

Jets

Figure 1: Comparison of the NLO prediction for the ratio of the cross section to the cross section at the LHA. The plot shows the ratio of the cross section to the cross section at the LHA as a function of the LHA. The ratio is shown for the Herwig 7.2.1 default (green dashed line with open squares) and the CMS 2021_11920187 (black solid line with open circles). The ratio is plotted on a logarithmic scale from 0.5 to 2.0. The LHA is plotted on a linear scale from 0 to 1.0. The ratio is approximately 1.0 for LHA values between 0.1 and 0.8, and slightly higher for LHA values between 0.9 and 1.0. The Herwig 7.2.1 default prediction is slightly higher than the CMS 2021_11920187 prediction for LHA values between 0.1 and 0.8, and slightly lower for LHA values between 0.9 and 1.0.

Rivet 3.1.10, 2.9M events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

LHA