

13000 GeV pp

Underlying Event

 $\langle N_{ch} \rangle$  vs  $\phi^{lead}$  ( $|\eta| < 2.5$ ,  $p_T > 0.5$  GeV,  $p_{T1} > 10$  GeV)

- ATLAS
- ▲ Pythia 8.308 default
- -▲ Pythia 8.308 default-CD
- -▲ Pythia 8.308 default-DL
- ⋯▲ Pythia 8.308 default-MBR

5

4

3

2

1

0

2

1

0.5

Rivet 3.1.10,  $\geq 2.7$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2017\_I1509919

Ratio to ATLAS

 $|\Delta \phi|$  [degrees]