

13000 GeV pp

Jets

LHA $\lambda_{0.5}^1$ (CMS jet substructure)Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

(CMS_2021_I1920187)

- CMS
- △ Pythia 6.428 370
- Pythia 6.428 391
- Pythia 6.428 default
- ▲ Pythia 8.315 default

Ratio to CMS

10

1

10^{-1}

10^{-2}

2

1

0.5

2

0

0.5

1

Jets	CMS	Pythia 6.428 370	Pythia 6.428 391	Pythia 6.428 default	Pythia 8.315 default
0.1	4.0	4.0	4.0	4.0	4.0
0.2	3.0	3.0	3.0	3.0	3.0
0.3	1.8	1.8	1.8	1.8	1.8
0.4	1.0	1.0	1.0	1.0	1.0
0.5	0.4	0.4	0.4	0.2	0.4
0.6	0.18	0.18	0.18	0.12	0.18
0.8	0.01	0.01	0.02	0.008	0.01

Jets	CMS	Pythia 6.428 370	Pythia 6.428 391	Pythia 6.428 default	Pythia 8.315 default
0.1	1.0	1.1	0.9	1.1	0.9
0.2	1.0	0.9	1.0	0.9	1.1
0.3	1.0	0.9	1.2	0.9	1.0
0.4	1.0	0.8	1.0	0.8	1.1
0.5	1.0	1.0	1.1	0.6	0.9
0.6	1.0	0.9	1.2	0.8	1.2
0.8	1.0	0.9	2.0	0.7	1.0