

Jets

- CMS
- Herwig 7.2.1 default
- ▲ Pythia 8.308 default

Figure 1 consists of two panels. The top panel shows the distribution of groomed width for jets with $p_T \geq 200$ GeV. The x-axis is 'groomed width' ranging from 0 to 1. The y-axis is 'dN/dln(groomed width)' ranging from 0 to 10000. Two models are compared: Herwig 7.2.1 default (green dashed line with open squares) and Pythia 8.308 default (blue solid line with solid triangles). Both models show a sharp peak at low groomed width (around 0.05) and then decay. The Pythia model has a higher peak than the Herwig model. The bottom panel shows the ratio of the groomed width distribution to the CMS data. The x-axis is 'groomed width' ranging from 0 to 1. The y-axis is 'Ratio to CMS' ranging from 0.5 to 2.0. The ratio is plotted against groomed width, with a yellow shaded band indicating the uncertainty. The ratio is close to 1.0 across the entire range of groomed width.