

13000 GeV pp

Z (Drell-Yan)

Nch (ATLAS UE in Z production)

- ATLAS
- Herwig 7.2.1 default
- MadGraph5 2.7.2.atlas3 lo
- ▲ Pythia 8.170 default
- ◆ Sherpa 2.2.9 default

Rivet 3.1.10, ≥ 400k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

0.5

1

2

0.5

1

2

sum  $p_T/d\eta d\phi$  [GeV] $1/N_{ev} dN_{ev}/d\sum p_T/d\eta d\phi$  [GeV]<sup>-1</sup>

6

5

4

3

2

1

0

0

1

2

3

4