

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig 7.2.1 default
- ▲— Pythia 8.170 default
- ◆··· Sherpa 2.2.9 default

 $\langle \text{sum } p_{T, \text{d}\phi} \rangle [\text{GeV}]$ Rivet 3.1.10, $\geq 400k$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2

1

0.5

 $Z p_T [\text{GeV}]$ 