

Jets

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

Top Panel: The y-axis is labeled $\frac{dN}{d\ln(\lambda_2^1)}$ and ranges from 0 to 1000. It shows the groomed thrust distribution. The legend indicates three data series:

- CMS:** Black squares with error bars.
- Herwig 7.2.1 default:** Green dashed line with open squares.
- Pythia 8.308 default:** Blue solid line with triangles.

 The distribution peaks at low groomed thrust values (around 0.05) and decreases as groomed thrust increases. A grey text label "CMS_2021_I1920187" is present in the plot area.

Bottom Panel: The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2.0. It shows the ratio of the model distributions to the CMS data. A green band represents the ratio, and yellow bars represent the uncertainty. The ratio is generally close to 1.0, indicating a good fit to the CMS data.

Rivet 3.1.10, $\geq 2.2\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

10

groomed thrust