

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 10,000. The plot shows the distribution of groomed thrust. The legend includes:

- CMS (black squares)
- Pythia 8.308 default (blue triangles)
- Pythia 8.308 tune-1 (yellow inverted triangles)
- Pythia 8.308 tune-2c (orange circles)
- Pythia 8.308 tune-2m (orange open circles)

 The CMS data points are clustered at low groomed thrust values (below 0.2). The Pythia models show a much broader distribution, peaking around 0.05 and then decaying. A grey text label "CMS_2021_I1920187" is present in the lower right of the top panel.

Bottom Panel: The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2.0. This panel shows the ratio of the Monte Carlo models to the CMS data. A solid green line is at a ratio of 1.0. A yellow shaded band represents the uncertainty or spread of the ratios, which is wider at low groomed thrust and narrows as groomed thrust increases.

mcplots.cern.ch [arXiv:1306.3436]

0.5