

Top Panel: $\frac{dN}{dp_T d\lambda}$ vs p_T . The y-axis is logarithmic, ranging from 10^{-7} to 10^{-1} . The x-axis is p_T in GeV, ranging from 0 to 100. Data points are shown for CMS (black squares), Herwig 7.2.1 default (green dashed line with open squares), and Sherpa 2.2.9 default (red dotted line with filled diamonds). A horizontal line is drawn at 10^{-2} .

Bottom Panel: Ratio to CMS vs groomed multiplicity. The y-axis is linear, ranging from 0.5 to 2. The x-axis is groomed multiplicity, ranging from 0 to 100. The plot shows the ratio of the event rate to the CMS data for Herwig (green shaded region) and Sherpa (yellow shaded region) models. A horizontal line is drawn at 1.0. The text "(CMS_2021_I1920187)" is present in the plot area.