

Jets

Figure 1 displays the LHA $\lambda^1_{0.5}$ (CMS jet substructure) distribution. The top panel shows the distribution of $\lambda^1_{0.5}$ for CMS data (black squares) and two Pythia models (orange dashed line with squares and blue solid line with triangles). The x-axis is LHA (0 to 1) and the y-axis is $1/N \cdot dN/dp_T \cdot d\ln \lambda$ (0 to 1000). The bottom panel shows the ratio of the Pythia models to the CMS data, with a horizontal line at 1.0. The histogram is colored yellow and green, with a horizontal line at 1.0.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 400\text{k}$ events

CMS_2021_I1920187

Ratio to CMS

LHA