

The figure consists of two panels. The top panel shows the differential event rate $\frac{1}{\sigma} \frac{dN}{dp_T} \frac{d\lambda}{d\lambda}$ on a logarithmic scale (from 10^{-2} to 10^2) versus the dijet invariant mass p_{TD2} (charged-only) on a linear scale (from 0 to 1). The bottom panel shows the ratio of the event rate to the CMS data on a linear scale (from 0.5 to 2) versus p_{TD2} on a linear scale (from 0 to 1). The top panel includes data points from CMS (black squares) and several Pythia models: Pythia 6.428 345 (red dashed line with open circles), Pythia 6.428 346 (yellow dotted line with open squares), Pythia 6.428 370 (red solid line with open triangles), Pythia 6.428 default (orange dashed line with open squares), and Pythia 8.244 default (blue solid line with filled triangles). The bottom panel includes a shaded region representing the ratio to CMS data, with a horizontal line at 1.0. The x-axis for both panels is p_{TD2} (charged-only) in units of GeV.