

138  $\text{fb}^{-1}$  (13 TeV)

$\omega_B$

**CMS** *Simulation Preliminary*

- Double b
- DeepDoubleB
- DeepAK8-MD Hbb vs. QCD
- PNet-MD Hbb vs. others
- PNet-MD Hbb vs. QCD
- Xbb vs. others
- Xbb vs. QCD (this work)

$10^{-1}$

$10^{-2}$

$10^{-3}$

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

$\varepsilon_S: m_{Z'} = 1 \text{ TeV}, \Gamma/m_{Z'} = 0.01\%$