

13000 GeV pp

Z (Drell-Yan)

Average $\Sigma(p_T)$ (ATLAS UE in Z production) $\langle \text{sum } p_T / d\eta d\phi \rangle$ [GeV]

- ATLAS
- Herwig 7.2.1 default
- ▲— Pythia 8.308 default
- ◆··· Sherpa 2.2.9 default

2.5

2.0

1.5

1.0

0.5

0

Rivet 3.1.10, ≥ 2.6 M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2

1

0.5

2

1

0.5

0

200

400

 $Z p_T$ [GeV]