

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- Herwig 7.2.1 default
- ...♦... Sherpa 2.2.9 default

6

5

4

3

2

1

0

Rivet 4.1.0,  $\geq 1.6\text{M}$  events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2019\_I1736531)

Ratio to ATLAS

2

1

0.5

2

1

0.5

0

200

400