

13000 GeV pp

Z (Drell-Yan)

Nch (ATLAS UE in Z production)

- ATLAS
- ▲ Pythia 8.308 default
- - * Pythia 8.308 tune-4c
- - □ Pythia 8.308 tune-4cx

Rivet 3.1.10, ≥ 2.4M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_1106531

Ratio to ATLAS

2

1

0.5

 $N_{ch}/d\eta d\phi$ 