

7000 GeV pp

 $b\bar{b}$ $\eta(\text{b-jet})$ (with LEP fragmentation fractions)

- LHCb
- ▲ Pythia 8.176 default
- Pythia 8.176 tune-4cx

 $d\sigma(pp \rightarrow H_b X) / d\eta [\mu\text{b}]$

70

60

50

40

30

20

10

0

LHCb_2010_I867355

Rivet 3.1.10, $\geq 400\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

Ratio to LHCb

2

1

0.5

2

1

0.5

 $\eta(H_b)$

2

3

4

5

6