

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 the differential event rate $\frac{1}{\#} \frac{dN}{d\lambda} \frac{d\lambda}{dp_T}$ on a logarithmic scale from 10^{-2} to 10^3 . The plot shows data from CMS (black squares) and several Pythia 6.428 and 8.186 models. The models include:

- Pythia 6.428 345 (red dashed line with open circles)
- Pythia 6.428 346 (yellow dotted line with open squares)
- Pythia 6.428 370 (red solid line with open triangles)
- Pythia 6.428 default (orange dash-dotted line with open squares)
- Pythia 8.186 default (blue solid line with filled triangles)

 The data points have error bars. A grey text label "(CMS_2021_I1920187)" is present in the lower right of the top panel.

Bottom Panel: The y-axis is the "Ratio to CMS" on a linear scale from 0.5 to 2.0. It shows the ratio of the model predictions to the CMS data. The same color scheme and markers as the top panel are used. A horizontal green band is centered at a ratio of 1.0, and a wider yellow band is also visible. The ratios generally fluctuate around 1.0, with some models showing a slight decrease at higher groomed thrust values.

(CMS_2021_I1920187)

mcplots.cern.ch [arXiv:1306.3436]

0.5