

Jets

The figure consists of two panels sharing a common x-axis labeled "groomed LHA" ranging from 0 to 1.

Top Panel: The y-axis is labeled $\frac{1}{N} \frac{dN}{d\lambda} \frac{1}{\lambda}$ and ranges from 0 to 1000. The plot shows the distribution of groomed LHA values. The CMS data is represented by black squares. The Pythia 6.428 models are represented by different line styles and markers: Pythia 6.428 345 (dashed red line with open circles), Pythia 6.428 370 (solid red line with open triangles), Pythia 6.428 ambt1 (solid orange line with open triangles), and Pythia 6.428 z2 (solid green line with solid circles). The distributions for the Pythia models are generally higher than the CMS data, especially at lower groomed LHA values.

Bottom Panel: The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2. The plot shows the ratio of the Pythia models to the CMS data. The ratio is generally close to 1, with a green shaded band indicating the ratio range. The ratio is slightly higher for the Pythia 6.428 345 model at lower groomed LHA values.

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

mcplots.cern.ch [arXiv:1306.3436]

2

1

0

groomed LHA