

13000 GeV pp

Z+Jet

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

■ ATLAS

---○--- Herwig++ 2.6.1a default

---□--- Herwig 7.2.1 default

Rivet 3.1.10, $\geq 400\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_1178531

Ratio to ATLAS

2

1

0.5

 $p_T [\text{GeV}]$ 