

138 fb⁻¹ (13 TeV)

CMS

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

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

10⁴
10³
10²
10
1
10⁻¹
10⁻²
10⁻³
10⁻⁴

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

95% CL upper limits

— Observed

----- Median expected

■ 68% expected

■ 95% expected

50

100

150

200

250

300

350

ϕ mass (GeV)

