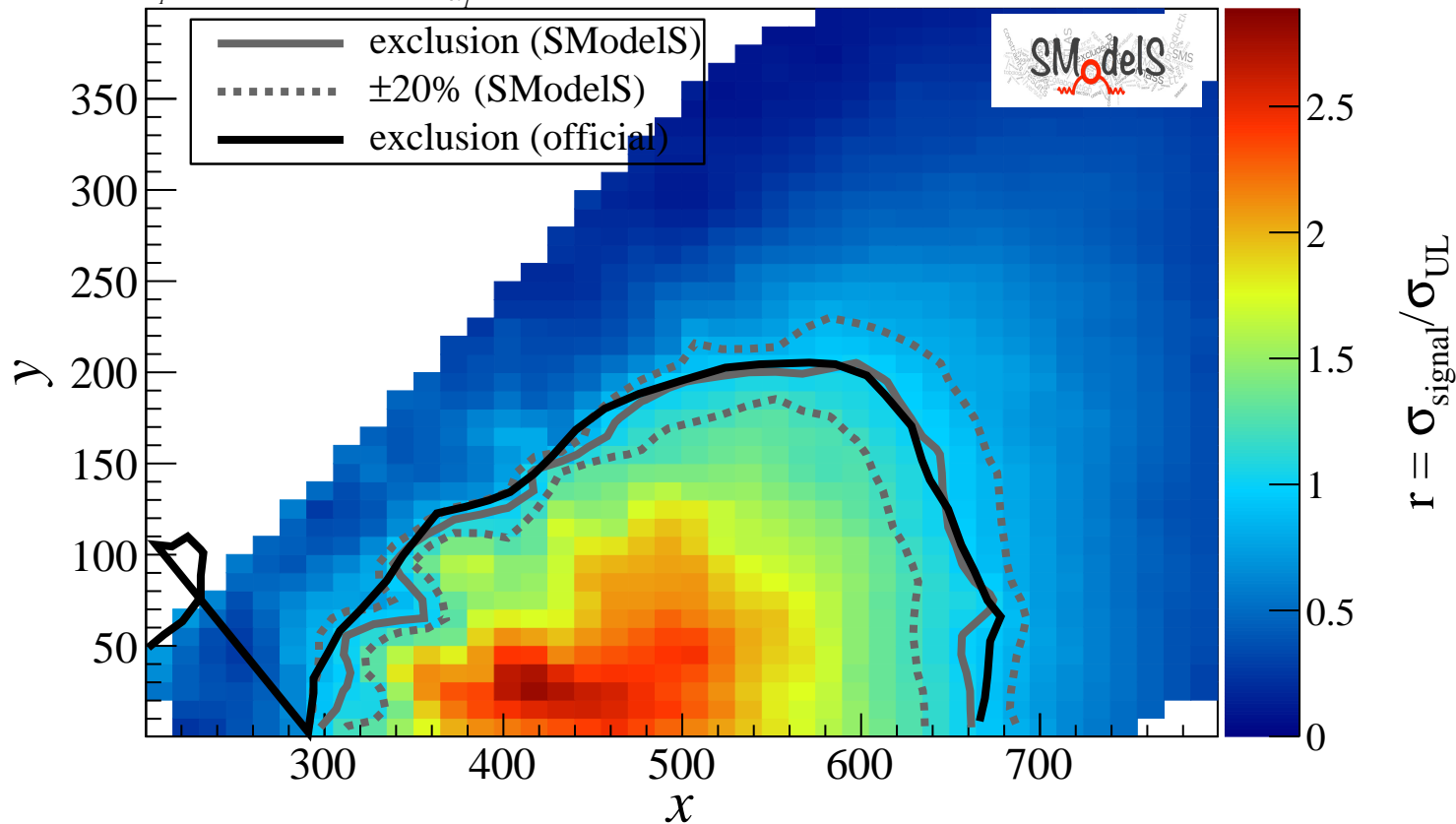# CMS-PAS-SUS-13-023 (upperLimit)

$T6bbWW: pp \rightarrow \tilde{t}\,\tilde{t},\ \tilde{t} \rightarrow b\,\tilde{\chi}_1^{\pm},\ \tilde{\chi}_1^{\pm} \rightarrow W\,\tilde{\chi}_1^0$

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

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

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

official plot:
https://twiki.cern.ch/twiki/pub/CMSPublic/PhysicsResultsSUS13023//T2bw_0p50_observed_xsection_UL.pdf