

7000 GeV pp

Soft QCD

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

- CMS
- △— Pythia 6.427 370
- - -■- - - Pythia 6.427 default
- ...☆... Pythia 6.427 pro-q2o

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

(CMS_2012_I1184941)

 $d\sigma_{ij}/d\xi$ [μb]

Ratio to CMS

 ξ

0

0.005

0.01

160

140

120

100

80

60

40

20

10

2

1

0.5

2

1

0.5

0

0.005

0.01