

13000 GeV pp

Z (Drell-Yan)

 $\langle p_T \rangle$ (ATLAS UE in Z production) $1/N_{\text{ev}} dN_{\text{ev}}/d \text{ mean } p_T [\text{GeV}]^{-1}$ 10^{-1} 10^{-2}

ATLAS

(ATLAS_2019_I1736531)

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

1

2

3

Mean $p_T/d\eta d\phi$ 