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

ATLAS-CONF-2013-035 (upperLimit)

https://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/CONFNOTES/ATLAS-CONF-2013-035/figaux\_01a.png

official plot: