

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- - □ Herwig 7.2.1 default
- ... ◆ Sherpa 2.2.9 default

Rivet 3.1.10, ≥ 2.6 M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

 $\langle \text{sum } p_{T, \text{d}\eta \text{d}\phi} \rangle$ [GeV]

Ratio to ATLAS

Z p_T [GeV]