CMS Preliminary

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

$\sin \theta = 0.35, \ m_\chi = 10 \text{ GeV}, \ m_A = m_H = m_H^\pm = 600 \text{ GeV}$

solid (dashed) lines: observed (expected) limit
unc. band: $\pm 1$ std. dev. on exp. limit

$\pm 20\%$ theory uncertainty

$95\% \text{ C.L. asymptotic limit on } \mu = \sigma / \sigma_{\text{theory}}$

Legend:

- $m_a = 100 \text{ GeV}$
- $m_a = 150 \text{ GeV}$
- $m_a = 200 \text{ GeV}$
- $m_a = 250 \text{ GeV}$
- $m_a = 300 \text{ GeV}$