

The figure consists of two panels. The top panel shows the differential event rate $\frac{1}{N} \frac{dN}{d\lambda} \frac{d\lambda}{d p_T}$ as a function of multiplicity λ for the forward dijet region ($65 < p_T^{\text{jets}} < 88$ GeV) at 13 TeV. The y-axis is logarithmic, ranging from 10^{-7} to 10^1 . The x-axis ranges from 0 to 40. Data points are shown for CMS (black squares), Herwig 7.2.1 default (green dashed line with open squares), Pythia 8.315 default (blue solid line with triangles), and Sherpa 1.2.3 default (red dotted line with diamonds). The bottom panel shows the ratio of the model predictions to the CMS data, Ratio to CMS , on a logarithmic y-axis from 0.5 to 2. The x-axis is the same as the top panel. The ratio is shown for the same four models. Shaded regions in the bottom panel indicate the uncertainty bands for the models: yellow for Herwig and Pythia, and green for Sherpa. A horizontal line at 1.0 represents the ratio of 1.0. The text '(CMS_2021_I1920187)' is present in the bottom panel.

(CMS_2021_I1920187)

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