

Signal selection efficiency (%)

CMS*Simulation*

—◆— Both cat.

○ Both cat.

□ Both cat.

 $gg \rightarrow HH \rightarrow \gamma\gamma b\bar{b}$, $c_2=0$.- - * High-purity cat. $\kappa_t=1$.■ High-purity cat. $\kappa_t=0.75$.▲ High-purity cat. $\kappa_t=1.25$. $M_{\gamma\gamma jj}^{\text{kin}} < 350 \text{ GeV}$ 