

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 $\frac{1}{\lambda_2^1} \frac{dN}{d\ln \lambda_2^1}$ and ranges from 1000 to 10000. The plot shows the groomed thrust distribution for CMS data (black squares) and five Pythia 6.428 models: Pythia 6.428 370 (red triangles), Pythia 6.428 391 (purple squares), Pythia 6.428 default (orange squares), and Pythia 6.428 pro-q2o (green stars). The CMS data shows a sharp peak at low groomed thrust, while the Pythia models show a broader distribution. A watermark "CMS_2021_I1920187" is visible in the top panel.

Bottom Panel: The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2.0. The plot shows the ratio of the Pythia models to the CMS data. The ratio is mostly between 0.8 and 1.2, with a green shaded band indicating the ratio range and a yellow shaded band indicating the uncertainty. A horizontal line is drawn at a ratio of 1.0.

CMS_2021_I1920187

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 2.7\text{M}$ events