

Jets

Figure 1: LHA jet substructure. The figure consists of two panels. The top panel shows the differential event rate $\frac{dN}{d\ln(p_T \lambda^1_{0.5})}$ as a function of LHA for three models: CMS (black squares), Herwig 7.1.3 default (green dashed line with open squares), and Pythia 8.170 default (blue solid line with solid triangles). The bottom panel shows the ratio of the Herwig and Pythia models to the CMS model, with a yellow band indicating the ratio range and a green line for the central value. The x-axis for both panels is LHA, ranging from 0 to 1. The top panel has a logarithmic y-axis for $\frac{dN}{d\ln(p_T \lambda^1_{0.5})}$ ranging from 10^0 to 10^5 . The bottom panel has a linear y-axis for the ratio ranging from 0.5 to 2.0.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 300\text{k}$ events

2

1

0.5

LHA