

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 6.428 370
- - □ Pythia 6.428 391
- . - . ■ Pythia 6.428 default
- ▲ Pythia 8.165 default

5

4

3

2

1

0

0

0

0

0

0

0

0

0

0

0

0

Rivet 3.1.10, ≥ 300k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2017_I1509919

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $|\Delta \phi|$ [degrees]