

Z+Jet

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

Top Panel: The y-axis is labeled $\frac{dN}{d\ln(\text{thrust})}$. It shows the thrust distribution for CMS data (black squares) and three Pythia 6.428 models: Pythia 6.428 370 (red triangles), Pythia 6.428 378 (blue stars), and Pythia 6.428 379 (green stars). The distribution is highly peaked at low thrust values, with a sharp drop-off around $\text{thrust} \approx 0.1$. The CMS data points are shown as black squares, and the model predictions are shown as lines with markers. A legend in the top left corner identifies the data series. The text 'Thrust λ_2^1 (CMS jet substructure)' is centered at the top. The text 'CMS_2021_I1920187' is visible in the lower right of the top panel.

Bottom Panel: The y-axis is labeled 'Ratio to CMS'. It shows the ratio of the Pythia 6.428 models to the CMS data. The ratio is plotted as a horizontal line at 1.0, with shaded regions indicating the ratio range. The shaded regions are colored yellow and green, representing different models or uncertainty bands. The ratio is generally close to 1.0, indicating good agreement between the models and the CMS data.

mcplots.cern.ch [arXiv:1306.3436]

0.

thrust