

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- ▲ Pythia 8.308 default
- ▲ Pythia 8.308 default-noCR

 $1/N_{\text{ev}} dN_{\text{ev}}/d \text{mean } p_T [\text{GeV}]^{-1}$ 5
4
3
2
1
0Rivet 3.1.10, $\geq 3.3\text{M}$ events
mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2
1
0.52
1
0.5

1

2

3

Mean $p_T/d\eta d\phi$ 