

8000 GeV pp

Jets

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

- CMS
- ▼ Herwig 7.2.0 softTune
- ▲ Pythia 8.209 default

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

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  $400 < p_T < 700$  GeV and  $|\eta| < 1.5$  in 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 (green inverted triangles), and Pythia 8.209 default (blue triangles). The bottom panel shows the ratio of the distributions to the CMS data, with a horizontal line at 1.0. The x-axis is  $Q_{T,1}^{\kappa=0.6} [e]$  ranging from -1.0 to 0.7. The y-axis for the top panel ranges from 0 to 10, and for the bottom panel from 0.5 to 2.0. The bottom panel also features a green and yellow shaded background.