

Z+Jet

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 (346, 347, 348, 349, 370) using different λ parameters. The x-axis is LHA (0 to 1) and the y-axis is $1/N \frac{dN}{d\ln \lambda_{0.5}^1}$ (0 to 1000). The bottom panel shows the ratio of the Pythia models to the CMS data, with a horizontal line at 1.0 and shaded regions indicating the ratio range. The x-axis is LHA (0 to 1) and the y-axis is Ratio to CMS (0.5 to 2.0).

Rivet 3.1.10, $\geq 2.6\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

LHA