

13000 GeV pp

Z+Jet

<pT> (ATLAS UE in Z production)

 $1/N_{\text{ch}} dN_{\text{ch}}/dp_T [\text{GeV}]$

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.170 default

Rivet 3.1.10, ≥ 400k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS 2019 I1736531

Ratio to ATLAS

4
3.5
3
2.5
2
1.5
1
0.5
0

2
1
0.5

3
2
1
0.5

$p_T [\text{GeV}]$