

Jets

The figure consists of two panels. The top panel shows the differential decay rate $\frac{dN}{d \ln(\text{thrust})}$ as a function of thrust. The x-axis is logarithmic, ranging from 0.05 to 1.0. The y-axis is linear, ranging from 0 to 8000. Data points from CMS are shown as black squares. Three Monte Carlo models are plotted: Pythia 6.428 370 (red line with open triangles), Pythia 6.428 default (orange line with open squares), and Pythia 8.170 default (blue line with solid triangles). The bottom panel shows the ratio of the Monte Carlo models to the CMS data, Ratio to CMS , on a linear scale from 0.5 to 2.0. A green band indicates the ratio is within 10% of the data, and a yellow band indicates it is within 20%. The ratio is mostly within the 10% band, except for a small region at low thrust where it is slightly above 1.0.

CMS_2021_I1920187

Rivet 3.1.10, $\geq 400k$ events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

thrust