

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- - □ Herwig 7.2.1 default
- ○ MadGraph5 2.7.2.atlas3 lo
- ▲ Pythia 8.308 default
- ◆ Sherpa 2.2.9 default

Rivet 3.1.10, $\geq 3.1M$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

 $\langle \text{sum } p_T / d\eta d\phi \rangle$ [GeV]6
5
4
3
2
1
0

2

2

Ratio to ATLAS

1
0.51
0.50 200 400
Z p_T [GeV]