

13000 GeV pp

Z+Jet

 $p_T$  spectrum (ATLAS UE in Z production)

- ATLAS
- ▲ Pythia 8.183 default
- -▲ Pythia 8.183 default-CD
- ...▲ Pythia 8.183 default-MBR

Rivet 3.1.10, ≥ 200k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS 2019, 11736531

Ratio to ATLAS

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