

13000 GeV pp

Underlying Event

Mean charged-particle multiplicity density,  $p_T^{\text{lead}} > \{1 \text{ GeV}\}$ 

- ATLAS
- Herwig++ 2.7.1 default
- Herwig 7.2.1 default
- ▲- Pythia 8.243 default
- ◆- Sherpa 2.2.9 default

Rivet 4.1.0,  $\geq 500k$  events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2017\_I1509919)

Ratio to ATLAS

2

1

2

 $|\Delta\phi|$  [degrees]