

Jets

The figure displays two panels related to the distribution of Thrust λ_2^1 (CMS jet substructure).

Top Panel: Shows the distribution $dN/d\ln\lambda_2^1$ versus $\ln\lambda_2^1$. The x-axis ranges from approximately -1.0 to 0.0, and the y-axis ranges from 0 to 8000. Data points are shown for CMS (black squares), Pythia 6.428 370 (red triangles), Pythia 6.428 391 (grey squares), Pythia 6.428 default (orange squares), and Pythia 8.183 default (blue triangles). A vertical dashed line is present at $\ln\lambda_2^1 \approx -0.5$.

Bottom Panel: Shows the Ratio to CMS versus $\ln\lambda_2^1$. The x-axis is the same as the top panel, and the y-axis ranges from 0.5 to 2.0. A horizontal green band indicates the ratio range, centered around 1.0.

Legend:

- CMS (Black square)
- Pythia 6.428 370 (Red triangle)
- Pythia 6.428 391 (Grey square)
- Pythia 6.428 default (Orange square)
- Pythia 8.183 default (Blue triangle)

Text Labels:

- Thrust λ_2^1 (CMS jet substructure)
- CMS_2021_I1920187
- Rivet 3.1.10, ≥ 400k events
- mcplots.cern.ch [arXiv:1306.3436]

CMS_2021_I1920187

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 400\text{k}$ events

2

1

0.5

thrust