

The figure consists of two panels sharing a common x-axis labeled "groomed multiplicity" ranging from 0 to 150.

Top Panel: Shows the differential distribution $\frac{1}{N} \frac{dN}{d\lambda} \frac{d\lambda}{dp_T}$ on a logarithmic y-axis from 10^{-7} to 1. The plot is for CMS, 13 TeV, AK8 jets, forward dijet region, $254 < p_T^{\text{jets}} < 326$ GeV. 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). A vertical line at $\lambda \approx 85$ is labeled (CMS_2021_I1920187). The right y-axis is labeled "Rivet 4.1.0, $\geq 100k$ events" and "mcplots.cern.ch [arXiv:1306.3436]".

Bottom Panel: Shows the ratio of the distributions to the CMS data, Ratio to CMS , on a linear y-axis from 0.5 to 2. The plot compares the four models to the CMS data. The background is shaded yellow for $\text{Ratio to CMS} < 1$ and green for $\text{Ratio to CMS} > 1$. The right y-axis is labeled "Rivet 4.1.0, $\geq 100k$ events" and "mcplots.cern.ch [arXiv:1306.3436]".