

**CMS** $35.9 \text{ fb}^{-1} (13 \text{ TeV})$  $m_{H^4} \text{ (GeV)}$ 500  
450  
400  
350  
300  
250  
200  
150  
100  
50

2HDM+a

- Median expected 95% CL
- ⋯ Exp.  $\pm 1\sigma_{\text{experiment}}$
- Observed 95% CL
- ⋯ Obs.  $\pm 1\sigma_{\text{theory}}$

Observed  $\sigma_{95\% \text{ CL}}/\sigma_{\text{theory}}$  $10^2$   
10  
1  
 $10^{-1}$   
 $10^{-2}$  $\tan\beta \text{ (GeV)}$ 

5 10 15 20 25 30 35 40 45 50

