

Jets

Rivet 3.1.10, $\geq 300k$ events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

thrust

The figure displays the thrust distribution and its ratio to CMS data. The top panel shows the differential event rate $\frac{dN}{d\ln \lambda_2^1}$ versus thrust λ_2^1 (CMS jet substructure). The bottom panel shows the ratio of the model distributions to the CMS data, Ratio to CMS .

Top Panel: Thrust λ_2^1 (CMS jet substructure)

- Y-axis:** $\frac{dN}{d\ln \lambda_2^1}$ (log scale, ranging from 1000 to 100000).
- X-axis:** λ_2^1 (log scale, ranging from 0.05 to 1.0).
- Legend:**
 - CMS
 - - ■ - - Pythia 6.425 default
 - - ▲ - - Pythia 8.308 default
- Annotations:**
 - 13 TeV pp** (top left)
 - 300k events** (top right)
 - CMS_2021_I1920187** (center)
 - mcplots.cern.ch [arXiv:1306.3436]** (right side)
 - Rivet 3.1.10, $\geq 300k$ events** (right side)

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).
- Legend:**
 - + Pythia 8.308 default