

Jets

Rivet 3.1.10, 300k events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

width

Figure 1 consists of two panels. The top panel is a plot of the width of the first jet substructure, λ_1^1 , in CMS jet substructure units. 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 10000. The plot shows two data series: CMS data (black squares) and Pythia 8.170 default (blue triangles). The Pythia 8.170 default data shows a sharp peak at low width, while the CMS data is more spread out. The bottom panel is a plot of the ratio of the width of the first jet substructure to the CMS data, labeled 'Ratio to 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 green shaded band representing the ratio range, which is centered around 1.0. The band is wider at higher width values.