

34.7 fb⁻¹ (13.6 TeV)

Events

CMS

$g_{\text{prompt-veto}} > 0.985$

$gg \rightarrow H, H \rightarrow SS$

$S \rightarrow b\bar{b}$

$B(H \rightarrow SS) = 1\%$

● Data

■ Predicted background

--- $m_S = 40$ GeV, $c\tau_0 = 1$ mm

--- $m_S = 40$ GeV, $c\tau_0 = 10$ mm

--- $m_S = 40$ GeV, $c\tau_0 = 100$ mm

