

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- △ Herwig++ Powheg 2.6.1a default
- Herwig 7.2.1 default
- ▲ Pythia 8.308 default

Rivet 3.1.10, ≥ 400k 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]