

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-log scale. The bottom panel shows the ratio of the models to the CMS data 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 0.01 to 1.0)

Legend:

- CMS (Black squares)
- Pythia 8.183 default (Blue line with triangles)
- Pythia 8.183 default-CD (Red dashed line with triangles)
- Pythia 8.183 default-MBR (Blue dotted line with triangles)

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)

Horizontal line: 1.0 (Ratio to CMS)

Shaded regions: Yellow (Ratio to CMS between 0.5 and 1.0), Green (Ratio to CMS between 1.0 and 2.0)

Text in plot: CMS_2021_I1920187

Rivet 3.1.10, $\geq 200\text{k}$ events

CMS_2021_I1920187

Ratio to CMS

thrust