

7000 GeV pp

Soft QCD

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

- LHCb
- Pythia 6.428 346
- △ Pythia 6.428 347
- ◇ Pythia 6.428 348
- + Pythia 6.428 349
- △ Pythia 6.428 370

Rivet 4.1.0, ≥ 100k events

mcplots.cern.ch [arXiv:2401.10621]

(LHCb_2013_I1218996)

Ratio to LHCb

 $d\sigma / dp_T$ [$\mu\text{b}/(\text{GeV})$]10²

10

1

2

1

0.5

4

6

8

 p_T [GeV]

2

1

0.5