

Z+Jet

The figure displays two panels related to the groomed width λ_1^1 (CMS jet substructure).

Top Panel: Shows the distribution of groomed width λ_1^1 (CMS jet substructure). The x-axis is labeled "groomed width" and ranges from 0 to 1. The y-axis is labeled $\frac{dN}{d \ln d p_T}$ and ranges from 0 to 10000. The plot compares CMS data (black squares) and Herwig 7.2.1 default simulation (green dashed line with open squares). The Herwig simulation shows a sharp peak at low groomed width, while the CMS data is relatively flat.

Bottom Panel: Shows the ratio of the Herwig 7.2.1 default simulation to the CMS data, labeled "Ratio to CMS". The x-axis is labeled "groomed width" and ranges from 0 to 1. The y-axis ranges from 0.5 to 2. The plot shows a yellow shaded band representing the ratio range and a green shaded band representing the ratio range. The ratio is generally higher than 1, indicating that the Herwig simulation overpredicts the groomed width distribution compared to the CMS data.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, 2.4M events