19.7 fb⁻¹ at $\sqrt{s} = 8 \text{ TeV}$ Events / (2.33 GeV) **CMS** 5 Preliminary ggH powheg15 JHUgen 125 GeV 30.0 < pT4I < 60.04 Asimov Data (SM m(H) = 125.6 GeV) $N_{fid}^{fit} = 3.58 \text{ (exp.} = 3.69)$ 3 $N_{\text{other fid.}}^{\text{fit}} = 0.17 \text{ (exp = 0.17)}$ $N_{out}^{fit} = 0.21 \text{ (exp.} = 0.19)$ $N_{\text{wrong}}^{\text{fit}} = 0.46 \text{ (exp.} = 0.17)$ $N_{ZZ}^{fit} = 2.90 \text{ (exp.} = 2.89)$ N_{7+X}^{fit} = 2.55 (exp. = 2.55) 115 120 125 130 140 135