

13000 GeV pp

Z (Drell-Yan)

 $\langle p_T \rangle$ vs p_T^Z (ATLAS UE in Z production) $\langle \text{mean } p_{T/d\eta d\phi} \rangle$ [GeV]

Ratio to ATLAS

0.5

1

2

8
7
6
5
4
3
2
1
0
2
1
0.5

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

ATLAS_2019_I1736531

Rivet 3.1.10, $\geq 3.1\text{M}$ events
mcplots.cern.ch [arXiv:1306.3436]0 200 400
 $Z p_T$ [GeV]