

13000 GeV pp

Underlying Event

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

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.315 default
- - ◆ Sherpa 1.3.0 default

 $\langle N_{\text{ch}} / \delta\eta \delta\phi \rangle$ 5  
4  
3  
2  
1  
0Rivet 4.1.0,  $\geq 500\text{k}$  events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2017\_I1509919)

Ratio to ATLAS

2  
1  
0.52  
1  
0.50 50 100 150  $|\Delta\phi|$  [degrees]