

Jets

Figure 1 consists of two panels. The top panel is a plot of the groomed width distribution λ_1^1 (CMS jet substructure) for 13 TeV pp collisions. The x-axis is groomed width, ranging from 0 to 1. The y-axis is $\frac{dN}{d\ln(\lambda_1^1) d\ln(\lambda_1^1)}$, ranging 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 7.2.1 default distribution shows a peak around groomed width 0.1, while the CMS data is relatively flat. The bottom panel shows the ratio of the Herwig 7.2.1 default distribution to the CMS distribution. The x-axis is groomed width, ranging from 0 to 1. The y-axis is Ratio to CMS, ranging from 0.5 to 2. The ratio is shown as a yellow shaded band around a green line representing the ratio. The ratio is generally around 1, indicating a good agreement between the simulation and data.

mcplots.cern.ch [arXiv:1306.3436] Rivet 3.1.10, 2.8M events

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