

138 fb⁻¹ (13 TeV)

CMS

$pp \rightarrow \tilde{t} \tilde{t}^*, \tilde{t} \rightarrow t \tilde{S}, \tilde{S} \rightarrow S \tilde{G}, S \rightarrow b \bar{b}$

95% CL upper limit

68% expected

95% expected

Observed limit

$\sigma_{\tilde{t} \tilde{t}^*}$ (NNLO+NNLL)

$B(\tilde{t} \rightarrow t \tilde{S}) = 1.0$

$B(\tilde{S} \rightarrow S \tilde{G}) = 1.0, B(S \rightarrow b \bar{b}) = 1.0$

$m_{\tilde{S}} = 100 \text{ GeV}, m_{\tilde{G}} = 1 \text{ GeV}, m_S = 90 \text{ GeV}$

