

7000 GeV pp

Soft QCD

 $p_T(\phi) \ (2.44 < y < 4.06)$ $d\sigma/dp_T \ [\mu\text{b/MeV}]$

10

1

 10^{-1} 10^{-2}

- LHCb
- △— Pythia 6.428 370
- - □ - - Pythia 6.428 391
- - ■ - - Pythia 6.428 default
- ▲— Pythia 8.183 default

LHCb_2011_I919315

Rivet 3.1.10, $\geq 400\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

Ratio to LHCb

2

1

0.5

2

1

0.5

 $p_T^{\text{phi}} \ [\text{MeV}]$

1000

2000

3000

4000

5000