

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

- ATLAS
- ▲ Pythia 8.308 default
- -▼ Pythia 8.308 vincia-default

 $\langle \text{sum } p_{T, \text{dn}} d\phi \rangle$ [GeV]Rivet 3.1.10, $\geq 3.3\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2

2

1

1

0.5

0.5

0.5

0.5

0.5

0.5

35
30
25
20
15
10
5
0
2
1
0.5

0

200

400

 $Z p_T$ [GeV]