

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

The top panel shows the differential event rate $\frac{1}{N} \frac{dN}{d\lambda} \frac{dp_T}{d\lambda}$ on a logarithmic y-axis from 10^{-2} to 10^3 . The data points are from CMS (black squares) and are compared with two Pythia 6.426 models: ambt1 (orange triangles) and z2 (green circles). The distribution decreases as groomed thrust increases. A label "(CMS_2021_I1920187)" is present in the bottom right of the top panel.

The bottom panel shows the "Ratio to CMS" on a linear y-axis from 0.5 to 2.0. It displays the ratio of the Pythia models to the CMS data. The ambt1 model (orange triangles) is generally below the ratio of 1.0, while the z2 model (green circles) is generally above it. Shaded regions in light green and yellow represent the uncertainty bands for the z2 and ambt1 models, respectively.

Text at the top of the plot: "CMS, 13 TeV, AK4 jets, central dijet region, $326 < p_T^{\text{dijet}} < 408$ GeV".

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

(CMS_2021_I1920187)

mcplots.cern.ch [arXiv:2401.10621]

2

0.5

groomed thrust (charged-only)