

CMS, 13 TeV, AK4 jets, central dijet region, $326 < p_T^{\text{dijet}} < 408 \text{ GeV}$
 (CMS_2021_I1920187)

The top panel shows the differential event rate $\frac{1}{\#} \frac{dN}{dp_T d\lambda}$ versus groomed multiplicity (charged-only). The y-axis is logarithmic, ranging from 10^{-5} to 10^{-1} . The x-axis ranges from 0 to 100. The data points are black squares (CMS), orange squares (Pythia 6.426 default), and green stars (Pythia 6.426 pro-q20). The bottom panel shows the ratio of the models to the CMS data, with a horizontal line at 1.0. The y-axis is linear, ranging from 0.5 to 2.0. The x-axis ranges from 0 to 100. The ratio is mostly within 1.0, with a large green shaded region for multiplicity > 50 . A yellow shaded region is visible for multiplicity < 50 . A vertical dashed line is at multiplicity ≈ 45 .