

13000 GeV pp

Z (Drell-Yan)

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

- ATLAS
- ▲ Pythia 8.209 default
- -▲ Pythia 8.209 default-CD

Rivet 3.1.10, $\geq 400\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

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

Ratio to ATLAS

 $Z p_{\text{T}}$ [GeV]