

Jets

The figure displays two panels related to groomed thrust distributions.

Top Panel: Shows the distribution of groomed thrust (λ_{2^1}) from CMS jet substructure. The x-axis is labeled "groomed thrust" and ranges from 0 to 1. The y-axis is labeled "dN/dln λ_{2^1} " and ranges from 0 to 1000. Data points are shown for CMS (black squares) and several Pythia 6.428 models: 359 (cyan dashed line with squares), 370 (red solid line with triangles), a (green solid line with upward triangles), dw (green dashed line with downward triangles), p0 (grey solid line with circles), and pro-q2o (green dotted line with stars). A grey label "CMS_2021_I1920187" is present near the bottom right of the top panel.

Bottom Panel: Shows the ratio of the distributions to the CMS data. The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2. The x-axis is the same as the top panel. The ratio is represented by a yellow shaded band around a central green line, which is mostly flat at 1.0.

CMS_2021_I1920187

Rivet 3.1.10, $\geq 2.1\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

groomed thrust