

Z+Jet

Figure 1 displays the multiplicity distribution of jets in CMS data and Monte Carlo models. The top panel shows the multiplicity distribution (dN/dλ) for jets with p_T > 30 GeV. The bottom panel shows the ratio of the Monte Carlo models to the CMS data.

The top panel plots the multiplicity distribution (dN/dλ) versus multiplicity (λ). The x-axis ranges from 0 to 60, and the y-axis ranges from 0 to 220. The legend indicates the following models:

- CMS (Black squares)
- Herwig++ 2.6.1a default (Orange dashed line with circles)
- Herwig 7.2.1 default (Green dashed line with squares)
- Pythia 8.308 default (Blue solid line with triangles)

The bottom panel plots the ratio of the Monte Carlo models to the CMS data (Ratio to CMS) versus multiplicity (λ). The x-axis ranges from 0 to 60, and the y-axis ranges from 0.5 to 2.0. The ratio is shown as a stacked histogram with yellow and green bars. A horizontal line at 1.0 indicates the ratio of the Monte Carlo models to the CMS data.

mcplots.cern.ch [arXiv:1306.3436]