

Jets

The figure displays the distribution of groomed p_{TD2} for CMS data and three Herwig models. The top panel shows the distribution $dN/d\ln(p_{TD2})$ versus groomed p_{TD2} . The CMS data (black squares) shows a sharp peak at low p_{TD2} . The Herwig++ 2.5.0 default (orange dashed line with circles) and Herwig 7.2.1 default (green dashed line with squares) models show a broader peak at low p_{TD2} . The Herwig 7.2.1 softTune (blue solid line with triangles) model shows a peak at low p_{TD2} that is closer to the CMS data. The bottom panel shows the ratio of the model distributions to the CMS data, with a yellow band indicating the ratio range and a green band indicating the ratio range for the softTune model. The x-axis is groomed p_{TD2} , ranging from 0 to 1. The y-axis for the top panel is $dN/d\ln(p_{TD2})$, ranging from 0 to 10000. The y-axis for the bottom panel is the ratio to CMS, ranging from 0.5 to 2.0.

Rivet 3.1.10, ≥ 500 k events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.

groomed pTD2