CMS-SUS-13-006 (upperLimit)  $TChiChipmSlepL: pp \to \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 2} \; \widetilde{\chi}^{\scriptscriptstyle +} m_{_{I}} \; \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 2} \; \widetilde{\chi}^{\scriptscriptstyle +} m_{_{I}} \; \to l \; \widetilde{l} \; (\; \vee \; \widetilde{\nu} \;) \; l \; \widetilde{\nu} \; (\; \vee \; \widetilde{l} \;), \; \widetilde{l} \to l \; \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 1}, \; \widetilde{\nu} \to \nu \; \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 1}, \; \widetilde{\nu} \to \ell \; \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 1}, \; \widetilde{\nu}^{\scriptscriptstyle 0}_{\scriptscriptstyle 1}, \; \widetilde{\chi}^{\scriptscriptstyle 0}_{\scriptscriptstyle 1}, \; \widetilde{\chi}^{$  $Eq(m_{\widetilde{\chi}^{0}}, m_{\widetilde{\chi}^{+}_{m_{l}}}, x), Eq(m_{\widetilde{v}}, m_{\widetilde{l}}, 0.95*x + 0.05*y), Eq(m_{\widetilde{v}^{0}}, y)$ 450 ±20% (SModelS) exclusion (SModelS 400 2.5 exclusion (official) 350 ±1σ (official) k-factor = 1.25 300  $\sigma_{
m signal}/$   $\sigma_{
m l}$ 250 1.5 200 150 100 0.5 50 300 700 400 500 600  $\mathcal{X}$ 

https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS13006/Fig13\_exclusion\_TChiSlepSnu\_2i\_0\_95.png

official plot: