

Jets

Rivet 3.1.10, 2.6M events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

thrust

The figure displays the distribution of Thrust λ_2^1 (CMS jet substructure) for CMS data and Pythia 8.308 default simulation. The top panel shows the distribution $\frac{dN}{d\ln \lambda_2^1}$ versus λ_2^1 on a logarithmic scale. The bottom panel shows the ratio of the simulation to the CMS data, which is close to 1.0.

Top Panel: Distribution of Thrust λ_2^1

- Y-axis:** $\frac{dN}{d\ln \lambda_2^1}$ (log scale, ranging from 1000 to 10000).
- X-axis:** λ_2^1 (log scale, ranging from 0.05 to 1.0).
- Legend:**
 - $\blacksquare$ CMS
 - $\blacktriangle$ Pythia 8.308 default
- Text:** Thrust λ_2^1 (CMS jet substructure)

Bottom Panel: Ratio to CMS

- Y-axis:** Ratio to CMS (linear scale, ranging from 0.5 to 2.0).
- X-axis:** λ_2^1 (log scale, ranging from 0.05 to 1.0).
- Text:** Ratio to CMS

Source: CMS_2021_I1920187