

The figure consists of two panels sharing a common x-axis labeled p_{TD2} (charged-only) ranging from 0 to 1.

Top Panel: Shows the differential cross-section $\frac{1}{\sigma} \frac{dN}{dp_T} \frac{d\lambda}{d\lambda}$ on a logarithmic y-axis from 10^{-2} to 10^2 . The data points are from CMS (black squares) and three Pythia 6.428 models (red triangles, blue stars, green stars). The cross-section peaks at $p_{TD2} \approx 0.1$ and decreases as p_{TD2} increases. A label $\{p_T^{dijet} > 326\}$ is present in the top right.

Bottom Panel: Shows the ratio of the cross-section to the CMS data, Ratio to CMS , on a linear y-axis from 0.5 to 2. The same data series are shown. The ratio starts high (around 1.8) at low p_{TD2} and drops to around 1.0 for $p_{TD2} > 0.2$. Shaded regions (yellow and green) indicate the uncertainty bands for the ratio.

Text in the top panel: CMS, 13 TeV, AK8 jets, forward dijet region, $326 < p_T^{dijet} < 408$ 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]

Rivet 4.1.0, $\geq 100k$ events ✓

mcplots.cern.ch [arXiv:2401.10621]

2

1

0.5

pTD2 (charged-only)