

Figure 1 consists of two panels. The top panel is a log-linear plot showing the differential event rate $\frac{dN}{dp_T d\lambda}$ versus the transverse momentum p_T (GeV). The y-axis is logarithmic, ranging from 10^{-7} to 10^0 . The x-axis is logarithmic, ranging from 10 to 254 GeV. Data points from CMS are shown as black squares. Several Pythia 6.426 models are shown as green lines with different markers: Pythia 6.426 359 (dashed line with squares), Pythia 6.426 a (solid line with triangles), Pythia 6.426 dw (dashed line with inverted triangles), Pythia 6.426 p0 (solid line with circles), and Pythia 6.426 pro-q2o (dotted line with stars). The bottom panel is a linear plot showing the ratio of the groomed multiplicity distribution to the CMS distribution versus the groomed multiplicity. The y-axis is linear, ranging from 0.5 to 2. The x-axis is linear, ranging from 0 to 100. Data points from CMS are shown as black squares. The same Pythia 6.426 models are shown as green lines with different markers. A horizontal line at a ratio of 1 is shown. The histogram of the groomed multiplicity distribution is shown as a yellow and green step function. The ratio is close to 1 for low multiplicities and increases for higher multiplicities.