

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.201 default

 $\langle N_{\text{ch}} \rangle / d\eta d\phi$ 6
5
4
3
2
1
0
2
1
0.5Rivet 3.1.10, $\geq 400\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2
1
0.5 $Z p_{\text{T}}$ [GeV]

0

200

400