

Z+Jet

Figure 1 consists of two panels. The top panel is a plot of the distribution of the width of the first jet substructure, λ_1^1 , in units of CMS jet substructure. The x-axis is labeled 'width' and ranges from 0 to 1. The y-axis is labeled 'mathrm{d}N / mathrm{d} \lambda_1^1' and ranges from 0 to 1000. The plot shows three data series: CMS (black squares), Pythia 6.428 370 (red line with open triangles), and Pythia 6.428 default (orange dashed line with open squares). The Pythia 6.428 370 model shows a sharp peak at $\lambda_1^1 \approx 0.1$, while the CMS data and Pythia 6.428 default model show a much broader distribution. The bottom panel is a plot of the ratio of the width of the first jet substructure to the CMS width, $\lambda_1^1 / \lambda_1^1(CMS)$. 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 histogram of the ratio, with a horizontal line at 1.0. The ratio is mostly between 0.5 and 1.5, with a peak around 0.1.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 2.4\text{M}$ events

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