

Z+Jet

The figure displays two panels related to the groomed pTD2 distribution.

Top Panel: Shows the distribution of groomed pTD2 for CMS data (black squares) and three Pythia models (red triangles, orange squares, blue triangles). The x-axis is labeled "groomed pTD2" and ranges from 0 to 1. 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. The legend indicates: CMS (black squares), Pythia 6.428 370 (red triangles), Pythia 6.428 default (orange squares), and Pythia 8.308 default (blue triangles). The CMS data shows a sharp peak around 0.15, while the Pythia models show a broader peak around 0.2. A watermark "CMS_2021_11920187" is visible.

Bottom Panel: Shows the ratio of the Pythia models to the CMS data. The x-axis is labeled "groomed pTD2" and ranges from 0 to 1. The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2. The ratio is shown as a green band, indicating the ratio is within 10% of 1.0. A horizontal line at 1.0 is also shown.

Rivet 3.1.10, $\geq 2.6\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

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0.

groomed pTD2