

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 6.428 370
- - □ - - Pythia 6.428 391
- - ■ - - Pythia 6.428 default
- ▲— Pythia 8.201 default

Rivet 4.1.0, ≥ 100k events

mcplots.cern.ch [arXiv:2401.10621]

(CMS_2012_I1184941)

Ratio to CMS

2

1

0.5

 ξ

0

0.005

0.01

 $d\sigma_{jj}/d\xi [\mu\text{b}]$

25

20

15

10

5

0

2

1

0.5