

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig 7.2.1 default
- ▲-- Pythia 8.170 default
- ...◆... Sherpa 2.2.9 default

 $1/N_{\text{ev}} dN_{\text{ev}}/d\text{sum } p_T/d\eta d\phi [\text{GeV}]^{-1}$

7

6

5

4

3

2

1

0

ATLAS_2019_I1736531

Rivet 3.1.10, $\geq 400\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

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

0

2

4