

RIVET-based MC Comparison

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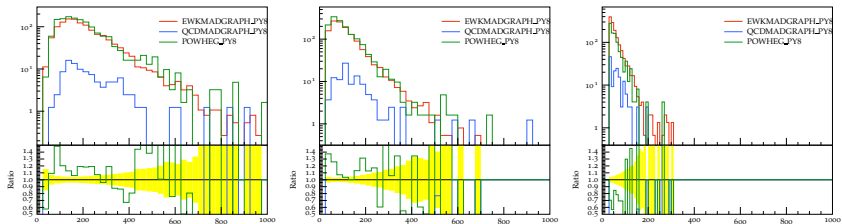
LHCEWWG-MB + VBScan: VBS ssWW Rivet Analysis discussion

October 16, 2018

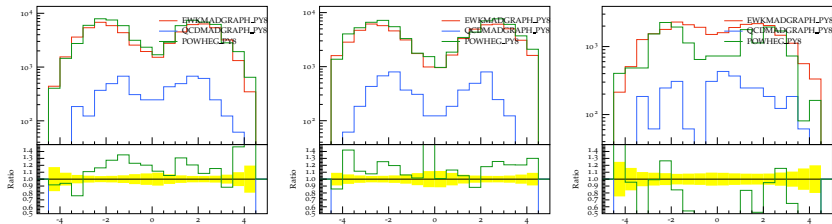
MC Samples

- WpWpJJ_13TeV-powheg-pythia8_TuneCUETP8M1
 - WpWpJJ_EWK_TuneCUETP8M1_13TeV-madgraph-pythia8
 - WpWpJJ_QCD_TuneCUETP8M1_13TeV-madgraph-pythia8
-
- MET > 40 GeV
 - Lepton pT > 20 GeV & $|\eta| < 2.5$
 - $\Delta R(lep1, lep2) > 0.3$
 - At least two jets with pT > 30 GeV & $|\eta| < 4.5$
 - $m_{jj} > 500$ GeV & $\Delta y_{jj} < 2.5$

p_T of the jets

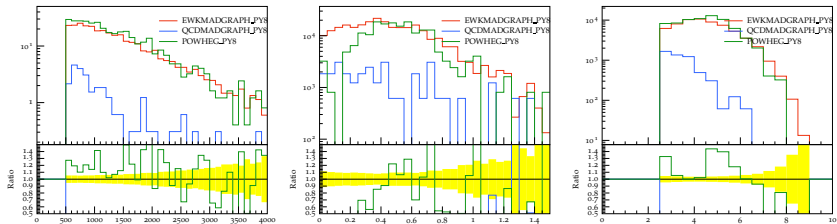


rapidity of the jets

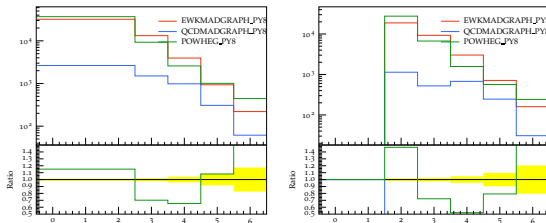


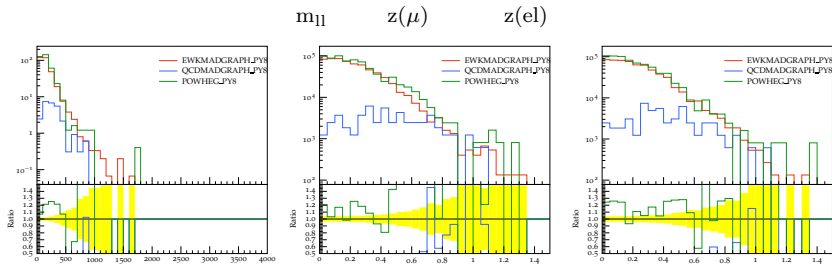
Small discrepancies observed for the two EWK samples

m_{jj} $z(j3)$ Δy_{jj}



number of jets: inclusive and exclusive





Shapes are consistent for the two EWK samples