

13000 GeV pp

Z (Drell-Yan)

Average  $\Sigma(p_T)$  (ATLAS UE in Z production) $\langle \text{sum } p_T / d\eta d\phi \rangle$  [GeV]9  
8  
7  
6  
5  
4  
3  
2  
1  
0

- ATLAS
- Herwig++ 2.7.1 default
- Herwig 7.2.1 default
- ▼- Herwig 7.2.1 softTune

ATLAS\_2019\_I1736531

Rivet 3.1.10,  $\geq 2.8\text{M}$  events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2  
1  
0.52  
1  
0.5

0.5

0.5

0

200

400

 $Z p_T$  [GeV]