

Jets

Rivet 3.1.10, $\geq 2.9\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

pTD2

 $\mathbf{d}^N$

↙

Ratio to CMS

Figure 1 consists of two panels. The top panel shows the distribution of the ratio of the number of jets to the number of particles in the final state, N/N_p , as a function of the transverse momentum of the leading jet, p_T^{D2} (GeV). The x-axis ranges from 0 to 1.0. The y-axis is labeled $1/N \frac{dN}{d\ln(p_T^{D2})}$ and ranges from 0 to 2000. The CMS data is shown as black squares, Herwig++ 2.7.1 default as an orange dashed line with circles, and Herwig 7.2.1 default as a green dashed line with squares. The bottom panel shows the ratio of the distribution to the CMS data, with a yellow shaded band representing the uncertainty of the CMS data. The x-axis is p_T^{D2} (GeV) from 0 to 1.0. The y-axis is labeled 'Ratio to CMS' and ranges from 0.5 to 2.0. The top panel is labeled $(p_T^{D2})^2 \lambda_0^2$ (CMS jet substructure) and the bottom panel is labeled 'Ratio to CMS'.