

137 fb⁻¹ (13 TeV)**CMS** $pp \rightarrow \tilde{t} \bar{\tilde{t}}, \tilde{t} \rightarrow t \tilde{S}g, \tilde{S} \rightarrow S \tilde{G}, S \rightarrow gg$

68% expected

95% expected

Observed limit

 $\sigma_{\tilde{t} \bar{\tilde{t}}} \text{ (NNLO+NNLL)}$ 95% CL upper limit on $\sigma_{\tilde{t} \bar{\tilde{t}}}$ [pb] $B(\tilde{t} \rightarrow t \tilde{S}g) = 1.0, m_{\tilde{S}} = 100 \text{ GeV}$ $B(\tilde{S} \rightarrow S \tilde{G}) = 1.0, m_{\tilde{G}} = 1 \text{ GeV}, m_S = 90 \text{ GeV}$ $B(S \rightarrow gg) = 1.0$ $m_{\tilde{t}} [\text{GeV}]$ 