

Z+Jet

The figure displays the thrust distribution and its ratio to CMS data. The top panel shows the differential event rate $\frac{dN}{d\ln(\text{thrust})}$ versus thrust on a log-linear scale. The bottom panel shows the ratio of the model distributions to the CMS data, Ratio to CMS , versus thrust on a linear scale.

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

Y-axis: $\frac{dN}{d\ln(\text{thrust})}$ (log scale, ranging from 1000 to 1000000).
X-axis: thrust (log scale, ranging from 0.05 to 1.0).

Legend:

- CMS (Black squares)
- Pythia 6.428 370 (Red triangles)
- Pythia 6.428 391 (Grey squares)
- Pythia 6.428 default (Orange squares)
- Pythia 6.428 pro-q2o (Green stars)

Bottom Panel: Ratio to CMS

Y-axis: Ratio to CMS (linear scale, ranging from 0.5 to 2.0).
X-axis: thrust (linear scale, ranging from 0 to 1).

The bottom panel shows the ratio of the model distributions to the CMS data. A horizontal line at 1.0 indicates the ratio of the model to the CMS data. The shaded regions represent the spread of the models.

Source: CMS_2021_I1920187

Rivet 3.1.10, $\geq 1.7\text{M}$ events

CMS_2021_I1920187

Ratio to CMS

thrust