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

 $TChiChipmSlepL: pp \rightarrow \widetilde{\chi}^{0}_{2} \ \widetilde{\chi}^{\pm}_{1}, \ \widetilde{\chi}^{0}_{2} \ \widetilde{\chi}^{\pm}_{1} \ \rightarrow l \ \widetilde{l} \ (\ \nu \ \widetilde{\nu}\) \ l \ \widetilde{\nu} \ (\ \nu \ \widetilde{l}\), \ \widetilde{l} \rightarrow l \ \widetilde{\chi}^{0}_{1}, \ \widetilde{\nu} \rightarrow \nu \ \widetilde{\chi}^{0}_{1}$ $m_{\tilde{\chi}_{l}^{\pm}}, m_{\tilde{\chi}_{l}^{0}} = x, m_{\tilde{v}}, m_{\tilde{l}} = 0.5 * x + 0.5 * y, m_{\tilde{v}^{0}} = y$ 800 ±20% (S SModelS exclusion (SModelS) 2.5 700 exclusion (official) 600 k-factor = 1.25 500 1.5 400 300 200 0.5 100 700 300 400 500 600 800 900 200 \mathcal{X} upper limit