CMS-PAS-SUS-16-024 (upperLimit)

 $TChiChipmStauL: pp \rightarrow \widetilde{\chi}_{_{2}}^{_{0}} \ \widetilde{\chi}_{_{1}}^{_{\pm}}, \ \widetilde{\chi}_{_{2}}^{_{0}} \ \widetilde{\chi}_{_{1}}^{^{\pm}} \ \rightarrow \tau \ \widetilde{\tau} \ (\ \nu \ \widetilde{\nu}\) \ \tau \ \widetilde{\nu} \ (\ \nu \ \widetilde{\tau}\), \ \widetilde{\tau} \rightarrow \tau \ \widetilde{\chi}_{_{1}}^{_{0}}, \ \widetilde{\nu} \rightarrow \nu \ \widetilde{\chi}_{_{1}}^{_{0}}$ $m_{\tilde{\chi}^0}, m_{\tilde{\chi}^{\pm}} = x, m_{\tilde{v}}, m_{\tilde{\tau}} = 0.5 * x + 0.5 * y, m_{\tilde{\chi}^0} = y$ 0.9 220 ±20% (SModelS) 200 0.8 exclusion (official) 180 0.7 $\pm 1\sigma$ (official) 160 k-factor = 1.250.6 140 0.5> 120 0.4 100 80 0.3 60 0.2 40 0.1 20 350 150 250 450 200 300 400 χ upper limit