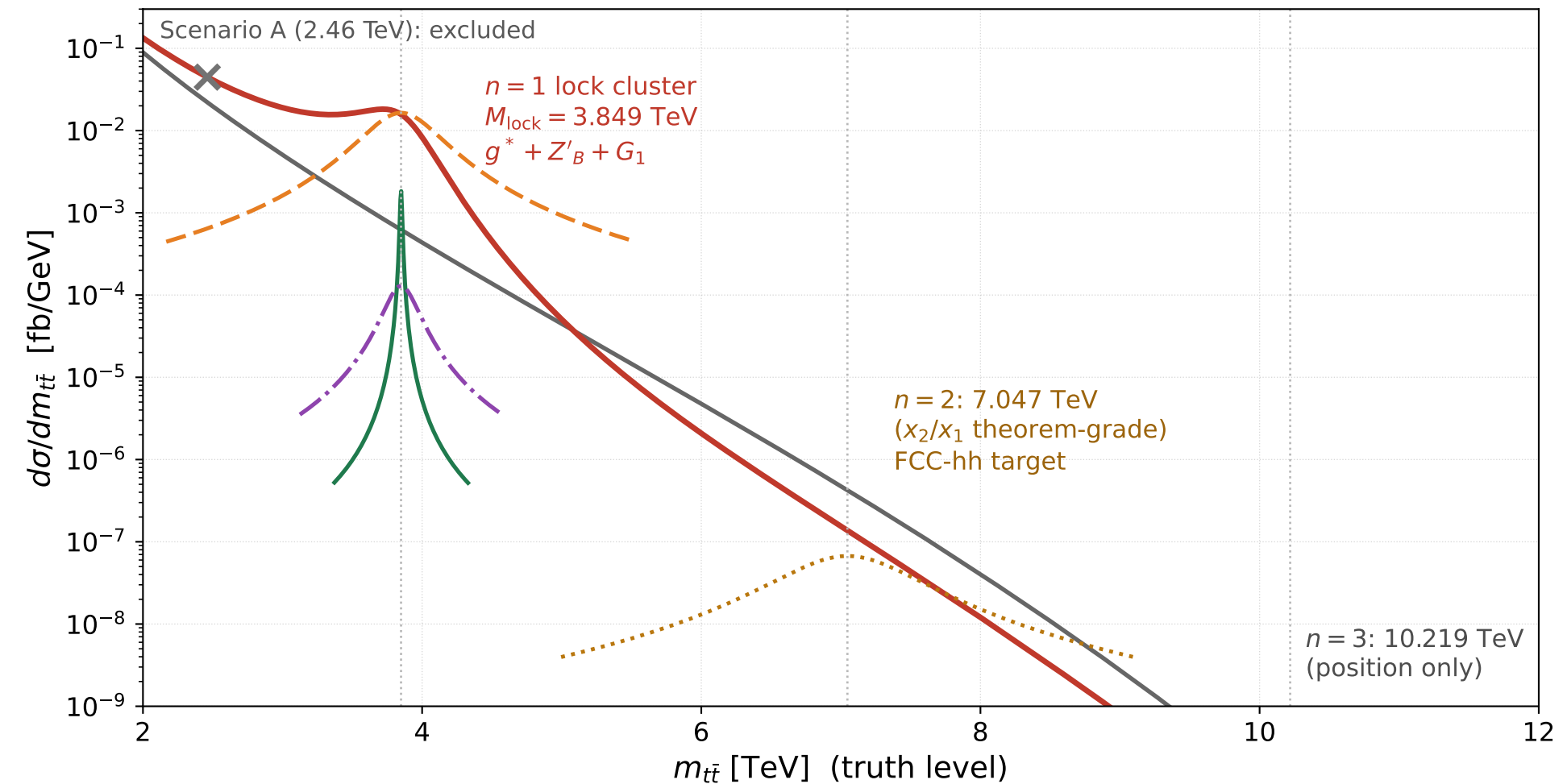


# Expected GG-6 signals in the $t\bar{t}$ invariant-mass spectrum at the LHC ( $\sqrt{s} = 14$ TeV)



- SM  $q\bar{q} \rightarrow t\bar{t}$  continuum (LO)
- SM +  $g^*$  octet, coherent (derived interference);  $\sigma \times \text{BR} = 13.6$  fb at 14 TeV (8.7 fb at 13 TeV)
- -  $g^*$  octet alone: 13.6 fb,  $\Gamma/m = 14.6\%$  (broad)
- $Z'_B$  alone (leptophobic,  $g_B = 0.2$  ref.): 0.047 fb,  $\Gamma/m \approx 0.4\%$  (narrow)
- ·  $G_1$  alone (spin-2 anchor,  $\kappa_{gg} = 0.47/K$ ): 0.048 fb,  $\Gamma/m = 6.3\%$
- $n = 2$  octet at 7.047 TeV (position theorem-grade; rate model estimate  $\sim 10^{-4}$  fb)