

Z+Jet

The figure displays the groomed LHA distribution and its ratio to CMS data. The top panel shows the distribution of groomed LHA values, with the x-axis labeled 'groomed LHA' ranging from 0 to 1. The y-axis is labeled '1/dN/dln $\lambda_{0.5}^1$ (CMS jet substructure)' and ranges from 0 to 1000. The data series include CMS (black squares), Herwig 7.2.1 default (green dashed line with open squares), and Pythia 8.308 default (blue solid line with solid triangles). The bottom panel shows the 'Ratio to CMS' for the same three models, with the y-axis ranging from 0.5 to 2.0. A horizontal line at 1.0 indicates the ratio of 1. The plot is labeled 'CMS_2021_I1920187' and 'mcplots.cern.ch [arXiv:1306.3436]'.

CMS_2021_I1920187

Rivet 3.1.10, $\geq 2.8\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

groomed LHA