

13000 GeV pp

Z+Jet

 $\langle p_T \rangle$ (ATLAS UE in Z production) $1/N_{\text{ch}} dN_{\text{ch}}/dp_T [\text{GeV}]$

- ATLAS
- ▲ Pythia 8.170 default
- - □ Pythia 8.170 tune-4cx

Rivet 3.1.10, $\geq 400\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_11736531

Ratio to ATLAS

2

1

0.5

 $p_T [\text{GeV}]$

3

2

1