

Jets

The figure displays the groomed thrust distribution and its ratio to CMS data. The top panel shows the differential event count $\frac{dN}{d\ln \lambda_2^1}$ versus groomed thrust. The bottom panel shows the ratio of the models to the CMS data, with a green band representing the ratio and yellow bars representing the uncertainty.

Top Panel: Groomed thrust λ_2^1 (CMS jet substructure)

- Y-axis:** $\frac{dN}{d\ln \lambda_2^1}$ (log scale, ranging from 1000 to 10000)
- X-axis:** groomed thrust (linear scale, ranging from 0 to 1)
- Legend:**
 - CMS
 - ▲ Pythia 8.308 default
 - ▲ Pythia 8.308 default-noCR

Bottom Panel: Ratio to CMS

- Y-axis:** Ratio to CMS (linear scale, ranging from 0.5 to 2)
- X-axis:** groomed thrust (linear scale, ranging from 0 to 1)
- Legend:**
 - Ratio to CMS (green band)
 - Uncertainty (yellow bars)

The figure is sourced from [arXiv:2106.13063](https://arxiv.org/abs/2106.13063) and is associated with the CMS experiment.

■ CMS

▲ Pythia 8.308 default

Pythia 8.308 default-noCR

CMS 2021 I1920187

Rivet 3.1.10, $\geq 2.2\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

groomed thrust