

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig 7.2.1 default
- ▲— Pythia 8.308 default
- - - ▼ - - - Pythia 8.308 vincia-default
- ...♦... Sherpa 2.2.9 default

 $\langle \text{sum } p_{T,i} / d\eta d\phi \rangle$ [GeV]6
5
4
3
2
1
0Rivet 3.1.10, ≥ 2.6 M events
mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2
1
0.52
1
0.5Z p_T [GeV]

0

200

400