

Jet Charge Q_T ($\kappa=0.6$, $400 < p_T < 700$, $|\eta| < 1.5$)

- CMS
- ▼ Herwig 7.2.0 softTune
- △ Pythia 6.428 370

 $1/N \frac{dN}{dQ_{T,1}^{0.6}} [1/e]$

10

8

6

4

2

0

2

1

0.5

Rivet 3.1.0, $\geq 5.8M$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

Ratio to CMS

$Q_{T,1}^{\kappa=0.6} [e]$

The figure displays the distribution of Jet Charge Q_T for jets with $\kappa=0.6$, $400 < p_T < 700$, and $|\eta| < 1.5$ at 8000 GeV pp collisions. The top panel shows the distribution $1/N \frac{dN}{dQ_{T,1}^{0.6}} [1/e]$ for three different models: CMS (black squares), Herwig 7.2.0 softTune (blue inverted triangles), and Pythia 6.428 370 (red triangles). The bottom panel shows the Ratio to CMS (y-axis) as a function of $Q_{T,1}^{\kappa=0.6} [e]$ (x-axis). The ratio is shown as a line with markers and a shaded background (green and yellow).

$Q_{T,1}^{\kappa=0.6} [e]$	CMS $1/N \frac{dN}{dQ_{T,1}^{0.6}} [1/e]$	Herwig 7.2.0 softTune $1/N \frac{dN}{dQ_{T,1}^{0.6}} [1/e]$	Pythia 6.428 370 $1/N \frac{dN}{dQ_{T,1}^{0.6}} [1/e]$	Ratio to CMS
-0.7	0.0	0.0	0.0	1.0
-0.5	0.0	1.8	1.1	0.6
-0.3	0.0	1.5	1.4	0.9
-0.1	0.6	1.4	1.4	1.0
0.0	4.8	4.2	4.2	0.8
0.1	4.9	3.2	4.4	0.9
0.2	0.9	1.4	1.4	1.0
0.3	0.2	1.6	1.6	0.9
0.4	0.0	1.5	1.3	0.9
0.5	0.0	1.8	1.0	1.0
0.6	0.0	1.4	0.4	0.3