

7000 GeV pp

Soft QCD

 $\pi^-/\pi^+$  ratio at  $\sqrt{s}=7$  TeV ( $p_T > 1.2$  GeV)

- LHCb
- ▲ Pythia 8.235 default
- ▲ Pythia 8.235 default-noFsr
- ▲ Pythia 8.235 default-noRap

Rivet 4.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:1306.3436]

(LHCb\_2012\_I1119400)

Ratio to LHCb

2

1

0.5

 $\eta$ 

2.5

3

3.5

4

4.5