

13000 GeV pp

Z (Drell-Yan)

Nch (ATLAS UE in Z production)

■ ATLAS
—▲ Pythia 8.170 default

 $1/N_{\text{ev}} dN_{\text{ev}}/d\text{sum } p_{\text{T}}/d\eta d\phi \text{ [GeV]}^{-1}$

1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0

Rivet 3.1.10, 400k events
mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_14736531

Ratio to ATLAS

2
1
0.5

2
1
0.5

sum $p_{\text{T}}/d\eta d\phi$ [GeV]