

Jets

The figure displays the ratio of the NTP distribution to the CMS distribution for different Monte Carlo models. The top panel shows the ratio $1/N \frac{dN}{dp_{TD2}}$ as a function of p_{TD2} for CMS (black squares), Herwig++ 2.5.0 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 to CMS as a function of p_{TD2} , with a yellow band indicating the ratio range. The x-axis for both panels is p_{TD2} , ranging from 0 to 1. The y-axis for the top panel is $1/N \frac{dN}{dp_{TD2}}$, and for the bottom panel is Ratio to CMS. The top panel also includes a legend and a title $(p_T^D)^2 \lambda_0^2$ (CMS jet substructure).

Rivet 3.1.10, $\geq 300k$ events

CMS_2021_I1920187