ATLAS-CONF-2013-028 (upperLimit) $\textit{TChiChipmStauL}: pp \to \widetilde{\chi}^{0}_{2} \ \widetilde{\chi}^{\pm}_{1}, \ \widetilde{\chi}^{0}_{2} \ \widetilde{\chi}^{\pm}_{1} \ \to \tau \ \widetilde{\tau} \ (\ \nu \ \widetilde{\nu}\) \ \tau \ \widetilde{\nu} \ (\ \nu \ \widetilde{\tau}\), \ \widetilde{\tau} \to \tau \ \widetilde{\chi}^{0}_{1}, \ \widetilde{\nu} \to \nu \ \widetilde{\chi}^{0}_{1}, \ \widetilde{\nu}^{0}_{1}, \ \widetilde{\nu} \to \nu \ \widetilde{\chi}^{0}_{1}, \ \widetilde{\nu}^{0}_{1}, \ \widetilde{\nu}^{0}_{1},$ $m_{\tilde{\chi}_{1}^{\pm}}, m_{\tilde{\chi}_{0}^{0}} = x, m_{\tilde{v}}, m_{\tilde{\tau}} = 0.5 * x + 0.5 * y, m_{\tilde{v}^{0}} = y$ 180F ±20% (S 160 exclusion (SModelS) 2.5 140 exclusion (official) k-factor = 1.2 120 $oldsymbol{\sigma}_{ ext{signal}}/oldsymbol{\sigma}_{ ext{Ul}}$ 100 1.5 80 60 40 0.5

250

 \mathcal{X}

350

upper limit

300

20

150

200