

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} 10^{-3} 

LHCB



Herwig++ 2.7.1 default



Herwig++ 2.7.1 UE-EE-5



Herwig 7.2.1 default

LHCb_2011_I919315

Rivet 3.1.10, $\geq 2.5\text{M events}$

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