

200 GeV pp

Soft QCD

 $pT(K^-)$

- STAR
- △— Pythia 6.428 370
- - □ - - Pythia 6.428 391
- . - . ■ - . Pythia 6.428 default
- ▲— Pythia 8.301 default

0.3

0.25

0.2

0.15

0.1

0.05

0

2

1

0.5

0.2

0.4

0.6

Ratio to STAR

(STAR_2008_I793126)

Rivet 4.1.0, ≥ 100k events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

The figure consists of two panels. The top panel shows the $pT(K^-)$ distribution for STAR data (black squares) and four Pythia models: Pythia 6.428 370 (red triangles), Pythia 6.428 391 (purple squares), Pythia 6.428 default (orange squares), and Pythia 8.301 default (blue triangles). The y-axis represents the ratio to STAR, ranging from 0 to 0.3. The x-axis represents $pT(K^-)$ in GeV, ranging from 0.2 to 0.7. The bottom panel shows the ratio of the Pythia models to the STAR data, with the y-axis ranging from 0.5 to 2.0. The x-axis is the same as the top panel. A horizontal line at y=1.0 indicates perfect agreement with STAR. The text '(STAR_2008_I793126)' is present in the top panel. The right side of the figure has vertical text: 'Rivet 4.1.0, ≥ 100k events' and 'mcplots.cern.ch [arXiv:1306.3436]'.