

13000 GeV pp

Underlying Event

 $\langle N_{\text{ch}} \rangle$ vs ϕ^{lead} ($|\eta| < 2.5$, $p_{\text{T}} > 0.5$ GeV, $p_{\text{T}1} > 10$ GeV)

- ATLAS
- ▲ Pythia 8.308 default
- - ▼ Pythia 8.308 tune-AU2
- · · ◇ Pythia 8.308 tune-AU2lox
- · - □ Pythia 8.308 tune-AU2loxx
- · - ★ Pythia 8.308 tune-AU2m

5

4

3

2

1

0

2

1

0.5

Rivet 3.1.10, ≥ 2.1 M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2017_I1509919

Ratio to ATLAS

2

1

0.5

 $|\Delta \phi|$ [degrees]