

13000 GeV pp

Z+Jet

N<sub>ch</sub> (ATLAS UE in Z production)

- ATLAS
- Herwig 7.2.1 default
- △ Pythia 6.428 370
- ▲ Pythia 8.170 default
- ...♦ Sherpa 2.2.9 default

Rivet 3.1.10, ≥ 400k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I173653

Ratio to ATLAS

2

1

0.5

N<sub>ch</sub>/dη dφ