

35.9 fb<sup>-1</sup> (13 TeV)

tan $\beta$

**CMS Preliminary**

Z'-2HDM, Dirac DM

$m_\chi = 100$  GeV,  $g_{Z'} = 0.8$ ,  $g_\chi = 1$ ,  $m_A = m_{H^\pm} = m_H$

Observed exclusion

DM +  $h(b\bar{b} + \gamma\gamma + \tau\tau + WW + ZZ)$

—  $m_A = 300$  GeV

—  $m_A = 400$  GeV

—  $m_A = 600$  GeV

