

Jets

Figure 1 displays the LHA $\lambda^1_{0.5}$ (CMS jet substructure) results. The top panel shows the normalized differential event rate, $\frac{1}{N} \frac{dN}{d \ln \lambda}$, versus LHA. The bottom panel shows the ratio of the models to the CMS data, with a yellow band representing the uncertainty.

The top panel compares the CMS data (black squares) with the Pythia 6.425 default (orange dashed line with squares) and Pythia 6.425 pro-q20 (green dotted line with stars) models. The bottom panel shows the ratio of the models to the CMS data, with a yellow band representing the uncertainty.

The x-axis for both panels is LHA, ranging from 0 to 1. The y-axis for the top panel is $\frac{1}{N} \frac{dN}{d \ln \lambda}$, ranging from 0 to 1000. The y-axis for the bottom panel is the ratio to CMS, ranging from 0.5 to 2.0.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 400k$ events

CMS_2021_I1920187