

13000 GeV pp

Z (Drell-Yan)

N_{ch} (ATLAS UE in Z production)

■ ATLAS
—▲ Pythia 8.170 default

 $1/N_{\text{ev}} dN_{\text{ev}}/dN_{\text{ch}}/d\eta d\phi$

Rivet 3.1.10, 400k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_11736531

Ratio to ATLAS

2

1

0.5

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