

Jets

Top Panel: Distribution of groomed p_{TD2} for CMS data (black squares) and Herwig++ 2.5.0 default (orange dashed line with circles) and Herwig 7.2.1 default (green dashed line with squares). The x-axis is groomed p_{TD2} from 0 to 1. The left y-axis is $\frac{1}{N} \frac{dN}{d \ln(p_{TD2})}$ from 0 to 10000. The right y-axis is the ratio to CMS from 0.5 to 2.0. A horizontal line at 1.0 indicates the ratio of 1. Text in the plot includes 'Groomed $(p_T^D)^2 \lambda_0^2$ (CMS jet substructure)', 'CMS_2021_11920187', 'mcplots.cern.ch [arXiv:1306.3436]', and 'Rivet 3.1.10, $\geq 400k$ events'.

Bottom Panel: Ratio of the model distributions to the CMS data. The x-axis is groomed p_{TD2} from 0 to 1. The y-axis is the ratio to CMS from 0.5 to 2.0. A green band represents the ratio for Herwig++ 2.5.0 default, and a yellow band represents the ratio for Herwig 7.2.1 default. A horizontal line at 1.0 indicates the ratio of 1.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 400\text{k}$ events