

7000 GeV pp

Soft QCD

Mean  $p_T$ , leading in-jet charged particle# $\langle p_T \rangle$  [GeV]

- CMS
- ▲ Pythia 6.423 a
- ▼ Pythia 6.423 dw
- Pythia 6.423 p0
- ☆ Pythia 6.423 pro-q2o

Rivet 4.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:2401.10621]

(CMS\_2013\_I1261026)

Ratio to CMS

2

1

0.5

0

50

100

 $N_{ch}$ 