

Z+Jet

Figure 1 consists of two panels. The top panel shows the ratio of the multiplicity distribution to the CMS data, with the y-axis labeled 'Ratio to CMS' ranging from 0.5 to 2.5. The bottom panel shows the multiplicity distribution, with the y-axis labeled 'multiplicity' ranging from 0 to 10000. The x-axis for both panels is 'multiplicity' ranging from 0 to 100. The top panel compares three theoretical models: Herwig 7.2.1 default (green dashed line with squares), Pythia 8.170 default (blue solid line with triangles), and Sherpa 2.2.9 default (red dotted line with diamonds). The bottom panel shows the CMS data (black solid line with squares) and the theoretical predictions (green dashed line with squares, blue solid line with triangles, and red dotted line with diamonds). The CMS data is a histogram with green and yellow bars. The theoretical predictions are lines with markers. The top panel is labeled 'Ratio to CMS' and the bottom panel is labeled 'multiplicity'.