

13000 GeV pp

Z (Drell-Yan)

 $\langle N_{\text{ch}} \rangle$  vs  $p_{\text{T}}^{\text{Z}}$  (ATLAS UE in Z production)

■ ATLAS  
—▲ Pythia 8.176 default

Rivet 3.1.10, 300k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

 $\langle N_{\text{ch}}/d\eta d\phi \rangle$ 

Ratio to ATLAS

 $Z p_{\text{T}}$  [GeV]