

1960 GeV ppbar

Top (parton level)

 p_T (tbar) ($dy < 0$)Rivet 3.1.10, ≥ 1.9 M events

mcplots.cern.ch [arXiv:1306.3436]

(MC_FBA_TTBAR)

- Pythia 6.428 370
- Pythia 6.428 391
- Pythia 6.428 default
- Pythia 6.428 pro-q2o

Ratio to Pythia 6.428 370

10^{-1}

10^{-2}

10^{-3}

10^{-4}

10^{-5}

10^{-6}

2

1

0.5

2

0 100 200 300 400

The figure displays two panels comparing different Pythia 6.428 models for top quark production at 1960 GeV ppbar. The top panel shows the p_T distribution of the top quark ($p_T(tbar)$ for $dy < 0$) on a logarithmic scale from 10^{-6} to 10^{-1} . The bottom panel shows the ratio of the cross-section to the Pythia 6.428 370 model on a linear scale from 0.5 to 2.0. Both panels compare four Pythia 6.428 models: 370 (red triangles), 391 (purple squares), default (orange squares), and pro-q2o (green stars). The top panel also includes Rivet 3.1.10 data points (black crosses) and a shaded yellow region representing the MC_FBA_TTBAR uncertainty. The bottom panel shows the ratio of the cross-section to the Pythia 6.428 370 model, with a horizontal line at 1.0 and shaded regions for the different models.