

Jets

The figure consists of two panels sharing a common x-axis labeled "groomed pTD2" ranging from 0 to 1.

Top Panel: The y-axis is labeled $\frac{1}{N} \frac{dN}{d \ln(p_T^D)^2 \lambda_0^2}$ and ranges from 0 to 1000. It shows the distribution of groomed pTD2. The legend indicates three data series: CMS (black squares), Pythia 6.428 370 (red line with open triangles), and Pythia 6.428 default (orange dashed line with open squares). The CMS data shows a sharp peak around 0.15. The Pythia models show a broader peak around 0.15. A watermark "CMS_2021_11920187" is visible.

Bottom Panel: The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2. It shows the ratio of the Pythia models to the CMS data. The ratio is mostly around 1.0, with a slight dip around 0.15. The ratio is shown as a green line with a yellow shaded uncertainty band.

Rivet 3.1.10, $\geq 2.7\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.

groomed pTD2