

13000 GeV pp

Z (Drell-Yan)

 $\langle N_{\text{ch}} \rangle$  vs  $p_{\text{T}}^{\text{Z}}$  (ATLAS UE in Z production) $\langle N_{\text{ch}}/d\eta d\phi \rangle$ 

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.308 default
- - ◆ Sherpa 2.2.9 default

6

5

4

3

2

1

0

2

1

0

ATLAS\_2019\_I1736531

Ratio to ATLAS

2

1

0.5

0

200

400

 $Z p_{\text{T}}$  [GeV]Rivet 3.1.10,  $\geq 3.1\text{M}$  events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5