

Z+Jet

Rivet 3.1.10, $\geq 400k$ events

mcplots.cern.ch [arXiv:1306.3436]

CMS_2021_I1920187

Figure 1 consists of two panels. The top panel is a line plot showing the ratio of the number of events in the signal region to the total number of events, N/N_T , as a function of width. The y-axis is labeled N/N_T and ranges from 0 to 1.0. The x-axis is labeled 'width' and ranges from 0 to 1.0. The plot includes data points for CMS (black squares) and four Pythia models: Pythia 6.428 370 (red triangles), Pythia 6.428 391 (purple squares), Pythia 6.428 default (orange squares), and Pythia 8.183 default (blue triangles). The bottom panel is a histogram showing the ratio of the width to the CMS width, $width_{CMS}$, as a function of width. The y-axis is labeled 'Ratio to CMS' and ranges from 0.5 to 2.0. The x-axis is labeled 'width' and ranges from 0 to 1.0. The histogram is filled with green and yellow colors, with a horizontal line at 1.0 indicating the ratio to CMS.