

Jets

Rivet 3.1.10, $\geq 2.5\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

width

 $\mathbf{d}^N$

↙

Ratio to CMS

Figure 1 consists of two panels. The top panel, titled "Width λ_1^1 (CMS jet substructure)", shows the distribution of the width of the first lambda baryon. The x-axis is labeled "width" and ranges from 0 to 1. The y-axis is labeled "dN/dln width" and ranges from 0 to 1000. The plot compares CMS data (black squares) with two Herwig models: Herwig++ 2.7.1 default (orange dashed line with open circles) and Herwig 7.2.1 default (green dashed line with open squares). The CMS data shows a sharp peak at width 0, while the Herwig models show a broader distribution. The bottom panel shows the ratio of the model widths to the CMS data, labeled "Ratio to CMS". The x-axis is the same as the top panel. The y-axis ranges from 0.5 to 2.0. A green band indicates the ratio range, which is centered around 1.0. The text "CMS_2021_I1920187" is visible in the top panel.