

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- ▲ Pythia 8.308 default

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

6

5

4

3

2

1

0

Rivet 3.1.10, 3.3M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2

2

1

1

0.5

0.5

0

200

400

Z  $p_T$  [GeV]