

13000 GeV pp

Z+Jet

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

- ATLAS  
--○-- Pythia 6.428 390  
--□-- Pythia 6.428 391  
--◇-- Pythia 6.428 392  
--\*-- Pythia 6.428 396  
--\*-- Pythia 6.428 397  
--▼-- Pythia 6.428 398

Rivet 3.1.10, ≥ 2.3M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2

1

0.5

N<sub>ch</sub>/dη dφ