

7000 GeV pp

Underlying Event

 $p_T^{\text{lead}} (p_T > 20)$ Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

- CMS
- Pythia 6.428 391
- +— Pythia 6.428 393
- Pythia 6.428 394
- ▼— Pythia 6.428 395

(CMS_2011_I916908)

Ratio to CMS

0 5 10 15

2

1

0.5

2

0.5

$p_T^{\text{lead}} (p_T > 20)$ (GeV)	CMS (Top)	Pythia 6.428 391 (Top)	Pythia 6.428 393 (Top)	Pythia 6.428 394 (Top)	Pythia 6.428 395 (Top)	Ratio to CMS (Bottom)
1	8	8	8	8	8	1.0
2	1	1	1	1	1	1.0
3	0.1	0.1	0.1	0.1	0.1	0.8
4	0.01	0.01	0.01	0.01	0.01	0.7
5	0.001	0.001	0.001	0.001	0.001	0.7
6	0.0001	0.0001	0.0001	0.0001	0.0001	0.6
7	0.0001	0.0001	0.0001	0.0001	0.0001	0.5
8	0.0001	0.0001	0.0001	0.0001	0.0001	0.9
9	0.0001	0.0001	0.0001	0.0001	0.0001	1.0
10	0.0001	0.0001	0.0001	0.0001	0.0001	2.2
11	0.0001	0.0001	0.0001	0.0001	0.0001	1.0
12	0.0001	0.0001	0.0001	0.0001	0.0001	0.8
13	0.0001	0.0001	0.0001	0.0001	0.0001	0.7
14	0.0001	0.0001	0.0001	0.0001	0.0001	0.6
15	0.0001	0.0001	0.0001	0.0001	0.0001	0.5