

Jets

- CMS
- Herwig 7.2.1 default

CMS_2021_I1920187

Rivet 3.1.10, 2.6M events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

The figure displays two panels related to the distribution of p_{TD2} (charged-only) for CMS data and Herwig 7.2.1 default simulation.

Top Panel: Shows the distribution of p_{TD2} (charged-only) for CMS data (black squares) and Herwig 7.2.1 default simulation (green dashed line with open squares). The x-axis is p_{TD2} (charged-only) ranging from 0 to 1. The y-axis is the number of events (N) ranging from 0 to 100,000. The distribution is labeled $(p_T^D)^2 \lambda_0^2$ (charged only) (CMS jet substructure).

Bottom Panel: Shows the ratio of the Herwig 7.2.1 default simulation to the CMS data. The x-axis is p_{TD2} (charged-only) ranging from 0 to 1. The y-axis is the ratio to CMS, ranging from 0.5 to 2.0. The ratio is shown as a green shaded band, and the uncertainty is shown as a yellow shaded band. A horizontal line at 1.0 indicates the ratio of 1.0.