

Jets

Figure 1 displays the LHA $\lambda_{0.5}^1$ (CMS jet substructure) distribution. The top panel shows the distribution of $\lambda_{0.5}^1$ for CMS data (black squares) and five Pythia 6.428 models (391, 393, 394, 395) using different λ parameters. The x-axis represents LHA (0 to 1) and the y-axis represents $1/dN/dp_T/d\lambda$ (0 to 500). The bottom panel shows the ratio of the Pythia models to the CMS data, with the x-axis representing LHA (0 to 1) and the y-axis representing the ratio (0.5 to 2). The histogram is colored green for ratios between 0.5 and 1.5, and yellow for ratios outside this range. A horizontal line is drawn at a ratio of 1.0.

Rivet 3.1.10, $\geq 1.7\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

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1

0.

LHA