

The figure consists of two panels sharing a common x-axis labeled "pTD2 (charged-only)" ranging from 0 to 1.

Top Panel: The y-axis is the differential cross-section $\frac{1}{\sigma} \frac{dN}{dp_T} \frac{d\lambda}{d\lambda}$ on a logarithmic scale from 10^{-2} to 10^2 . It shows data points from CMS (black squares) and a Pythia 8.315 default model prediction (blue line with triangles). The data points generally follow the model prediction, which peaks around $p_{TD2} \approx 0.1$ and then decreases. A text label at the top right indicates the region: "CMS, 13 TeV, AK8 jets, forward dijet region, $254 < p_{T}^{j_{et}} < 326$ GeV".

Bottom Panel: The y-axis is the "Ratio to CMS" on a linear scale from 0.5 to 2. It shows the ratio of the Pythia 8.315 default model prediction to the CMS data. The ratio is plotted as a blue line with triangles. A horizontal line at 1.0 represents the ratio of 1. Shaded regions (green and yellow) indicate the uncertainty bands. The ratio starts above 2.0 at $p_{TD2} = 0$, drops to around 1.0, and then fluctuates between 0.7 and 1.0 for $p_{TD2} > 0.1$.

Text labels in the bottom panel include "(CMS_2021_I1920187)" and "mcplots.cern.ch [arXiv:2401.10621]" on the right side.

	Rivet 4.1.0, 100k events
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mcplots.cern.ch [arXiv:2401.10621]

2

1

0.5

pTD2 (charged-only)