

Jets

The figure displays the multiplicity distribution of CMS data and the Pythia 8.176 default simulation. The top panel shows the distribution of multiplicity (0 to 150) with CMS data as black squares and Pythia 8.176 default as a blue line with triangles. The bottom panel shows the ratio of the Pythia 8.176 default distribution to the CMS data, with a green shaded region indicating the ratio and a yellow shaded region indicating the uncertainty. The ratio is mostly around 1.0, with a slight dip at low multiplicities and a peak at high multiplicities.

Multiplicity	CMS Data (dN/dp _T)	Pythia 8.176 default (dN/dp _T)	Ratio to CMS
0	~1	~1	~1.0
5	~1	~18	~0.6
10	~1	~48	~0.8
15	~1	~64	~1.0
20	~1	~61	~1.0
30	~1	~46	~1.0
50	~1	~15	~1.0
75	~1	~1	~1.0
100	~1	~1	~1.0
125	~1	~1	~1.0
150	~1	~1	~1.0

mcplots.cern.ch [arXiv:1306.3436]

multiplicity