

13000 GeV pp

Z (Drell-Yan)

 $p_T$  spectrum (ATLAS UE in Z production)

- ATLAS
- ▲ Pythia 8.183 default

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

3  
2.5  
2  
1.5  
1  
0.5  
0

Rivet 3.1.10, 300k events  
mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2  
1  
0.5

2  
1  
0.5

 $p_T$  [GeV]