

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig++ 2.6.0 default
- Herwig 7.2.1 default
- ▲- Pythia 8.308 default

 $1/N_{\text{ev}} dN_{\text{ev}}/dN_{\text{ch}}/d\eta d\phi$

7

6

5

4

3

2

1

0

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

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

3

2

1

0.5

2

1

0.5

0

200

400

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