

Jets

CMS, 13 TeV, AK4 jets, central dijet region, $326 < p_T^{\text{jets}} < 408$ GeV
 Rivet 4.1.0, ≥ 100 k events
 mcplots.cern.ch [arXiv:2401.10621]

(CMS_2021_I1920187)

The top panel shows the differential event rate $\frac{dN}{dp_T d\lambda}$ on a logarithmic scale (from 10^{-6} to 1) versus multiplicity (from 0 to 100). The data points (black squares) are compared with several Monte Carlo models: Epos 1.99.crnc.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 these models to the CMS data on a linear scale (from 0.5 to 2.5) versus multiplicity. The shaded regions represent the uncertainty bands for the models.