

13000 GeV pp

Z (Drell-Yan)

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

■ ATLAS  
—▲ Pythia 8.308 default

Rivet 3.1.10, 2.6M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS 2019\_I1736531

Ratio to ATLAS

2

1

0.5

 $p_T$  [GeV]