

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 three Monte Carlo models: Herwig 7.2.1 softTune (teal downward triangles), Pythia 6.428 370 (red upward triangles), and Pythia 8.308 default (blue upward triangles). The x-axis is LHA (0 to 1) and the y-axis is $1/N \frac{dN}{d\ln LHA}$ (0 to 1000). The bottom panel shows the ratio of the Monte Carlo models to the CMS data, with a green band for the ratio and yellow bands for the uncertainty. The x-axis is LHA (0 to 1) and the y-axis is Ratio to CMS (0.5 to 2).

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Ratio to CMS

LHA