

The figure consists of two panels. The top panel shows the distribution of the dijet invariant mass $\sqrt{s_{jj}}$ in GeV on the x-axis (ranging from 0 to 1). The y-axis is the differential event rate $\frac{1}{N} \frac{dN}{d\sqrt{s_{jj}} d\lambda_T}$ on a logarithmic scale from 10^{-2} to 10^1 . Data points from CMS are shown as black squares. Several MC models are compared: Epos 1.99.crmc.1.6.0 lhc (red line with crosses), Herwig 7.2.1 default (green dashed line with squares), Pythia 6.428 370 (red line with triangles), Pythia 8.315 default (blue line with triangles), and Sherpa 2.2.9 default (red dotted line with diamonds). The bottom panel shows the ratio of each MC model to the CMS data on a linear scale from 0.5 to 2.0. The x-axis is the same as the top panel. The y-axis is labeled 'Ratio to CMS'. Shaded regions in the bottom panel indicate the uncertainty bands for the ratios.

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mcplots.cern.ch [arXiv:2401.10621]

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