

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 $\frac{1}{\#} \frac{dN}{dp_T} \frac{d\lambda}{d\lambda}$ on a logarithmic y-axis from 10^{-1} to 10^2 . The data points (black squares) represent CMS measurements. Theoretical models are shown as lines with markers: Pythia 8.315 default (blue solid line with triangles), Pythia 8.315 tune-AU2 (red dashed line with inverted triangles), Pythia 8.315 tune-AU2lox (red dotted line with diamonds), Pythia 8.315 tune-AU2loxx (red dash-dotted line with squares), and Pythia 8.315 tune-AU2m (brown solid line with stars). A grey text label "(CMS_2021_I1920187)" is present in the top panel.

The bottom panel shows the "Ratio to CMS" on a linear y-axis from 0.5 to 2.0. The same theoretical models are plotted as lines with markers, showing their ratio to the CMS data. Shaded regions in yellow and green represent uncertainty bands. The ratio generally decreases from 1.0 at low groomed thrust to around 0.8-1.0 at high groomed thrust.

Rivet 4.1.0, $\geq 100\text{k}$ events

mcplots.cern.ch [arXiv:2401.10621]

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