

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- △ Herwig++ Powheg 2.7.1 default
- ◆ Sherpa 2.2.9 default

 $1/N_{\text{ev}} dN_{\text{ev}}/d \text{ mean } p_T [\text{GeV}]^{-1}$ 5  
4  
3  
2  
1  
0Rivet 3.1.10,  $\geq 2.6\text{M}$  events  
mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2  
1  
0.52  
1  
0.5Mean  $p_T/d\eta d\phi$ 

0

2

4