

Z+Jet

Figure 1 consists of two panels. The top panel is a plot of the multiplicity distribution $\frac{1}{N} \frac{dN}{d\lambda_0}$ versus multiplicity λ_0 . The x-axis ranges from 0 to 60, and the y-axis ranges from 0 to 160. The plot shows data from CMS (black squares) and two Monte Carlo models: Herwig++ 2.7.1 default (orange dashed line with open circles) and Herwig 7.2.1 default (green dashed line with open squares). The CMS data shows a sharp peak at $\lambda_0 = 0$ and a small peak at $\lambda_0 = 1$. The Monte Carlo models show a broader distribution with a peak around $\lambda_0 = 15$. The bottom panel is a stacked histogram showing the ratio of the Monte Carlo models to the CMS data. The x-axis is multiplicity λ_0 (0 to 60) and the y-axis is the ratio (0.5 to 2.0). The histogram is divided into two regions: a green region (ratio < 1) and a yellow region (ratio > 1). The green region is dominant for $\lambda_0 < 40$, while the yellow region is dominant for $\lambda_0 > 40$.

A vertical axis with tick marks and labels 0., 1, and 2.

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