

13000 GeV pp

Underlying Event

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

- ATLAS
- ▲ Pythia 8.308 default
- ✱ Pythia 8.308 tune-4c
- ◻ Pythia 8.308 tune-4cx

5

4

3

2

1

0

2

1

0.5

Rivet 3.1.10, ≥ 2.7 M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2017_I1509919

2

1

0.5

Ratio to ATLAS

 $|\Delta \phi|$ [degrees] $\langle N_{ch} / \Delta \eta \Delta \phi \rangle$