

13000 GeV pp

Z+Jet

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

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

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

0.3

0.25

0.2

0.15

0.1

0.05

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

ATLAS_2019_I1736531

Ratio to ATLAS

2

1

0.5

0

0

0

0

0

0

0

0

0

2

1

0

4

3

2

 $p_T [\text{GeV}]$ Rivet 3.1.10, $\geq 2.4\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]