

Jets

Figure 1: Multiplicity distribution of CMS data and Monte Carlo models. The top panel shows the normalized multiplicity distribution $\frac{1}{N} \frac{dN}{d\lambda_0^0}$ versus multiplicity. The bottom panel shows the ratio of the Monte Carlo models to the CMS data, with yellow representing the ratio and green representing the difference.

Legend:

- CMS
- Pythia 6.425 default
- ▲— Pythia 8.308 default

Top Panel Y-axis: $\frac{1}{N} \frac{dN}{d\lambda_0^0}$

Bottom Panel Y-axis: Ratio to CMS

X-axis: multiplicity

Figure 1 is a two-panel plot showing the multiplicity distribution of CMS data and Monte Carlo models. The top panel is a line plot of the normalized multiplicity distribution $\frac{1}{N} \frac{dN}{d\lambda_0^0}$ versus multiplicity. The bottom panel is a stacked histogram showing the ratio of the Monte Carlo models to the CMS data, with yellow representing the ratio and green representing the difference. The x-axis for both panels is multiplicity, ranging from 0 to 100. The y-axis for the top panel is $\frac{1}{N} \frac{dN}{d\lambda_0^0}$, ranging from 0 to 120. The y-axis for the bottom panel is the ratio to CMS, ranging from 0.5 to 2.0. The plot is titled "Multiplicity λ_0^0 (CMS jet substructure)".

mcplots.cern.ch [arXiv:1306.3436]