

Jets

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

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

pTD2

The figure displays two panels related to the variable p_{TD2} .

Top Panel: A histogram showing the distribution of p_{TD2} (x-axis, ranging from 0 to 1). The y-axis represents the number of events, with a scale from 0 to 10,000. The distribution is peaked around $p_{TD2} \approx 0.1$. Overlaid on the histogram are several curves representing different Pythia 6.428 models, as indicated by the legend:

- $\blacksquare$ CMS
- $\triangle$ Pythia 6.428 370
- $\square$ Pythia 6.428 391
- $\blacksquare$ Pythia 6.428 default
- $\star$ Pythia 6.428 pro-q2o

The text $(p_T^D)^2 \lambda_0^2$ (CMS jet substructure) is present in the top panel. The text CMS_2021_I1920187 is also visible.

Bottom Panel: A histogram showing the ratio of p_{TD2} to the CMS distribution (y-axis, ranging from 0.5 to 2.0). The x-axis is the same as the top panel. The distribution is centered around a ratio of 1.0. A green band indicates the ratio range, and a horizontal line is drawn at 1.0.