

13000 GeV pp

Z (Drell-Yan)

Nch (ATLAS UE in Z production)

- ATLAS
- ▲ Pythia 8.186 default
- ✱ Pythia 8.186 tune-4c
- Pythia 8.186 tune-4cx

Rivet 3.1.10, ≥ 300k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

Ratio to ATLAS

2

1

0.5

 $N_{ch}/d\eta d\phi$ $1/N_{ev} dN_{ev}/dN_{ch}/d\eta d\phi$ 