

CMS Preliminary

35.9 fb<sup>-1</sup> (13 TeV)

Events/(1 GeV)

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

High mass region

High purity category

● Data

— Full background model

⋯ Nonresonant background

— SM HH Signal (x20)

100 110 120 130 140 150 160 170 180

$M(\gamma\gamma)$  [GeV]

