S
- ——— exclusion (SModelS)
- ——— exclusion (official)

$r = \sigma_{signal}/\sigma_{UL}$

upper limit