

Jets

Rivet 3.1.10, $\geq 300\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

thrust

The figure displays the thrust distribution for λ_2^1 (CMS jet substructure) in the 13 TeV pp collision system. The top panel shows the differential event rate $\frac{dN}{d\ln \lambda_2^1}$ on a logarithmic scale (from 1000 to 10000) against the thrust variable λ_2^1 on a logarithmic scale (from 0.05 to 1.0). The CMS data is represented by black squares, while the Pythia 8.212 default and default-noCR models are shown as blue and grey lines with triangles, respectively. The bottom panel shows the ratio of the models to the CMS data, with the default model (green cross) and noCR model (yellow cross) both centered around 1.0.

Thrust λ_2^1	CMS $\frac{dN}{d\ln \lambda_2^1}$	Pythia 8.212 default $\frac{dN}{d\ln \lambda_2^1}$	Pythia 8.212 default-noCR $\frac{dN}{d\ln \lambda_2^1}$
0.05	~10000	~10000	~10000
0.1	~1000	~1000	~1000
0.2	~100	~100	~100
0.5	~10	~10	~10
1.0	~1	~1	~1