

13000 GeV pp

Z (Drell-Yan)

 p_T spectrum (ATLAS UE in Z production) $1/N_{\text{ch}} dN_{\text{ch}}/dp_T [\text{GeV}]$

- ATLAS
- △ Herwig++ Powheg 2.7.1 default
- Herwig 7.2.1 default
- ▲ Pythia 8.308 default
- ◆ Sherpa 1.4.5 default

Rivet 3.1.10, $\geq 300\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

0.5

1

2

0.5

1

2

 $p_T [\text{GeV}]$ 