

Z+Jet

The figure displays the groomed p_{TD2} distribution for CMS data and various Pythia 8.308 tunes. The top panel shows the differential event count $\frac{dN}{d\ln(p_{TD2})}$ on the y-axis (ranging from 0 to 10,000) against $\ln(p_{TD2})$ on the x-axis (ranging from 0 to 1). The CMS data is represented by black squares, and the Pythia tunes are shown with different markers and line styles: default (blue triangles), tune-AU2 (red inverted triangles), tune-AU2lox (magenta diamonds), tune-AU2loxx (orange squares), and tune-AU2m (brown stars). The bottom panel shows the ratio of the simulation to the CMS data, with a green band representing the 1-sigma uncertainty and a yellow band representing the 2-sigma uncertainty. A horizontal line at 1.0 indicates the ratio of the simulation to the CMS data.

mcplots.cern.ch [arXiv:1306.3436]

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