

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

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.308 default
- - ◆ Sherpa 2.2.9 default

 $\langle \text{sum } p_T / d\eta d\phi \rangle$ [GeV]60
50
40
30
20
10
0Rivet 3.1.10, $\geq 3.1\text{M}$ events
mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2
1
0.52
1
0.50 200 400
 $Z p_T$ [GeV]