

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- ▲ Pythia 8.315 default
- -▲ Pythia 8.315 default-CD
- -▲ Pythia 8.315 default-DL
- ...▲ Pythia 8.315 default-MBR

6

5

4

3

2

1

0

2

1

0

2

1

0

2

1

0

2

1

0

2

1

0

(ATLAS_2019_I1736531)

Ratio to ATLAS

Rivet 4.1.0, $\geq 1.9\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0

2

1

0

2

1

0

0

200

400