

Top Panel:  $\frac{1}{\#} \frac{dN}{dp_T d\lambda}$  vs  $p_{TD2}$ . The y-axis is logarithmic, ranging from  $10^{-2}$  to  $10^2$ . The x-axis is  $p_{TD2}$  from 0 to 1.0. Data points are shown for CMS (black squares) and several Pythia 6.428 models (various colored lines and markers). The models are: Pythia 6.428 370 (red solid 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 dash-dotted line with open circles), Pythia 6.428 381 (brown dashed line with open triangles), and Pythia 6.428 382 (red dash-dotted line with open triangles). A legend is provided in the top panel.

Bottom Panel: Ratio to CMS vs  $p_{TD2}$ . The y-axis is linear, ranging from 0.5 to 2.0. The x-axis is  $p_{TD2}$  from 0 to 1.0. The plot shows the ratio of the model to the CMS data. A shaded region represents the CMS data uncertainty. The models are the same as in the top panel.

Text in the top panel: CMS, 13 TeV, AK4 jets, central dijet region,  $254 < p_{T}^{dijet} < 326$  GeV

Text in the bottom panel: (CMS\_2021\_I1920187)

Text on the right side: Rivet 4.1.0,  $\geq 100k$  events  
mcplots.cern.ch [arXiv:2401.10621]