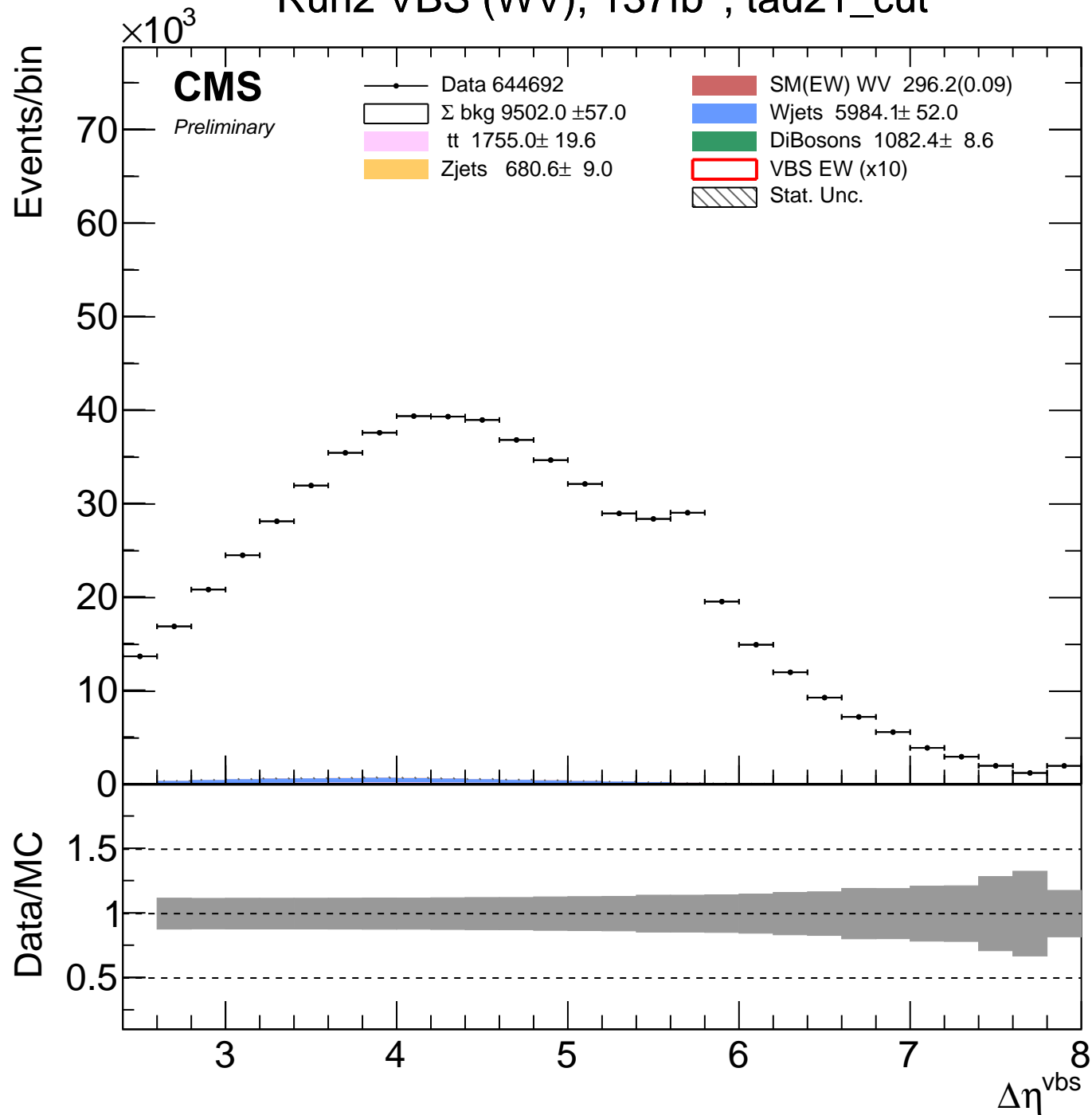
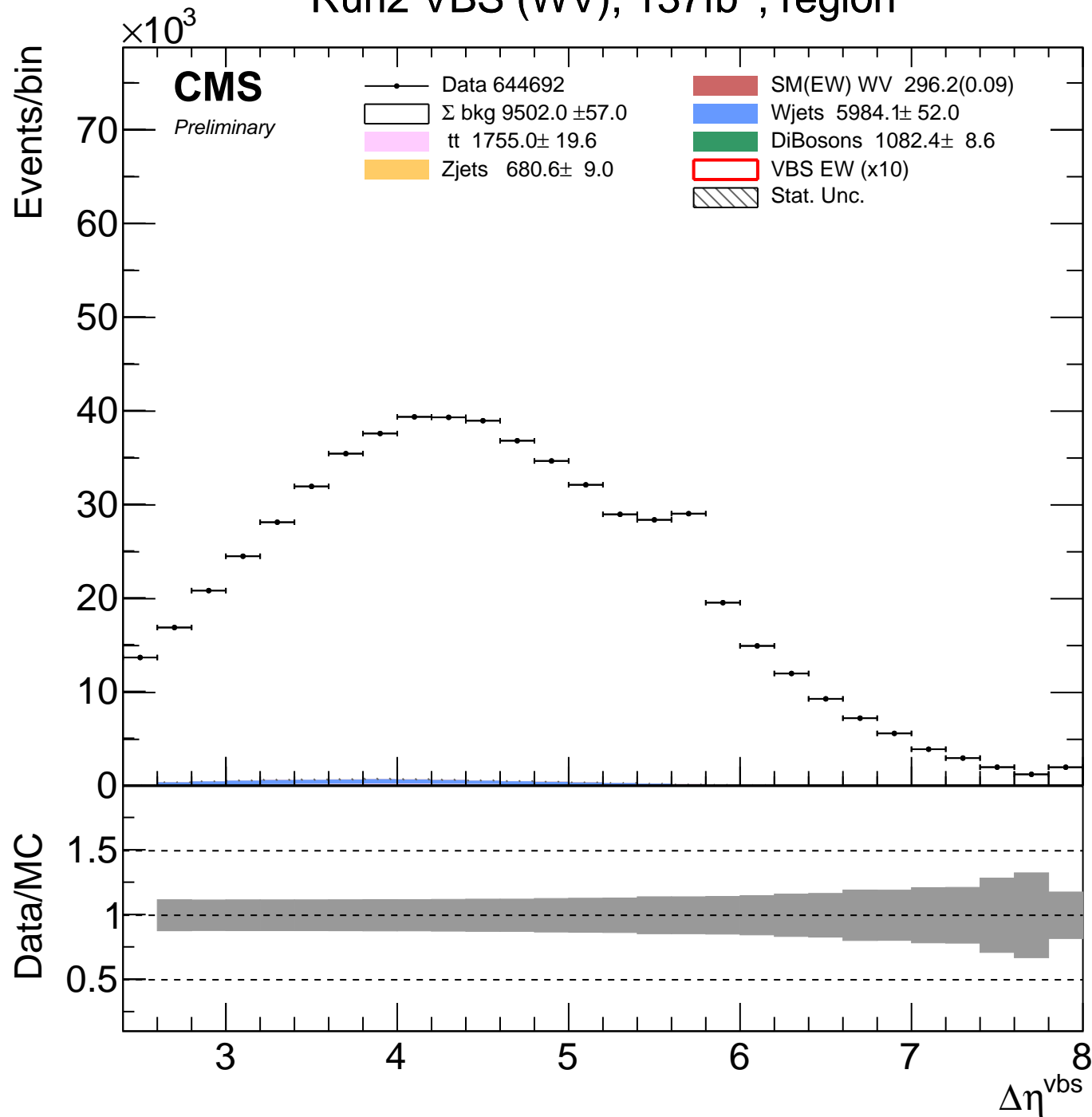


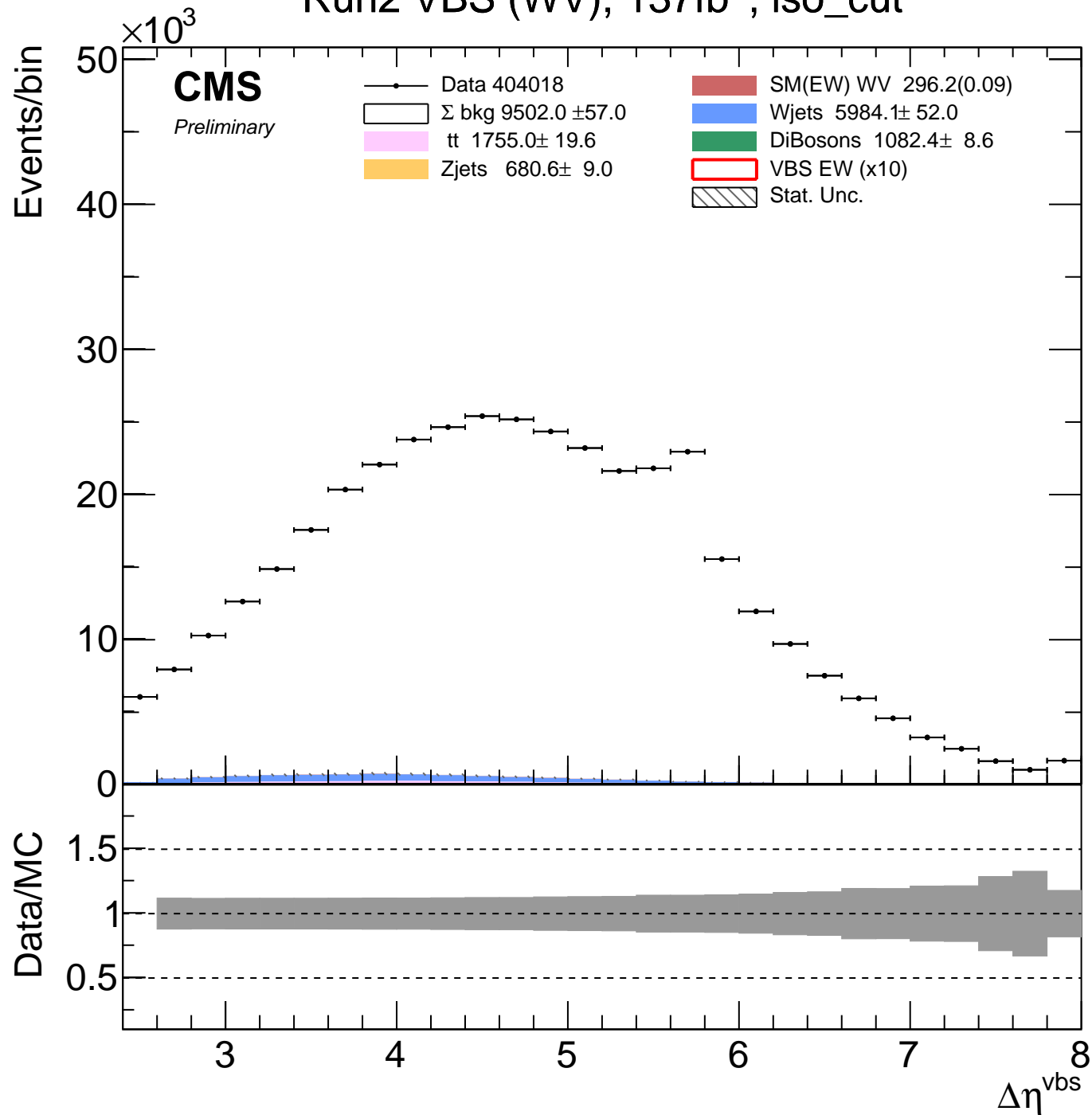
# Run2 VBS (WV), 137fb<sup>-1</sup>, tau21\_cut



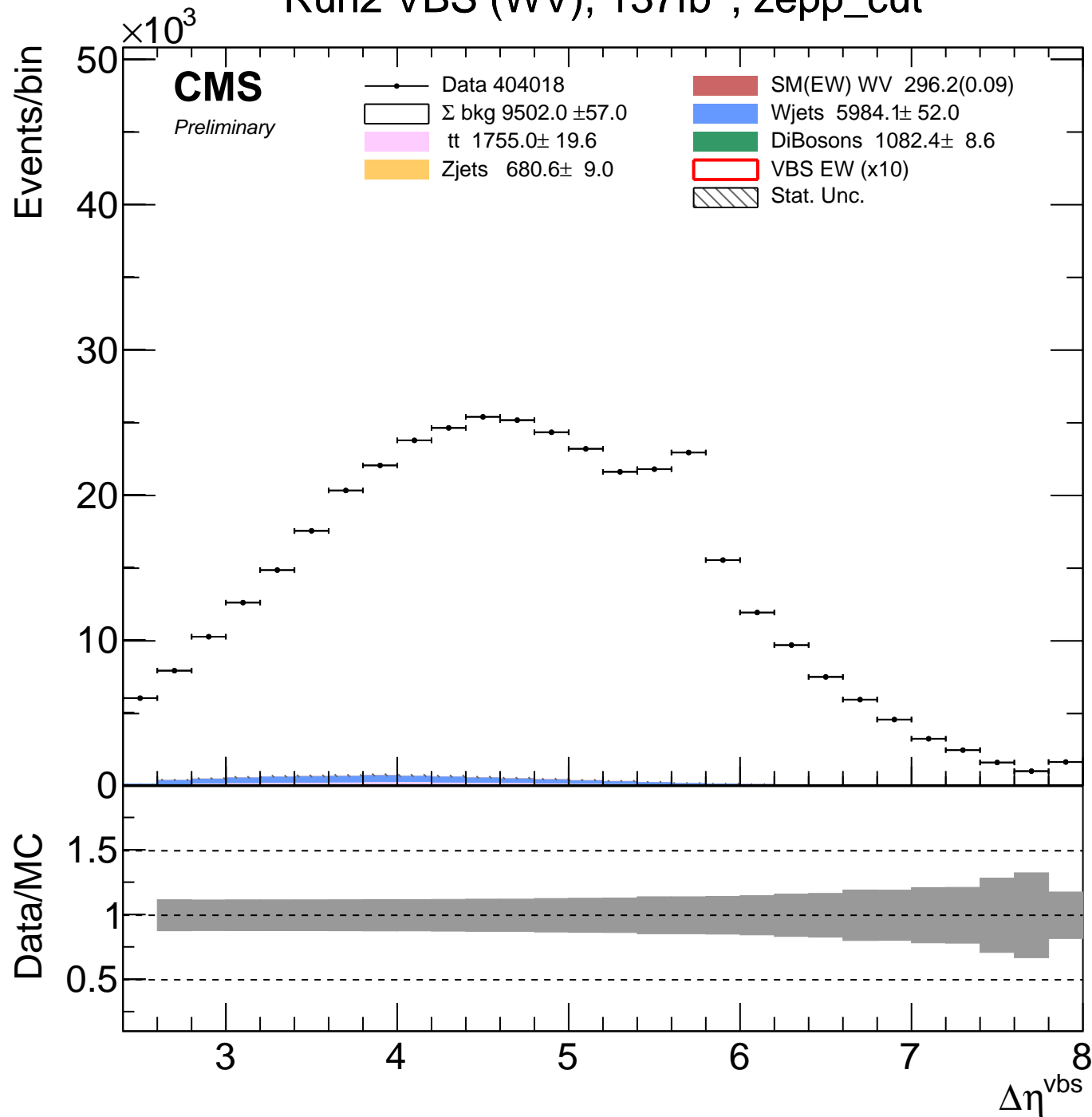
# Run2 VBS (WV), 137fb<sup>-1</sup>, region



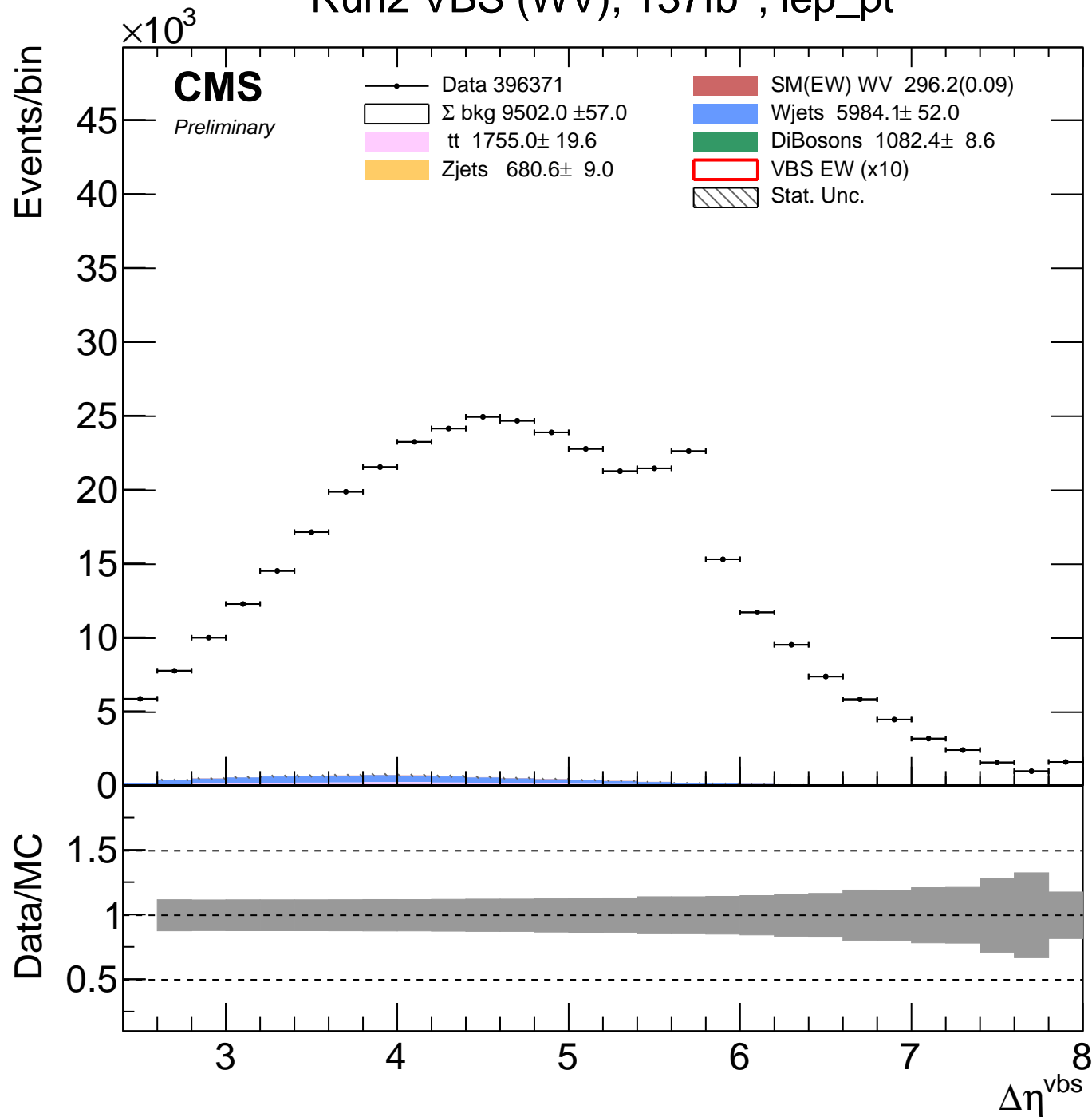
# Run2 VBS (WV), 137fb<sup>-1</sup>, iso\_cut



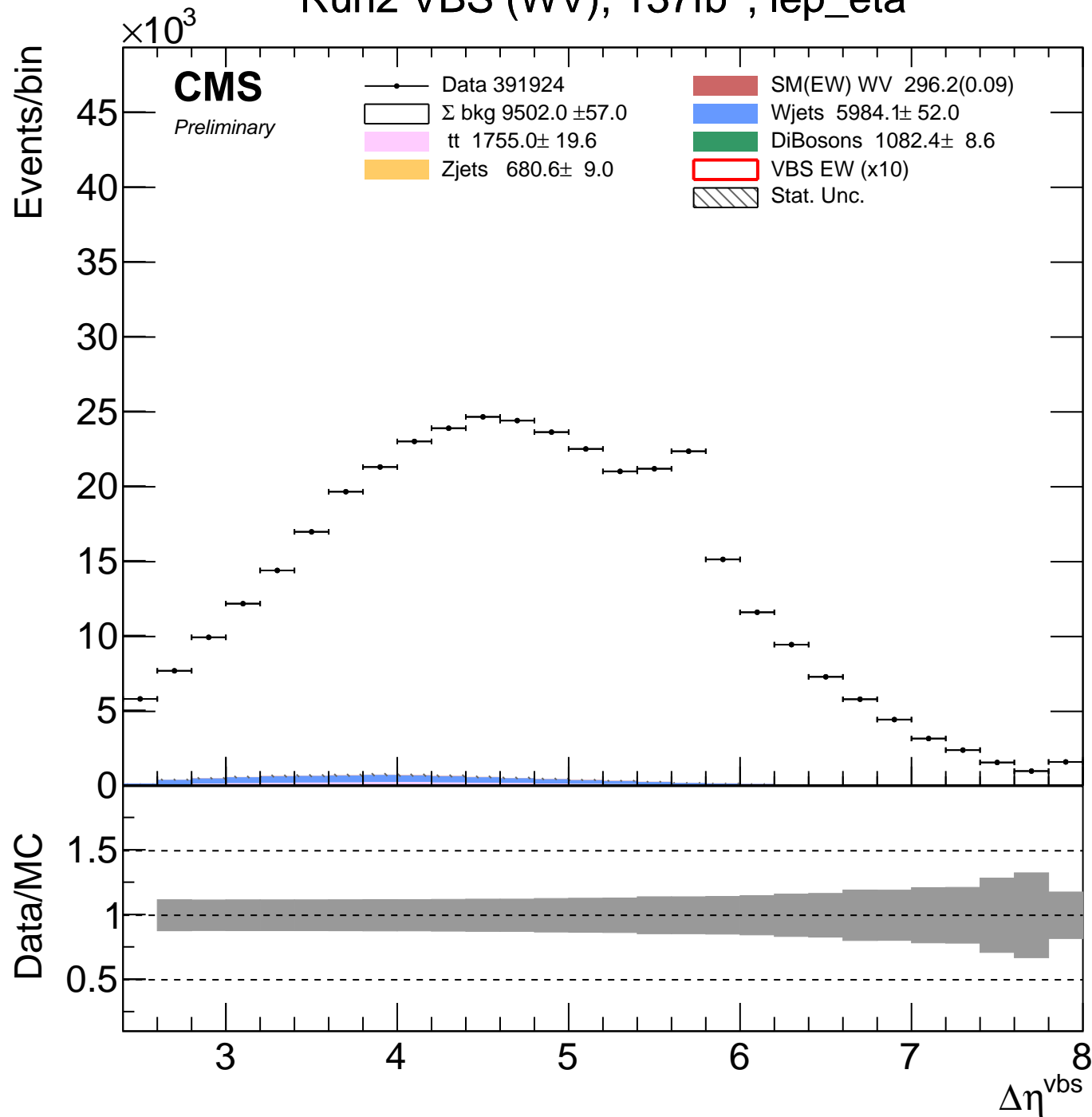
# Run2 VBS (WV), 137fb<sup>-1</sup>, zepp\_cut



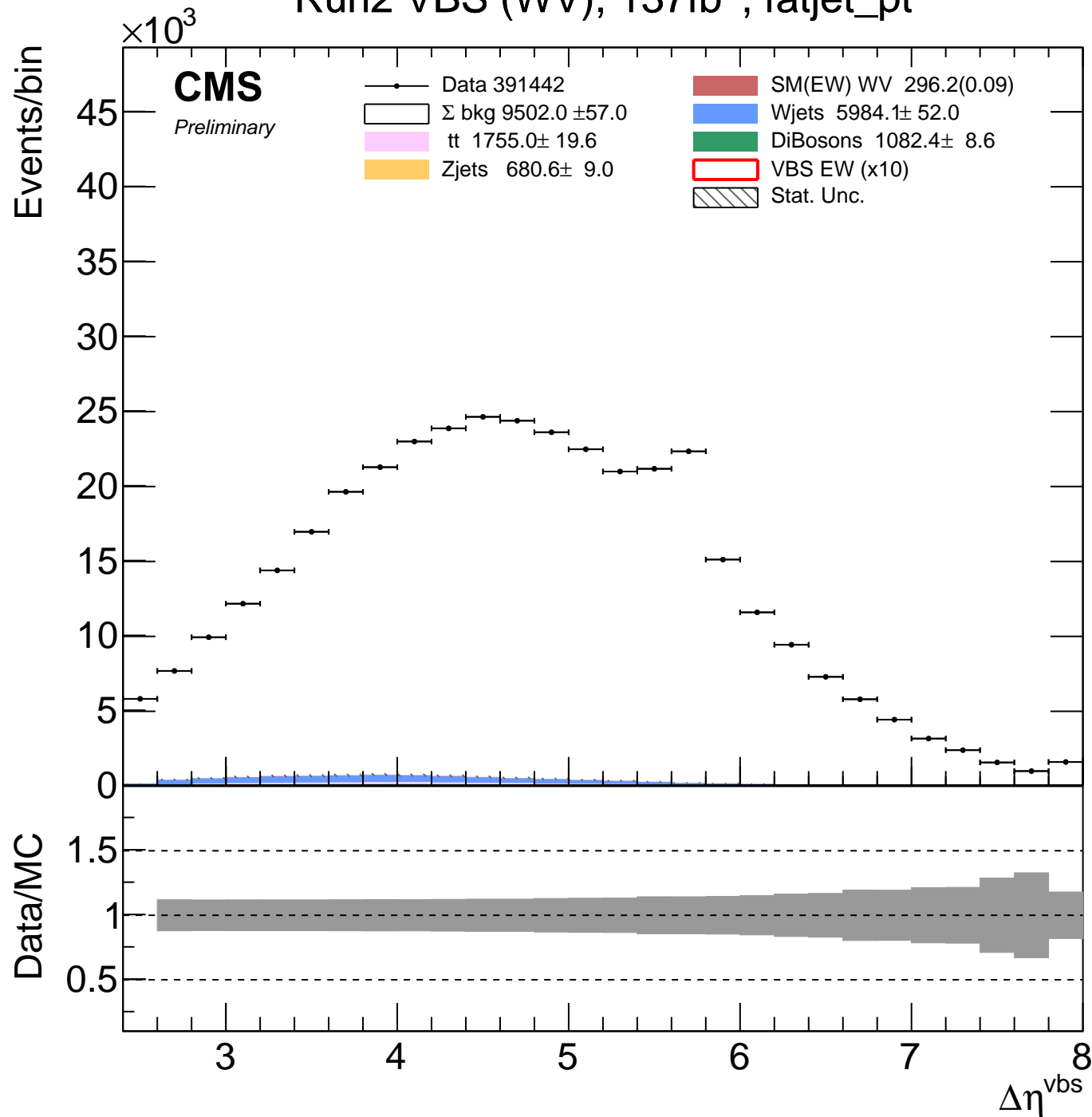
# Run2 VBS (WV), 137fb<sup>-1</sup>, lep\_pt



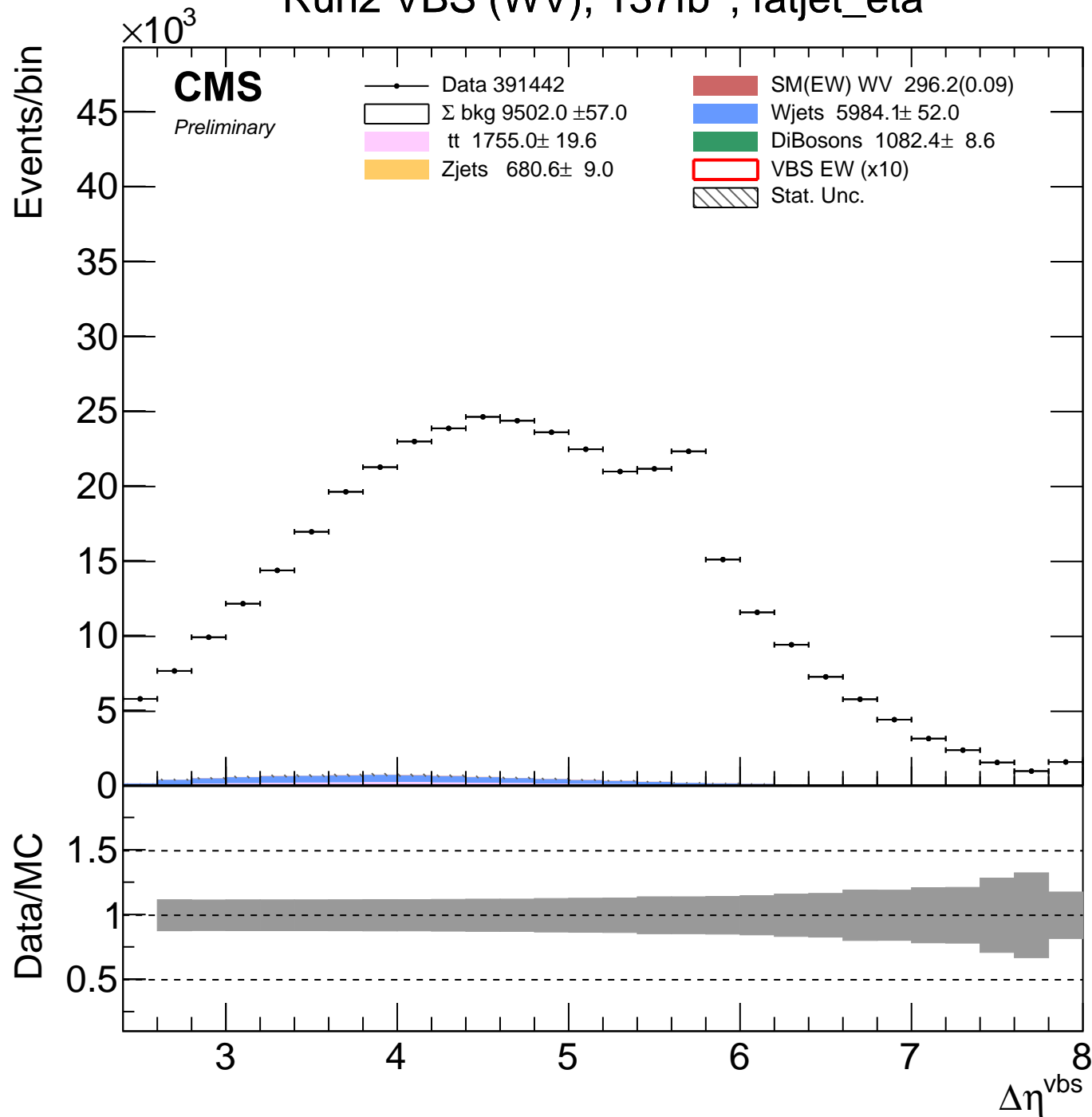
# Run2 VBS (WV), 137fb<sup>-1</sup>, lep\_eta



# Run2 VBS (WV), 137fb<sup>-1</sup>, fatjet\_pt

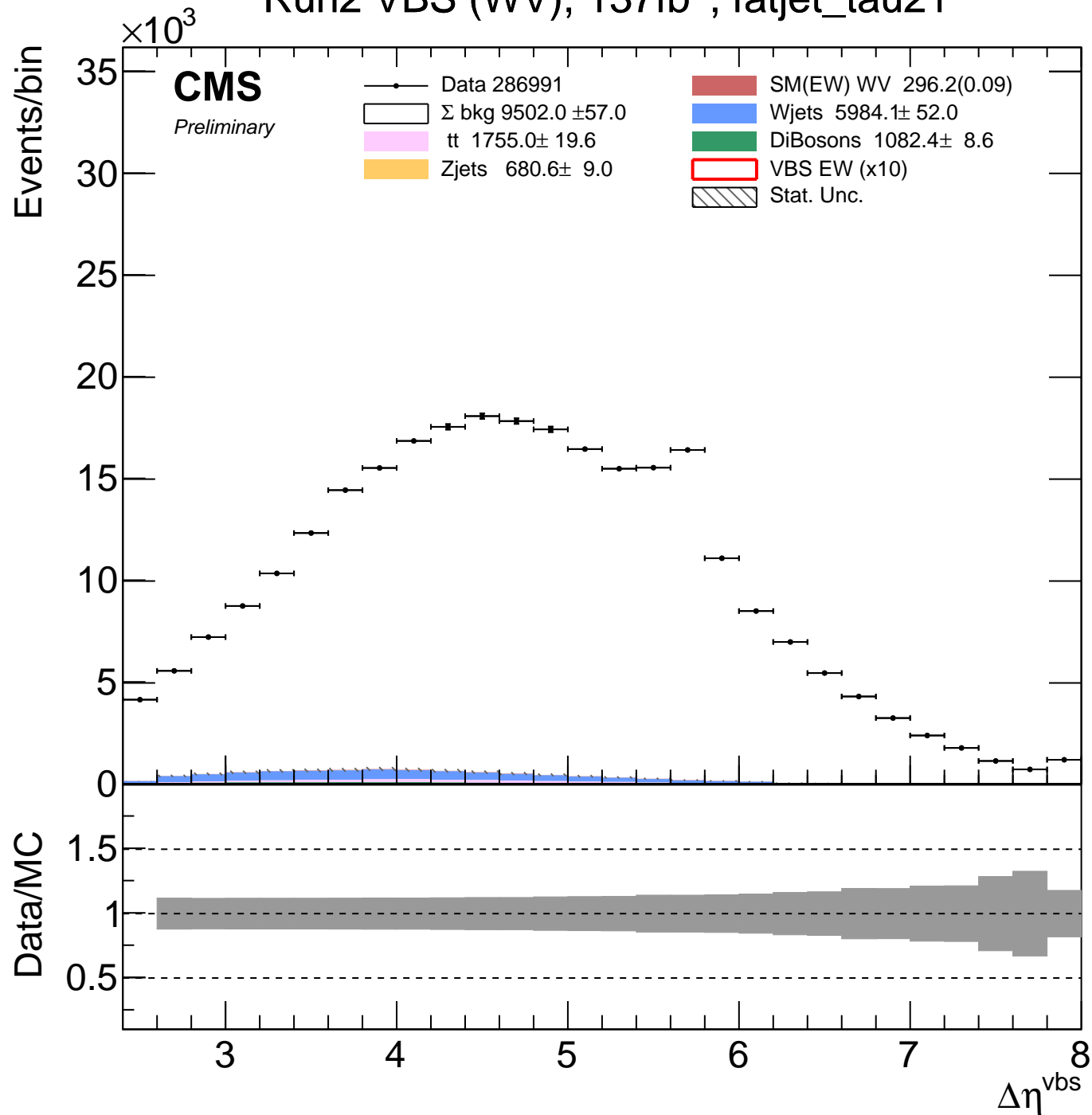


# Run2 VBS (WV), 137fb<sup>-1</sup>, fatjet\_eta

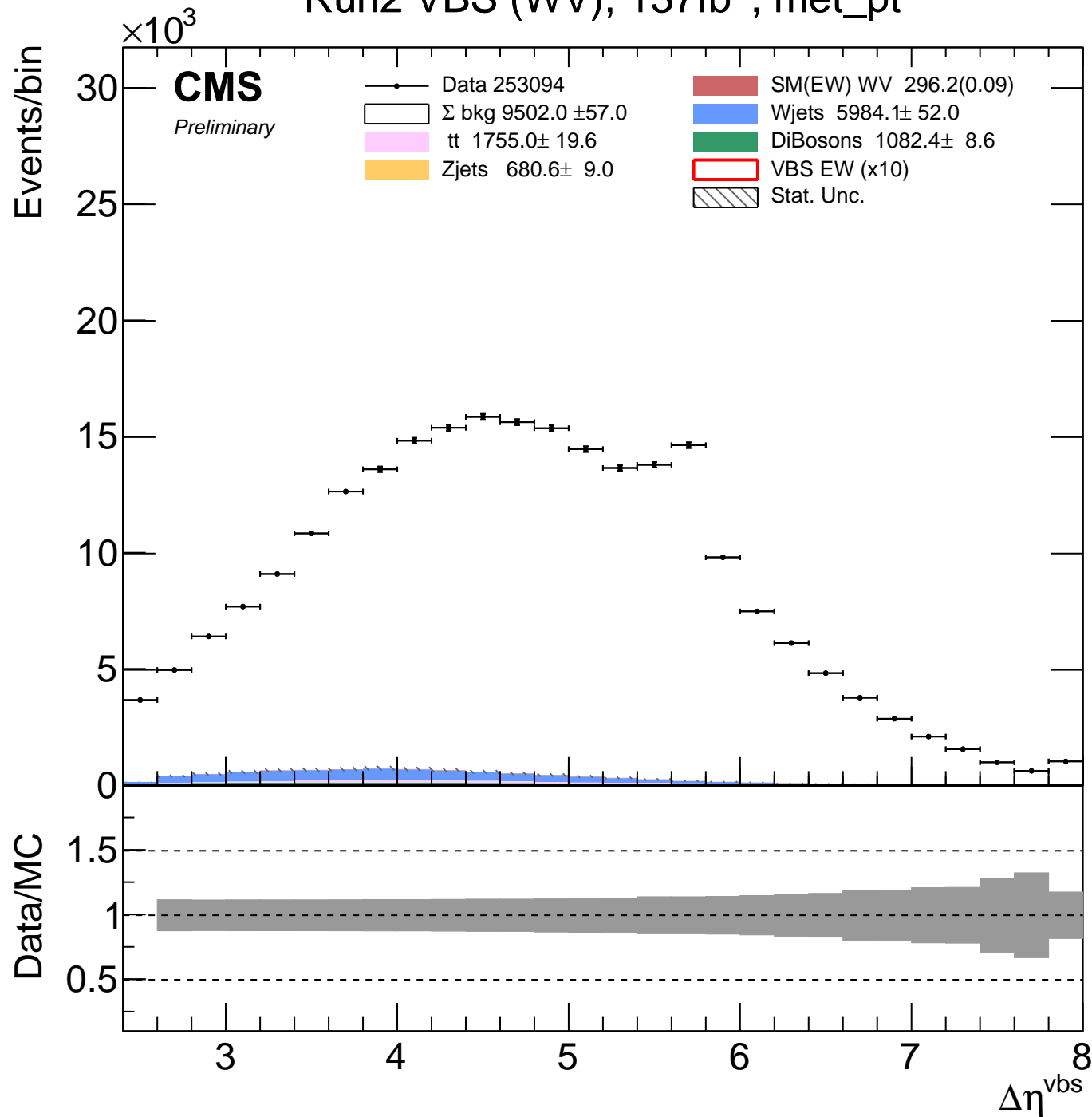




# Run2 VBS (WV), 137fb<sup>-1</sup>, fatjet\_tau21



# Run2 VBS (WV), 137fb<sup>-1</sup>, met\_pt



# Run2 VBS (WV), 137fb<sup>-1</sup>, btag\_veto

Events/bin

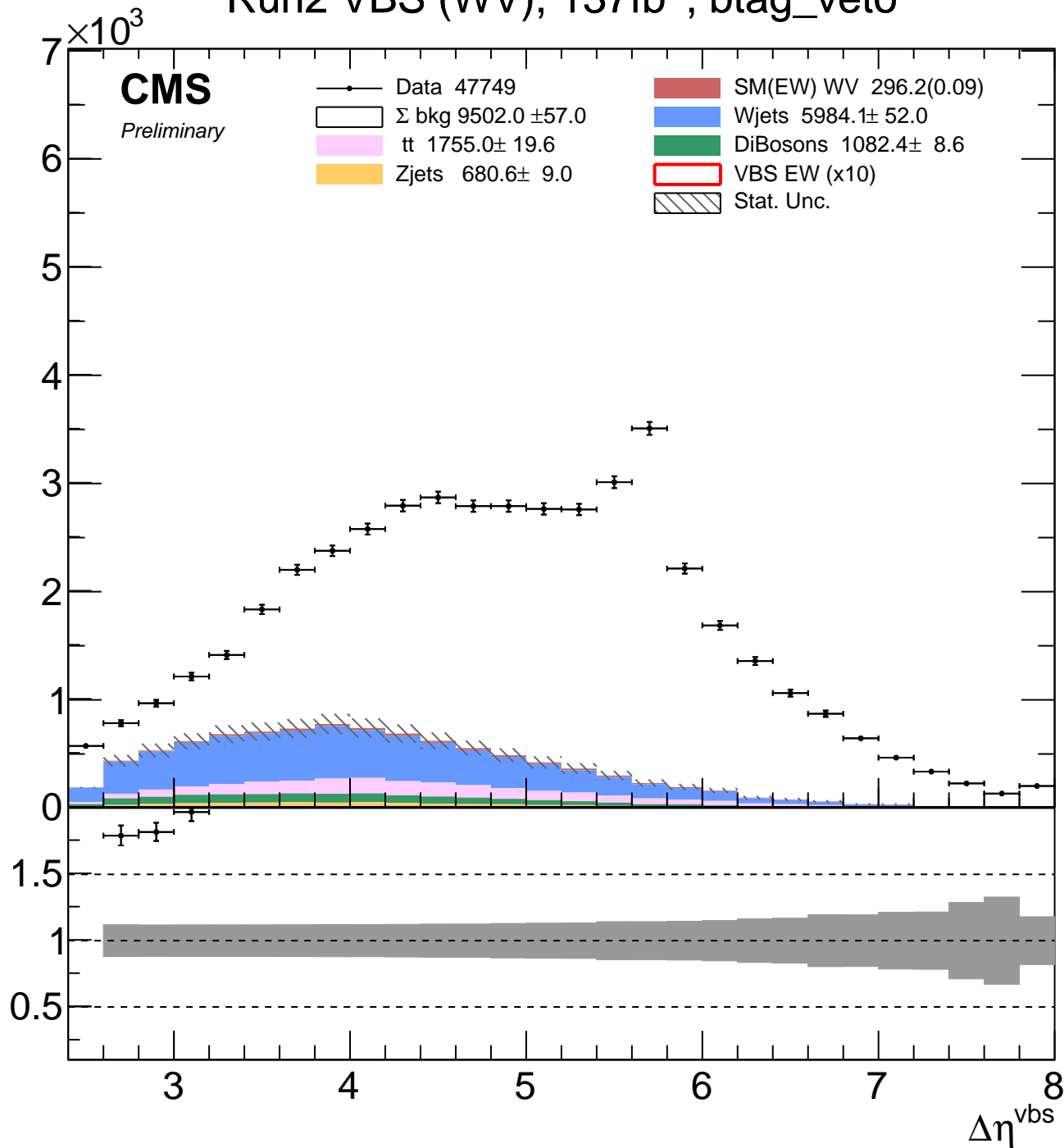
**CMS**

*Preliminary*

—•— Data 47749  
 □  $\Sigma$  bkg 9502.0  $\pm$  57.0  
 ■ tt 1755.0  $\pm$  19.6  
 ■ Zjets 680.6  $\pm$  9.0

■ SM(EW) WV 296.2(0.09)  
 ■ Wjets 5984.1  $\pm$  52.0  
 ■ DiBosons 1082.4  $\pm$  8.6  
 □ VBS EW (x10)  
 ▨ Stat. Unc.

Data/MC



# Run2 VBS (WV), 137fb<sup>-1</sup>, vbs\_jets\_mjj

Events/bin

**CMS**

*Preliminary*

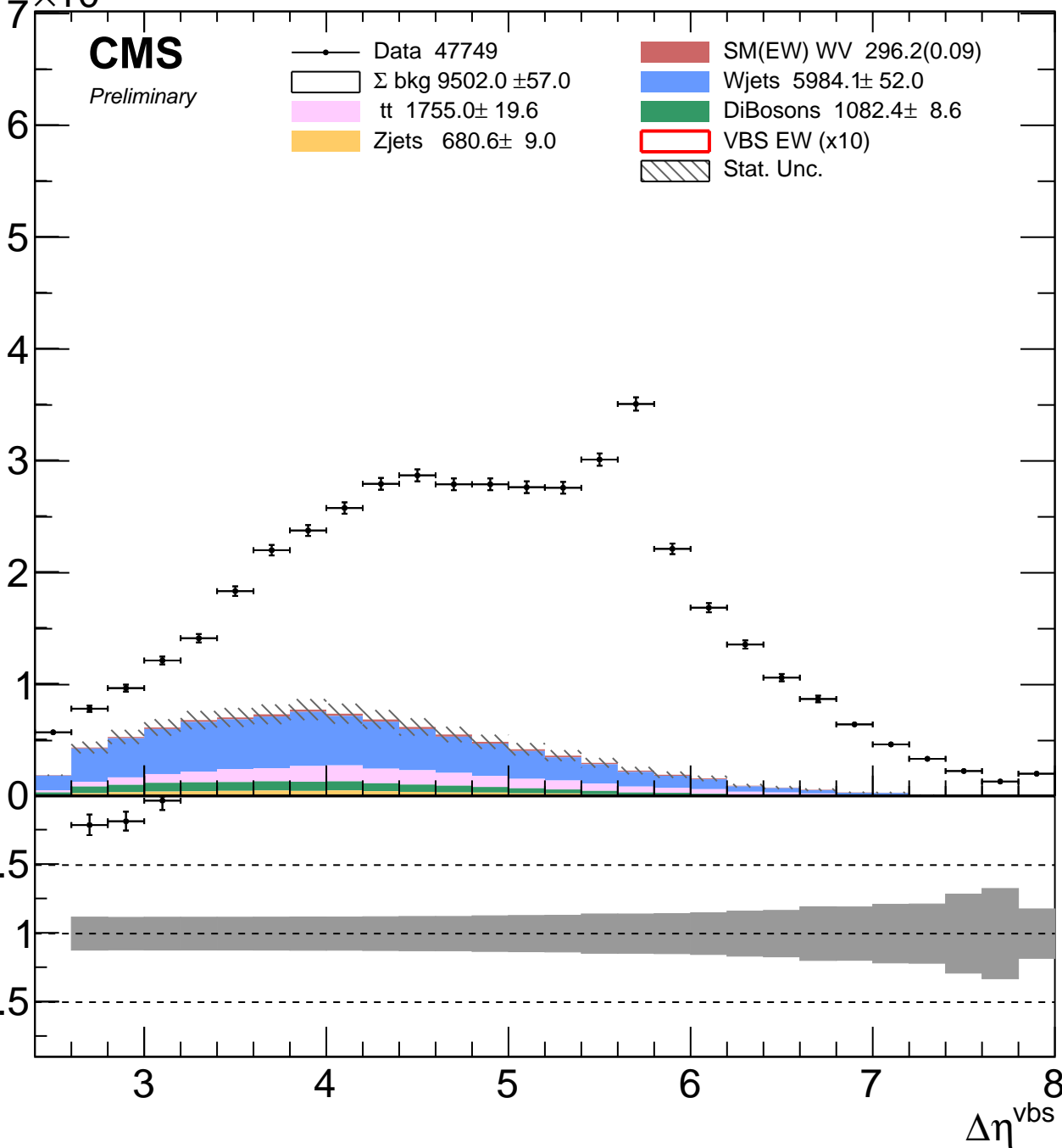
—•— Data 47749  
 □  $\Sigma$  bkg 9502.0  $\pm$  57.0  
 ■ tt 1755.0  $\pm$  19.6  
 ■ Zjets 680.6  $\pm$  9.0

■ SM(EW) WV 296.2(0.09)  
 ■ Wjets 5984.1  $\pm$  52.0  
 ■ DiBosons 1082.4  $\pm$  8.6  
 □ VBS EW (x10)  
 ▨ Stat. Unc.

Data/MC

1.5  
1  
0.5

$\Delta\eta^{\text{vbs}}$



# Run2 VBS (WV), 137fb<sup>-1</sup>, vbs\_delta\_eta

Events/bin

**CMS**

*Preliminary*

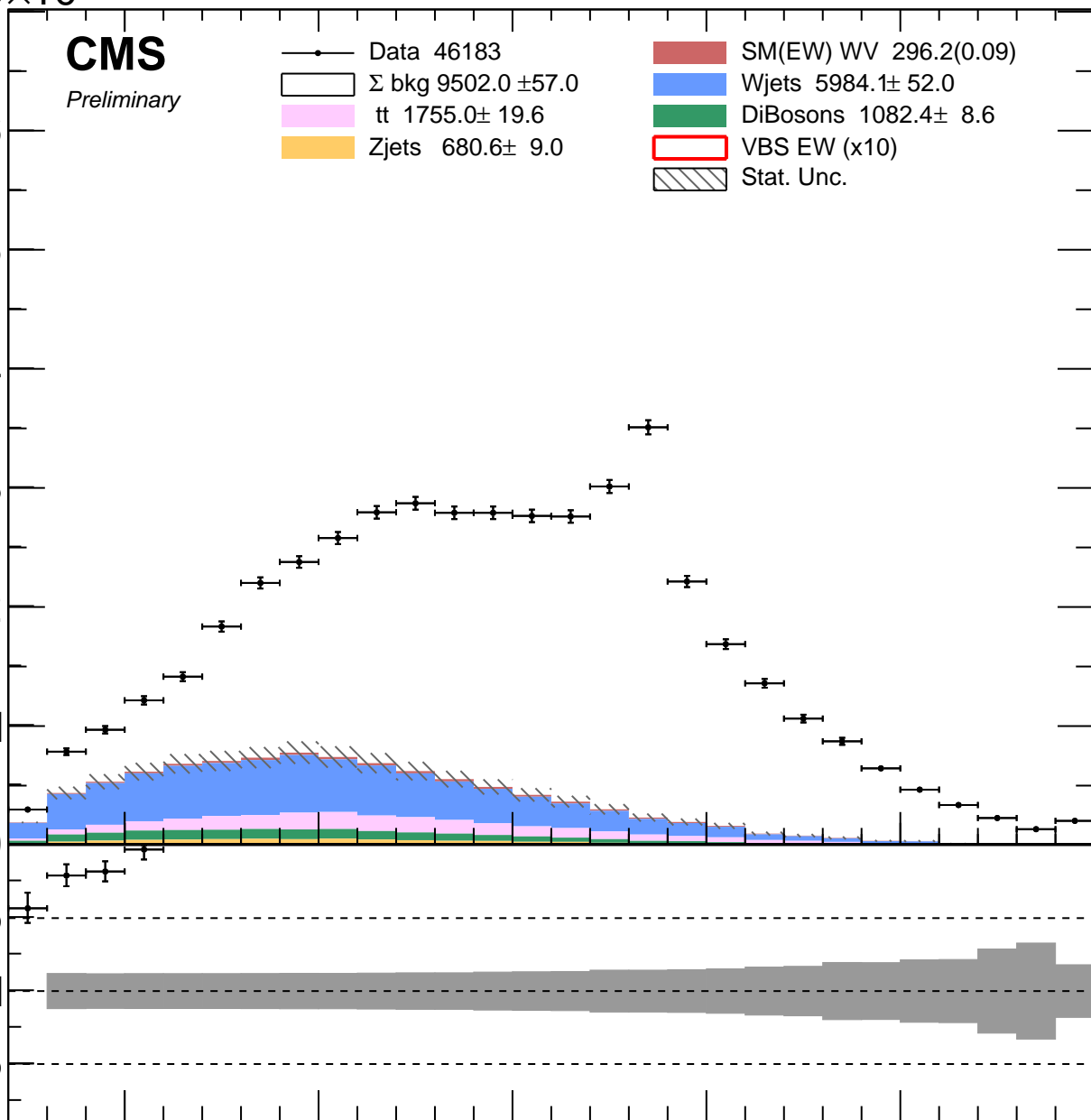
—•— Data 46183  
 □  $\Sigma$  bkg 9502.0  $\pm$  57.0  
 ■ tt 1755.0  $\pm$  19.6  
 ■ Zjets 680.6  $\pm$  9.0

■ SM(EW) WV 296.2(0.09)  
 ■ Wjets 5984.1  $\pm$  52.0  
 ■ DiBosons 1082.4  $\pm$  8.6  
 ■ VBS EW (x10)  
 ■ Stat. Unc.

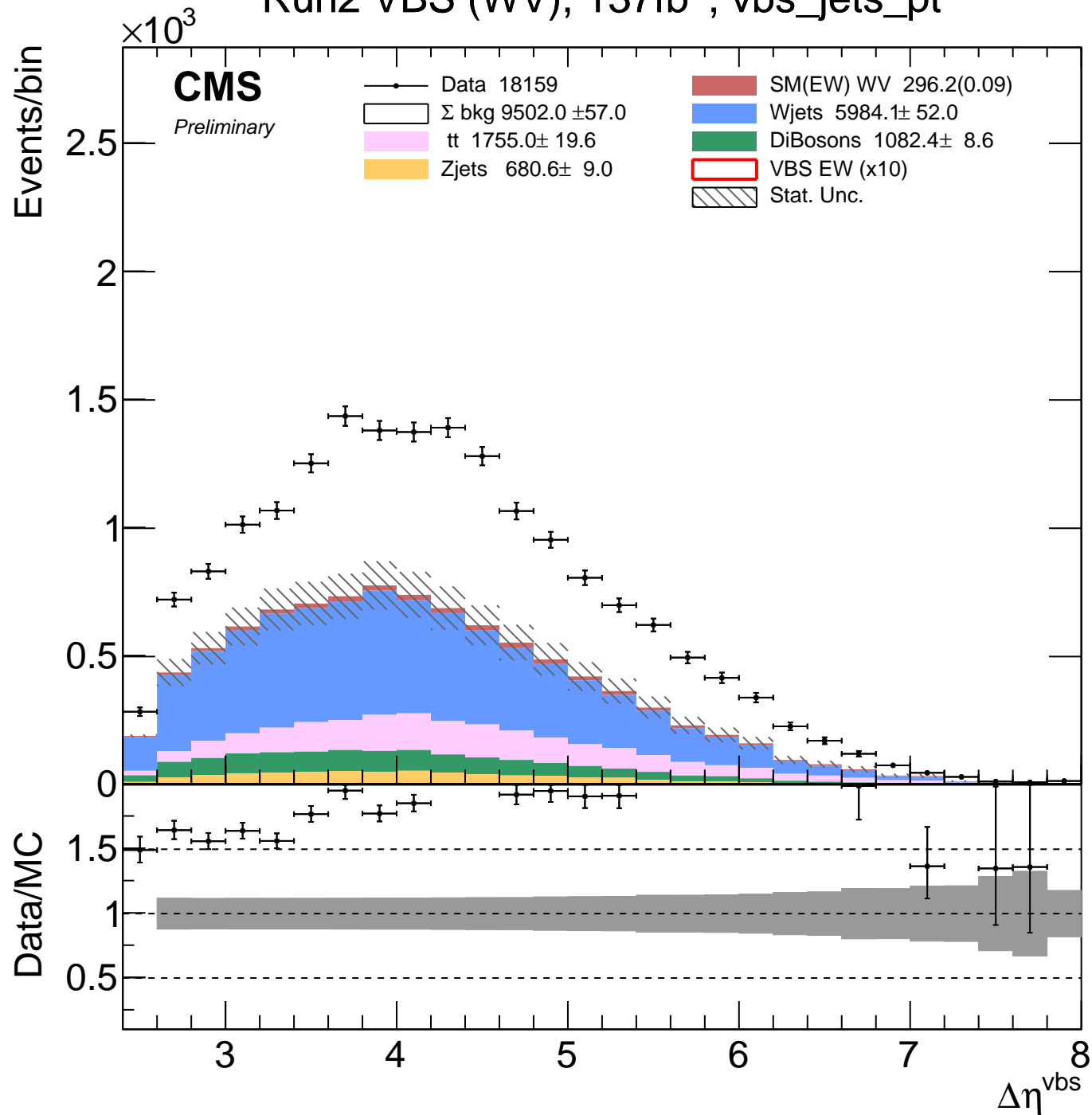
Data/MC

1.5  
1  
0.5

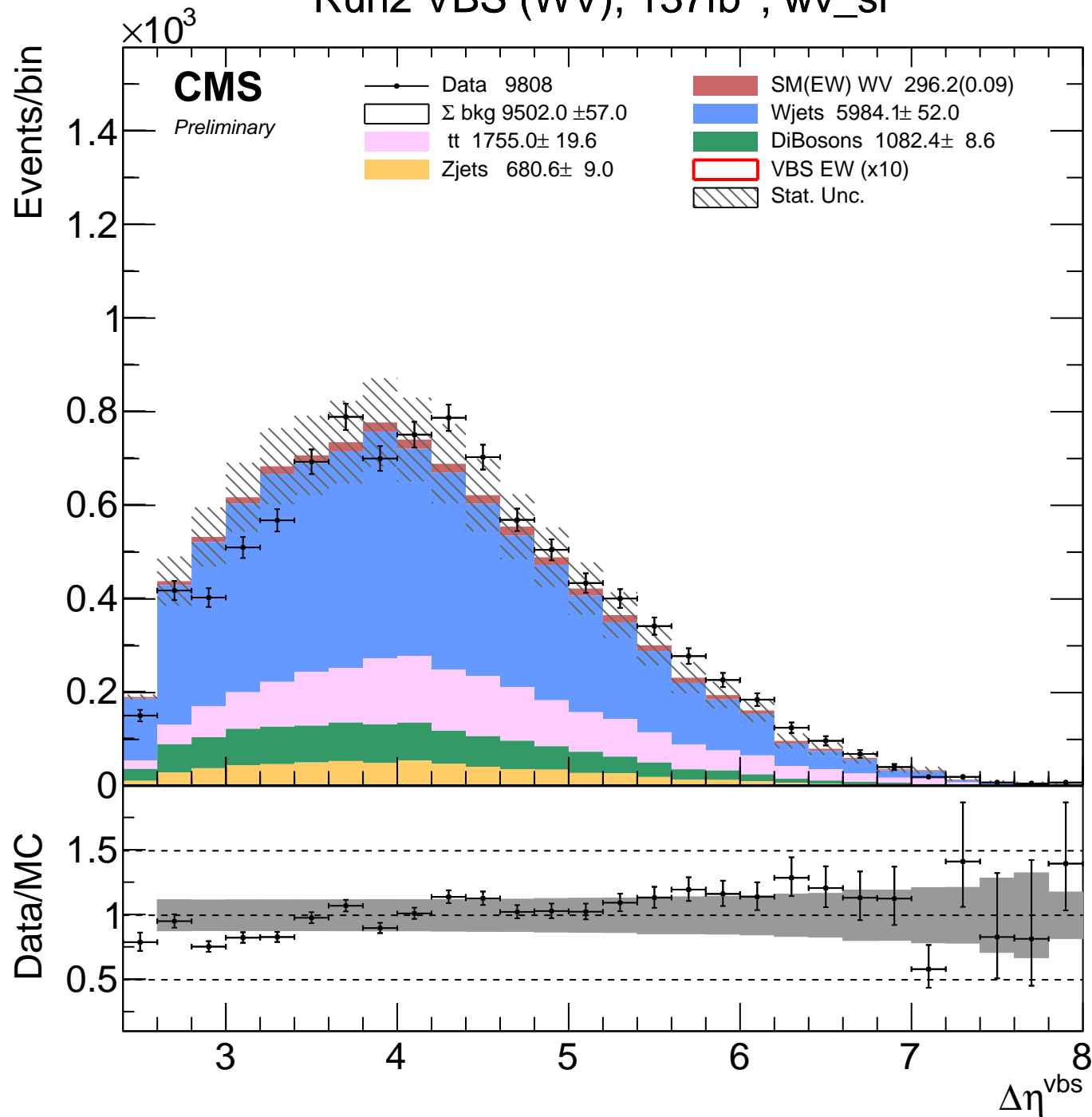
$\Delta\eta^{\text{vbs}}$



# Run2 VBS (WV), 137fb<sup>-1</sup>, vbs\_jets\_pt



# Run2 VBS (WV), 137fb<sup>-1</sup>, vv\_sr



# Run2 VBS (WV), 137fb<sup>-1</sup>, BDT\_cut\_Run2\_sr

Events/bin

**CMS**

*Preliminary*

—•— Data 485  
 □  $\Sigma$  bkg  $386.8 \pm 9.1$   
 ■  $t\bar{t}$   $119.0 \pm 5.2$   
 ■ Zjets  $15.7 \pm 0.9$

■ SM(EW) WV 118.6(0.04)  
 ■ Wjets  $186.4 \pm 7.2$   
 ■ DiBosons  $65.7 \pm 2.1$   
 □ VBS EW (x10)  
 ▨ Stat. Unc.

Data/MC

