

CMS, 13 TeV, AK8 jets, forward dijet region, $120 < p_T^{\text{jet}} < 150$ GeV
 Rivet 4.1.0, ≥ 100 k events
 mcplots.cern.ch [arXiv:1306.3436]
 (CMS_2021_I1920187)

The top panel shows the differential event rate $\frac{1}{\lambda} \frac{dN}{dp_T d\lambda}$ on a logarithmic scale (from 10^{-7} to 10^{-1}) versus the groomed multiplicity (charged-only) on a linear scale (from 0 to 50). The data points are from CMS (black squares) and several Pythia 6.428 models (various colors and shapes). The bottom panel shows the ratio of the groomed multiplicity to the CMS value on a linear scale (from 0.5 to 2.5) versus the groomed multiplicity (charged-only) on a linear scale (from 0 to 50). The ratio is shown for the same models, with a shaded region indicating the uncertainty.

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2

0.5

groomed multiplicity (charged-only)