

CMS $35.9 \text{ fb}^{-1} (13 \text{ TeV})$

Events/(1 GeV)

 $pp \rightarrow HH \rightarrow b\bar{b}\gamma\gamma$

● Data

High-mass region

— Full background model

Medium-purity category

- - - Nonresonant background

— SM HH signal (x100)

