

Jets

The figure displays the groomed p_{TD2} distribution for CMS data and two Pythia 6.425 models. The top panel shows the differential event rate $\frac{dN}{d\ln(p_{TD2})}$ on a logarithmic scale versus p_{TD2} on a linear scale. The bottom panel shows the ratio of the models to the CMS data, with a green cross indicating the central value and yellow bars showing the uncertainty.

Top Panel: Groomed p_{TD2} Distribution

Y-axis: $\frac{dN}{d\ln(p_{TD2})}$ (log scale, ranging from 1000 to 100000)

X-axis: groomed p_{TD2} (ranging from 0 to 1)

Legend:

- CMS
- Pythia 6.425 350
- Pythia 6.425 p0

Bottom Panel: Ratio to CMS

Y-axis: Ratio to CMS (ranging from 0.5 to 2.0)

X-axis: groomed p_{TD2} (ranging from 0 to 1)

The ratio is generally close to 1.0, indicating good agreement between the models and the CMS data. The uncertainty is shown by the yellow bars, and the central value is indicated by the green cross.

Rivet 3.1.10, $\geq 400k$ events

mcplots.cern.ch [arXiv:1306.3436]

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10

groomed pTD2