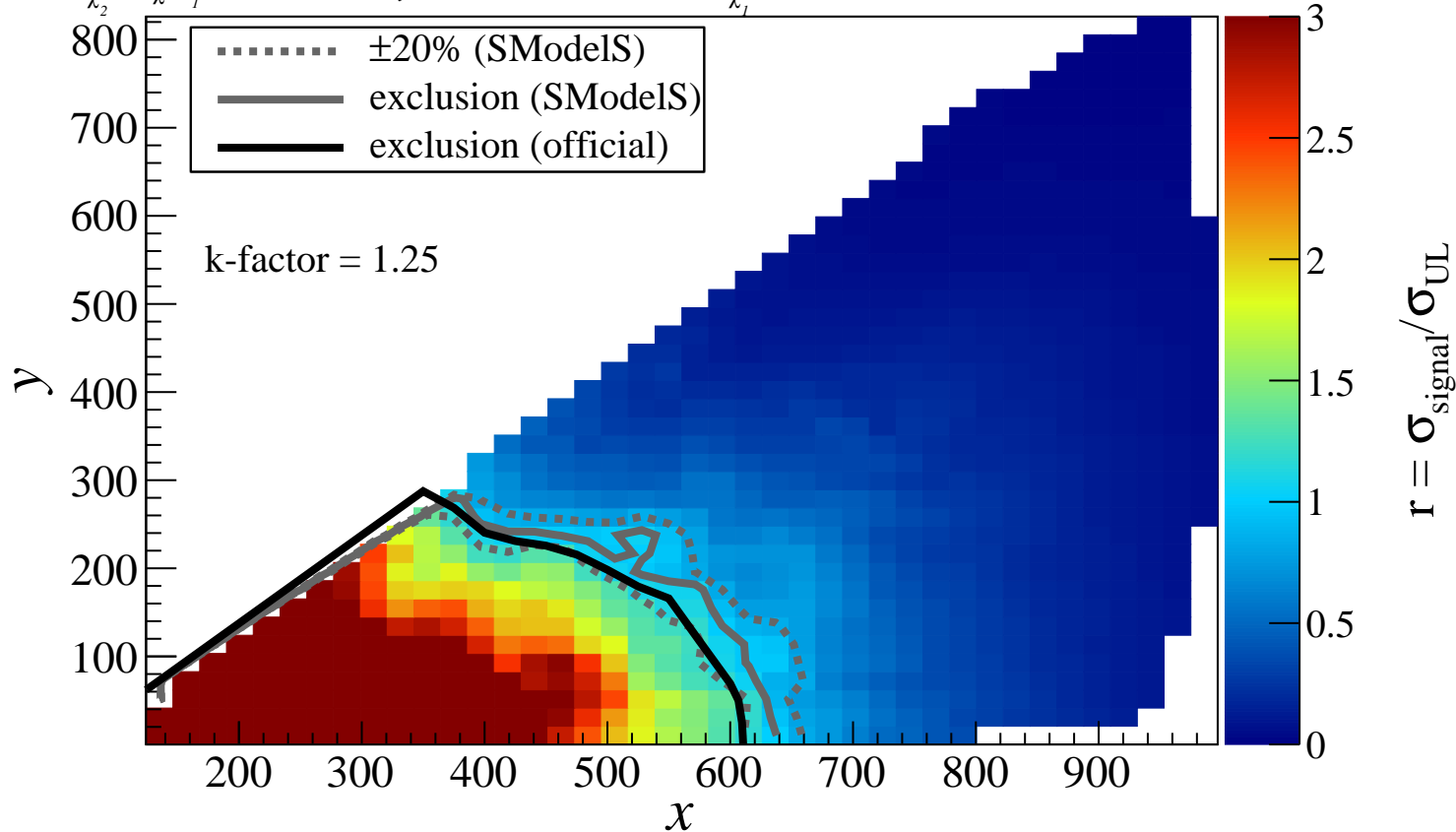# CMS-PAS-SUS-12-022 (upperLimit)

TChiChipmSlepStau : $pp \rightarrow \tilde{\chi}_2^0 \, \tilde{\chi}^+ m_r \, \tilde{\chi}_2^0 \, \tilde{\chi}^+ m_1 \rightarrow l \, \tilde{l} \, \nu \, \tilde{\tau}, \, \tilde{l} \rightarrow l \, \tilde{\chi}_1^0, \, \tilde{\tau} \rightarrow \tau \, \tilde{\chi}_1^0$

$Eq(m_{\tilde{\chi}_2^0}, m_{\tilde{\chi}^+ m_1}, x), \, Eq(m_{\tilde{\tau}}, m_{\tilde{l}}, 0.5*x + 0.5*y), \, Eq(m_{\tilde{\chi}_1^0}, y)$

$\cdots$ $\pm 20\%$ (SModelS)

—— exclusion (SModelS)

—— exclusion (official)

k-factor = 1.25

$r = \sigma_{signal}/\sigma_{UL}$