

13000 GeV pp

Underlying Event

 $\langle N_{\text{ch}} \rangle$  vs  $\phi^{\text{lead}}$  ( $|\eta| < 2.5$ ,  $p_{\text{T}} > 0.5$  GeV,  $p_{\text{T}1} > 5$  GeV)

- ATLAS
- ▲ Pythia 8.212 default
- -▼ Pythia 8.212 tune-AU2
- · -◇ Pythia 8.212 tune-AU2lox
- · -□ Pythia 8.212 tune-AU2loxx
- · -★ Pythia 8.212 tune-AU2m

Rivet 3.1.10, ≥ 300k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2017\_I1509919

Ratio to ATLAS

2

1

0.5

 $|\Delta \phi|$  [degrees]