

$\langle p_T \rangle$  vs  $p_T^Z$  (ATLAS UE in Z production)

- ATLAS
- ▲ Pythia 8.308 default
- ✱ Pythia 8.308 tune-4c
- Pythia 8.308 tune-4cx

Rivet 3.1.10,  $\geq 3.2$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

 $\langle \text{mean } p_{T, \text{dn}} d\phi \rangle$  [GeV]7  
6  
5  
4  
3  
2  
1  
02  
1  
0.50 200 400  $Z p_T$  [GeV]

Ratio to ATLAS

0.5

2

2

0.5