

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 8.308 default
- ◆ Sherpa 1.4.5 default

LHCb_2011_I919315

Rivet 3.1.10, $\geq 500k$ 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