

13000 GeV pp

Z (Drell-Yan)

Average $\Sigma(p_T)$ (ATLAS UE in Z production) $\langle \text{sum } p_{T, \text{dn}} d\phi \rangle$ [GeV]

- ATLAS
- △ Herwig++ Powheg 2.7.1 default
- ◆ Sherpa 2.2.9 default

Rivet 3.1.10, $\geq 3.1\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2

0.5

 $Z p_T$ [GeV]