

7000 GeV pp

Soft QCD

Prompt  $D^+$  + c.c.  $d\sigma / dp_T$  for rapidity interval  $4.0 < y < 4.5$ 

- LHCb
- +— Epos 1.99.crmc.1.2 lhc
- -□- - Herwig 7.2.1 default
- -△- - Pythia 6.428 370
- ...♦... Sherpa 2.2.9 default

Rivet 4.1.0, ≥ 100k events

mcplots.cern.ch [arXiv:2401.10621]

(LHCB\_2013\_I1218996)

Ratio to LHCb

0.5

2

 $p_T$  [GeV]

0

2

4

6

2

1

0.5