

13000 GeV pp

Z (Drell-Yan)

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

■ ATLAS  
—▲ Pythia 8.170 default

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

Rivet 3.1.10, 400k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_11736531

Ratio to ATLAS

2

1

0.5

sum  $p_T/d\eta d\phi [\text{GeV}]$ 