

Z+Jet

Figure 1 consists of two panels. The top panel is a plot of the multiplicity distribution of jets in CMS (black squares) and Pythia 8.308 default (blue triangles) for 13 TeV pp collisions. The x-axis is labeled 'multiplicity' and ranges from 0 to 60. The y-axis is labeled 'mathrm d N / mathrm d p_{\mathrm{T}} mathrm d \lambda_0^0 (CMS jet substructure)' and ranges from 0 to 220. The CMS data points are very low, while the Pythia 8.308 default distribution peaks at a multiplicity of approximately 20. The bottom panel is a histogram showing the ratio of the Pythia 8.308 default distribution to the CMS distribution. The x-axis is labeled 'multiplicity' and ranges from 0 to 60. The y-axis is labeled 'Ratio to CMS' and ranges from 0.5 to 2. The histogram is colored green, indicating the ratio is between 0.5 and 1.5. A horizontal line is drawn at a ratio of 1.0. The legend in the top panel identifies the CMS data (black squares) and the Pythia 8.308 default distribution (blue triangles). The text 'CMS_2021_I1920187' is visible in the top panel.

■ CMS

—▲ Pythia 8.308 default

CMS_2021_I1920187

Ratio to CMS

multiplicity