

The figure consists of two panels. The top panel shows the groomed thrust distribution $\frac{1}{N} \frac{dN}{d\lambda} \frac{dp_T}{d\lambda}$ on a logarithmic scale (from 10^{-2} to 10^3) versus groomed thrust (from 0 to 1). The bottom panel shows the ratio of the distribution to the CMS data on a linear scale (from 0.5 to 2) versus groomed thrust (from 0 to 1). Both panels include data points and theoretical predictions for CMS and several Pythia models.

Top Panel: Groomed Thrust Distribution

Y-axis: $\frac{1}{N} \frac{dN}{d\lambda} \frac{dp_T}{d\lambda}$ (log scale, 10^{-2} to 10^3)

X-axis: groomed thrust (0 to 1)

Legend:

- CMS
- Pythia 6.428 345
- Pythia 6.428 346
- △ Pythia 6.428 370
- Pythia 6.428 default
- ▲ Pythia 8.244 default

Bottom Panel: Ratio to CMS

Y-axis: Ratio to CMS (0.5 to 2)

X-axis: groomed thrust (0 to 1)

Legend:

- Pythia 6.428 345
- Pythia 6.428 346
- △ Pythia 6.428 370
- Pythia 6.428 default
- ▲ Pythia 8.244 default

Shaded regions in the bottom panel indicate the ratio ranges for different models: yellow (Pythia 6.428 345), green (Pythia 6.428 346), blue (Pythia 6.428 370), orange (Pythia 6.428 default), and purple (Pythia 8.244 default).

(CMS_2021_I1920187)

mcplots.cern.ch [arXiv:1306.3436]

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