

13000 GeV pp

Z (Drell-Yan)

N_{ch} (ATLAS UE in Z production)

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

 $1/N_{\text{ev}} dN_{\text{ev}}/dN_{\text{ch}}/d\eta d\phi$

Rivet 3.1.10, ≥ 400k events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

0.5

1

2

3

4

5

6

0

1

2

3

4

 $N_{\text{ch}}/d\eta d\phi$ 