

Z+Jet

Rivet 3.1.10, $\geq 2.7\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

CMS_2021_11920187

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 6.428 models (red triangles for 370 and orange squares for default). The x-axis is LHA (0 to 1) and the y-axis is $1/N \cdot dN/d\ln(\lambda)$ (0 to 1000). The bottom panel shows the ratio of the Pythia models to the CMS data, with a green band indicating the ratio range and a yellow band indicating the uncertainty. The x-axis is LHA (0 to 1) and the y-axis is Ratio to CMS (0.5 to 2).