19.7 fb⁻¹ at $\sqrt{s} = 8 \text{ TeV}$ Events / (2.33 GeV) 5 **CMS Preliminary** ggH powheg15 JHUgen 125 GeV 4 15.0 < pT4I < 30.0Asimov Data (SM m(H) = 125.6 GeV) $N_{fid}^{fit} = 3.45 \text{ (exp.} = 3.44)$ 3 $N_{other \, fid.}^{fit} = 0.30 \, (exp = 0.30)$ $N_{out}^{fit} = 0.17 \text{ (exp.} = 0.16)$ $N_{\text{wrong}}^{\text{fit}} = 0.26 \text{ (exp.} = 0.09)$ 2 $N_{ZZ}^{fit} = 4.70 \text{ (exp.} = 4.70)$ N_{7+X}^{fit} = 1.85 (exp. = 1.86) 115 130 120 125 140 135