

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig++ 2.7.0 default
- Herwig 7.2.1 default
- ▲- Pythia 8.201 default

 $\langle N_{\text{ch}} \rangle / d\eta d\phi$ Rivet 3.1.10,  $\geq 200\text{k events}$ 

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2

1

0.5

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