

The figure consists of two panels. The top panel is a log-linear plot of the groomed pTD2 distribution. The x-axis is labeled 'groomed pTD2' and ranges from 0 to 1. The y-axis is labeled $\frac{1}{\#} \frac{dN}{dp_T} \frac{d\lambda}{d\lambda}$ and ranges from 10^{-1} to 10^1 . The plot shows data points for CMS (black squares) and several Pythia 6.428 models: 359 (cyan dashed line with squares), 370 (red solid line with triangles), a (green solid line with triangles), dw (green dashed line with inverted triangles), p0 (black solid line with circles), and pro-q2o (green dotted line with stars). The distribution peaks at a groomed pTD2 value of approximately 0.1. The bottom panel shows the ratio of the groomed pTD2 distribution to the CMS data. The x-axis is the same as the top panel. The y-axis is labeled 'Ratio to CMS' and ranges from 0.5 to 2. The plot shows the ratio for the same Pythia models as the top panel. The ratio is generally close to 1, with some deviations at low groomed pTD2 values. Shaded regions in the bottom panel indicate the uncertainty of the CMS data.