

13000 GeV pp

Z+Jet

<pT> (ATLAS UE in Z production)

 $1/N_{\text{ch}} dN_{\text{ch}}/dp_T [\text{GeV}]$

- ATLAS
- - ■ Pythia 6.428 359
- - △ Pythia 6.428 370
- - ▲ Pythia 6.428 a
- - ▼ Pythia 6.428 dw
- - ○ Pythia 6.428 p0
- - ☆ Pythia 6.428 pro-q20

Rivet 3.1.10, ≥ 2M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_04.06531

Ratio to ATLAS

2

1

0.5

 $p_T [\text{GeV}]$ 