

13000 GeV pp

Z (Drell-Yan)

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

1/ N_{ch} dN_{ch}/dp_T [GeV]

■ ATLAS
△ Herwig++ Powheg 2.7.1 default
○ MadGraph5 2.7.2.atlas3 lo
◆ Sherpa 2.2.9 default

Rivet 3.1.10, $\geq 2.4\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

