

Jets

Rivet 3.1.10, 2.3M events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

pTD2

Top Panel: Differential event rate $\frac{dN}{dp_T^D}$ vs p_{TD2} . The y-axis is logarithmic, ranging from 1000 to 10000. The x-axis is p_{TD2} , ranging from 0 to 1.0. The plot shows CMS data (black squares) and Pythia 8.308 default simulation (blue triangles). The simulation shows a peak around $p_{TD2} \approx 0.1$.

Bottom Panel: Ratio of simulation to CMS data vs p_{TD2} . The y-axis is linear, ranging from 0.5 to 2.0. The x-axis is p_{TD2} , ranging from 0 to 1.0. The plot shows the ratio of the simulation to the CMS data, with a green shaded band indicating the uncertainty. A horizontal line at 1.0 represents the ratio of 1.

Labels: $(p_T^D)^2 \lambda_0^2$ (CMS jet substructure), CMS_2021_I1920187, Rivet 3.1.10, 2.3M events.