

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

— Observed

/// Excluded region

- - - Expected

■ Expected $\pm 1\sigma$ ■ Expected $\pm 2\sigma$

10

1

 10^{-1}

-1

-0.5

0

0.5

1

 $\cos(\beta - \alpha)$ **Type-I 2HDM** $m_A = 300 \text{ GeV}$