

Top Panel: Differential event rate $\frac{1}{\lambda} \frac{dN}{dp_T d\lambda}$ vs. p_T^{dijet} (GeV). The y-axis is logarithmic, ranging from 10^{-6} to 1 . The x-axis is linear, ranging from 0 to 100 GeV. Data points are shown for CMS (black squares), Herwig 7.2.1 default (green dashed line with open squares), Pythia 8.201 default (blue solid line with triangles), and Sherpa 2.2.9 default (red dotted line with diamonds). The plot is for CMS, 13 TeV, AK4 jets, central dijet region, $326 < p_T^{\text{dijet}} < 408$ GeV.

Bottom Panel: Ratio to CMS vs. multiplicity. The y-axis is linear, ranging from 0.5 to 2.5. The x-axis is linear, ranging from 0 to 100. The plot shows the ratio of the models to the CMS data. Shaded regions indicate uncertainty bands: yellow for $0 < \text{multiplicity} < 50$ and green for $50 < \text{multiplicity} < 100$. The legend for the top panel applies to the bottom panel as well.