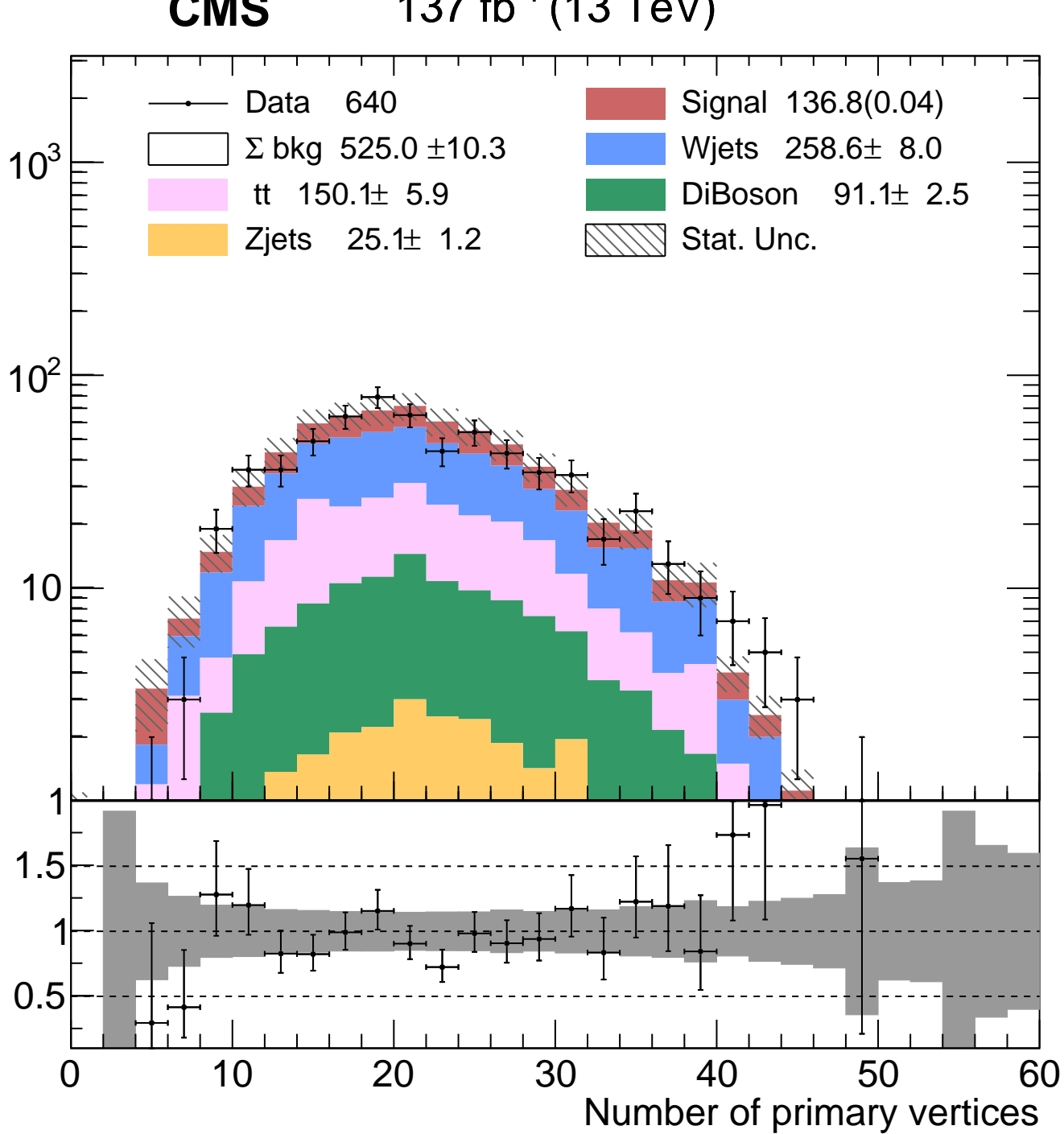
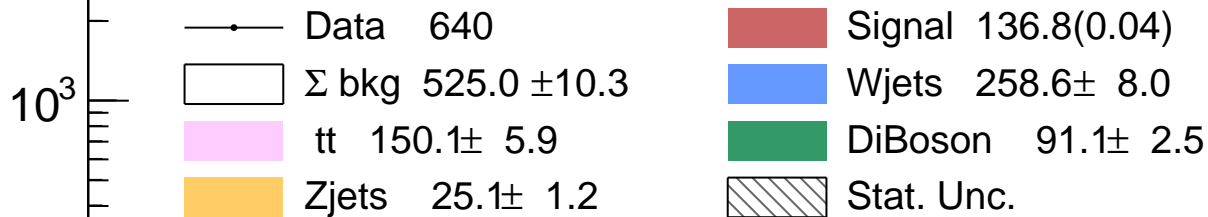


**CMS****137 fb<sup>-1</sup> (13 TeV)**

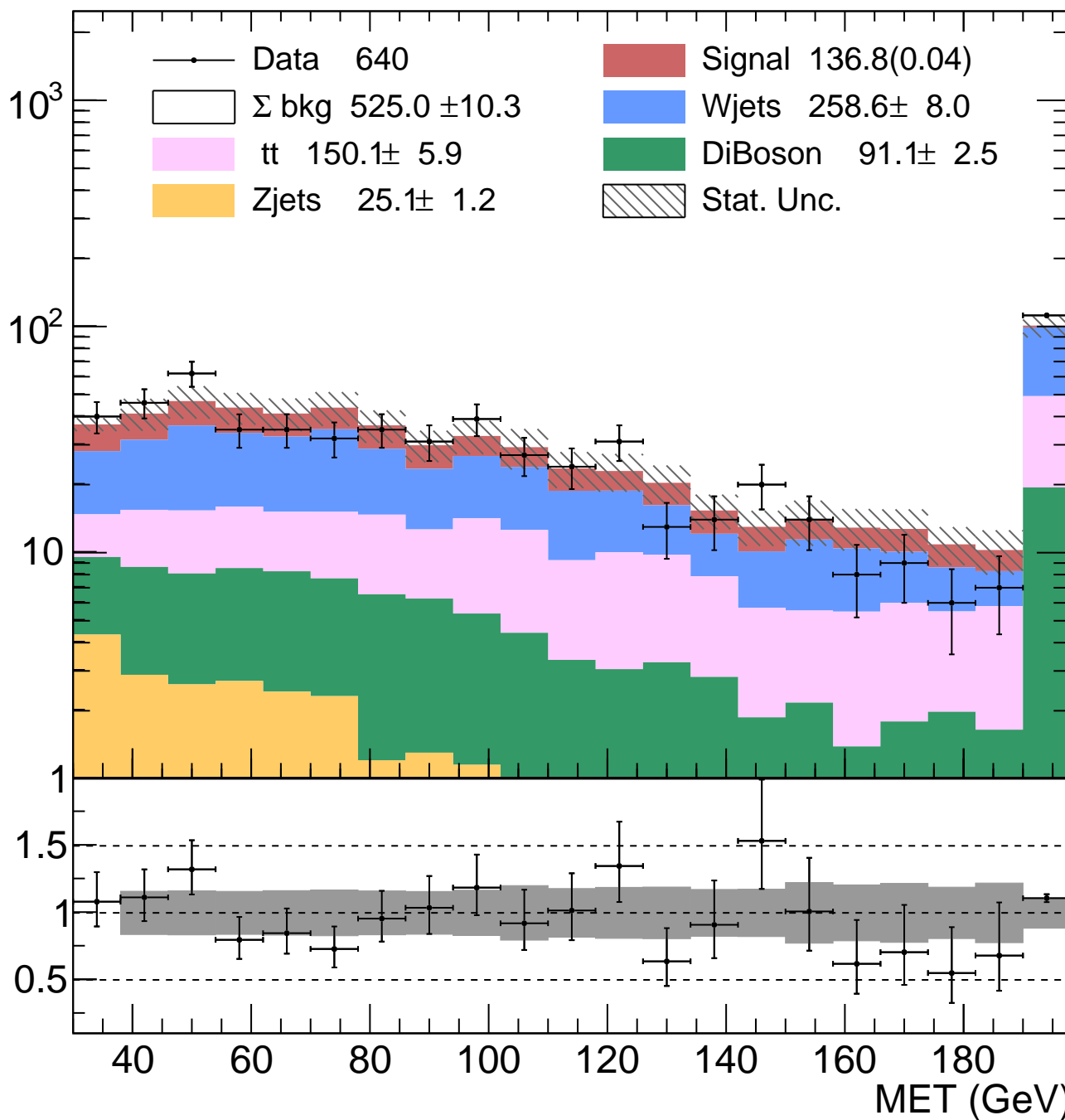
Events/bin



Number of primary vertices

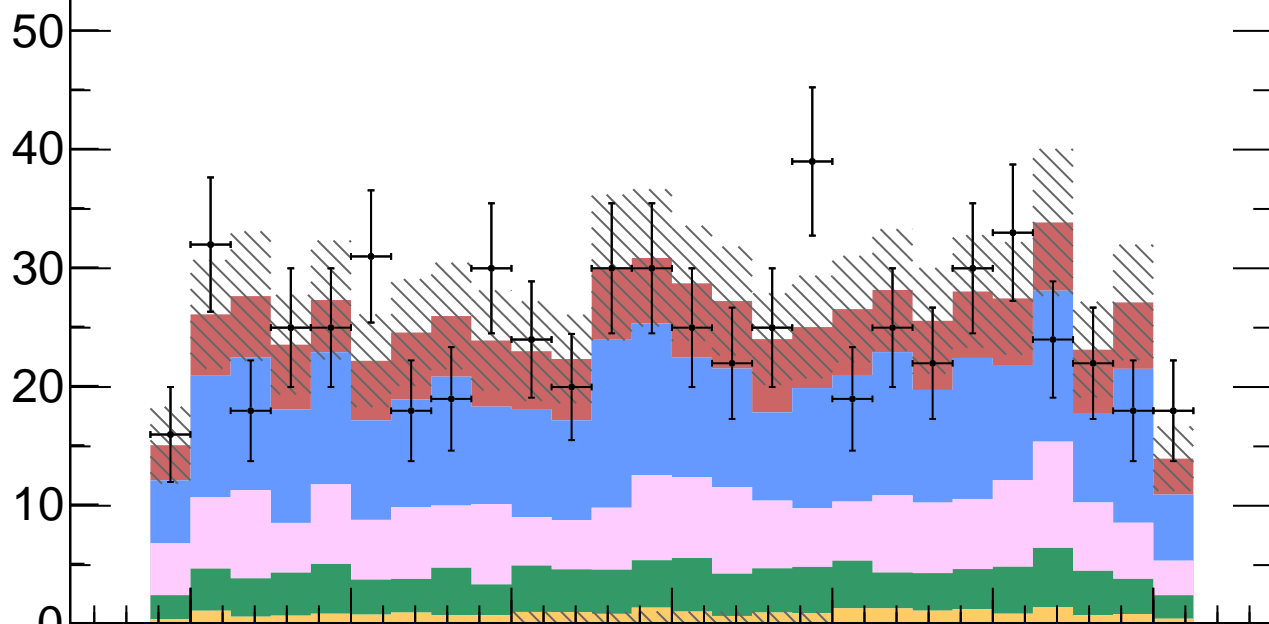
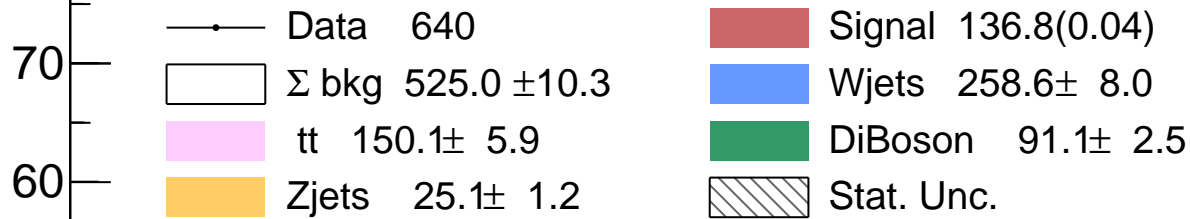
**CMS****137 fb<sup>-1</sup> (13 TeV)**

Events/bin

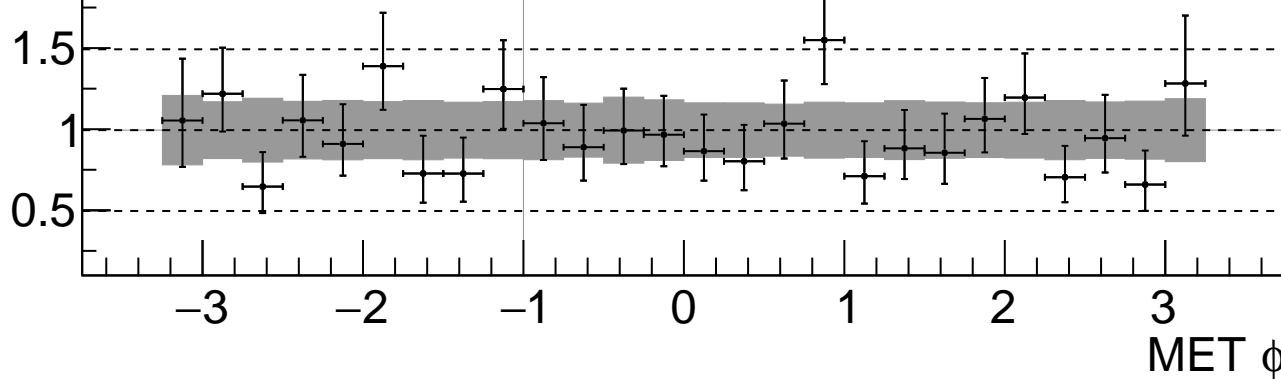


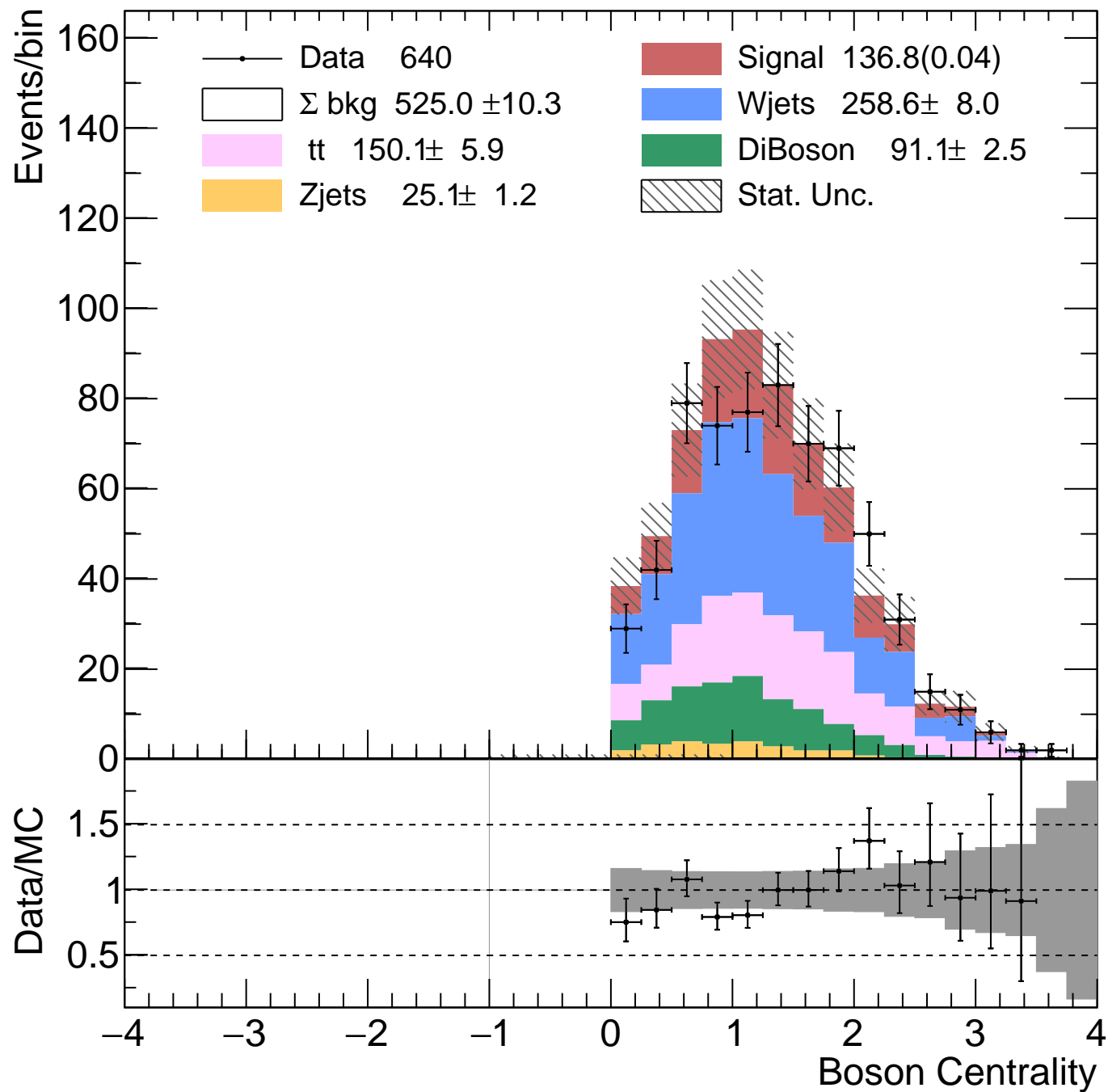
**CMS****137 fb<sup>-1</sup> (13 TeV)**

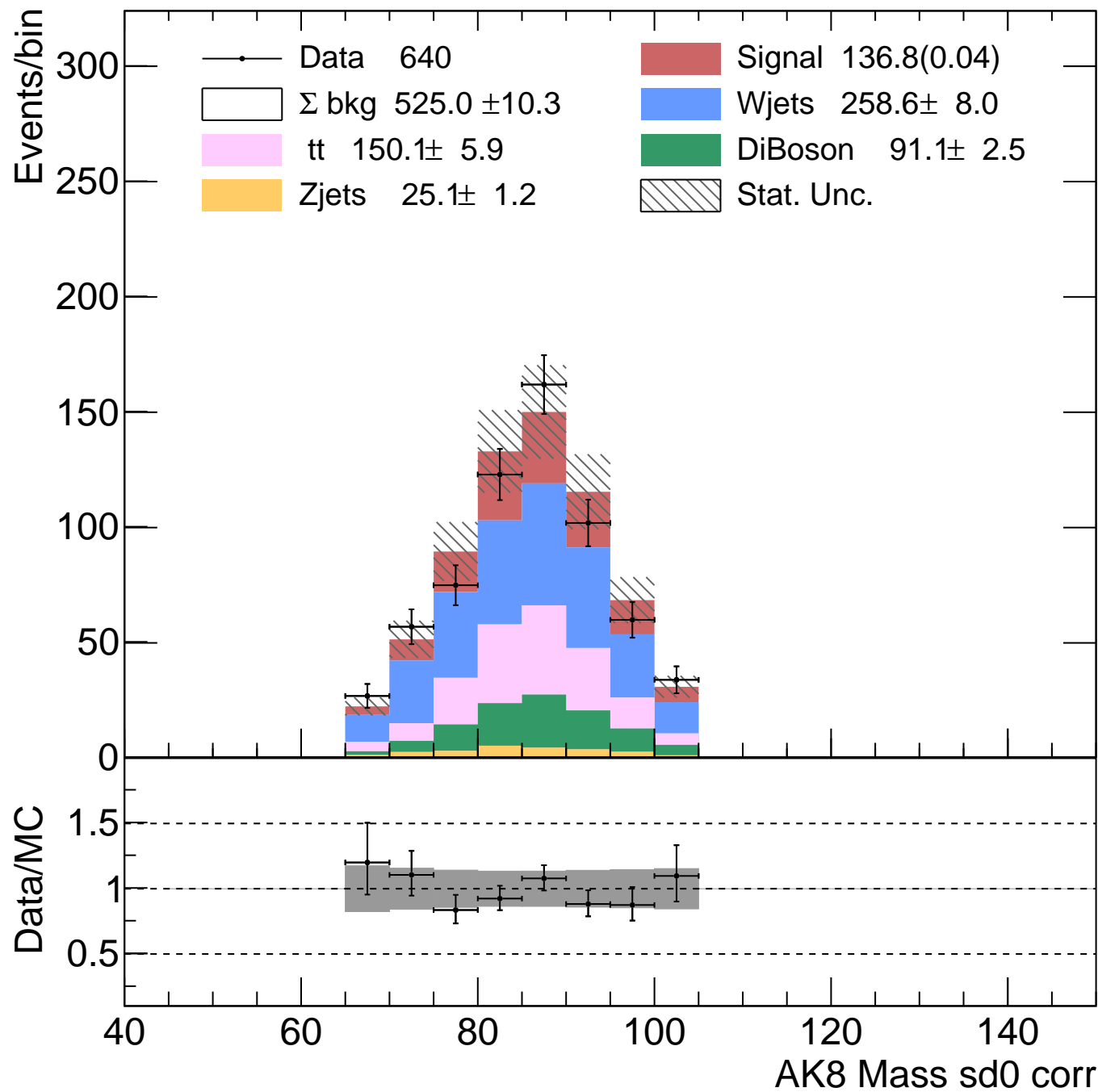
Events/bin

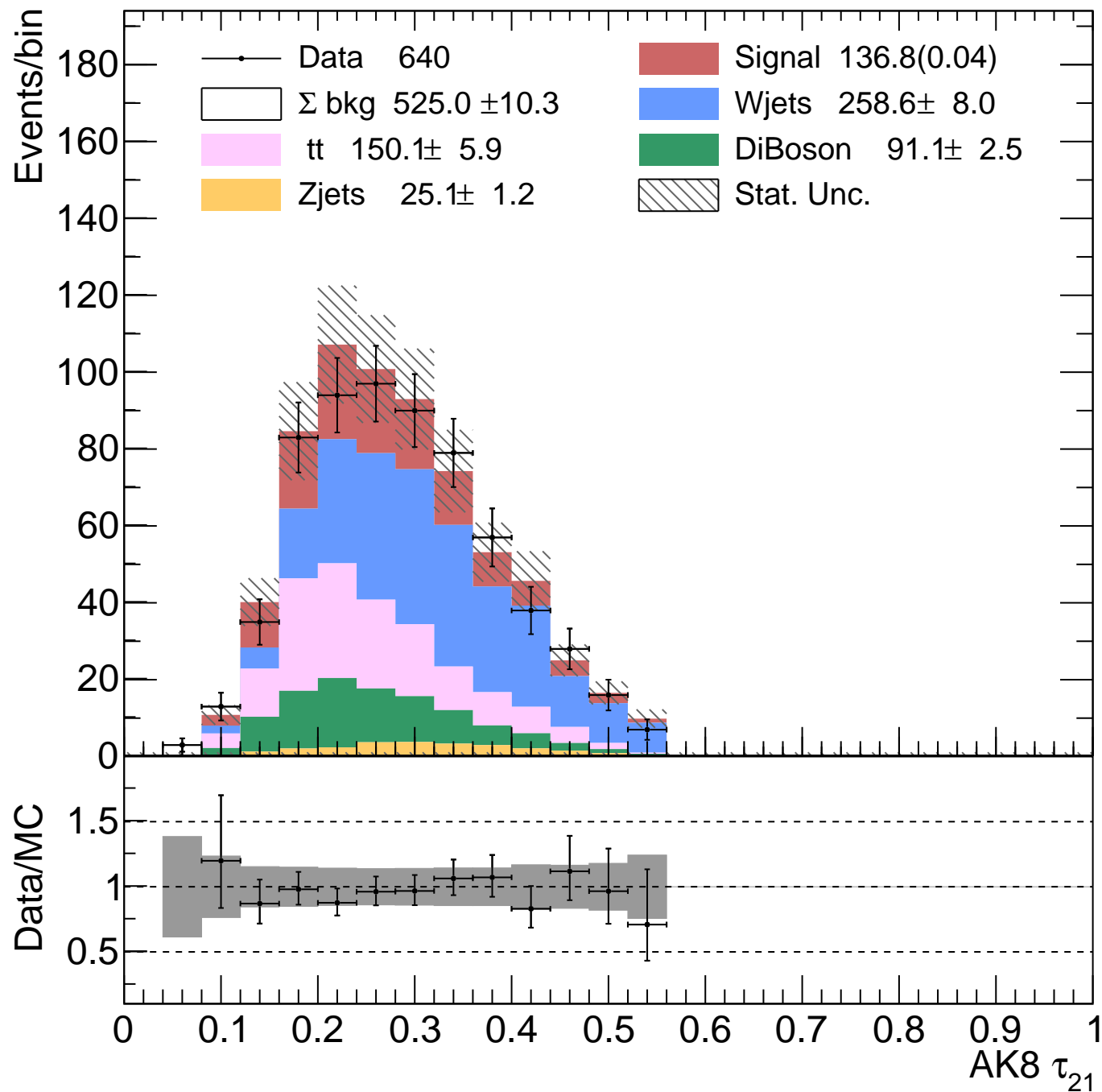


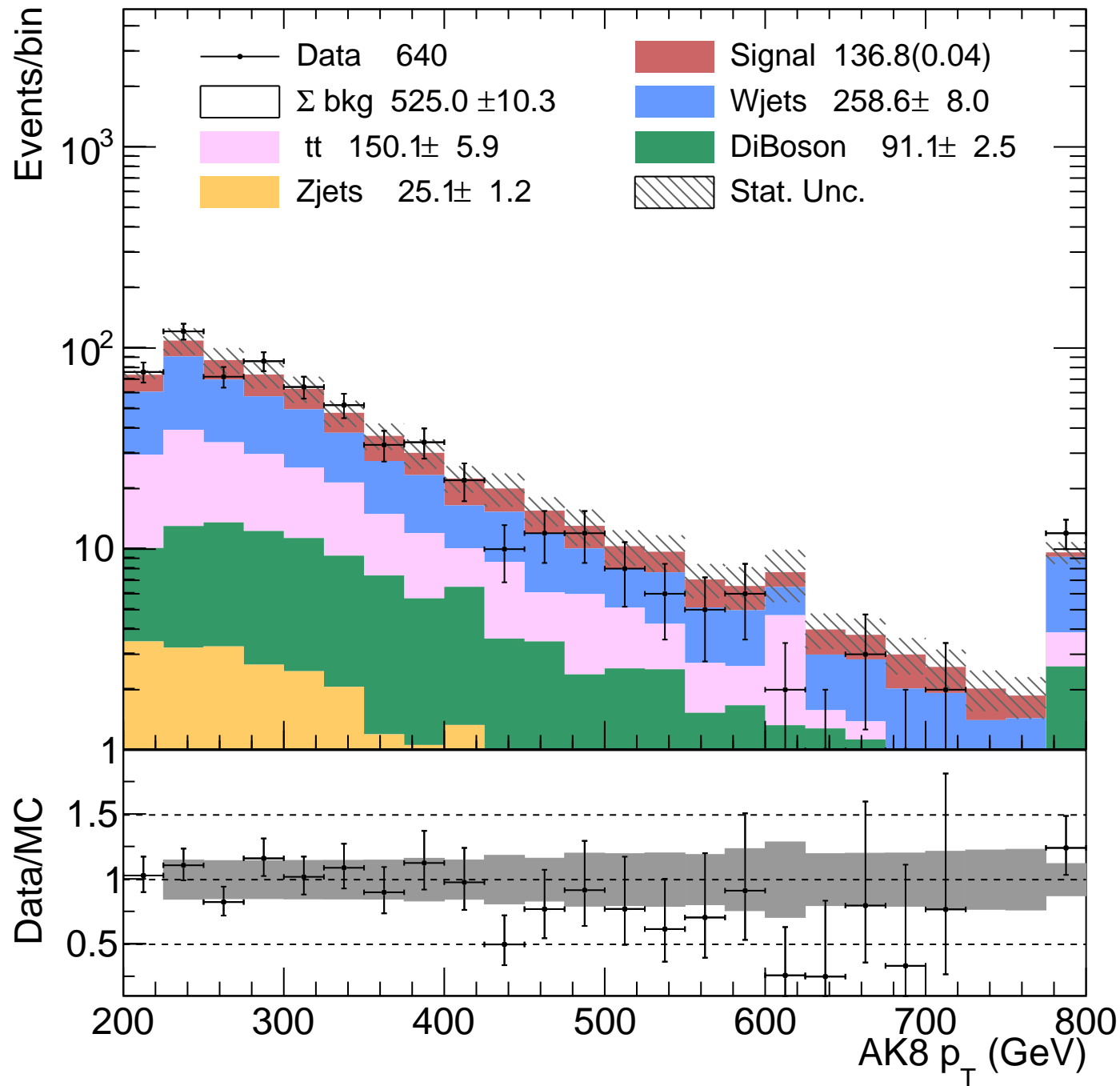
Data/MC

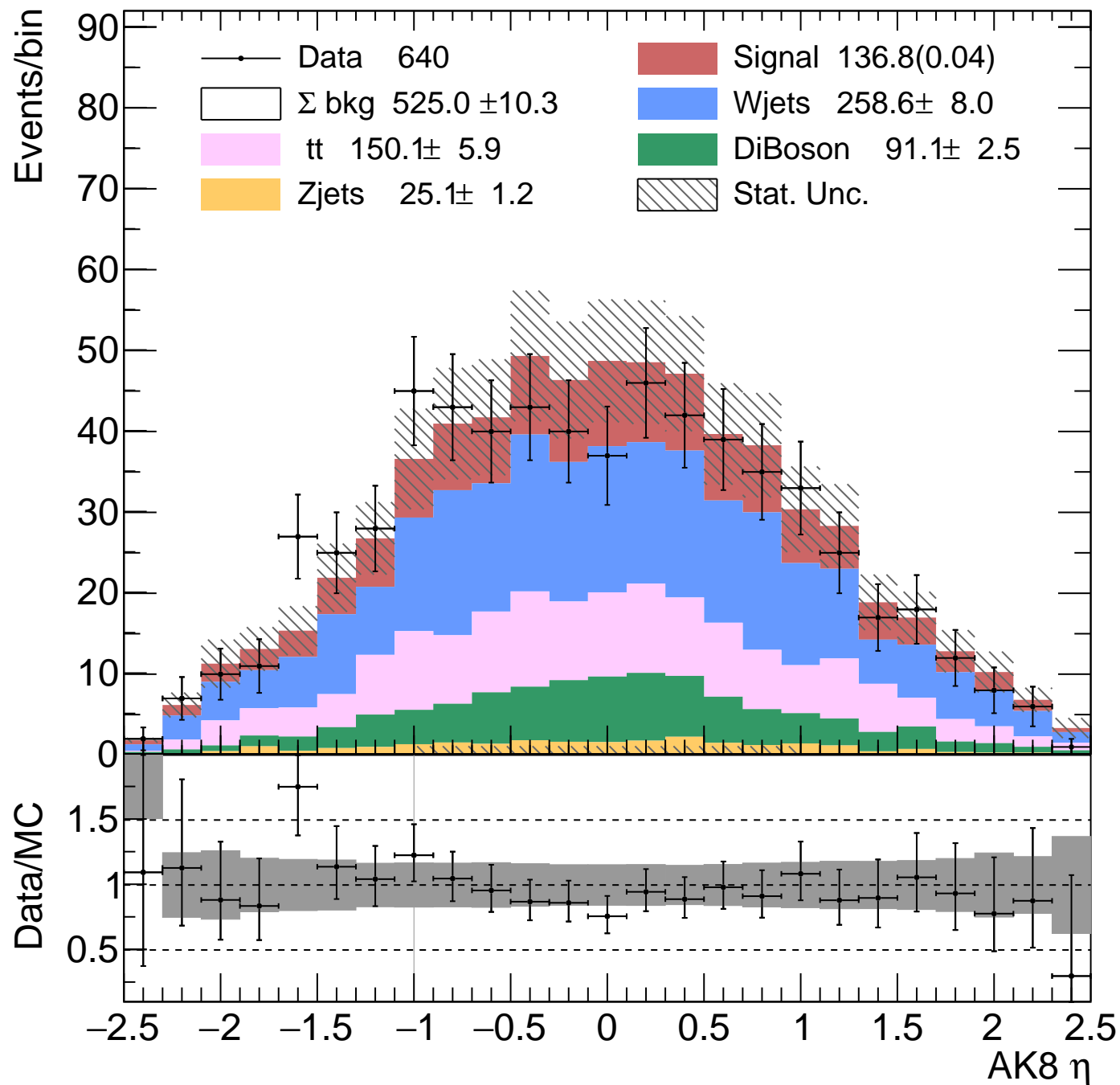


**CMS****137 fb<sup>-1</sup> (13 TeV)**

**CMS****137 fb<sup>-1</sup> (13 TeV)**

**CMS****137 fb<sup>-1</sup> (13 TeV)**

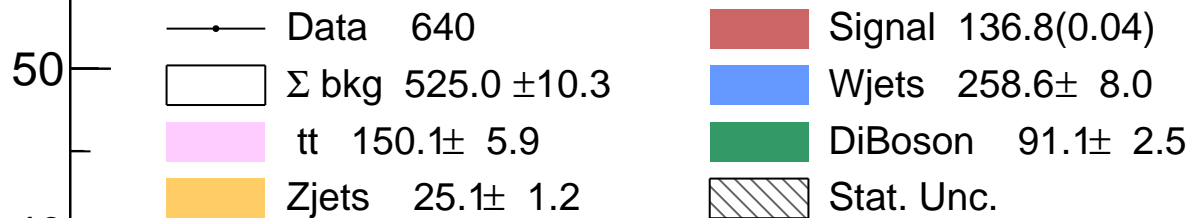
**CMS****137 fb<sup>-1</sup> (13 TeV)**

**CMS****137 fb<sup>-1</sup> (13 TeV)**

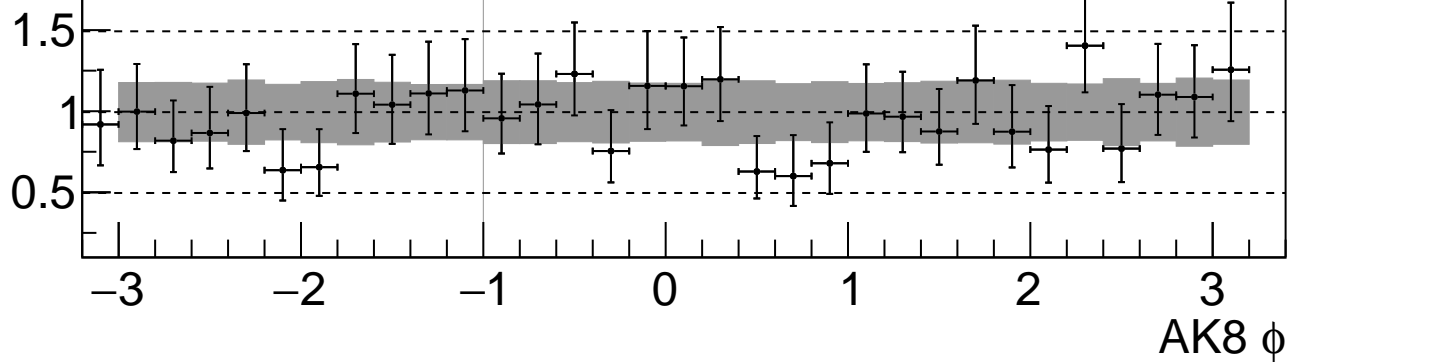


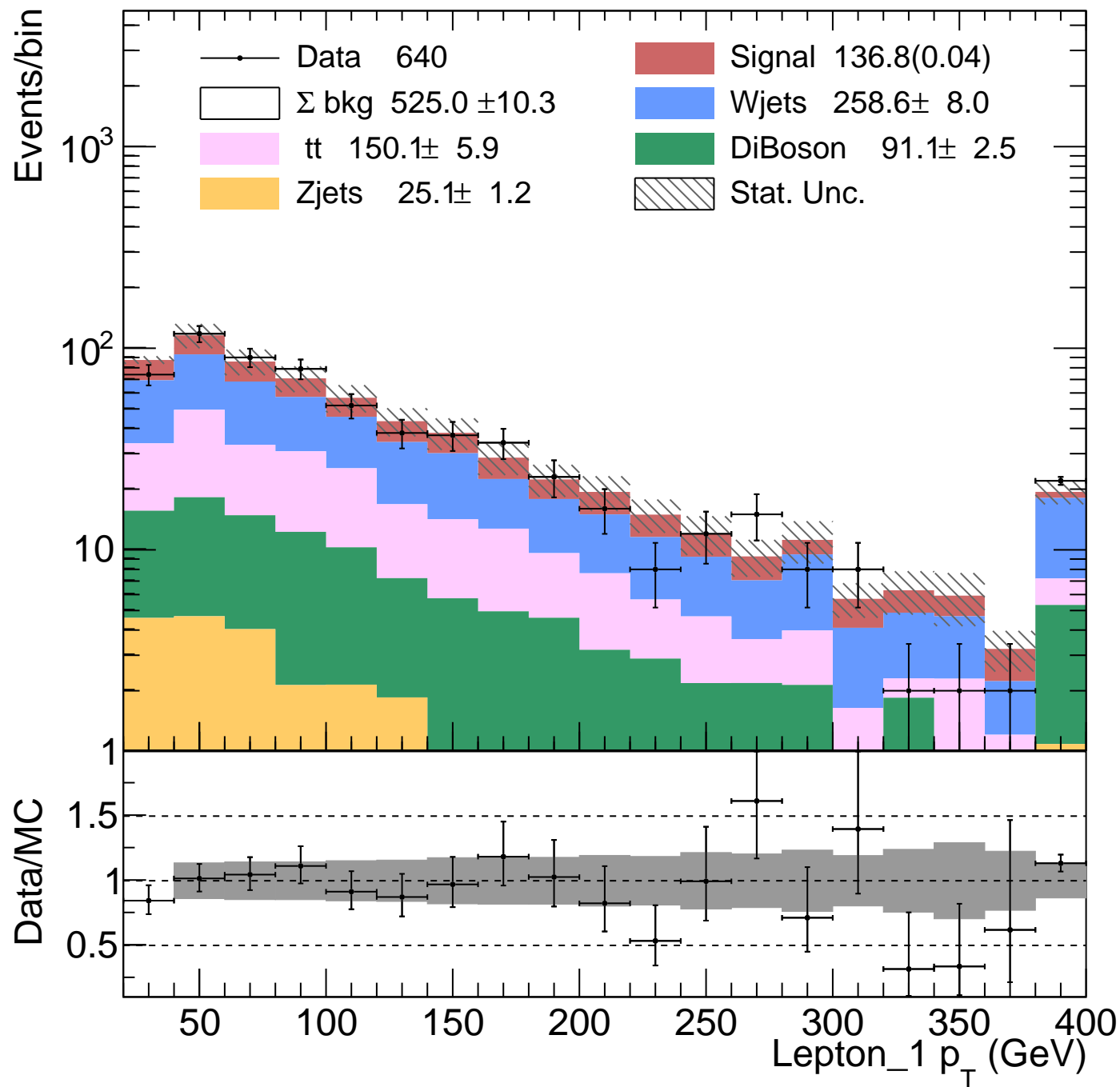
**CMS****137 fb<sup>-1</sup> (13 TeV)**

Events/bin



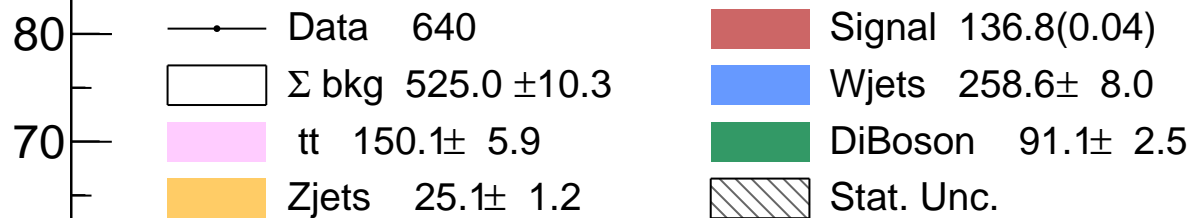
Data/MC



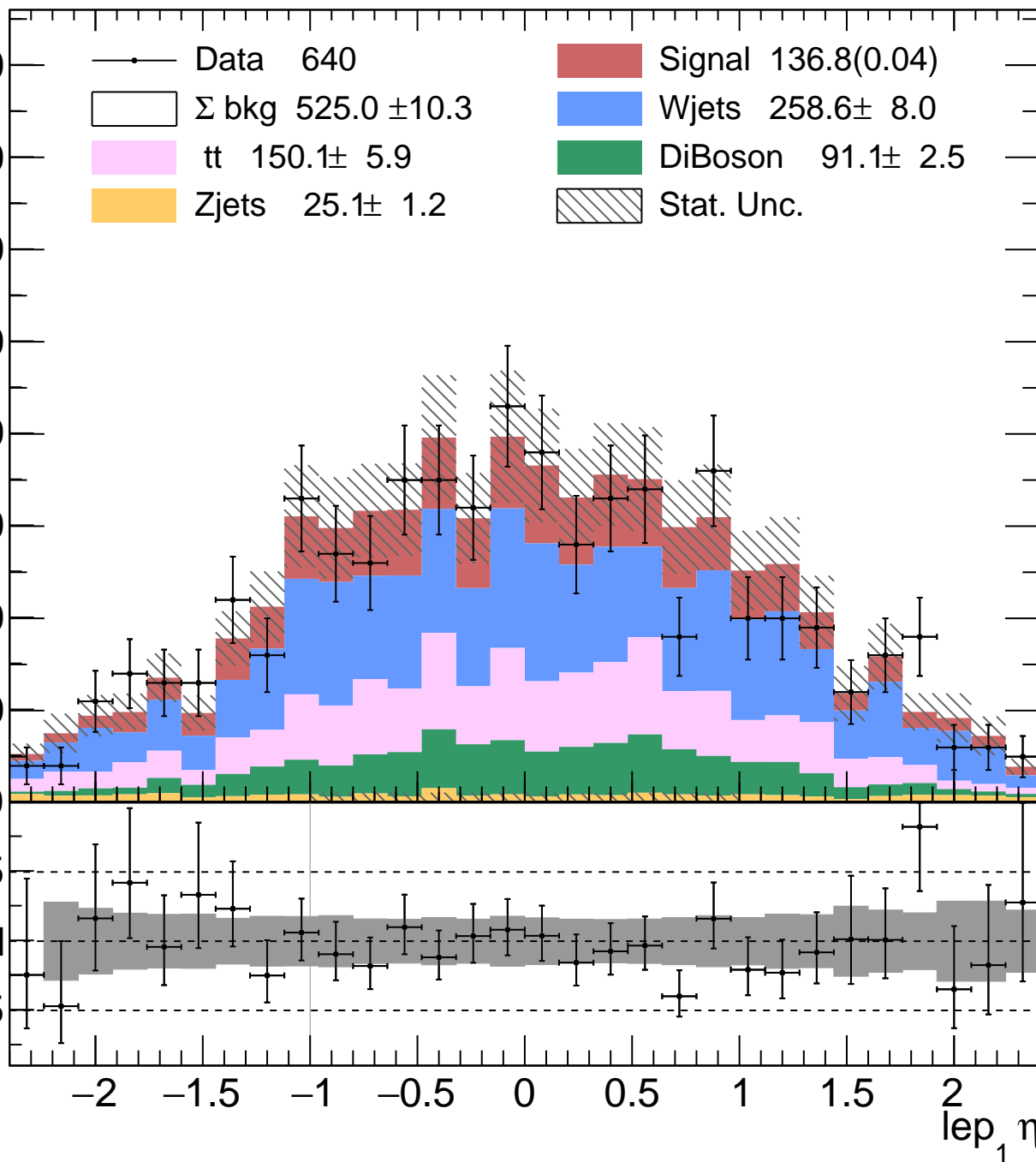
**CMS****137 fb<sup>-1</sup> (13 TeV)**

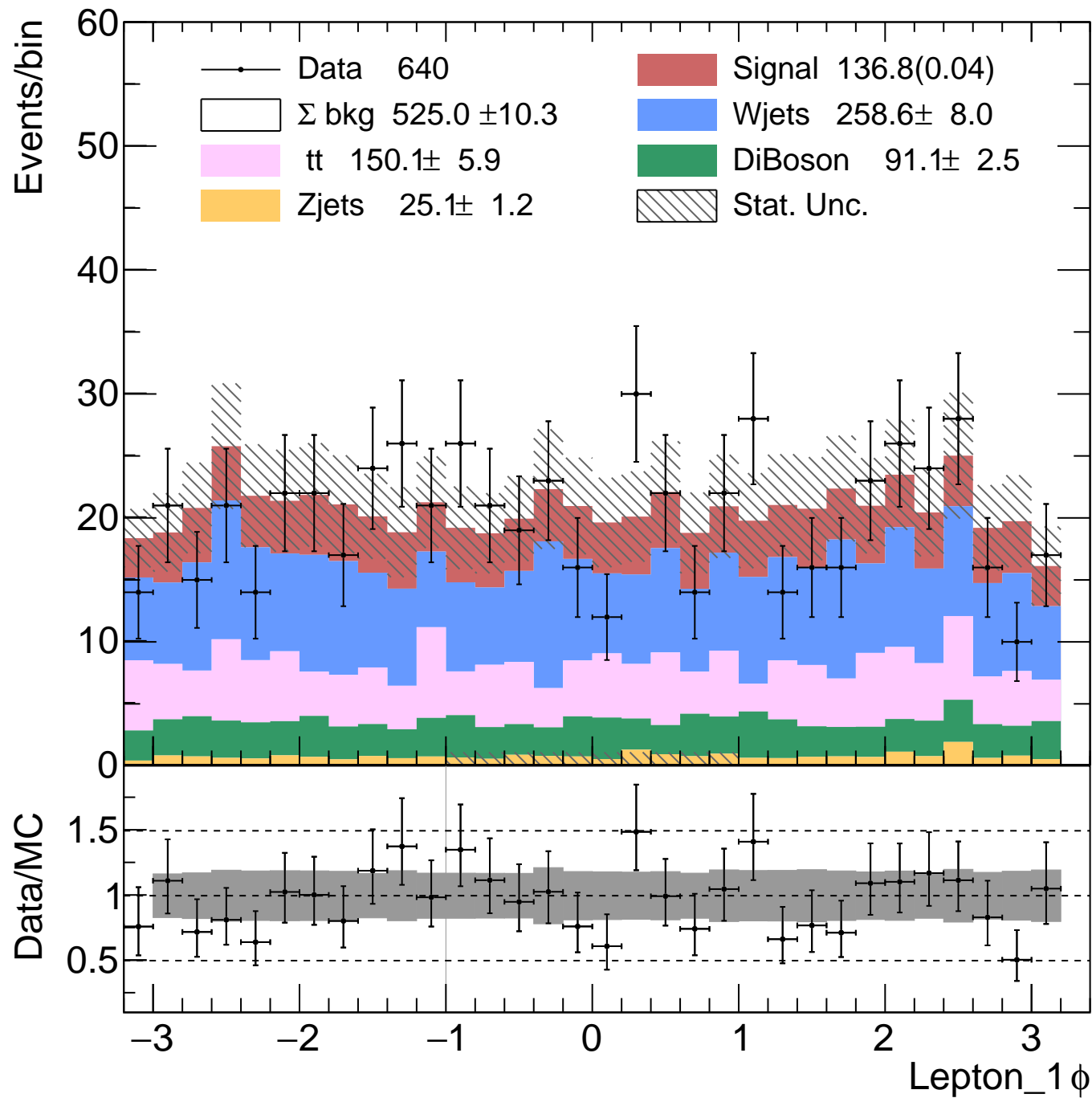
**CMS****137 fb<sup>-1</sup> (13 TeV)**

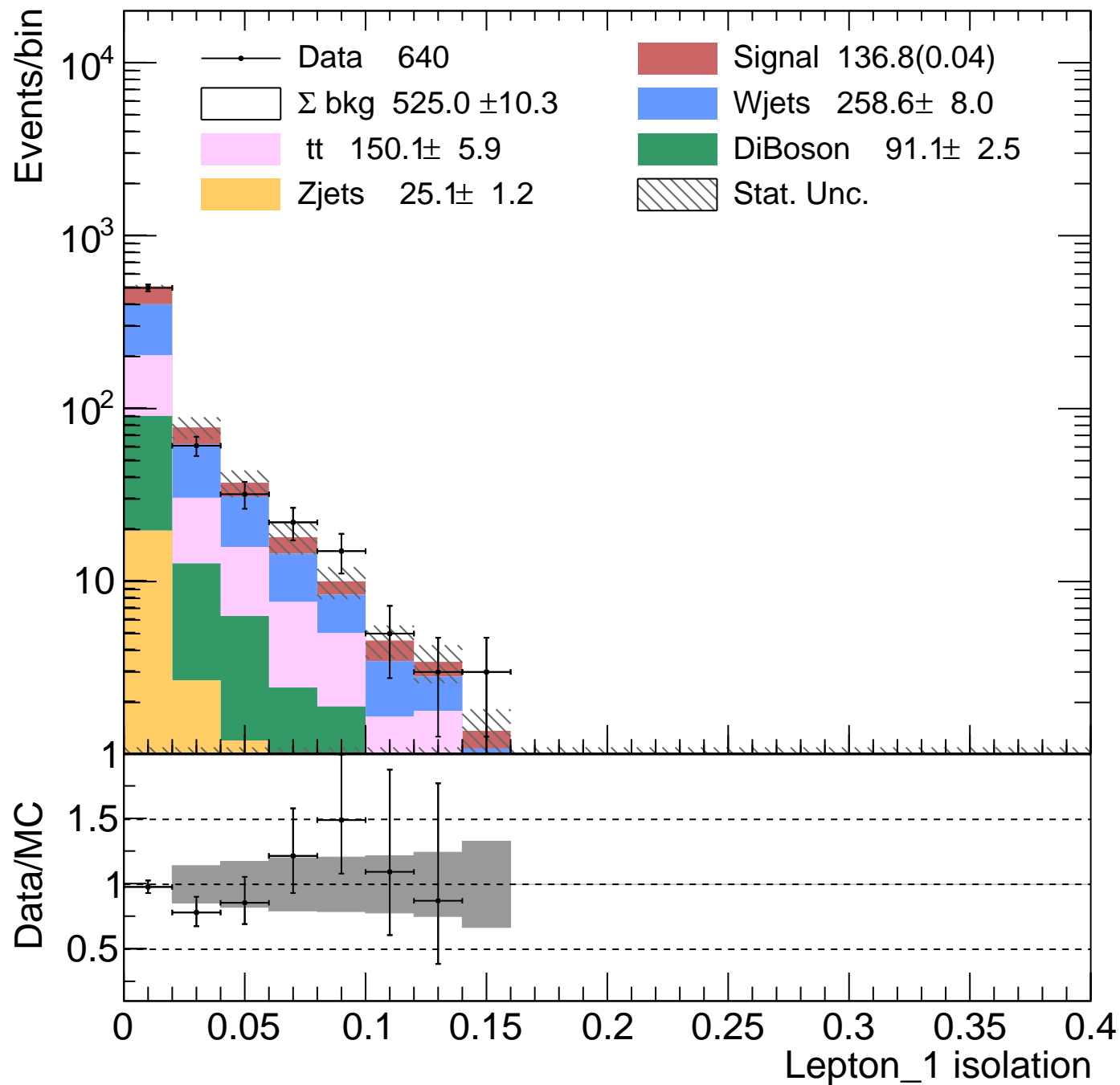
Events/bin



Data/MC

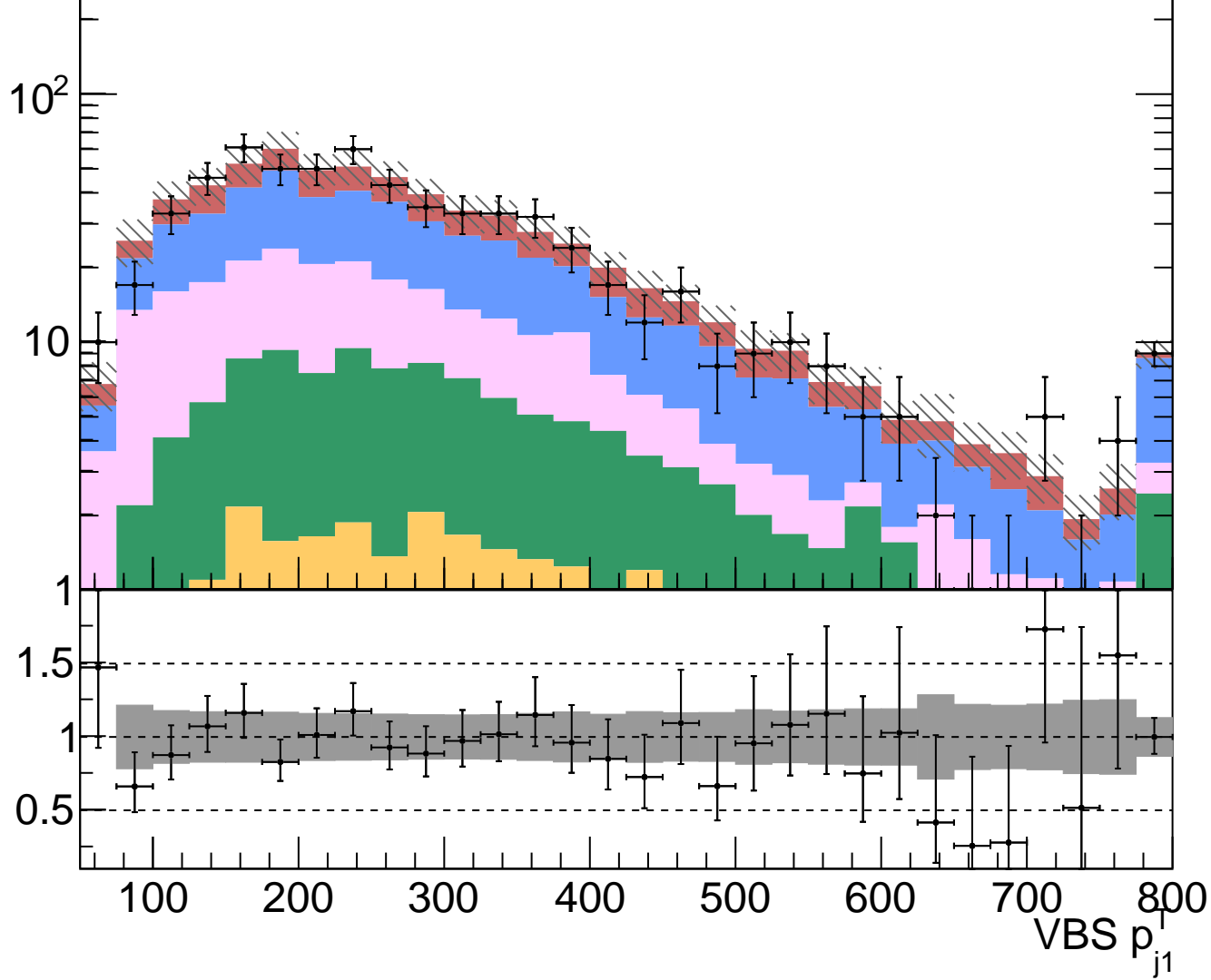
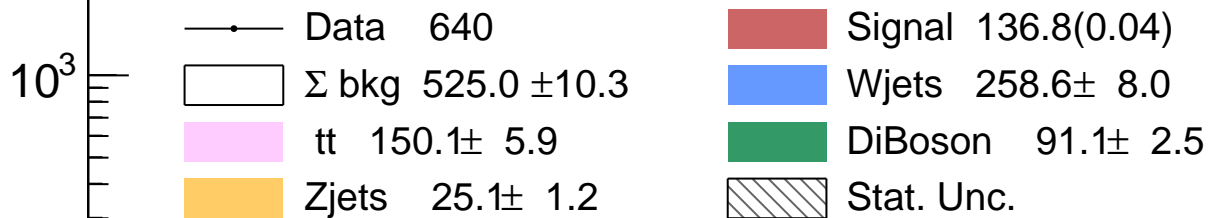
1.5  
1  
0.5

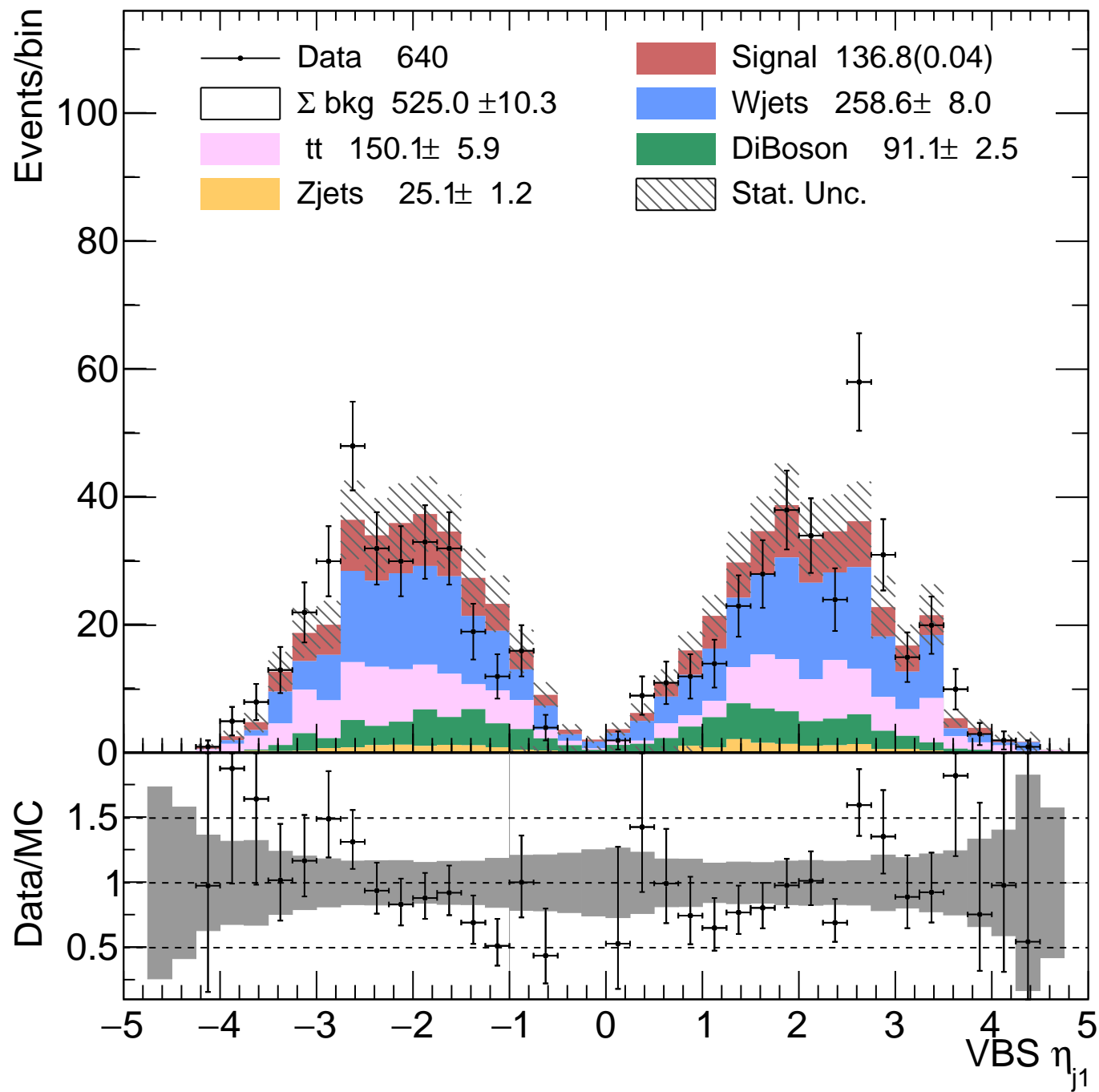
**CMS****137 fb<sup>-1</sup> (13 TeV)**

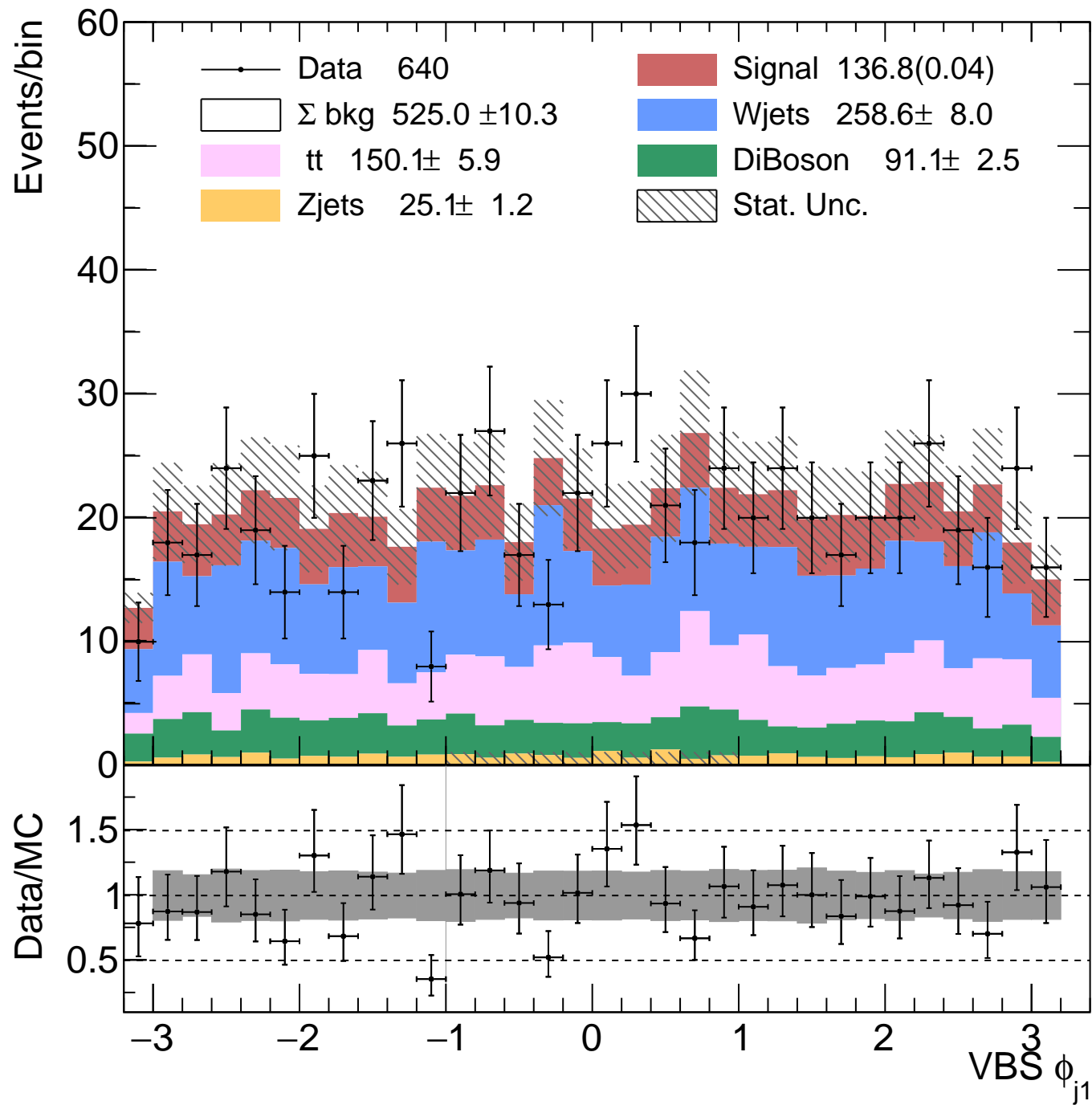
**CMS****137 fb<sup>-1</sup> (13 TeV)**

**CMS****137 fb<sup>-1</sup> (13 TeV)**

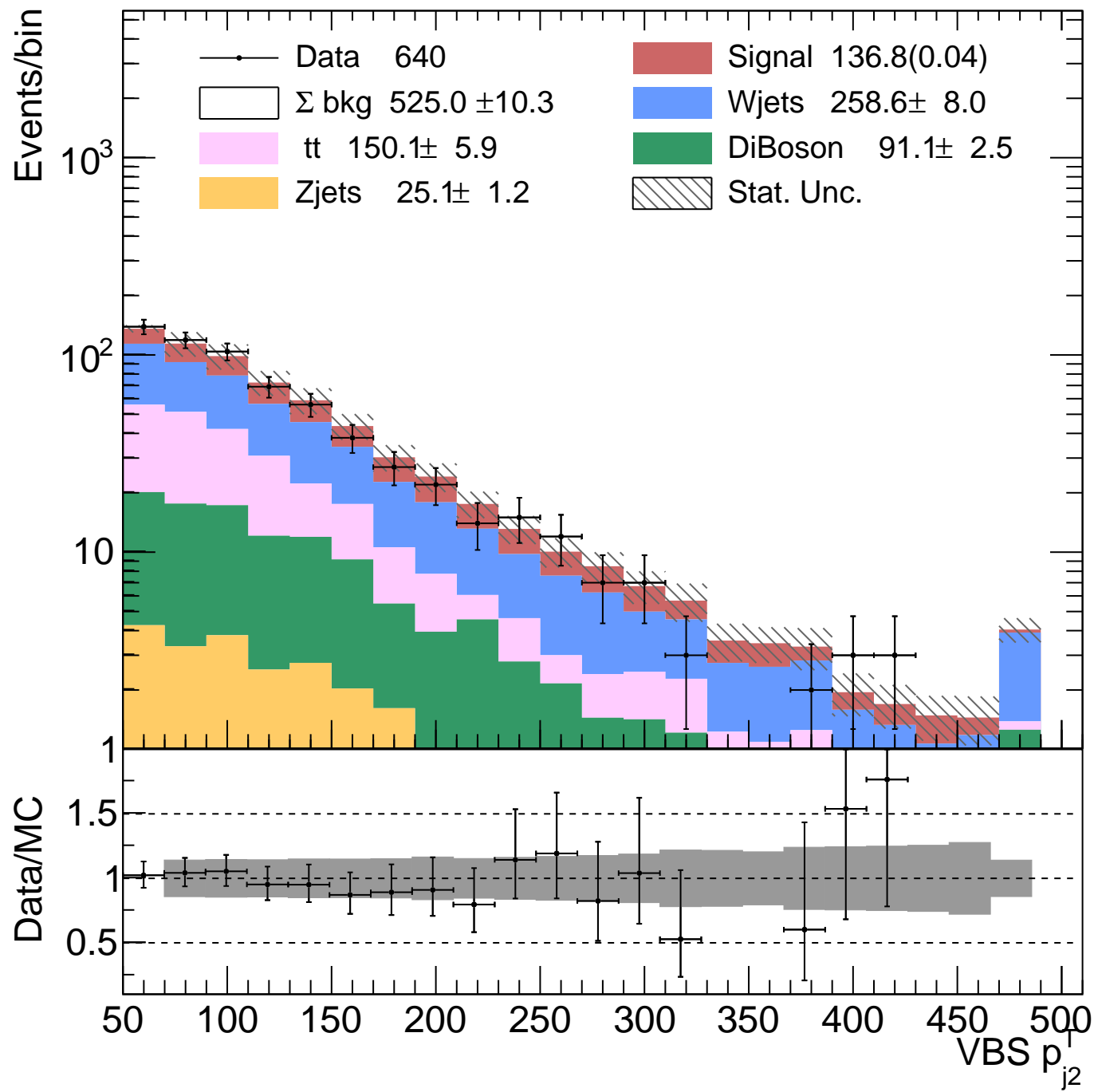
Events/bin

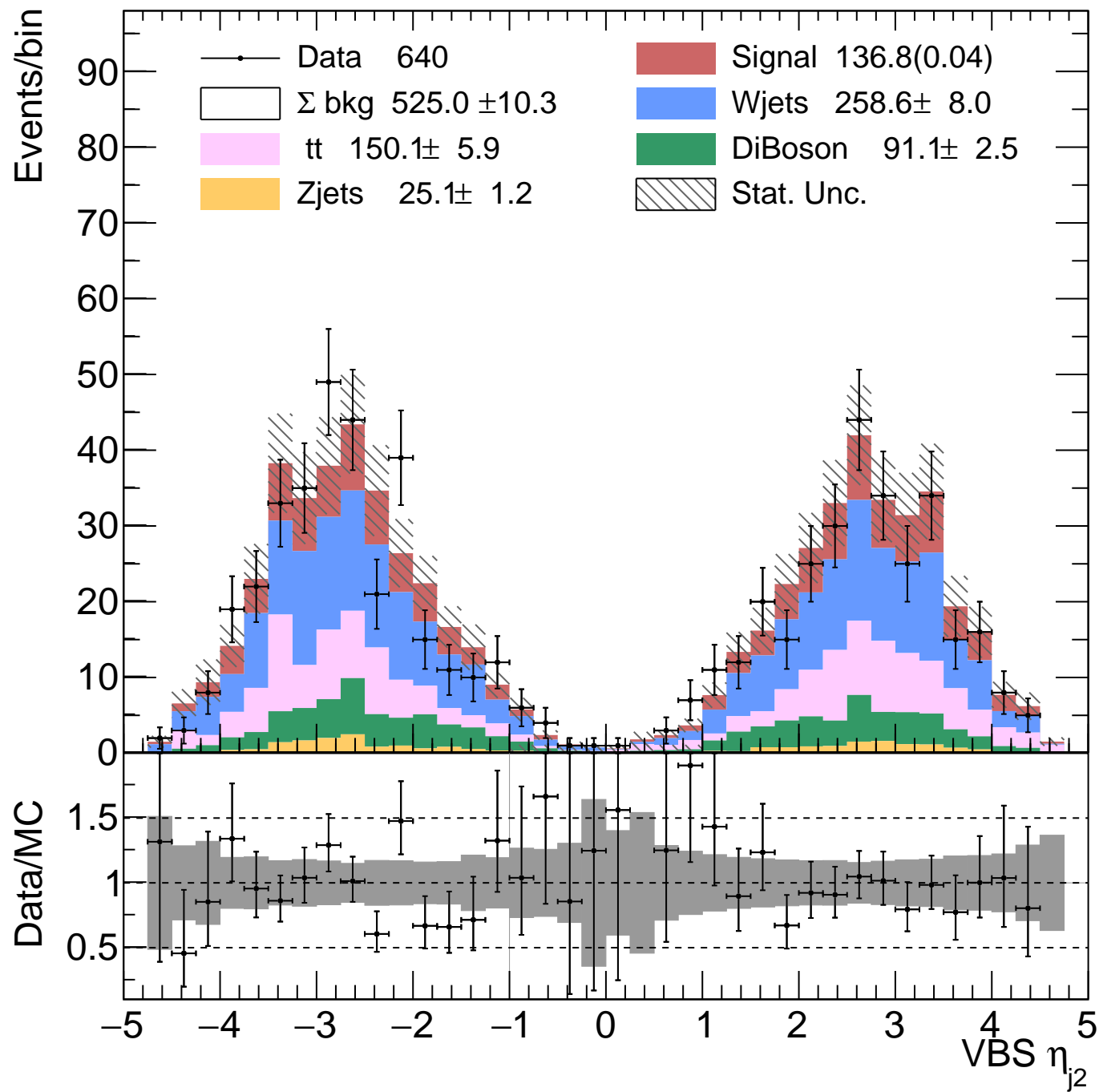


**CMS****137 fb<sup>-1</sup> (13 TeV)**

**CMS****137 fb<sup>-1</sup> (13 TeV)**



**CMS****137 fb<sup>-1</sup> (13 TeV)**

**CMS****137 fb<sup>-1</sup> (13 TeV)**

**CMS****137 fb<sup>-1</sup> (13 TeV)**

Events/bin

60

50

40

30

20

10

0

—•— Data 640

□  $\Sigma$  bkg 525.0  $\pm$  10.3■ tt 150.1  $\pm$  5.9■ Zjets 25.1  $\pm$  1.2

■ Signal 136.8(0.04)

■ Wjets 258.6  $\pm$  8.0■ DiBoson 91.1  $\pm$  2.5

▨ Stat. Unc.

Data/MC

1.5

1

0.5

-3

-2

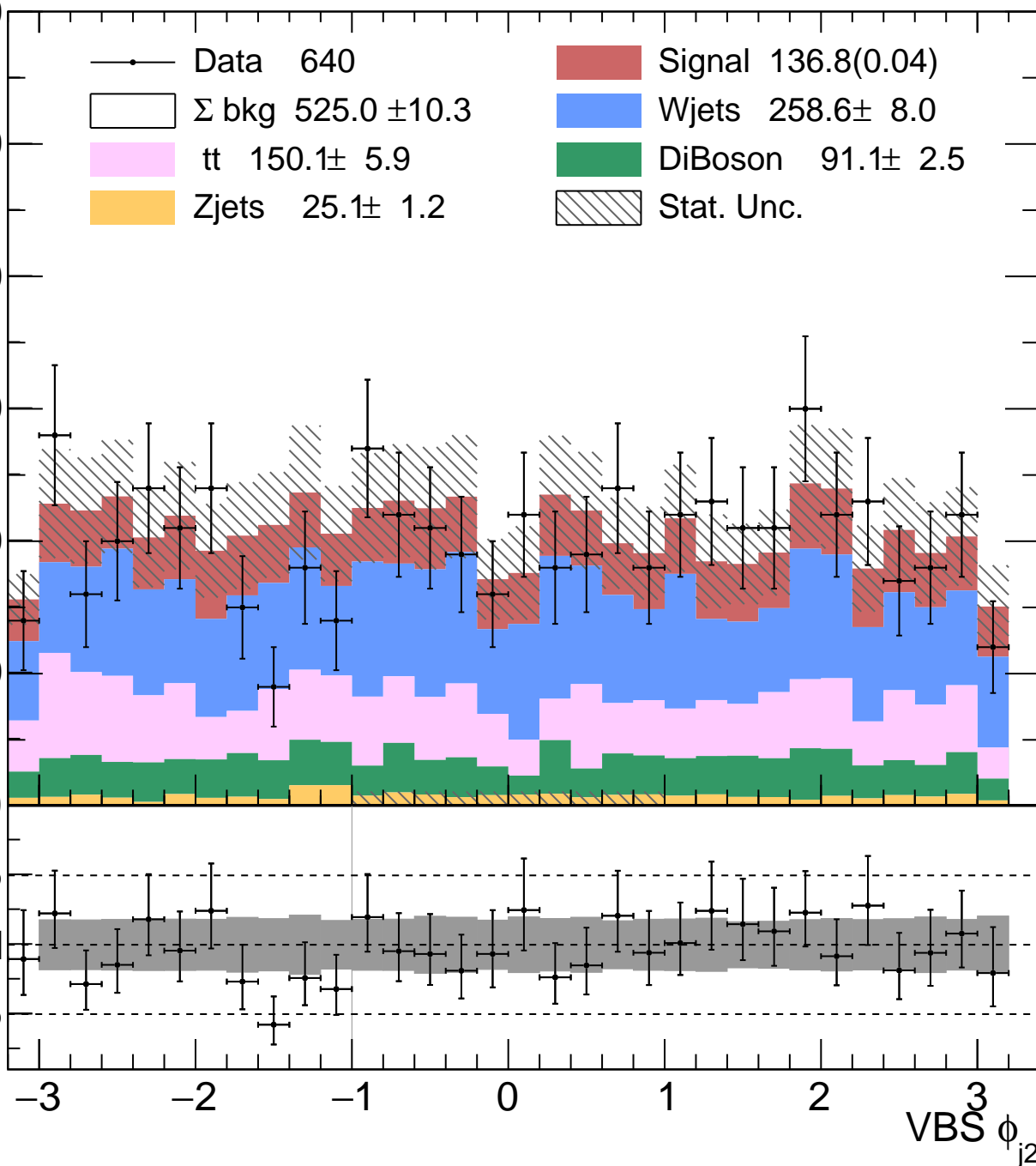
-1

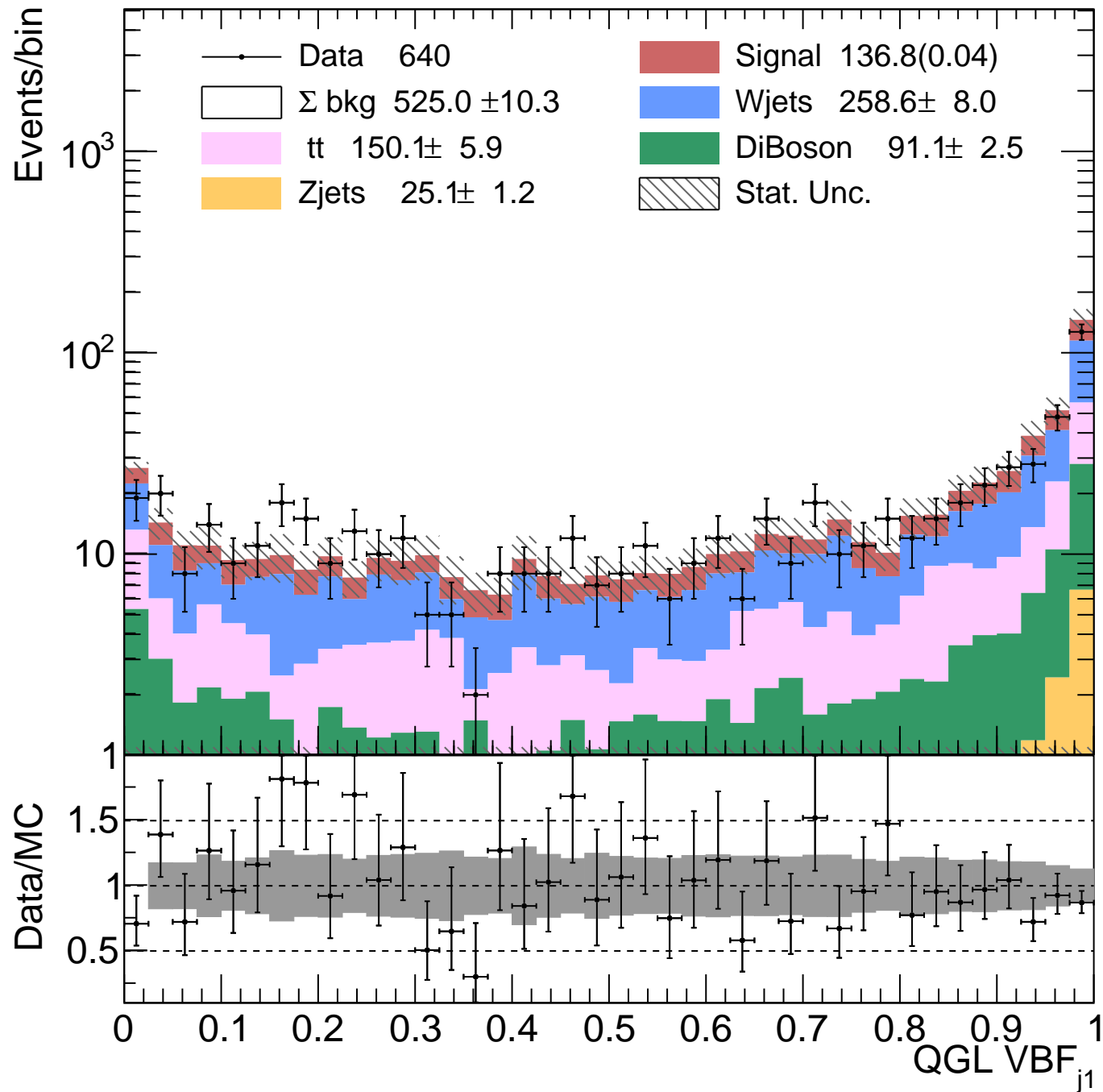
0

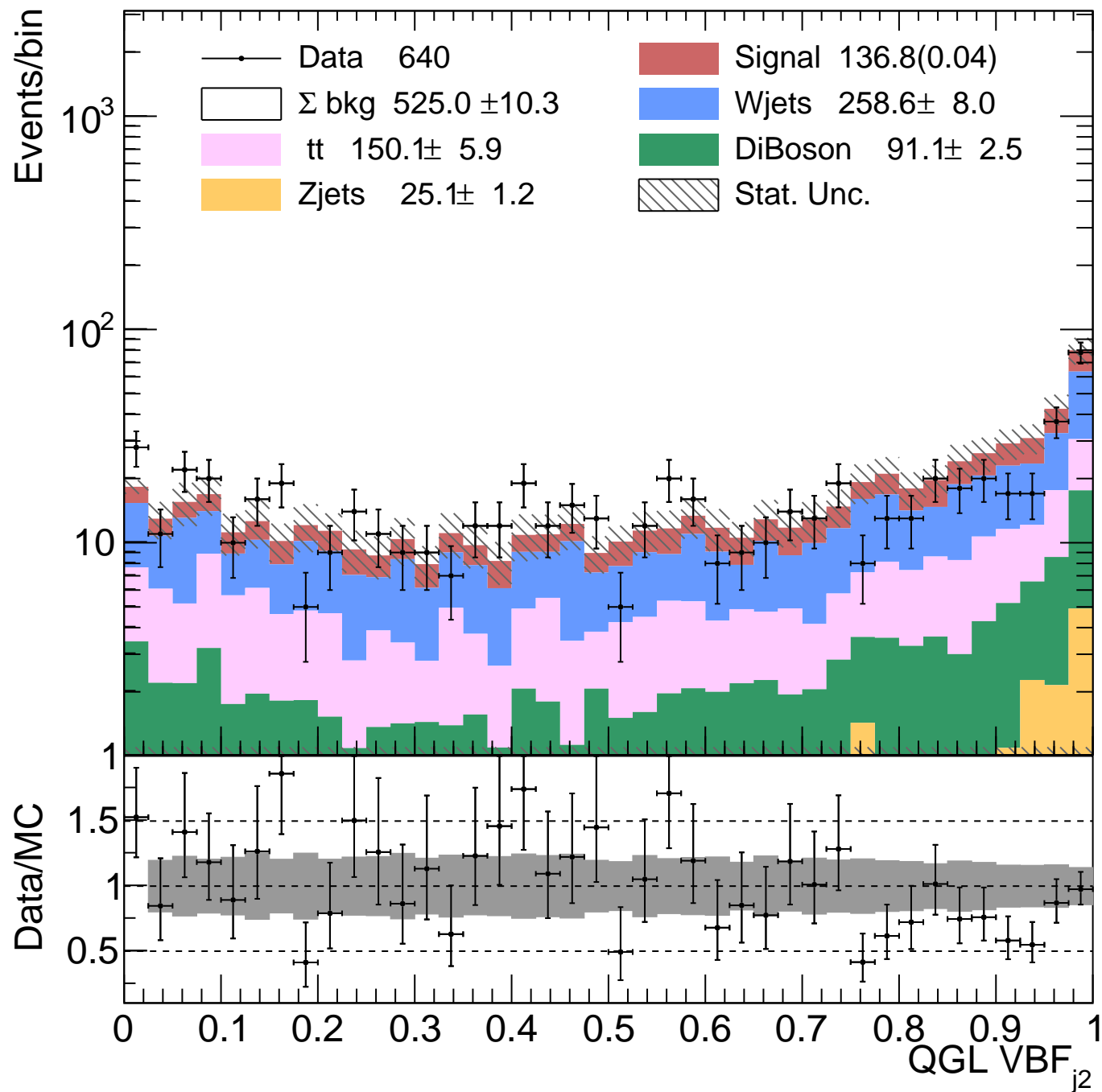
1

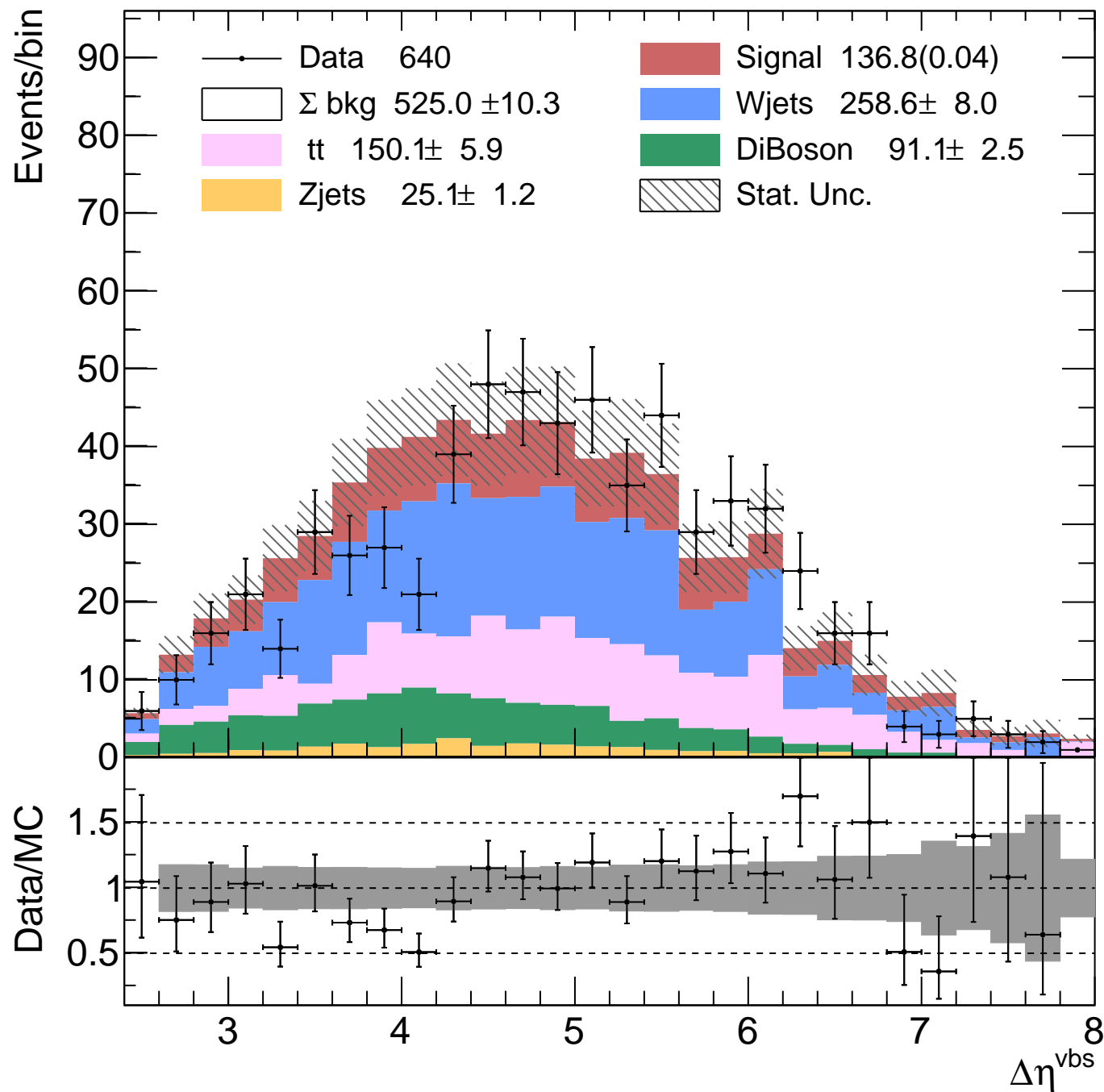
2

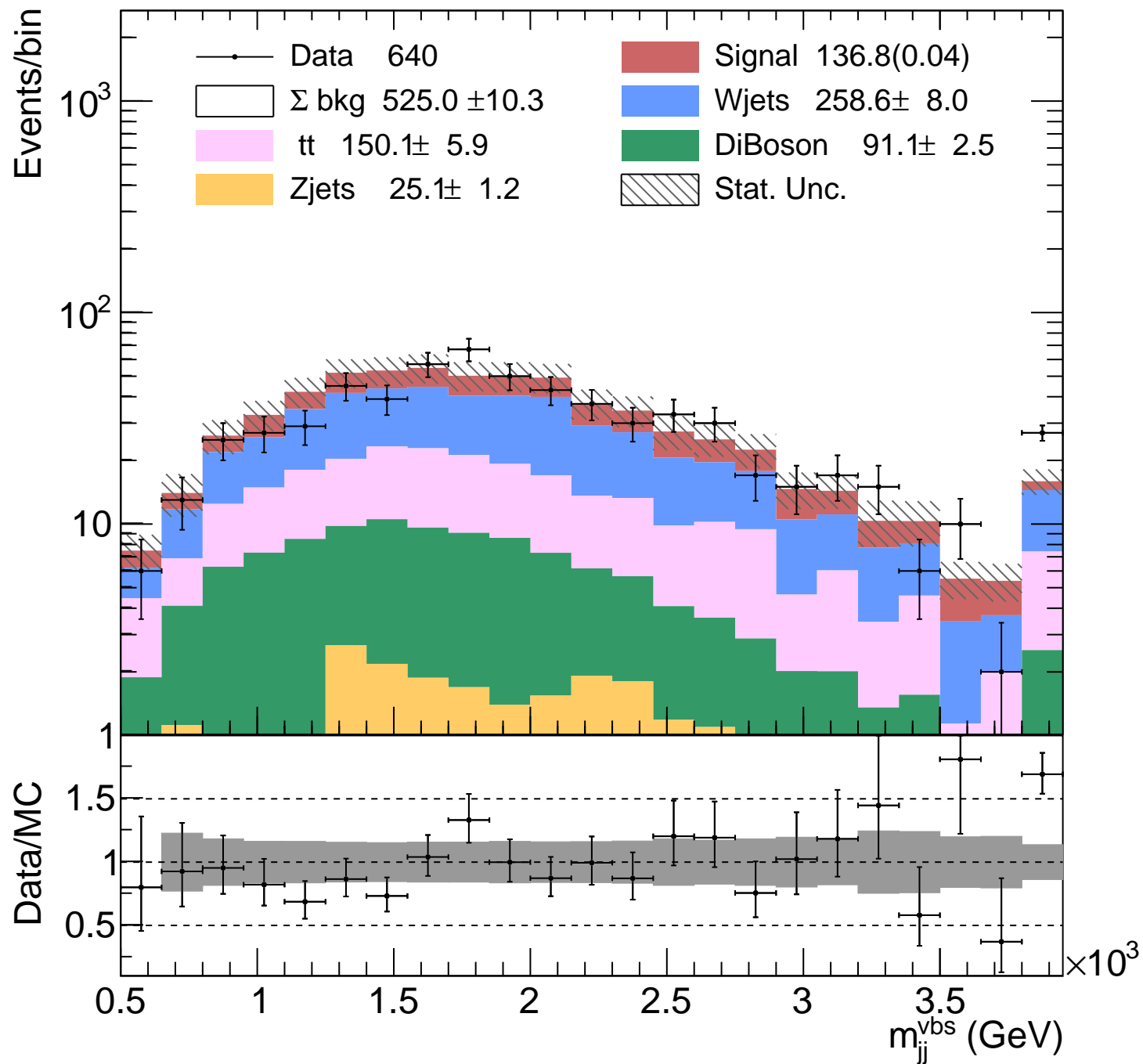
3

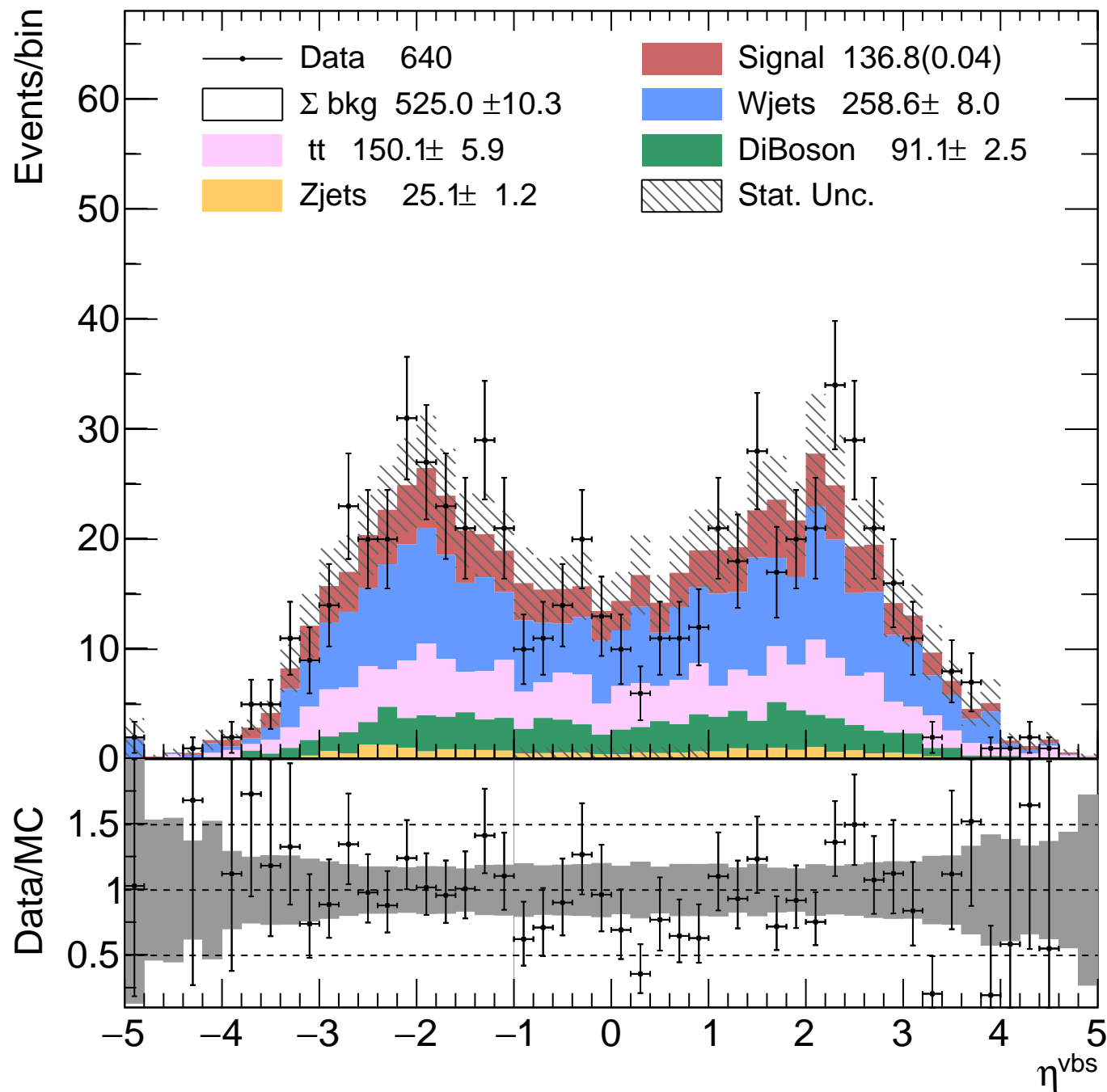
VBS  $\phi_{j2}$ 

**CMS****137 fb<sup>-1</sup> (13 TeV)**

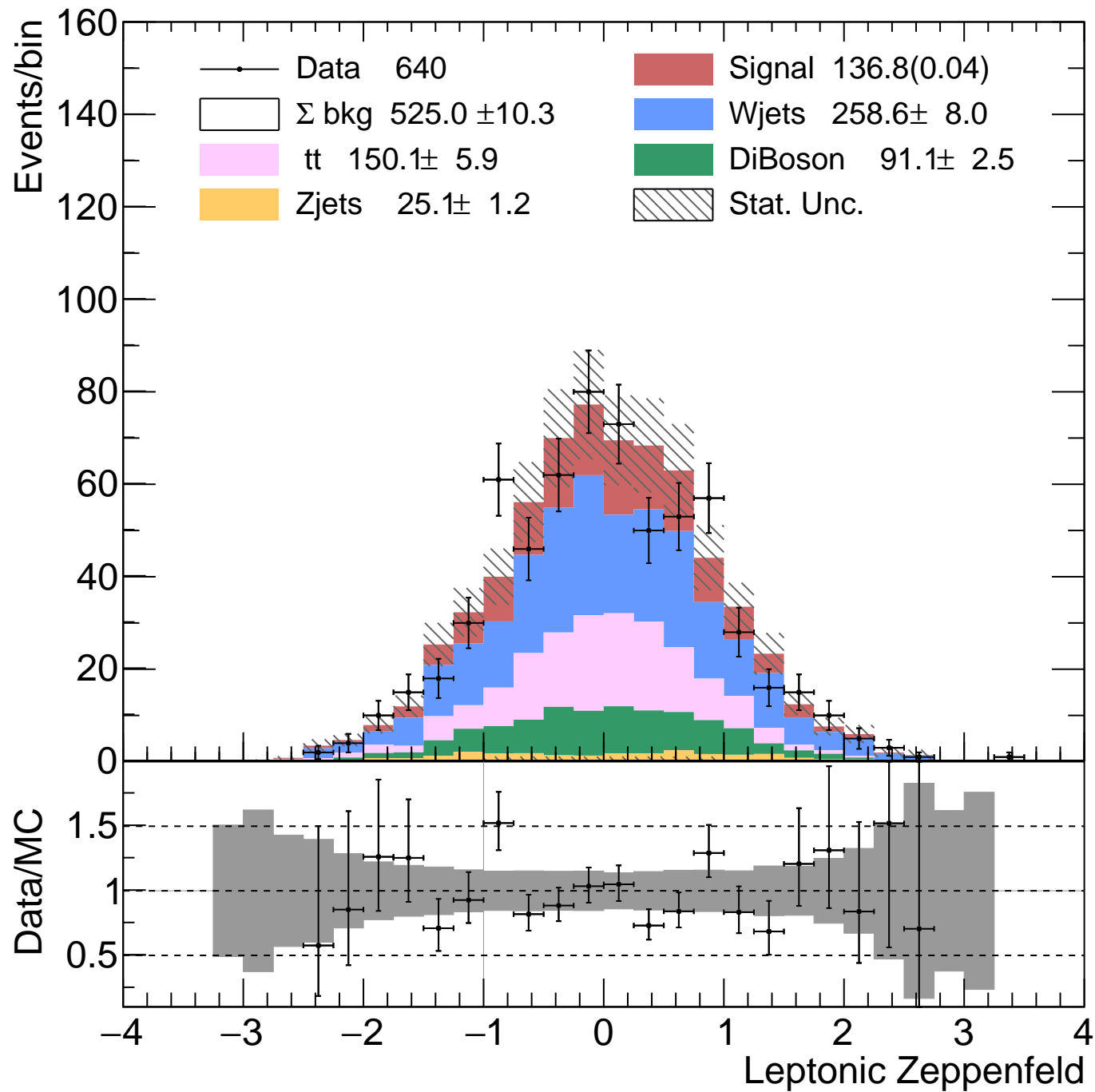
**CMS****137 fb<sup>-1</sup> (13 TeV)**

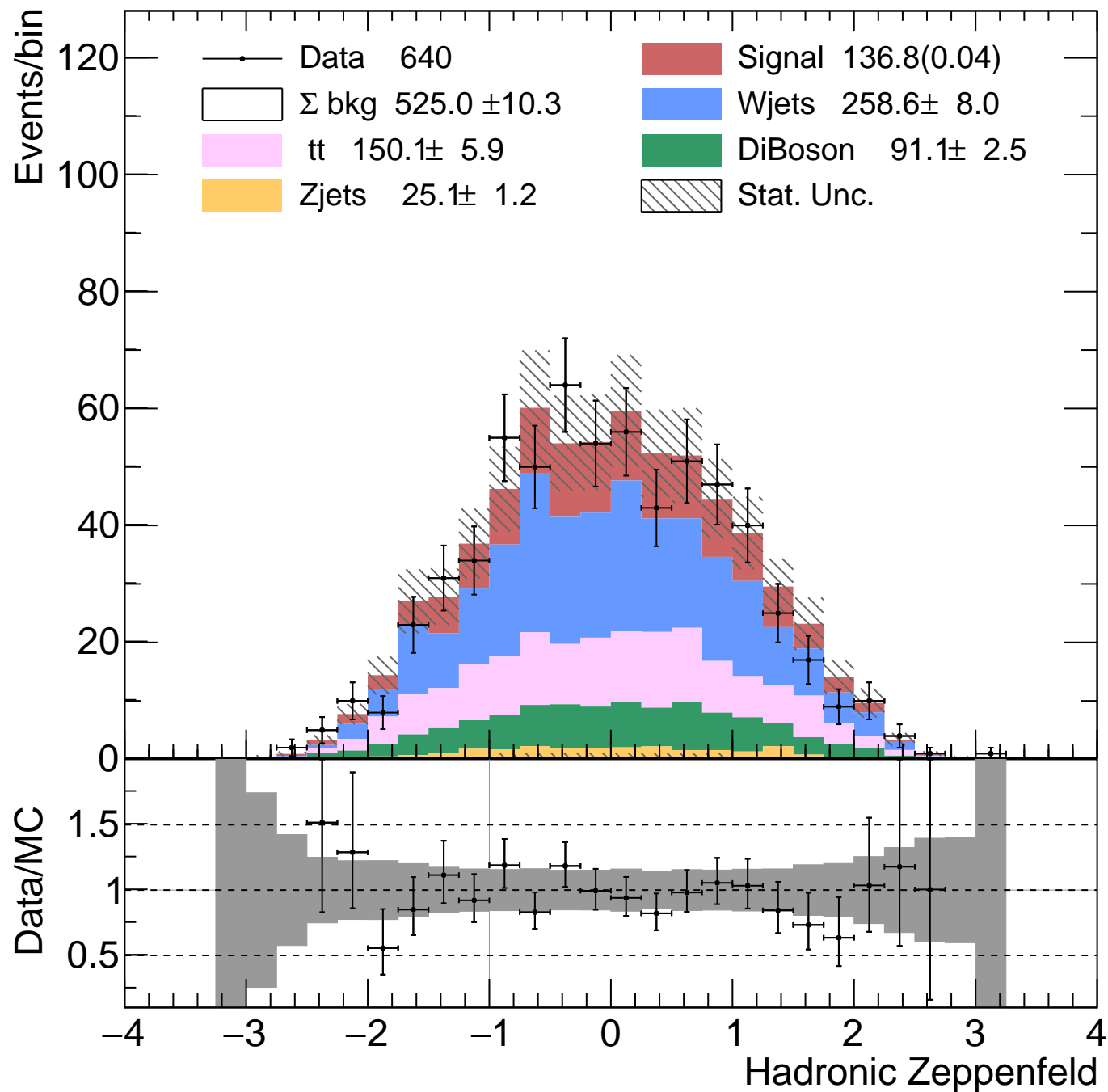
**CMS****137 fb<sup>-1</sup> (13 TeV)**

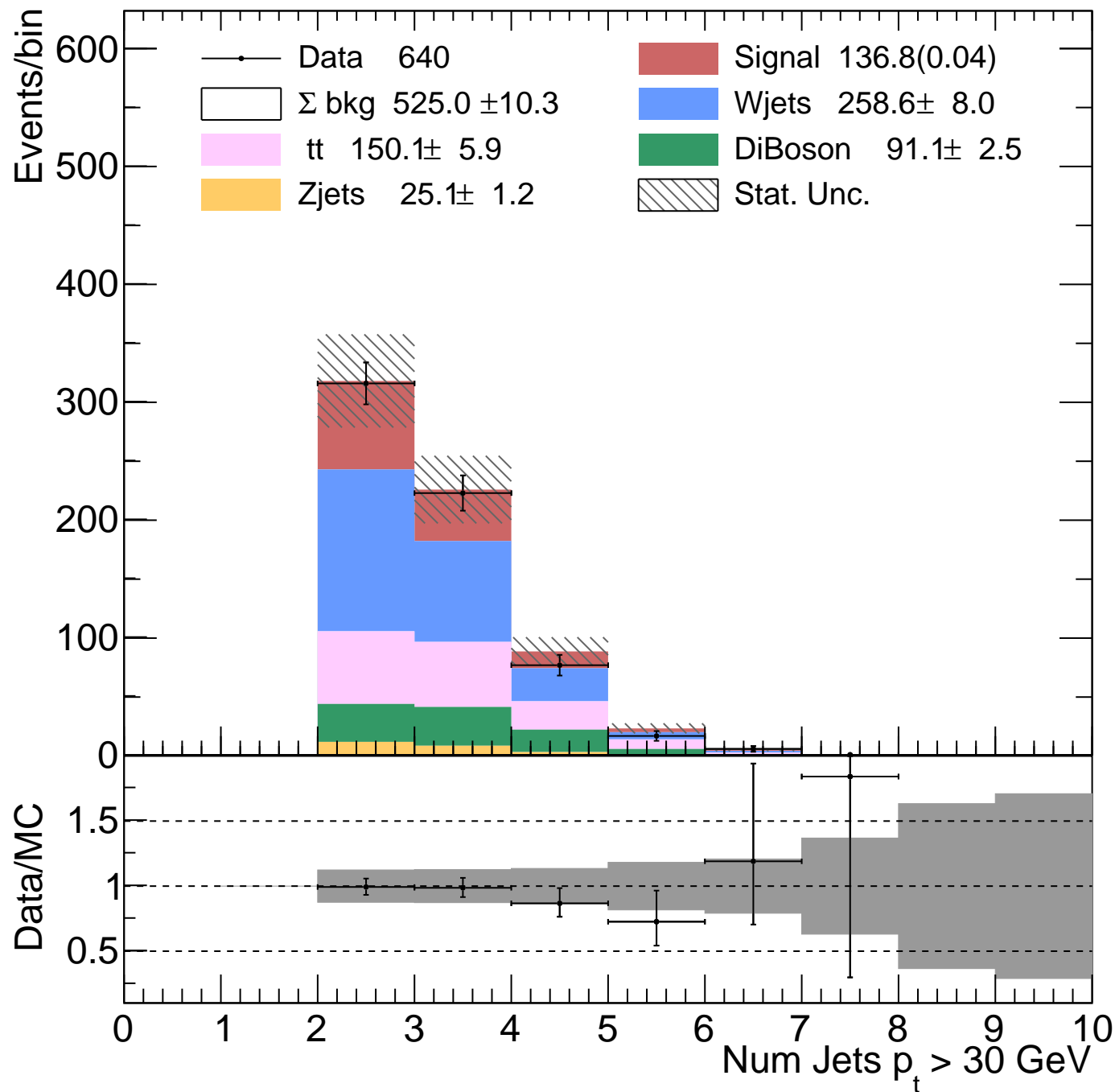
**CMS****137 fb<sup>-1</sup> (13 TeV)**

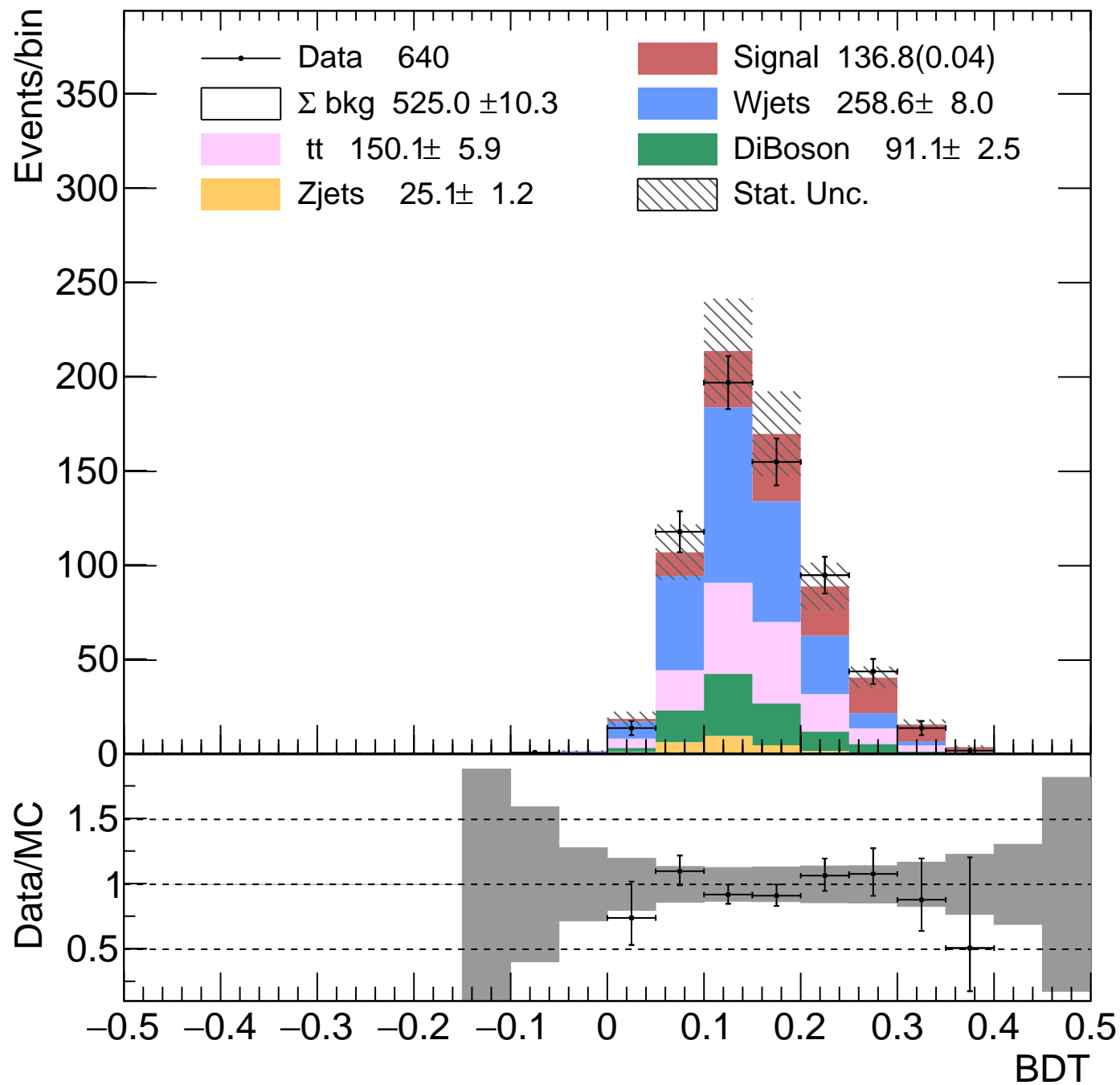
**CMS****137 fb<sup>-1</sup> (13 TeV)**



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**CMS****137 fb<sup>-1</sup> (13 TeV)**