## exclusion (SModelS) 500 ±20% (SModelS) 2.5 400 k-factor = 1.25 $oldsymbol{\sigma}_{ ext{signal}}/oldsymbol{\circ}_{ ext{U}}$ 300 1.5 200 100 0.5 200 800 300 400 500 600 700 $\chi$ official plot:

ATLAS-CONF-2013-035 (upperLimit)

 $TChiChipmSlepL: pp \rightarrow \widetilde{\chi}_{2}^{0} \ \widetilde{\chi}_{1}^{\pm}, \ \widetilde{\chi}_{2}^{0} \ \widetilde{\chi}_{1}^{\pm} \ \rightarrow l \ \widetilde{l} \ (\ \nu \ \widetilde{\nu}\ ) \ l \ \widetilde{\nu} \ (\ \nu \ \widetilde{l}\ ), \ \widetilde{l} \ \rightarrow l \ \widetilde{\chi}_{1}^{0}, \ \widetilde{\nu} \ \rightarrow \nu \ \widetilde{\chi}_{1}^{0}$ 

 $m_{\tilde{\chi}^0}, m_{\tilde{\chi}^{\pm}} = x, m_{\tilde{\chi}}, m_{\tilde{l}} = 0.5 * x + 0.5 * y, m_{\tilde{\chi}^0} = y$ 

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