

Z+Jet

The figure displays the groomed p_{TD2} distribution for CMS data and compares it with Herwig 7.2.1 default and Pythia 8.308 default models. The top panel shows the distribution $\frac{1}{N} \frac{dN}{d \ln(p_{TD2})}$ versus groomed p_{TD2} . The bottom panel shows the ratio of the model distributions to the CMS data, with a yellow band representing the ratio range and a green band representing the ratio uncertainty.

Legend:

- CMS
- Herwig 7.2.1 default
- ▲— Pythia 8.308 default

Top Panel Y-axis: $\frac{1}{N} \frac{dN}{d \ln(p_{TD2})}$

Bottom Panel Y-axis: Ratio to CMS

X-axis: groomed p_{TD2}

Text in plot: CMS_2021_11920187

Text in plot: mcplots.cern.ch [arXiv:1306.3436]

Text in plot: Rivet 3.1.10, ≥ 2.2 M events

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 2.2\text{M}$ events

CMS_2021_I1920187