

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

**CMS**

2HDM+a,  $h \rightarrow b\bar{b}$

$\tan \beta = 1$ ,  $m_\chi = 10$  GeV,  $m_A = m_H = m_{H^\pm}$

Solid (dashed) lines: observed (expected) limit at 95% CL

Unc. band:  $\pm 1$  std. dev. on exp. limit

$\mu = \sigma / \sigma_{\text{theory}}$

100

10

1

0.1

0.1

0.2

0.3

0.4

0.5




0.6

0.7

0.8

0.9

$\sin \theta$

-   $m_a = 200$  GeV,  $m_A = 600$  GeV
-   $m_a = 350$  GeV,  $m_A = 1000$  GeV
-  theory uncertainty