$TChiChipmSlepL: pp \rightarrow \widetilde{\chi}_{2}^{0} \ \widetilde{\chi}_{1}^{\pm}, \ \widetilde{\chi}_{2}^{0} \ \widetilde{\chi}_{1}^{\pm} \ \rightarrow l \ \widetilde{l} \ (\ \nu \ \widetilde{\nu}\) \ l \ \widetilde{\nu} \ (\ \nu \ \widetilde{l}\), \ \widetilde{l} \rightarrow l \ \widetilde{\chi}_{1}^{0}, \ \widetilde{\nu} \rightarrow \nu \ \widetilde{\chi}_{1}^{0}$ $m_{\tilde{\chi}^0}, m_{\tilde{\chi}^{\pm}} = x, m_{\tilde{v}}, m_{\tilde{l}} = 0.5 * x + 0.5 * y, m_{\tilde{\chi}^0} = y$ exclusion (SModelS) 500 ±20% (SModelS) 2.5 400 k-factor = 1.25 $oldsymbol{\sigma}_{ ext{signal}}/oldsymbol{\sigma}_{ ext{Ul}}$ > 300 1.5 200 100 0.5 200 300 400 700 800 500 600 χ official plot:

ATLAS-SUSY-2013-12 (upperLimit)

https://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/PAPERS/SUSY-2013-12/fig_07a.png