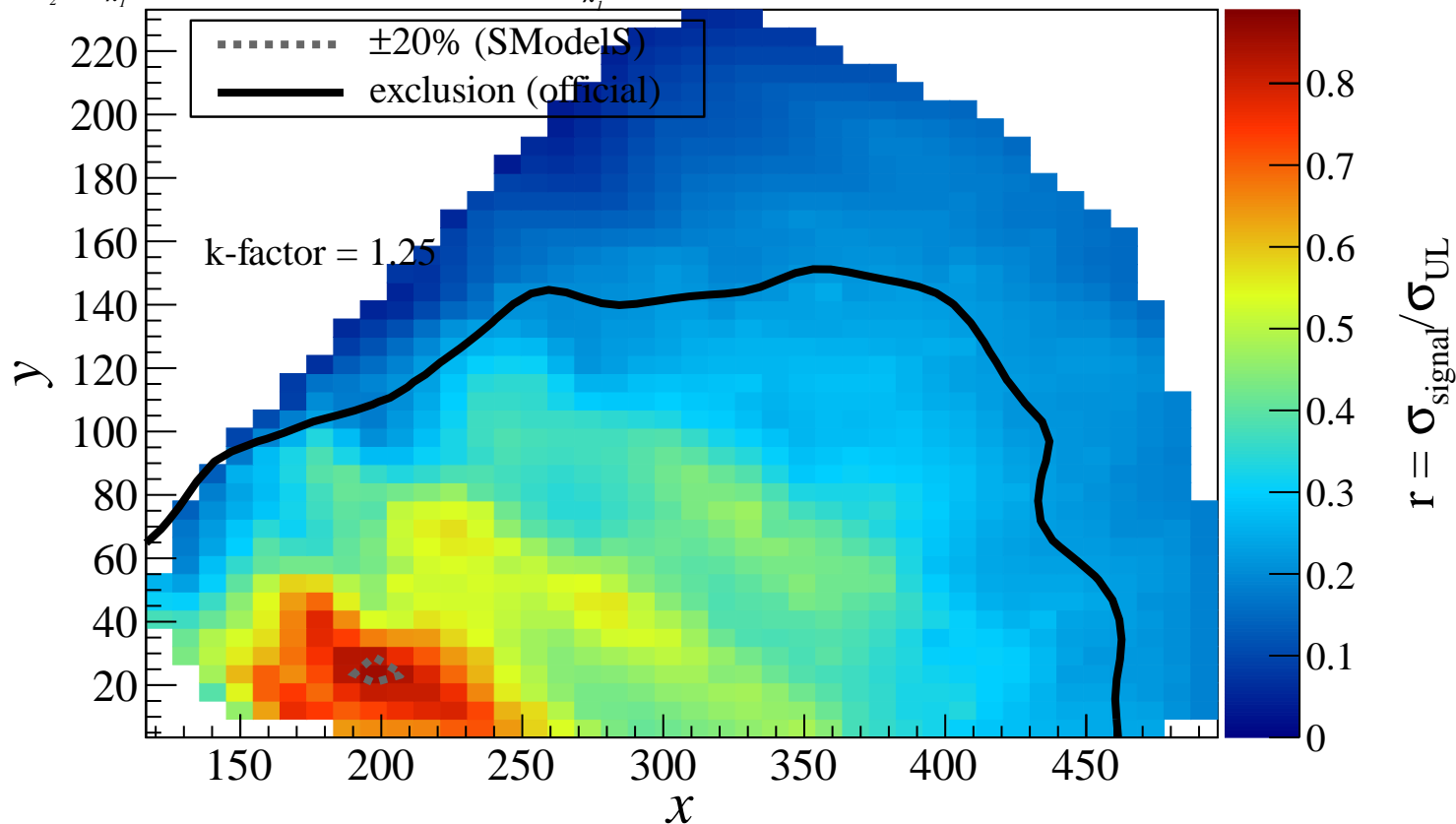# CMS-PAS-SUS-16-024 (upperLimit)

TChiChipmStauL : $pp \rightarrow \tilde{\chi}_2^0 \tilde{\chi}_1^\pm, \tilde{\chi}_2^0 \tilde{\chi}_1^\pm \rightarrow \tau \tilde{\tau} (\nu \tilde{\nu}) \tau \tilde{\nu} (\nu \tilde{\tau}), \tilde{\tau} \rightarrow \tau \tilde{\chi}_1^0, \tilde{\nu} \rightarrow \nu \tilde{\chi}_1^0$

$m_{\tilde{\chi}_2^0}, m_{\tilde{\chi}_1^\pm} = x, m_{\tilde{\tau}}, m_{\tilde{\nu}} = 0.5*x + 0.5*y, m_{\tilde{\chi}_1^0} = y$

- ▪▪▪▪ ±20% (SModelS)
- —— exclusion (official)

k-factor = 1.25

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