

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 $\frac{1}{\#} \frac{dN}{d\lambda} \frac{d\lambda}{dp_T}$ and ranges from 10^{-2} to 10^3 on a logarithmic scale. The plot shows the groomed thrust distribution for dijet events in the central region ($120 < p_T^{\text{dijet}} < 150$ GeV) at $\sqrt{s} = 13$ TeV. Data points from CMS are shown as black squares with error bars. Several Pythia 6.428 models are compared: Pythia 6.428 370 (red line with open triangles), Pythia 6.428 379 (green dashed line with asterisks), Pythia 6.428 ambt1 (orange line with open triangles), and Pythia 6.428 z2 (brown line with solid circles). 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 on a logarithmic scale. This panel shows the ratio of the groomed thrust distribution for each Pythia model to the CMS data. The ratios are plotted with error bars. Shaded horizontal bands in yellow and green indicate the uncertainty bands for the ratios.

(CMS_2021_I1920187)

mcplots.cern.ch [arXiv:2401.10621]

2

0.5

groomed thrust