

900 GeV pp

Soft QCD

Diff. cross-section for prompt K_S^0 production ($3.0 < y < 3.5$) $d^2\sigma(pp \rightarrow \{K_S^0\} X) / (dy dp_T)$ [mb/(GeV)]

10

1

 10^{-1}

- LHCb
- +— Epos 1.99.crnc.1.6.0 lhc
- ▼— Herwig 7.2.1 softTune
- △— Pythia 6.428 370
- ▲— Pythia 8.315 default

(LHCb_2010_I865584)

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

Ratio to LHCb

2

1

0.5

2

1

0.5

 p_T [GeV]