

$\langle p_T \rangle$  vs  $p_T^Z$  (ATLAS UE in Z production) $\langle \text{mean } p_T / d\eta d\phi \rangle$  [GeV]

- ATLAS
- Herwig++ 2.7.1 default
- Herwig 7.2.1 default
- ▲- Pythia 8.308 default
- ▼- Pythia 8.308 vincia-default
- ◆- Sherpa 2.2.9 default

5  
4  
3  
2  
15  
4  
3  
2  
15  
4  
3  
2  
15  
4  
3  
2  
15  
4  
3  
2  
15  
4  
3  
2  
1

ATLAS\_2019\_I1736531

Ratio to ATLAS

0.5  
1  
2Rivet 3.1.10,  $\geq 3.1M$  events

mcplots.cern.ch [arXiv:1306.3436]

0.5  
1  
20.5  
1  
2 $Z p_T$  [GeV]

0

200

400