

7000 GeV pp

NSD

Mean  $p_T$  vs charged hadron multiplicity,  $|\eta| < 2.4$ ,  $\sqrt{s} = 7$  {TeV}

- CMS
- ▲ Pythia 8.230 default
- ✱ Pythia 8.230 tune-4c
- Pythia 8.230 tune-4cx

Rivet 4.1.0,  $\geq 300k$  events

mcplots.cern.ch [arXiv:1306.3436]

(CMS\_2011\_I879315)

Ratio to CMS

2

1

0.5

n

# $\langle p_T \rangle$  [GeV]