

34.7 fb<sup>-1</sup> (13.6 TeV)

Events

**CMS**  
*Preliminary*

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

$gg \rightarrow H, H \rightarrow SS$

$S \rightarrow b\bar{b}$

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

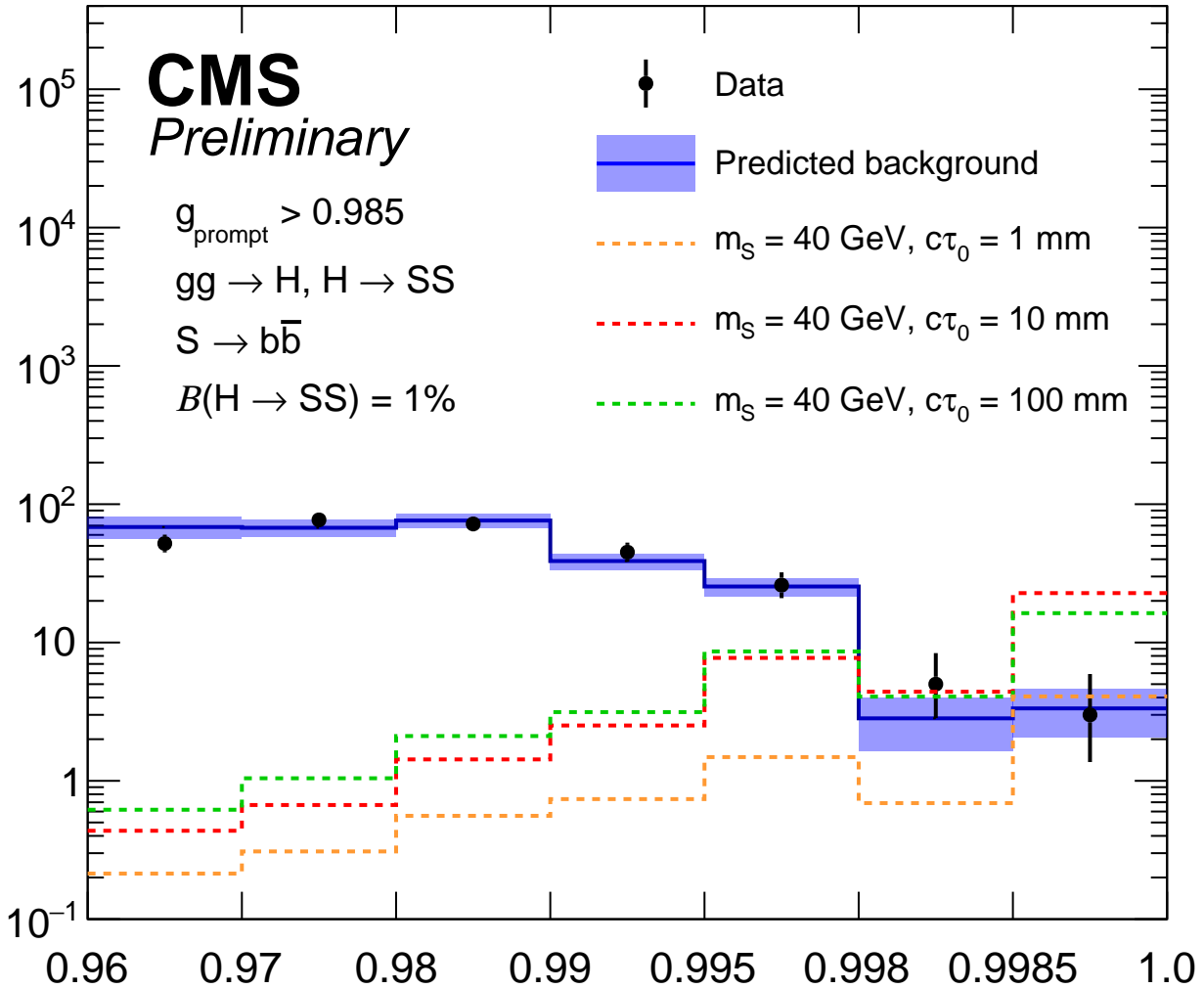
• Data

■ 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



Displaced-dijet GNN score  $g_{\text{displaced}}$