

13000 GeV pp

Z+Jet

CMS, 13 TeV, AK4 jets, Z+jet region, $65 < p_T^{\text{jet}} < 88$ GeV

$$\frac{1}{\#} \frac{dN}{dp_T} \frac{d\lambda}{d\lambda}$$

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

- CMS
- ▲ Pythia 8.235 default
- Pythia 8.235 tune-A14-CTEQL1
- - - Pythia 8.235 tune-A14-MSTW2008LO
- ⋯ Pythia 8.235 tune-A14-NNPDF2.3LO
- - Δ Pythia 8.235 tune-CUETP8S1

(CMS_2021_I1920187)

Ratio to CMS

0.5

1

2

0.5

1

2

groomed multiplicity (charged-only)