

Z+Jet

Figure 1 is a plot showing the ratio of groomed p_{TD2} distributions to the CMS distribution for two different models: Herwig++ 2.7.1 default (orange dashed line with circles) and Herwig 7.2.1 default (green dashed line with squares). The x-axis is labeled 'groomed p_{TD2} ' and ranges from 0 to 1. The y-axis is labeled 'Ratio to CMS' and ranges from 0.5 to 2. The plot shows a peak in the ratio around 0.15 for both models, with Herwig 7.2.1 showing a higher peak than Herwig++ 2.7.1. The ratio then decreases and levels off around 1.0 for higher p_{TD2} values.