

13000 GeV pp

Z (Drell-Yan)

Nch (ATLAS UE in Z production)

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

10

1

 10^{-1} 10^{-2}

■ ATLAS

(ATLAS_2019_I1736531)

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

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