

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- △ Herwig++ Powheg 2.7.1 default
- ◆ Sherpa 1.4.5 default

Rivet 3.1.10, ≥ 300k 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]

0

200

400

6

5

4

3

2

1

0

2

1

0.5

2

1

0.5