

Jets

Figure 1 displays the LHA $\lambda_{0.5}^1$ (CMS jet substructure) distribution. The top panel shows the distribution of $\lambda_{0.5}^1$ for CMS data (black squares) and Herwig 7.2.1 default (green dashed line with open squares). The CMS data is a flat line at 1, while the Herwig distribution peaks at approximately 0.3. The bottom panel shows the ratio of the Herwig distribution to the CMS distribution, which is a flat line at 1 with a yellow shaded uncertainty band.

Rivet 3.1.10, 2.2M events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

LHA