

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

- ATLAS
- ▲ Pythia 8.308 default
- Pythia 8.308 tune-A14-CTEQL1
- - - Pythia 8.308 tune-A14-MSTW2008LO
- ⋯ Pythia 8.308 tune-A14-NNPDF2.3LO
- - Δ Pythia 8.308 tune-CUETP8S1

Rivet 3.1.10, ≥ 3.1M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

 $\langle \text{sum } p_T / d\eta d\phi \rangle$  [GeV]6  
5  
4  
3  
2  
1  
0

Ratio to ATLAS

2  
1  
0.52  
1  
0.50 200 400  
Z  $p_T$  [GeV]