

Figure 1: A two-panel plot showing the groomed multiplicity distribution. The top panel is a log-linear plot of the differential event rate $\frac{dN}{dp_T d\lambda}$ versus p_T . The bottom panel is a linear plot of the ratio of the event rate to the CMS data versus groomed multiplicity. Both panels show CMS data (black squares) and three Pythia 8.315 models: default (blue solid line with triangles), tune-2c (orange dashed line with circles), and tune-2m (orange dotted line with open circles). The bottom panel also includes a green shaded region representing the ratio of the event rate to the CMS data and a yellow shaded region representing the ratio of the event rate to the Pythia 8.315 default model. The x-axis for both panels is groomed multiplicity, ranging from 0 to 100. The y-axis for the top panel is $\frac{dN}{dp_T d\lambda}$, ranging from 10^{-7} to 1. The y-axis for the bottom panel is the ratio to CMS, ranging from 0.5 to 2. The top panel is labeled "CMS, 13 TeV, AK4 jets, forward dijet region, $186 < p_T^{j1,j2} > 254 \text{ GeV}$ ".