

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
- ▲ Pythia 8.301 default
- ✱ Pythia 8.301 tune-4c
- Pythia 8.301 tune-4cx

6

5

4

3

2

1

0

2

1

0.5

0

200

400

 $Z p_{\text{T}}$  [GeV]Rivet 3.1.10,  $\geq 400\text{k}$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

2

1

0.5