

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig++ Powheg 2.7.1 default
- MadGraph5 2.6.1.atlas lo

Rivet 3.1.10,  $\geq 400\text{k}$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

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

Ratio to ATLAS

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