

Z+Jet

Figure 1 consists of two panels. The top panel is a plot of the LHA distribution, $\lambda_{0.5}^1$ (CMS jet substructure), versus LHA. The x-axis ranges from 0 to 1, and the y-axis ranges from 0 to 1000. The CMS data is shown as black squares, and the Pythia 8.308 default data is shown as blue triangles. The Pythia data shows a peak around LHA = 0.25. The bottom panel is a plot of the ratio of the LHA distribution to the CMS distribution, versus LHA. The x-axis ranges from 0 to 1, and the y-axis ranges from 0.5 to 2. The ratio is shown as a green band, indicating the range of the ratio. The ratio is generally between 0.8 and 1.5.

Rivet 3.1.10, 2.8M events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

LHA