

138 fb<sup>-1</sup> (13 TeV)

**CMS**

$t\bar{t}\phi(\rightarrow\tau\tau)$ , Scalar  $\phi$

$\sigma(t\bar{t}\phi) B(\phi\rightarrow\tau\tau)$  (pb)

—  $g_{ts} = 0.1, B(\phi\rightarrow\tau\tau) = 1$

95% CL upper limits

— Observed

----- Median expected

■ 68% expected

■ 95% expected

50 100 150 200 250 300 350

$\phi$  mass (GeV)

