

Z+Jet

Rivet 3.1.10, $\geq 2.2\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

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 particles to the number of jets, N/N_{jet} , as a function of the transverse momentum of the leading jet, p_T^{D2} (GeV). The x-axis ranges from 0 to 1.0 GeV. The y-axis ranges from 0 to 8000. The data points are shown for CMS (black squares) and three Monte Carlo models: Herwig 7.2.1 softTune (teal triangles), Pythia 6.428 370 (red open triangles), and Pythia 8.308 default (blue solid triangles). The bottom panel shows the ratio of the Monte Carlo models to the CMS data, with a horizontal line at 1.0 and shaded regions indicating the ratio range. The y-axis for the bottom panel is the ratio to CMS, ranging from 0.5 to 2.0. The x-axis is p_T^{D2} (GeV) from 0 to 1.0.