

13000 GeV pp

Z (Drell-Yan)

 $\langle p_T \rangle$ (ATLAS UE in Z production)

- ATLAS
- ▲ Pythia 8.170 default
- - □ Pythia 8.170 tune-4cx

 $1/N_{\text{ev}} dN_{\text{ev}}/d \text{ mean } p_T [\text{GeV}]^{-1}$ 4
3.5
3
2.5
2
1.5
1
0.5
0Rivet 3.1.10, $\geq 300\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS 2019_I1736531

Ratio to ATLAS

2
1
0.52
1
0.5Mean $p_T/d\eta d\phi$

1

2

3