

Jets

Figure 1 consists of two panels. The top panel shows the differential cross-section $\frac{dN}{dp_T}$ for the Z boson as a function of p_T (width). The y-axis ranges from 0 to 1000. The x-axis ranges from 0 to 1. The legend indicates four data series: CMS (black squares), Herwig++ 2.6.1a default (orange dashed line with circles), Herwig 7.2.1 default (green dashed line with squares), and Pythia 8.308 default (blue solid line with triangles). The bottom panel shows the ratio of the Monte Carlo models to the CMS data as a function of width. The y-axis ranges from 0.5 to 2.0. The x-axis ranges from 0 to 1. The ratio is shown as a horizontal line at 1.0, with shaded regions representing the uncertainty of the CMS data.

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