

13000 GeV pp

Z (Drell-Yan)

 $p_T$  spectrum (ATLAS UE in Z production)

- ATLAS
- - □ Herwig 7.2.1 default

 $1/N_{\text{ch}} dN_{\text{ch}}/dp_T$  [GeV]4  
3.5  
3  
2.5  
2  
1.5  
1  
0.5  
0Rivet 3.1.10, 2.9M events  
mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2  
1  
0.52  
1  
0.50 2 4  $p_T$  [GeV]