

7000 GeV pp

Soft QCD

 $\sqrt{s}=7\text{ TeV}, pp \rightarrow \{\text{jet}\}_1 \{\text{jet}\}_2, |\eta^{j_{-1}, j_{-2}}| < 4.4, p_T^{j_{-1}, j_{-2}} > 20\text{ GeV}$

- CMS
- ▲— Pythia 8.315 default
- - * - - Pythia 8.315 tune-4c
- - □ - - Pythia 8.315 tune-4cx

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

(CMS_2012_I1184941)

Ratio to CMS

 $d\sigma_{jj}/d\xi [\mu\text{b}]$ ξ

0

0.005

0.01

0.5

1

2

5

10

15

20

25

0.5

1

2