

Top Panel: $\frac{1}{\#} \frac{dN}{dp_T d\lambda}$ vs groomed multiplicity. The y-axis is logarithmic, ranging from 10^{-9} to 10^0 . The x-axis is linear, ranging from 0 to 150. Data points are shown for CMS (black squares) and several Pythia 6.428 models (various colored lines and markers). The distribution shows a sharp drop at high multiplicities.

Bottom Panel: Ratio to CMS vs groomed multiplicity. The y-axis is linear, ranging from 0.5 to 2. The x-axis is linear, ranging from 0 to 150. The plot shows the ratio of the distribution to the CMS data. A horizontal line at 1.0 indicates the ratio is 1. The plot is shaded green for multiplicities greater than 75, indicating the ratio is greater than 1. The legend indicates the following models:

- Pythia 6.428 370 (red line with open triangles)
- Pythia 6.428 373 (purple dotted line with open triangles)
- Pythia 6.428 374 (blue dashed line with open circles)
- Pythia 6.428 375 (cyan dotted line with open circles)
- Pythia 6.428 381 (brown dashed line with open triangles)
- Pythia 6.428 382 (red dashed line with open triangles)

Text in the plot: (CMS_2021_I1920187)