

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig++ 2.7.1 default
- △ Herwig++ Powheg 2.6.0 default
- ▼ Herwig++ Powheg 2.6.0 LHC-UE-EE-4
- Herwig 7.2.1 default

Rivet 3.1.10, $\geq 300\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2

1

0.5

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

0

200

400