

Jets

The plot displays the ratio of groomed pTD2 distributions for four different Pythia models compared to the CMS distribution. The x-axis represents 'groomed pTD2' from 0 to 1, and the y-axis represents the 'Ratio to CMS' from 0.5 to 2. The legend indicates the following models:

- Pythia 6.428 370 (Red line with open triangles)
- Pythia 6.428 391 (Black dashed line with open squares)
- Pythia 6.428 default (Orange dash-dotted line with open squares)
- Pythia 8.170 default (Blue solid line with filled triangles)

The plot shows a peak at low pTD2 values (around 0.1) for all models, with the Pythia 8.170 default model showing the highest peak. The ratio is mostly between 0.8 and 1.2, indicating good agreement with CMS data. The CMS data is represented by black squares at the bottom of the plot.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 300\text{k}$ events