

Z+Jet

Figure 1 consists of two panels. The top panel is a line plot showing the distribution of p_T for three different models: CMS (black squares), Pythia 6.428 370 (red triangles), and Pythia 6.428 default (orange squares). The x-axis is labeled 'width' and ranges from 0 to 1. The y-axis is labeled ' $\frac{dN}{dp_T}$ ' and ranges from 0 to 10000. The CMS distribution is a flat line at zero. The Pythia 6.428 370 distribution peaks at $p_T \approx 0.15$ with a value of approximately 8000. The Pythia 6.428 default distribution peaks at $p_T \approx 0.15$ with a value of approximately 6000. The bottom panel is a stacked histogram showing the ratio of the width to the CMS width. The x-axis is labeled 'width' and ranges from 0 to 1. The y-axis is labeled 'Ratio to CMS' and ranges from 0.5 to 2.0. The histogram is divided into two regions: width < 0.5 (yellow) and width > 0.5 (green). The ratio is generally close to 1.0, with some fluctuations. A horizontal line is drawn at Ratio to CMS = 1.0. The text 'CMS 2021_11920187' is visible in the bottom panel.