

13000 GeV pp

Z (Drell-Yan)

Scalar  $\Sigma(p_T)$  (ATLAS UE in Z production)

■ ATLAS  
—▲ Pythia 8.183 default

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

Rivet 3.1.10, 300k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS 2019\_I1736531

Ratio to ATLAS

2

1

0.5

Mean  $p_T/d\eta d\phi$ 