

$A \rightarrow Zh \rightarrow llb\bar{b}$ $L = 19.7 \text{ fb}^{-1}$ (8 TeV) $\tan\beta$ **CMS***Unpublished***95% CL limits**

— Observed

▨ Excluded region

- - - Expected

— Expected $\pm 1\sigma$ — Expected $\pm 2\sigma$

10

1

 10^{-1} **Type-I 2HDM** $m_A = 275 \text{ GeV}$

-1

-0.5

0

0.5

1

 $\cos(\beta-\alpha)$ 