

13000 GeV pp

Z+Jet

 $p_T$  spectrum (ATLAS UE in Z production)

- ATLAS
- Pythia 6.428 346
- △ Pythia 6.428 347
- ◇ Pythia 6.428 348
- ⊕ Pythia 6.428 349
- △ Pythia 6.428 370

Rivet 3.1.10,  $\geq 2$  M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS 2019 I1736531

Ratio to ATLAS

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