

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig 7.2.1 default
- MadGraph5 2.7.2.atlas3 lo
- ▲ Pythia 8.308 default
- ◆ Sherpa 2.2.9 default

 $1/N_{\text{ev}} dN_{\text{ev}}/d\text{sum } p_T/d\eta d\phi \text{ [GeV]}^{-1}$ Rivet 3.1.10,  $\geq 2.4\text{M events}$ 

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2

1

0.5

sum  $p_T/d\eta d\phi \text{ [GeV]}$ 