

13000 GeV pp

Z+Jet

 $p_T$  spectrum (ATLAS UE in Z production)

■ ATLAS  
—▲ Pythia 8.170 default

Rivet 3.1.10, 300k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS, 2019, 11736531

Ratio to ATLAS

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