

CMS (Unpublished)

$L = 19.7 \text{ fb}^{-1}$

$\sqrt{s} = 8 \text{ TeV}$

Events / 2 GeV

Signal for $\Lambda = 1 \text{ TeV}$

- $M_X = 300 \text{ GeV} \times 2$
- $M_X = 500 \text{ GeV} \times 8$
- $M_X = 700 \text{ GeV} \times 17$
- $M_X = 1000 \text{ GeV} \times 48$

Data and backgrounds

- Data
- standard model Higgs
- Z/W+g/gg
- t/tt+gg/gj
- QCD

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

100 110 120 130 140 150 160 170 180
 $m_{\gamma\gamma} \text{ (GeV)}$

