

Z+Jet

Figure 1 consists of two panels. The top panel is a line plot showing the ratio of the number of particles to the number of particles in the CMS experiment as a function of the width of the particle flow algorithm. The x-axis is labeled 'width' and ranges from 0 to 1. The y-axis is labeled $\frac{N_{\text{part}}}{N_{\text{CMS}}}$ and ranges from 0 to 1. Two data series are plotted: 'Pythia 8.308 default' (blue line with upward-pointing triangles) and 'Pythia 8.308 default-noCR' (grey line with upward-pointing triangles). Both series show a sharp decrease in the ratio as the width increases, starting from approximately 0.8 at width 0 and reaching near zero at width 1. A horizontal line at $\frac{N_{\text{part}}}{N_{\text{CMS}}} = 1$ is also shown. The bottom panel is a stacked histogram showing the ratio of the number of particles to the number of particles in the CMS experiment as a function of the width of the particle flow algorithm. 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. The histogram is divided into two regions: a green region for $\frac{N_{\text{part}}}{N_{\text{CMS}}} < 1$ and a yellow region for $\frac{N_{\text{part}}}{N_{\text{CMS}}} > 1$. The green region is significantly larger than the yellow region, indicating that the ratio is mostly below 1. A horizontal line at 'Ratio to CMS = 1' is also shown.

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 2.6\text{M}$ events