

Jets

The figure displays two panels comparing CMS data with Pythia 6.428 models for groomed thrust.

Top Panel: Shows the differential event rate $\frac{dN}{d\ln \lambda_2^1}$ versus groomed thrust. The y-axis is logarithmic, ranging from 1000 to 10000. The x-axis is groomed thrust, ranging from 0 to 1.0. The legend includes:

- CMS (Black squares)
- Pythia 6.428 355 (Orange stars)
- Pythia 6.428 356 (Green squares)
- Pythia 6.428 370 (Red triangles)
- Pythia 6.428 379 (Green stars)
- Pythia 6.428 ambt1 (Orange triangles)
- Pythia 6.428 z2 (Green circles)

The top panel is labeled "Groomed thrust λ_2^1 (CMS jet substructure)".

Bottom Panel: Shows the Ratio to CMS versus groomed thrust. The y-axis is linear, ranging from 0.5 to 2.0. The x-axis is groomed thrust, ranging from 0 to 1.0. The ratio is represented by a green shaded band, indicating the uncertainty of the models relative to the CMS data. The bottom panel is labeled "Ratio to CMS".

Rivet 3.1.10, $\geq 2.5\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

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