

2.3 fb⁻¹ (13 TeV)

CMS

$Z' \rightarrow \text{DM} + H(2\text{HDM})$

$H \rightarrow b\bar{b} + H \rightarrow \gamma\gamma$

$g_{Z'} = 0.8$

● observed

- - expected

● $m_{A0} = 300 \text{ GeV}$

● $m_{A0} = 400 \text{ GeV}$

● $m_{A0} = 500 \text{ GeV}$

● $m_{A0} = 600 \text{ GeV}$

● $m_{A0} = 700 \text{ GeV}$

● $m_{A0} = 800 \text{ GeV}$

$\sigma_{95\% \text{ CL}} / \sigma_{\text{th}}$

100

80

60

40

20

0

500 1000 1500 2000 2500
 $m_{Z'} [\text{GeV}]$

