

13000 GeV pp

Z (Drell-Yan)

Nch (ATLAS UE in Z production)

■ ATLAS

—▲ Pythia 8.170 default

 $1/N_{\text{ev}} dN_{\text{ev}}/dN_{\text{ch}}/d\eta d\phi$ 1.4
1.2
1
0.8
0.6
0.4
0.2
0

Rivet 3.1.10, 400k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_01736531

Ratio to ATLAS

2
1
0.52
1
0.5 $N_{\text{ch}}/d\eta d\phi$ 