

7000 GeV pp

 $\sigma_{\text{Total}}$  $\sqrt{s}=7$  TeV $\sigma_{\text{total}}$  [mb]

- TOTEM
- ▲ Pythia 8.301 default
- -● Pythia 8.301 tune-2c
- ...○ Pythia 8.301 tune-2m

Rivet 4.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:1306.3436]

(TOTEM\_2011\_I930960)

Ratio to TOTEM

2

1

0.5

6999.5

7000

7000.5

 $\sqrt{s}$ 