

Jets

Rivet 3.1.10, $\geq 2.6\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

pTD2

 $\mathbf{d}^N$

→

Ratio to CMS

The figure displays the distribution of p_{TD2} for CMS data and various Pythia models. The top panel shows the event count N on a logarithmic scale (from 1000 to 100,000) against p_{TD2} on a linear scale (from 0 to 1). The CMS data is represented by black squares, while the Pythia models are shown as dashed lines with markers: Pythia 6.428 345 (red circles), Pythia 6.428 346 (yellow squares), Pythia 6.428 370 (red triangles), Pythia 6.428 default (orange squares), and Pythia 8.308 default (blue triangles). The bottom panel shows the ratio of the models to the CMS data, with a green central band and yellow outer bands indicating uncertainty. The ratio is plotted on a linear scale from 0.5 to 2.0 against p_{TD2} on a linear scale from 0 to 1.