

Jets

Figure 1: Multiplicity distribution of CMS data and Pythia 8.183 default simulation. The top panel shows the distribution of multiplicity (λ_0^0) for CMS (black squares) and Pythia 8.183 default (blue triangles). The bottom panel shows the ratio of the Pythia 8.183 default distribution to the CMS distribution, with a green shaded region indicating the ratio is greater than 1 and a yellow shaded region indicating it is less than 1. The x-axis for both panels is multiplicity, ranging from 0 to 150. The y-axis for the top panel is $1/N \cdot dN/dp_T$, ranging from 0 to 100. The y-axis for the bottom panel is the ratio to CMS, ranging from 0.5 to 2.0. The top panel is titled 'Multiplicity λ_0^0 (CMS jet substructure)' and the bottom panel is titled 'Ratio to CMS'.

mcplots.cern.ch [arXiv:1306.3436] Rivet 3.1.10, 400k events

A vertical number line with tick marks at 0, 1, and 2.

multiplicity