

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

Top Panel: The y-axis is the differential event rate $\frac{1}{\text{#}} \frac{dN}{d p_T} \frac{d\lambda}{d\lambda}$ on a logarithmic scale from 10^{-2} to 10^3 . The plot shows data from CMS (black squares) and two Pythia 6.426 models: ambt1 (orange triangles) and z2 (green circles). The distribution decreases as groomed thrust increases. A text label at the top right specifies the selection: "CMS, 13 TeV, AK4 jets, forward dijet region, $254 < p_T^{\text{dijet}} < 326 \text{ GeV}$ ". A reference to "(CMS_2021_I1920187)" is present in the lower part of the top panel.

Bottom Panel: The y-axis is the "Ratio to CMS" on a linear scale from 0.5 to 2.0. It shows the ratio of the Pythia models to the CMS data. The ambt1 model (orange triangles) shows a ratio that starts around 1.2, dips to approximately 0.75 at a groomed thrust of 0.25, and then rises back to 1.0. The z2 model (green circles) remains relatively flat, close to 1.0. Shaded horizontal bands in yellow and green represent the uncertainty ranges for the ambt1 and z2 models, respectively.

(CMS_2021_I1920187)

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

groomed thrust