

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

● $m_{A0} = 300 \text{ GeV}$ ● $m_{A0} = 400 \text{ GeV}$ ● $m_{A0} = 500 \text{ GeV}$ ● $m_{A0} = 600 \text{ GeV}$ ● $m_{A0} = 700 \text{ GeV}$ ● $m_{A0} = 800 \text{ GeV}$ $\sigma_{95\% \text{ CL}} / \sigma_{\text{th}}$ 10²

10

1

10⁻¹

500

1000

1500

2000

2500

 $m_{Z'} [\text{GeV}]$