

Jets

The figure consists of two panels sharing a common x-axis labeled "groomed width" ranging from 0 to 1.

Top Panel: Shows the groomed width distribution. The y-axis is labeled $\frac{1}{N} \frac{dN}{d\lambda_1}$ and ranges from 0 to 1000. The legend indicates two data series: CMS (black squares) and Pythia 8.170 default (blue triangles). The Pythia 8.170 default distribution is significantly higher than the CMS distribution at low groomed widths, peaking around 0.05. The CMS distribution is much flatter and lower, peaking around 0.1. A text label "CMS_2021_I1920187" is present in the top panel.

Bottom Panel: Shows the ratio of the Pythia 8.170 default groomed width to the CMS groomed width. The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 1.5. The ratio is consistently near 1.0, indicated by a green line and a yellow shaded band representing the uncertainty.

■ CMS

Pythia 8.170 default

CMS_2021_I1920187

Ratio to CMS

groomed width