

13000 GeV pp

Z (Drell-Yan)

 $p_T$  spectrum (ATLAS UE in Z production)

- ATLAS
- ▲ Pythia 8.170 default

 $1/N_{ev} dN_{ev}/d \text{ mean } p_T [\text{GeV}]^{-1}$ 

3.5  
3  
2.5  
2  
1.5  
1  
0.5  
0

Rivet 3.1.10, 400k events  
mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2  
1  
0.5

2  
1  
0.5

Mean  $p_T/d\eta d\phi$ 

0

2

4