

Z+Jet

Figure 1 consists of two panels. The top panel shows the ratio of the differential cross-section to the CMS result as a function of the longitudinal momentum fraction LHA . The x-axis is LHA , ranging from 0 to 1. The y-axis is the ratio of the differential cross-section to the CMS result, ranging from 0 to 1. The top panel shows a peak in the ratio around $LHA = 0.3$, while the bottom panel shows a dip around $LHA = 0.5$.

The top panel displays the ratio of the differential cross-section to the CMS result for the Pythia 6.428 370 (red line with open triangles) and Pythia 6.428 default (orange dashed line with open squares) models. The ratio is plotted against LHA . The ratio is approximately 0.5 at $LHA = 0$, rises to a peak of about 0.8 at $LHA \approx 0.3$, and then decreases towards 0.5 at $LHA = 1$. The Pythia 6.428 default model shows a slightly higher peak than the Pythia 6.428 370 model.

The bottom panel displays the ratio of the differential cross-section to the CMS result for the Pythia 6.428 370 (red line with open triangles) and Pythia 6.428 default (orange dashed line with open squares) models. The ratio is plotted against LHA . The ratio is approximately 0.5 at $LHA = 0$, rises to a peak of about 0.8 at $LHA \approx 0.3$, and then decreases towards 0.5 at $LHA = 1$. The Pythia 6.428 default model shows a slightly higher peak than the Pythia 6.428 370 model.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 2M$ events