

Top Panel: Charged-only thrust distribution. The y-axis is $\frac{1}{\#} \frac{dN}{dp_T d\lambda}$ on a logarithmic scale from 10^{-2} to 10^3 . The x-axis is thrust (charged-only) from 0 to 1.0. Data series include CMS (black squares), Pythia 8.230 default (blue solid line with triangles), Pythia 8.230 default-CD (red dashed line with triangles), Pythia 8.230 default-DL (purple dashed line with triangles), and Pythia 8.230 default-MBR (blue dotted line with triangles). A vertical dashed line is at thrust ≈ 0.15. Text in the top right corner: "CMS, 13 TeV, AK4 jets, central dijet region, $150 < p_T^{\text{dijet}} < 186$ GeV".

Bottom Panel: Ratio to CMS. The y-axis is "Ratio to CMS" on a linear scale from 0.5 to 2.0. The x-axis is thrust (charged-only) from 0 to 1.0. The plot shows the ratio of the Pythia models to the CMS data, with shaded regions indicating the ratio bands. The legend for the top panel applies to the lines in this panel.

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0.5