

The figure consists of two panels. The top panel shows the differential cross-section $\frac{1}{\sigma} \frac{dN}{dp_T} \frac{d\lambda}{d\lambda}$ on a logarithmic y-axis (ranging from 10^{-1} to 10^2) versus the groomed p_{TD2} on a linear x-axis (ranging from 0 to 1). The data points are from CMS (black squares) and several Pythia 6.428 models (various line styles and markers). The bottom panel shows the ratio of the cross-section to the CMS data on a linear y-axis (ranging from 0.5 to 2) versus the groomed p_{TD2} on a linear x-axis (ranging from 0 to 1). The ratio is shown for the same models as the top panel, with shaded regions indicating the uncertainty bands.

Top Panel: $\frac{1}{\sigma} \frac{dN}{dp_T} \frac{d\lambda}{d\lambda}$ vs. groomed p_{TD2} . The y-axis is logarithmic, ranging from 10^{-1} to 10^2 . The x-axis is linear, ranging from 0 to 1. The legend includes:

- CMS (black squares)
- Pythia 6.428 359 (dashed line, green squares)
- Pythia 6.428 370 (solid line, red triangles)
- Pythia 6.428 a (solid line, green triangles)
- Pythia 6.428 dw (dashed line, green inverted triangles)
- Pythia 6.428 p0 (solid line, black circles)
- Pythia 6.428 pro-q2o (dotted line, green stars)

Bottom Panel: Ratio to CMS vs. groomed p_{TD2} . The y-axis is linear, ranging from 0.5 to 2. The x-axis is linear, ranging from 0 to 1. The legend is the same as the top panel. The shaded regions represent the uncertainty bands for the ratio.