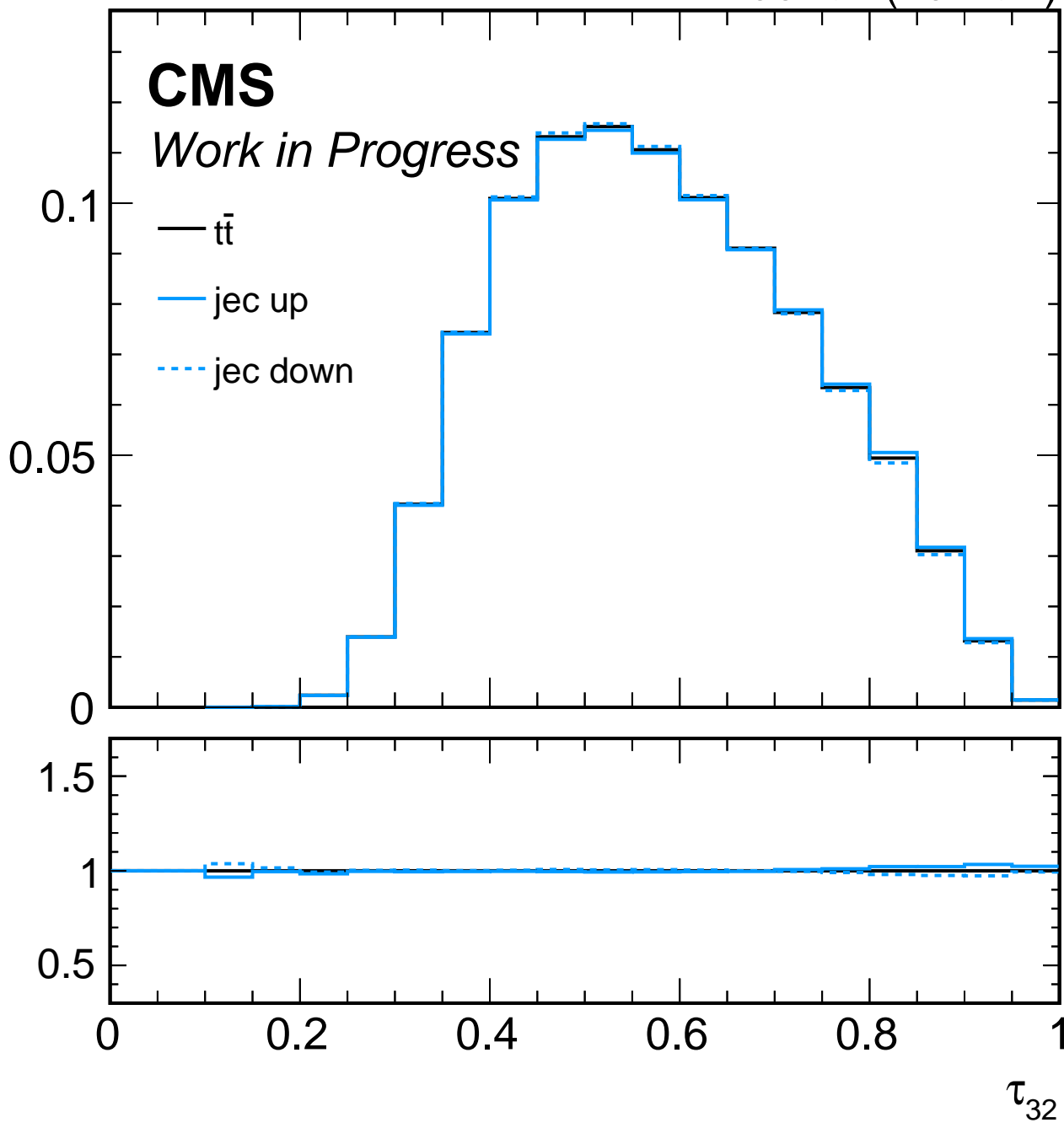


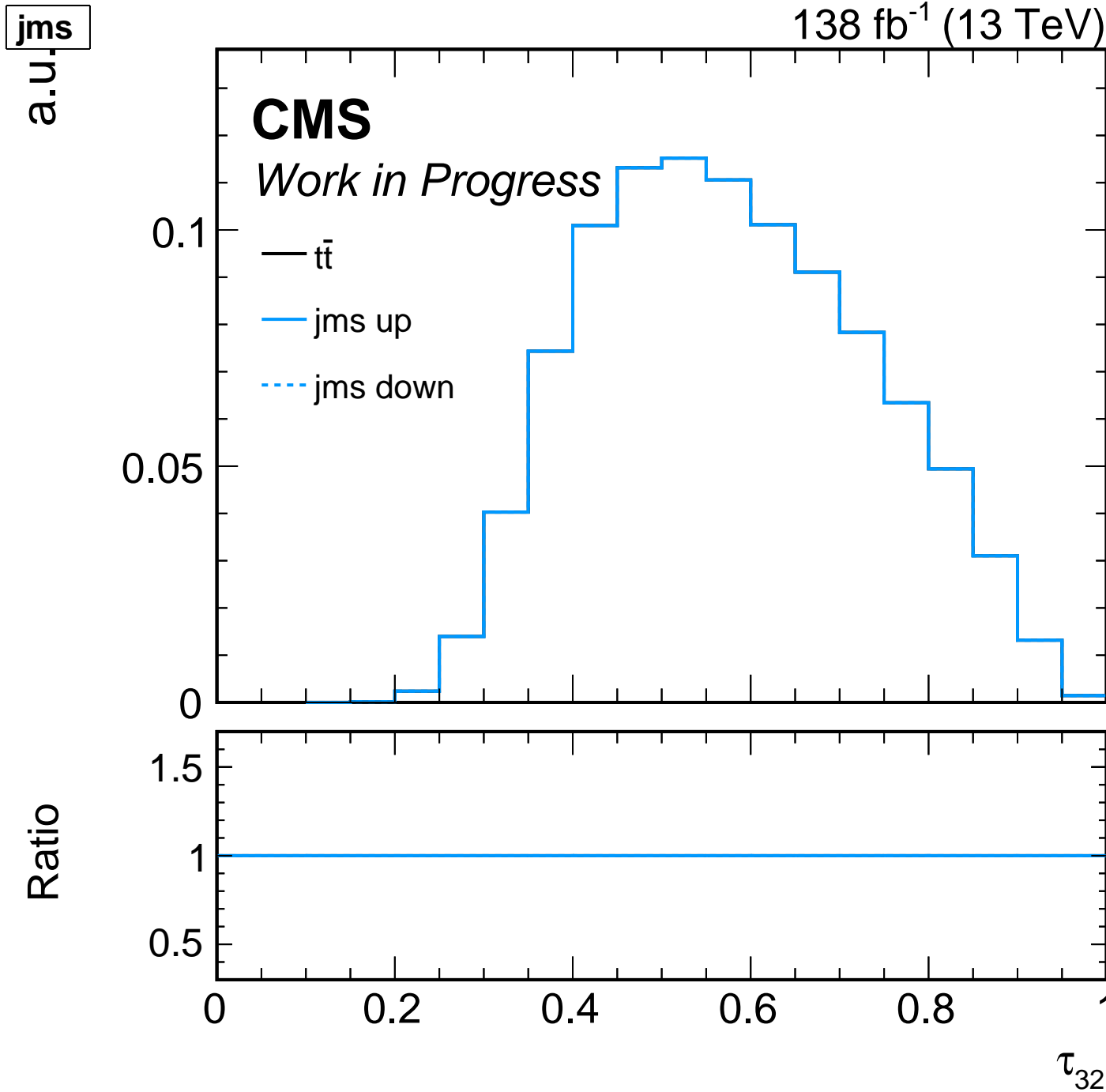
jec

138 fb<sup>-1</sup> (13 TeV)

**CMS**

*Work in Progress*





hdamp

138 fb<sup>-1</sup> (13 TeV)

**CMS**

*Work in Progress*

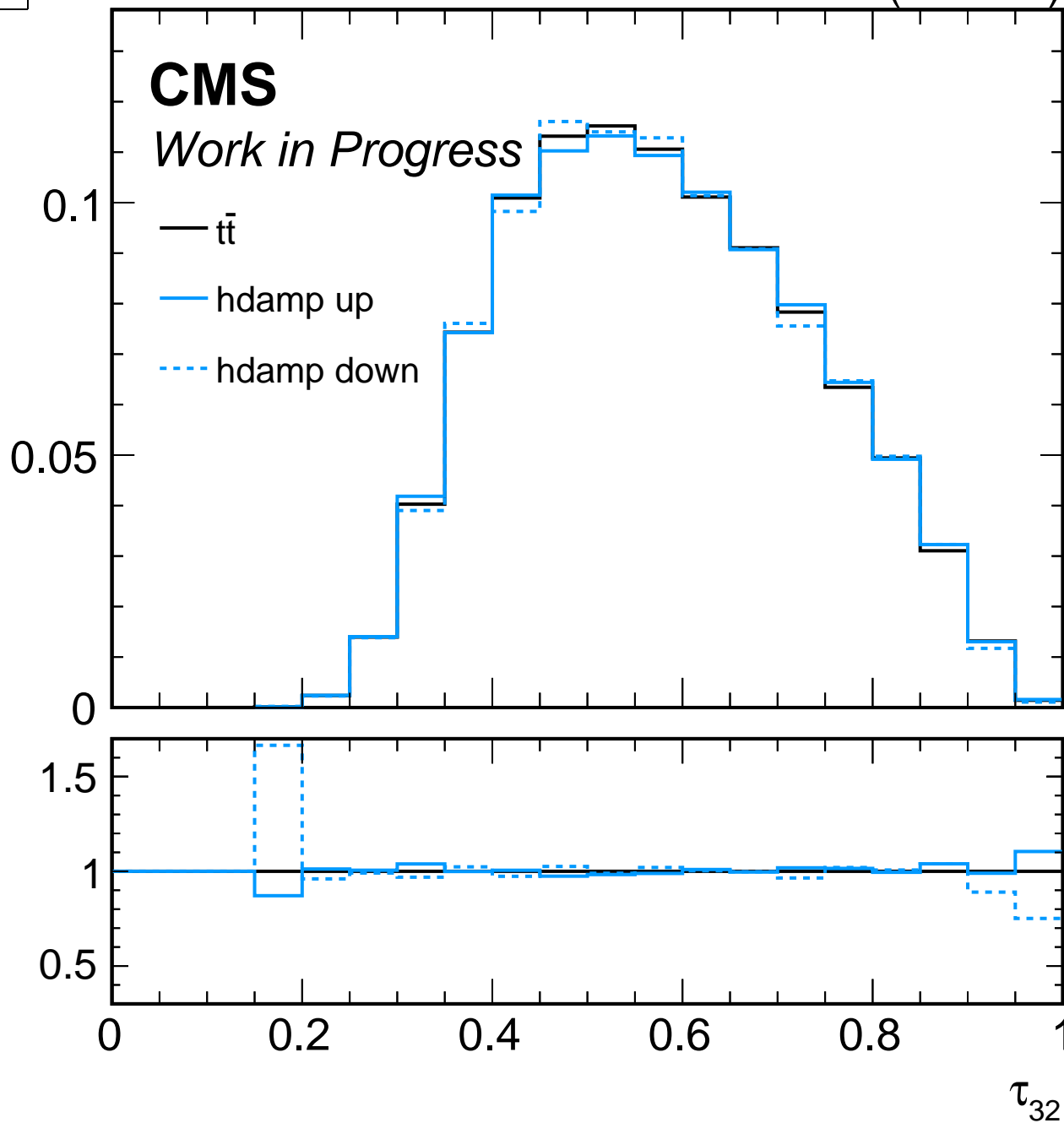
—  $t\bar{t}$

— hdamp up

... hdamp down

Ratio

$\tau_{32}$



isr2

138 fb<sup>-1</sup> (13 TeV)

a.u.

**CMS***Work in Progress*—  $t\bar{t}$ 

— isr2 up

- - - isr2 down

0.1

0.05

0

Ratio

1.5

1

0.5

0

0.2

0.4

0.6

0.8

1

 $\tau_{32}$

tune

138 fb<sup>-1</sup> (13 TeV)

a.u.

**CMS***Work in Progress*—  $t\bar{t}$ 

— tune up

- - - tune down

0.1

0.05

0

Ratio

1.5

1

0.5

0

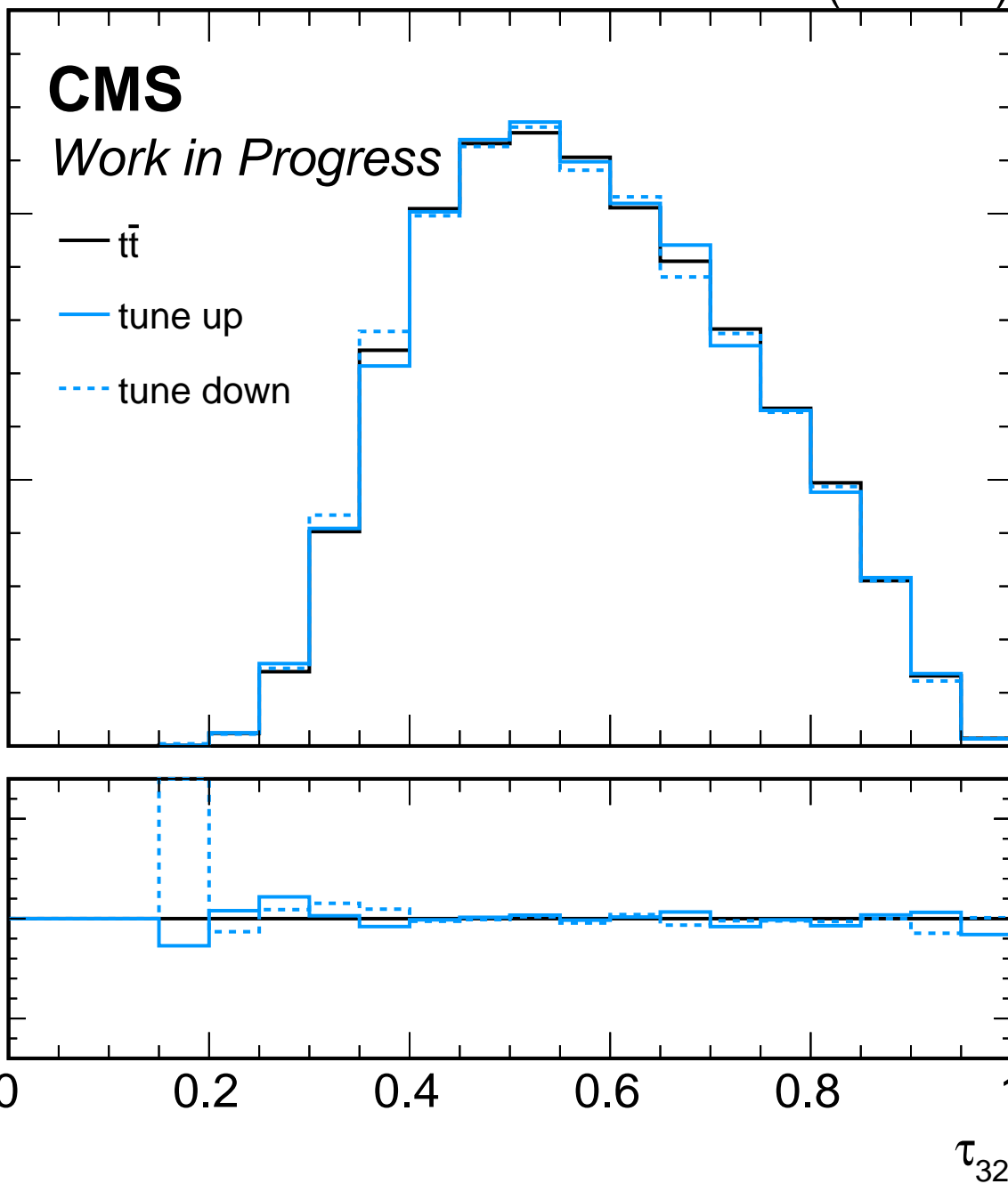
0.2

0.4

0.6

0.8

1

 $\tau_{32}$ 

cor

138 fb<sup>-1</sup> (13 TeV)

a.u.

**CMS***Work in Progress*—  $t\bar{t}$ 

— cor up

... cor down

0.1

0.05

0

Ratio

1.5

1

0.5

0

0.2

0.4

0.6

0.8

1

 $\tau_{32}$ 