

Jets

Figure 1 consists of two panels. The top panel is a plot of the distribution of groomed width, with the x-axis labeled 'groomed width' ranging from 0 to 1. The y-axis is labeled '1/N dN/dln(w)' and ranges from 0 to 1000. The plot shows four data series: CMS (black squares), Pythia 6.428 370 (red triangles), Pythia 6.428 391 (black squares), Pythia 6.428 default (orange squares), and Pythia 8.308 default (blue triangles). The CMS data shows a sharp peak at low groomed width, while the Pythia models show a broader distribution. The bottom panel is a plot of the ratio of the Pythia models to the CMS data, with the x-axis labeled 'groomed width' ranging from 0 to 1. The y-axis is labeled 'Ratio to CMS' and ranges from 0.5 to 2.0. The plot shows a green band around 1.0, indicating that the Pythia models are in good agreement with the CMS data.

CMS_2021_I1920187

Ratio to CMS

groomed width