

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
- Herwig 7.2.1 default
- △-- Pythia 6.428 370
- ▲-- Pythia 8.308 default
- ◇-- Sherpa 1.4.5 default

5

4

3

2

1

0

0

2

1

0.5

0

50

100

150

 $|\Delta \phi|$ [degrees]Rivet 3.1.10, $\geq 400k$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

ATLAS_2017_I1509919

Ratio to ATLAS

 $\langle N_{ch} / \Delta \eta \Delta \phi \rangle$ 