

Top Panel: Differential event rate $\frac{1}{N} \frac{dN}{d\lambda dp_T}$ versus groomed p_{TD2} . The y-axis is logarithmic, ranging from 10^{-1} to 10^3 . The x-axis is linear, ranging from 0 to 1. The plot shows CMS data (black squares) and three Pythia 6.428 models (370, 378, 379) represented by different colored lines and markers. The distribution peaks at $p_{TD2} \approx 0.1$ and then decreases. A label $(CMS_2021_I1920187)$ is present in the top panel.

Bottom Panel: Ratio of the distribution to the CMS data versus groomed p_{TD2} . The y-axis is linear, ranging from 0.5 to 2. The x-axis is linear, ranging from 0 to 1. The plot shows the ratio of the three Pythia models to the CMS data. The ratio is generally close to 1, with some fluctuations at low p_{TD2} . A horizontal line at 1.0 indicates the ratio of 1.0.

Legend:

- CMS
- △— Pythia 6.428 370
- - * - - Pythia 6.428 378
- - * - - Pythia 6.428 379

Text in the top panel: CMS, 13 TeV, AK4 jets, central dijet region, $1000 < p_{jet} < 4000$ GeV

Text in the bottom panel: Ratio to CMS

Text in the top right corner: mcplots.cern.ch [arXiv:2401.10621]

Text in the bottom right corner: Rivet 4.1.0, $\geq 100k$ events