

13000 GeV pp

Z (Drell-Yan)

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

- 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

Rivet 3.1.10,  $\geq 3.1M$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

 $\langle \text{sum } p_{T, \text{dn}} d\phi \rangle$  [GeV]10  
8  
6  
4  
2  
0

Ratio to ATLAS

2  
1  
0.50 200 400  
 $Z p_T$  [GeV]2  
1  
0.5