

13000 GeV pp

Z (Drell-Yan)

 $p_T$  spectrum (ATLAS UE in Z production)

- ATLAS
- △ Herwig++ Powheg 2.5.2 default
- ◆ Sherpa 2.2.9 default

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

4

3.5

3

2.5

2

1.5

1

0.5

0

ATLAS\_2019\_I1736531

Rivet 3.1.10, ≥ 300k events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1.5

1

0.5

2

1.5

1

0.5

0

2

4

 $N_{ch}/d\eta d\phi$ 