

CMS $138 \text{ fb}^{-1} (13 \text{ TeV})$

Events / (1 GeV)

(Spin-0) $X \rightarrow HY \rightarrow \gamma\gamma b\bar{b}$ $m_H = 125 \text{ GeV}$ $m_Y = 90 \text{ GeV}$

CAT 0

• Data

- - - S+B fit

— B component

■ $\pm 1 \sigma$ ■ $\pm 2 \sigma$ 