

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig++ 2.5.0 default
- Herwig 7.2.1 default
- ▼- Herwig 7.2.1 softTune

 $\langle \text{sum } p_T / d\eta d\phi \rangle$  [GeV]

6

5

4

3

2

1

0

ATLAS\_2019\_I1736531

Rivet 3.1.10,  $\geq 300k$  events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

2

1

1

0.5

0.5

0

200

400

 $Z p_T$  [GeV]