

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

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.308 default
- - ◆ Sherpa 2.2.9 default

 $\langle \text{sum } p_{T,i} / d\eta d\phi \rangle$  [GeV]Rivet 3.1.10,  $\geq 3.1\text{M}$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2

1

0.5

60  
50  
40  
30  
20  
10  
0  
2  
1  
0.5

0

200

400

 $Z p_T$  [GeV]