

Z+Jet

The figure displays two panels related to the groomed p_{TD2} distribution.

Top Panel: Shows the distribution of groomed p_{TD2} (x-axis, ranging from 0 to 1) for CMS data (black squares) and four Pythia 8.308 models (blue, red, magenta, and purple lines with markers). The y-axis represents the distribution, with a scale from 0 to 1000. The Pythia models show a peak around $p_{TD2} \approx 0.15$, while the CMS data is relatively flat.

Bottom Panel: Shows the ratio of the Pythia models to the CMS distribution (y-axis, ranging from 0.5 to 2). The ratio is plotted for the same groomed p_{TD2} values. The ratio is generally close to 1, indicating a good fit, with a yellow shaded band representing the ratio range and a green shaded band representing the ratio range for the Pythia 8.308 default model.

A vertical axis with tick marks and labels 0., 1, and 2.