

7000 GeV pp

Soft QCD

Prompt D^{ast} (2010)⁺ + c.c. $d\sigma / dp_T$ for rapidity interval $2 < y < 2.5$

- LHCb
- Herwig++ 2.7.1 default
- Herwig 7.2.1 default
- ▲- Pythia 8.315 default
- ◆- Sherpa 1.2.2p default

Rivet 4.1.0, ≥ 100k events

mcplots.cern.ch [arXiv:1306.3436]

(LHCb_2013_I1218996)

Ratio to LHCb

 10^3
 10^2
10
1
 10^{-1}
2
1
0.52
1
0.5 p_T [GeV]