

Jets

Figure 1 consists of two panels. The top panel shows the ratio of the number of events to the number of events in the CMS dataset as a function of the width of the signal region. The x-axis is labeled 'width' and ranges from 0 to 1. The y-axis is labeled 'Ratio to CMS' and ranges from 0.5 to 2. The plot shows two data series: 'Herwig 7.2.1 default' (green dashed line with open squares) and 'Pythia 8.212 default' (blue solid line with filled triangles). Both series show a sharp peak at width 0.1, followed by a rapid decay towards 1. The bottom panel shows the ratio of the number of events to the number of events in the CMS dataset as a function of the width of the signal region. The x-axis is labeled 'width' 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 horizontal line at 1.0, with a shaded region indicating the uncertainty. The shaded region is yellow for width < 0.5 and green for width > 0.5.

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Rivet 3.1.10, $\geq 300\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

width