

13000 GeV pp

Z (Drell-Yan)

Average $\Sigma(p_T)$ (ATLAS UE in Z production)

- ATLAS
- Herwig++ 2.6.1a default
- △- Herwig++ Powheg 2.7.1 default
- ▽- Herwig++ Powheg 2.7.1 LHC-UE-EE-4
- Herwig 7.2.1 default

Rivet 3.1.10, ≥ 400k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

 $\langle \sum p_T / d\eta d\phi \rangle$ [GeV]

Ratio to ATLAS

 $Z p_T$ [GeV]

0

200

400

5

4

3

2

1

0

2

1

0.5

2

0.5