

13000 GeV pp

Z (Drell-Yan)

 $\langle N_{\text{ch}} \rangle$ vs p_{T}^Z (ATLAS UE in Z production) $\langle N_{\text{ch}}/d\eta d\phi \rangle$

Ratio to ATLAS

3

2.5

2

1.5

1

0.5

0

■

ATLAS

○

Herwig++ 2.7.1 default

—

Herwig++ 2.7.1 UE-EE-5

□

Herwig 7.0.0 default

3

2.5

2

1.5

1

0.5

0

0

200

400

0

200

400

Z p_{T} [GeV]

ATLAS_2019_I1736531

Rivet 3.1.10, $\geq 500\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

0

0