

Figure 1 consists of two panels. The top panel shows the differential event rate $\frac{dN}{dp_T d\lambda}$ versus p_T (GeV) for the forward dijet region ($186 < p_T^{\text{jets}} < 254$ GeV) at $\sqrt{s} = 13$ TeV. The y-axis is logarithmic, ranging from 10^{-7} to 10^{-1} . The x-axis is linear, ranging from 0 to 100 GeV. The plot compares CMS data (black squares) with Herwig 7.2.1 default (green dashed line with open squares) and Sherpa 2.2.9 default (red dotted line with filled diamonds). The bottom panel shows the ratio of the event rate to the CMS data versus groomed multiplicity. The y-axis is linear, ranging from 0.5 to 2. The x-axis is linear, ranging from 0 to 100. The plot compares the ratio of Herwig 7.2.1 default (green dashed line with open squares) and Sherpa 2.2.9 default (red dotted line with filled diamonds) to the CMS data. The background is shaded yellow for $p_T < 50$ GeV and green for $p_T > 50$ GeV. A horizontal line at 1.0 indicates the ratio of 1.0. The text '(CMS_2021_I1920187)' is present in the bottom panel.