

7000 GeV pp

Soft QCD

Prompt  $D^0$  + c.c.  $d\sigma / dp_T$  for rapidity interval  $4.0 < y < 4.5$ 

- LHCB
- ▲ Pythia 8.240 default
- ▲ Pythia 8.240 default-noFsr
- ▲ Pythia 8.240 default-noRap

Rivet 4.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:1306.3436]

(LHCb\_2013\_I1218996)

Ratio to LHCB

 $p_T$  [GeV]