





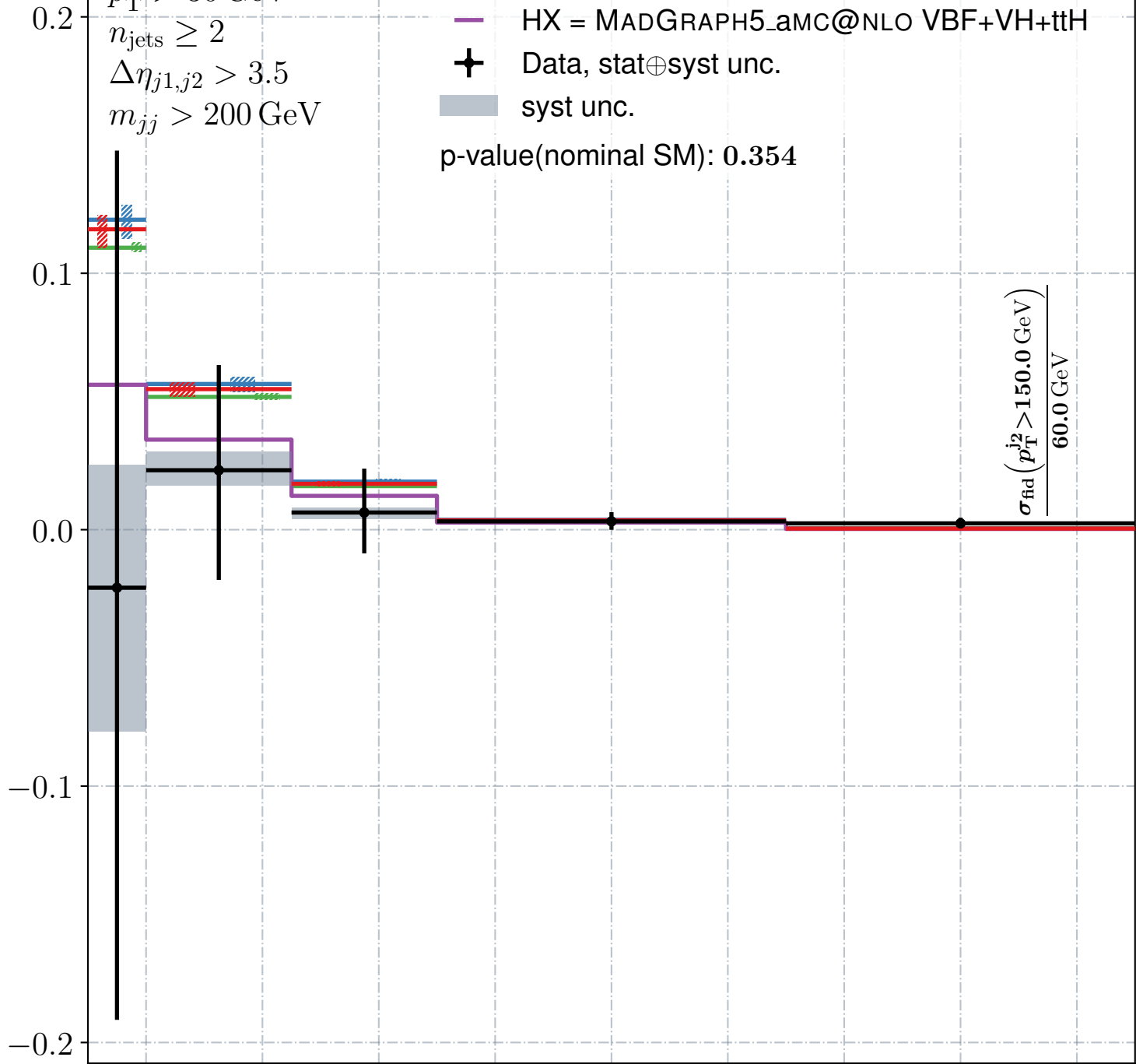


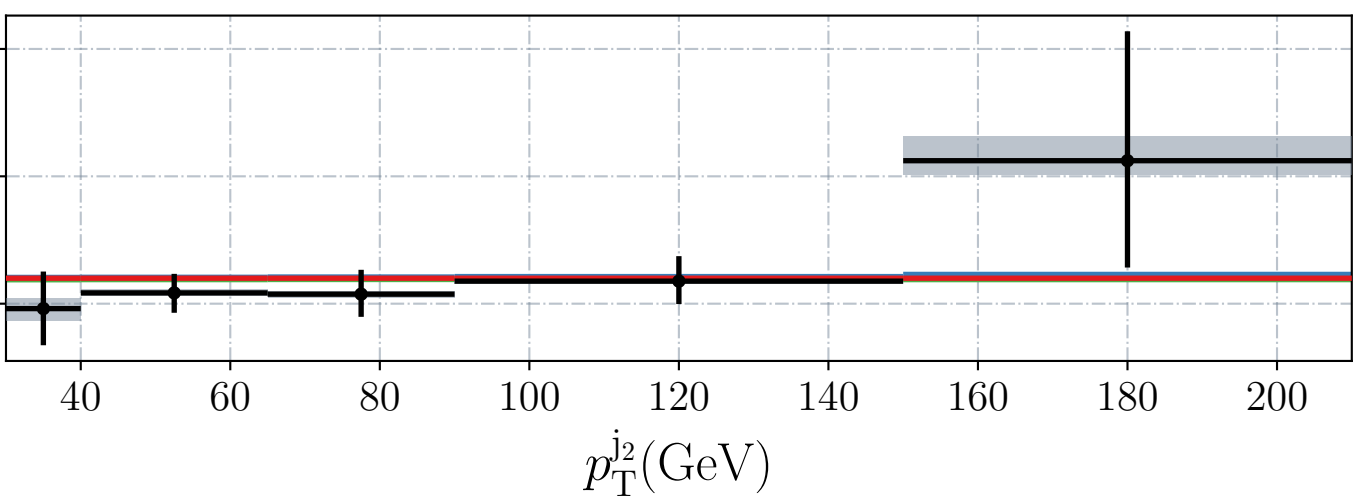
$\text{H} \rightarrow \gamma\gamma$   
 $|\eta^{j_i}| < 4.7$   
 $p_T^{j_i} > 30 \text{ GeV}$   
 $n_{\text{jets}} \geq 2$   
 $\Delta\eta_{j1,j2} > 3.5$   
 $m_{jj} > 200 \text{ GeV}$

-  MADGRAPH5\_aMC@NLO, NNLOPS ggH + HX
  -  MADGRAPH5\_aMC@NLO ggH + HX
  -  POWHEG ggH + HX
  -  HX = MADGRAPH5\_aMC@NLO VBF+VH+ttH
  -  Data, stat  $\oplus$  syst unc.
  -  syst unc.
- p-value(nominal SM): 0.354

$\Delta\sigma_{\text{fid}} / \Delta p_T^{j2} (\text{fb}/\text{GeV})$



Ratio to prediction



$p_T^{j2} (\text{GeV})$

$\sigma_{\text{fid}} (p_T^{j2} > 150.0 \text{ GeV})$   
 60.0 GeV