

13000 GeV pp

Underlying Event

Mean charged-particle multiplicity density,  $p_T^{\text{lead}} > \{10 \text{ GeV}\}$ 

- ATLAS
- + Epos 1.99.crmc.1.5.7 lhc
- - □ Herwig 7.2.1 default
- △ Pythia 6.428 370
- ▲ Pythia 8.135 default
- ◆ Sherpa 2.2.9 default

 $\langle N_{\text{ch}} / \delta\eta \delta\phi \rangle$ 

5

4

3

2

1

0

Rivet 4.1.0,  $\geq 800\text{k}$  events

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS\_2017\_I1509919)

Ratio to ATLAS

2

1

0.5

2

1

0.5

0

50

100

150

 $|\Delta\phi|$  [degrees]