

2.3 fb⁻¹ (13 TeV)

CMS
 $Z' \rightarrow DM + H(bb)$ (2HDM)
 $M_{A0} = 300$ GeV, $M_\chi = 100$ GeV

- CL_S Observed
- CL_S Expected $\pm 1\sigma$
- CL_S Expected $\pm 2\sigma$
- - - $\sigma_{TH}, g_Z \leq 0.03 \times \frac{g_W}{\cos\theta_W \times \sin^2\beta} \times \frac{\sqrt{M_{Z'}^2 - M_Z^2}}{M_Z}$
- - - $\sigma_{TH}, g_Z = 0.8$

$H \rightarrow \gamma\gamma$

$H \rightarrow bb$

