

## Z+Jet

Figure 1 consists of two panels. The top panel shows the  $N$ - $p_T$  distribution of the leading  $b$ -jet for various LHA values (0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, and 1.0). The y-axis is labeled  $\frac{1}{N} \frac{dN}{dp_T}$  and ranges from 0 to 1000. The x-axis is labeled  $p_T$  and ranges from 0 to 1.0. The data points are shown for CMS (black squares) and Pythia 6.428 370 (red triangles), Pythia 6.428 378 (blue stars), and Pythia 6.428 379 (green stars). The bottom panel shows the ratio of the  $N$ - $p_T$  distribution to the CMS distribution for the same LHA values. The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2.0. The x-axis is labeled "LHA" and ranges from 0 to 1.0. A horizontal line is drawn at 1.0, and shaded regions (yellow and green) indicate the ratio values.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10,  $\geq 2.7\text{M}$  events