

13000 GeV pp

Z (Drell-Yan)

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

■ ATLAS

---△ Herwig++ Powheg 2.6.3 default

---◆ Sherpa 2.2.9 default

Rivet 3.1.10, ≥ 400k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

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

Ratio to ATLAS

 $Z p_{\text{T}}$ [GeV]

0

200

400

0.5

1.0

1.5

2.0

2.5

3

0.5

1

2

0.5

1

2

0.5

1

2