

13000 GeV pp

Z (Drell-Yan)

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

10

1

 $10^{-1}$  $10^{-2}$  $10^{-3}$ 

ATLAS



Pythia 8.315 default



Pythia 8.315 default-CD



Pythia 8.315 default-DL



Pythia 8.315 default-MBR

(ATLAS\_2019\_I1736531)

Rivet 4.1.0,  $\geq 1.9$ M events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

0

2

4

