

13000 GeV pp

Underlying Event

Mean charged-particle multiplicity density,  $p_T^{\text{lead}} > \{10 \text{ GeV}\}$  $\langle N_{\text{ch}} / \delta\eta \delta\phi \rangle$ 

- ATLAS
- ▲ Pythia 8.315 default
- -▲ Pythia 8.315 default-CD
- -▲ Pythia 8.315 default-DL
- ⋯▲ Pythia 8.315 default-MBR

5

4

3

2

1

0

Rivet 4.1.0,  $\geq 2.9\text{M}$  events

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS\_2017\_I1509919)

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $|\Delta\phi|$  [degrees]