

Jets

The figure consists of two panels. The top panel shows the distribution of $LHA \lambda_{0.5}^1$ (charged only) for CMS data and several Pythia 6.428 models. The x-axis is labeled $LHA \lambda_{0.5}^1$ (charged only) and ranges from 0 to 1. The y-axis is labeled $\frac{1}{N} \frac{dN}{dLHA \lambda_{0.5}^1}$ and ranges from 0 to 1000. The legend indicates the following models: CMS (black squares), Pythia 6.428 350 (yellow squares), Pythia 6.428 370 (red triangles), Pythia 6.428 380 (green triangles), Pythia 6.428 p0 (black circles), and Pythia 6.428 p2010 (black squares with a cross). The bottom panel shows the ratio of the LHA distribution to the CMS distribution, labeled Ratio to CMS , ranging from 0.5 to 2.0. The x-axis is labeled $LHA \lambda_{0.5}^1$ (charged-only) and ranges from 0 to 1. The y-axis is labeled Ratio to CMS and ranges from 0.5 to 2.0. The ratio is shown as a green band, indicating that the ratio is close to 1.0 across the entire range of $LHA \lambda_{0.5}^1$.

Rivet 3.1.10, $\geq 2.4\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

LHA (charged-only)