

Jets

The figure displays the groomed p_{TD2} distribution for CMS data and several Pythia 6.428 models. The top panel shows the distribution $\frac{dN}{d\ln(p_{TD2})}$ versus groomed p_{TD2} on a log-linear scale. The bottom panel shows the ratio of the models to the CMS data, Ratio to CMS , on a linear scale.

Legend:

- CMS
- Pythia 6.428 345
- △ Pythia 6.428 370
- △ Pythia 6.428 ambt1
- Pythia 6.428 z2

Top Panel: The y-axis is $\frac{dN}{d\ln(p_{TD2})}$ (log scale, 1000 to 10000) and the x-axis is groomed p_{TD2} (log scale, 0.05 to 1.0). The distribution shows a peak around 0.1. The Pythia models generally follow the CMS data, with some variations in the peak height and width.

Bottom Panel: The y-axis is the Ratio to CMS (linear scale, 0.5 to 2.0) and the x-axis is groomed p_{TD2} (log scale, 0.05 to 1.0). The histogram shows the ratio of the models to the CMS data, with a central value around 1.0 and a spread between 0.8 and 1.2.

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

mcplots.cern.ch [arXiv:1306.3436]

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