

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 $\frac{1}{N} \frac{dN}{d\lambda}$ and ranges from 0 to 1000. The plot shows the distribution of groomed LHA values. The legend indicates:

- CMS: Black squares
- Pythia 8.308 default: Blue solid line with upward triangles
- Pythia 8.308 default-CD: Red dashed line with upward triangles
- Pythia 8.308 default-DL: Magenta dashed line with upward triangles
- Pythia 8.308 default-MBR: Purple dotted line with upward triangles

 The distributions show a peak around $\lambda \approx 0.15$ and then decay. The CMS data points are shown as black squares at the bottom of the plot, near zero.

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 8.308 models to the CMS data. A green band indicates the ratio range, which is mostly between 0.8 and 1.2. A horizontal line is drawn at a ratio of 1.0. The text "CMS_2021_11920187" is visible in the plot area.

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

mcplots.cern.ch [arXiv:1306.3436]

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