

Jets

The figure displays the distribution of groomed p_{TD2} for CMS data and four Pythia 6.428 models. The top panel shows the distribution of groomed p_{TD2} for CMS (black squares) and four Pythia models (red triangles, green triangles, blue triangles, and cyan circles). The bottom panel shows the ratio of the Pythia models to the CMS data, with a yellow band indicating the ratio range and a green band indicating the ratio uncertainty.

Top Panel: Groomed p_{TD2} Distribution

The x-axis is labeled "groomed p_{TD2} " and ranges from 0 to 1. The y-axis is labeled "1/N dN/dln(p_{TD2})" and ranges from 0 to 1000. The legend indicates the following models:

- CMS (Black squares)
- Pythia 6.428 370 (Red triangles)
- Pythia 6.428 371 (Green triangles)
- Pythia 6.428 372 (Blue triangles)
- Pythia 6.428 376 (Cyan circles)

Bottom Panel: Ratio to CMS

The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2. The x-axis is labeled "groomed p_{TD2} " and ranges from 0 to 1. The plot shows the ratio of the Pythia models to the CMS data, with a yellow band indicating the ratio range and a green band indicating the ratio uncertainty.

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

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

groomed pTD2