

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

a.u.

**CMS**

*Work in Progress*

—  $t\bar{t}$

— jec up

... jec down

0.1

0.05

0

Ratio

1.5

1

0.5

0

0.2

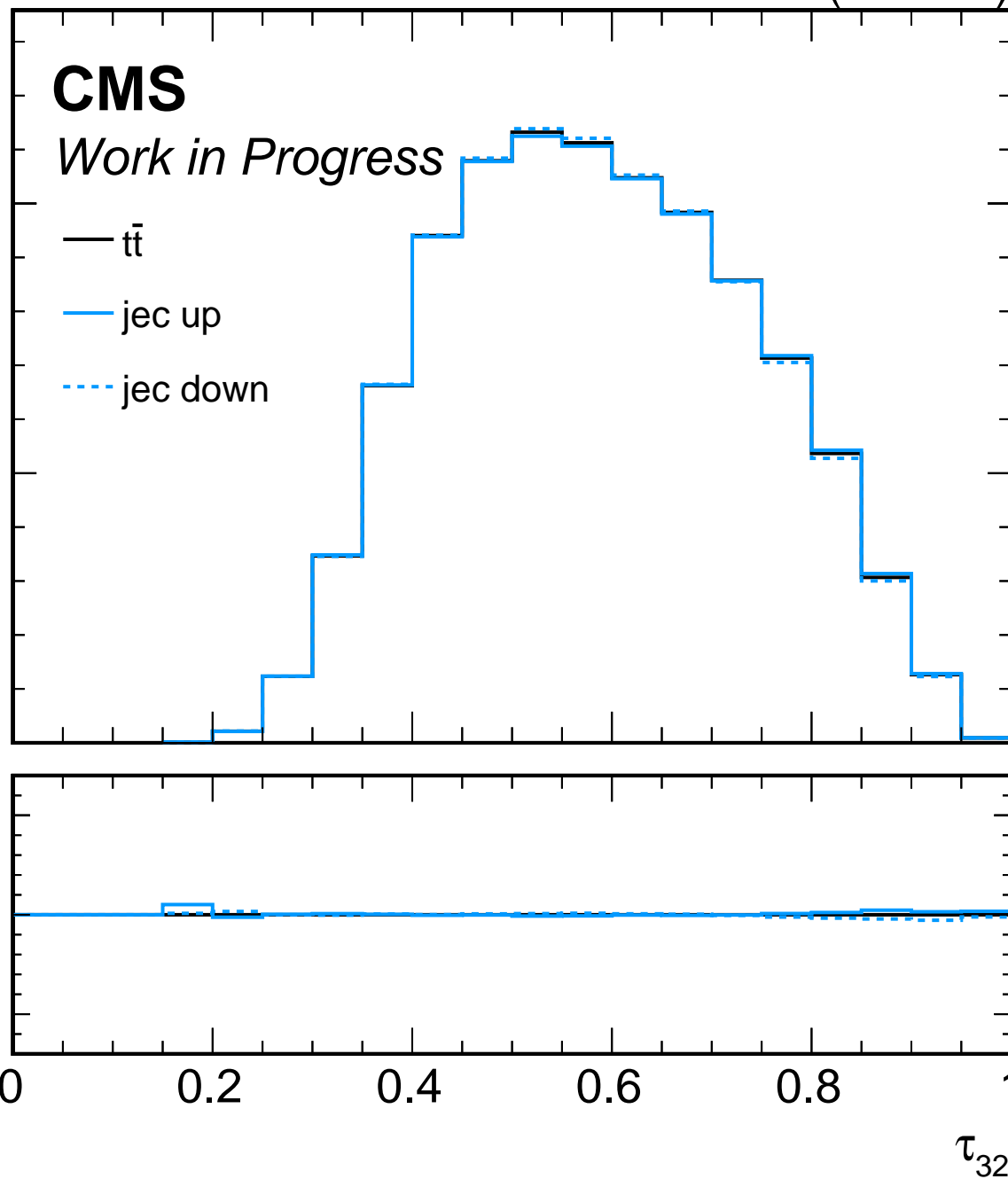
0.4

0.6

0.8

1

$\tau_{32}$



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

a.u.

**CMS**

*Work in Progress*

—  $t\bar{t}$

— jms up

... jms down

0.1

0.05

0

Ratio

1.5

1

0.5

0

0.2

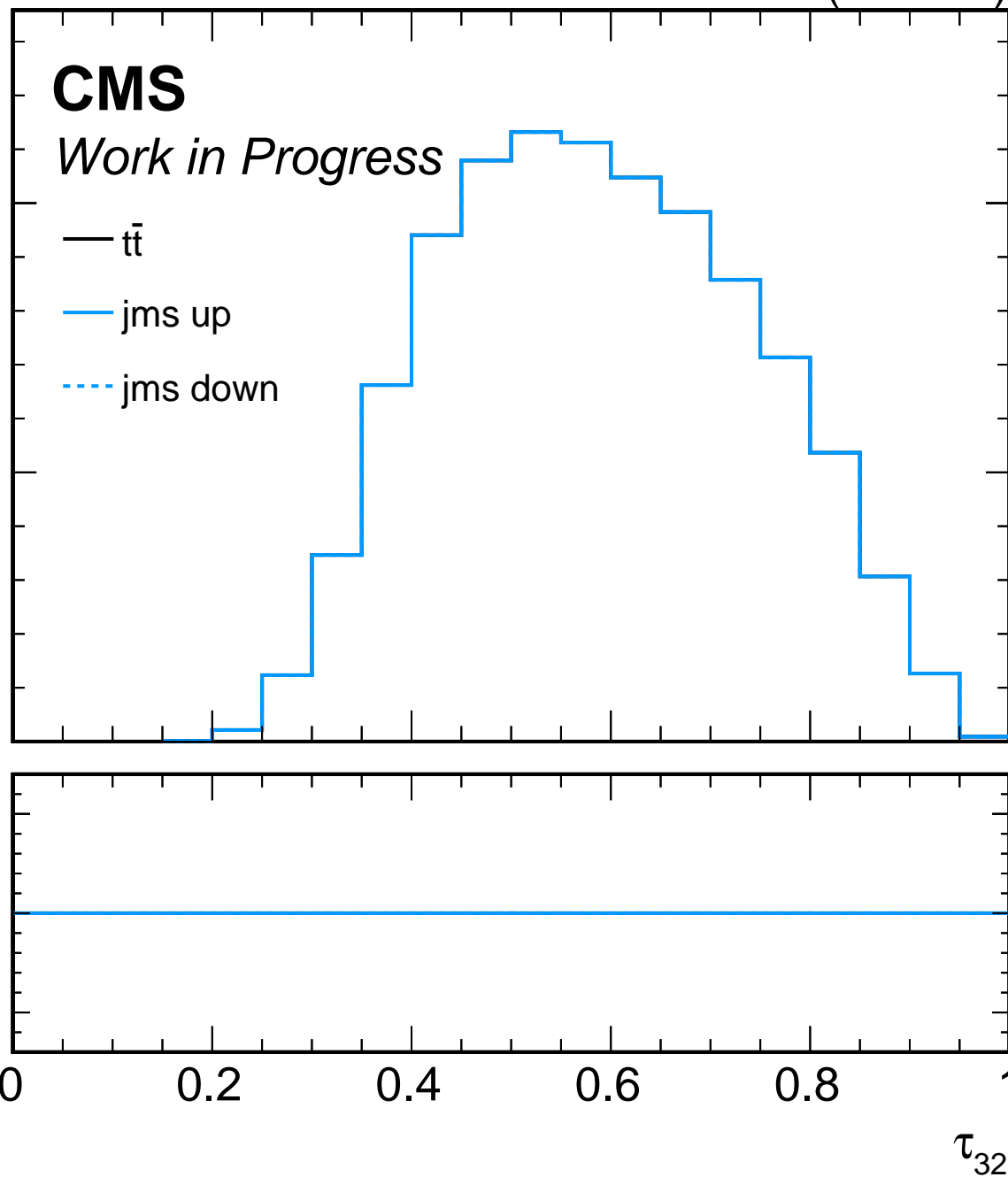
0.4

0.6

0.8

1

$\tau_{32}$



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

a.u.

**CMS**

*Work in Progress*

—  $t\bar{t}$

— hdamp up

... hdamp down

0.1

0.05

0

Ratio

1.5

1

0.5

0

0.2

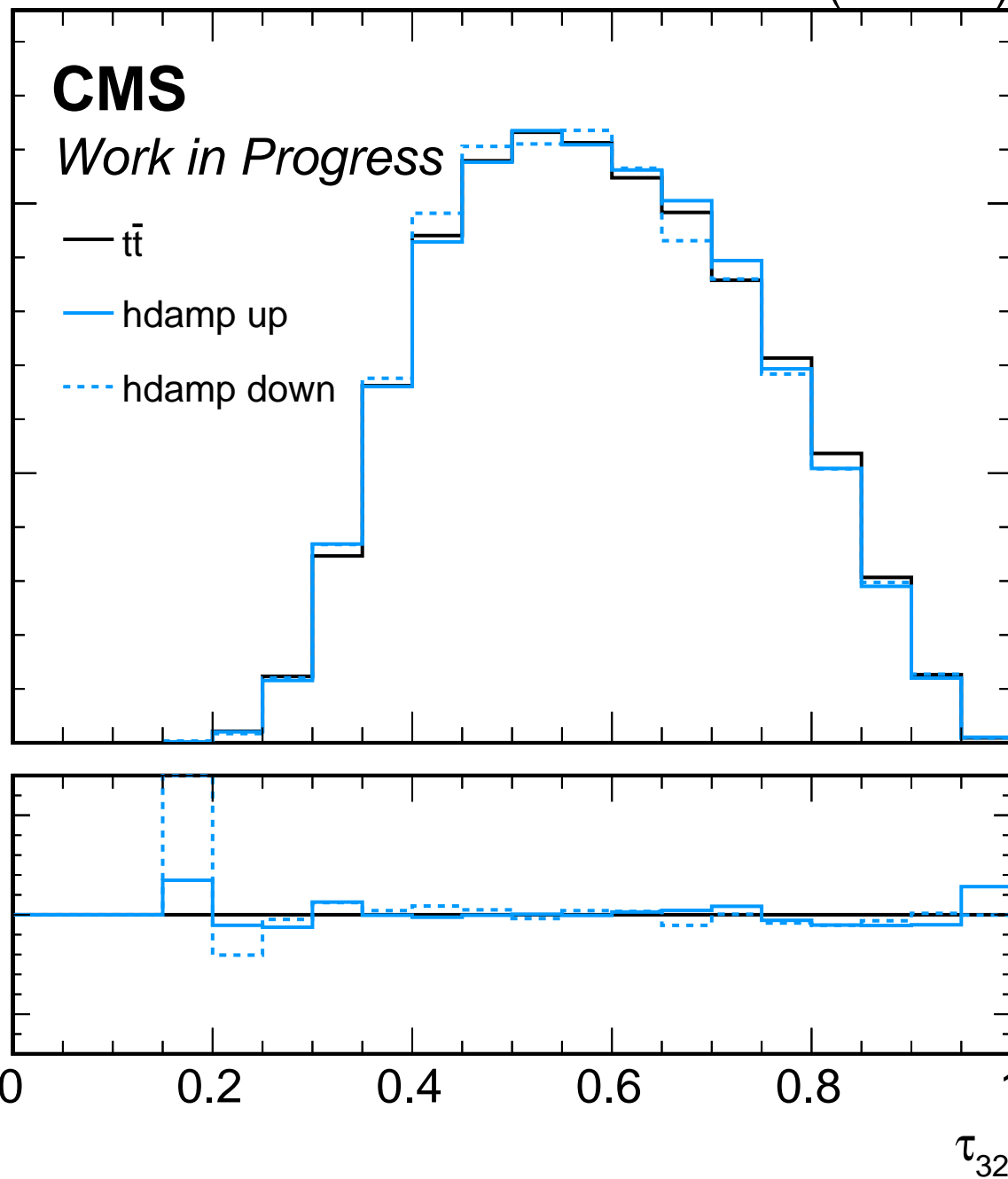
0.4

0.6

0.8

1

$\tau_{32}$



36 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

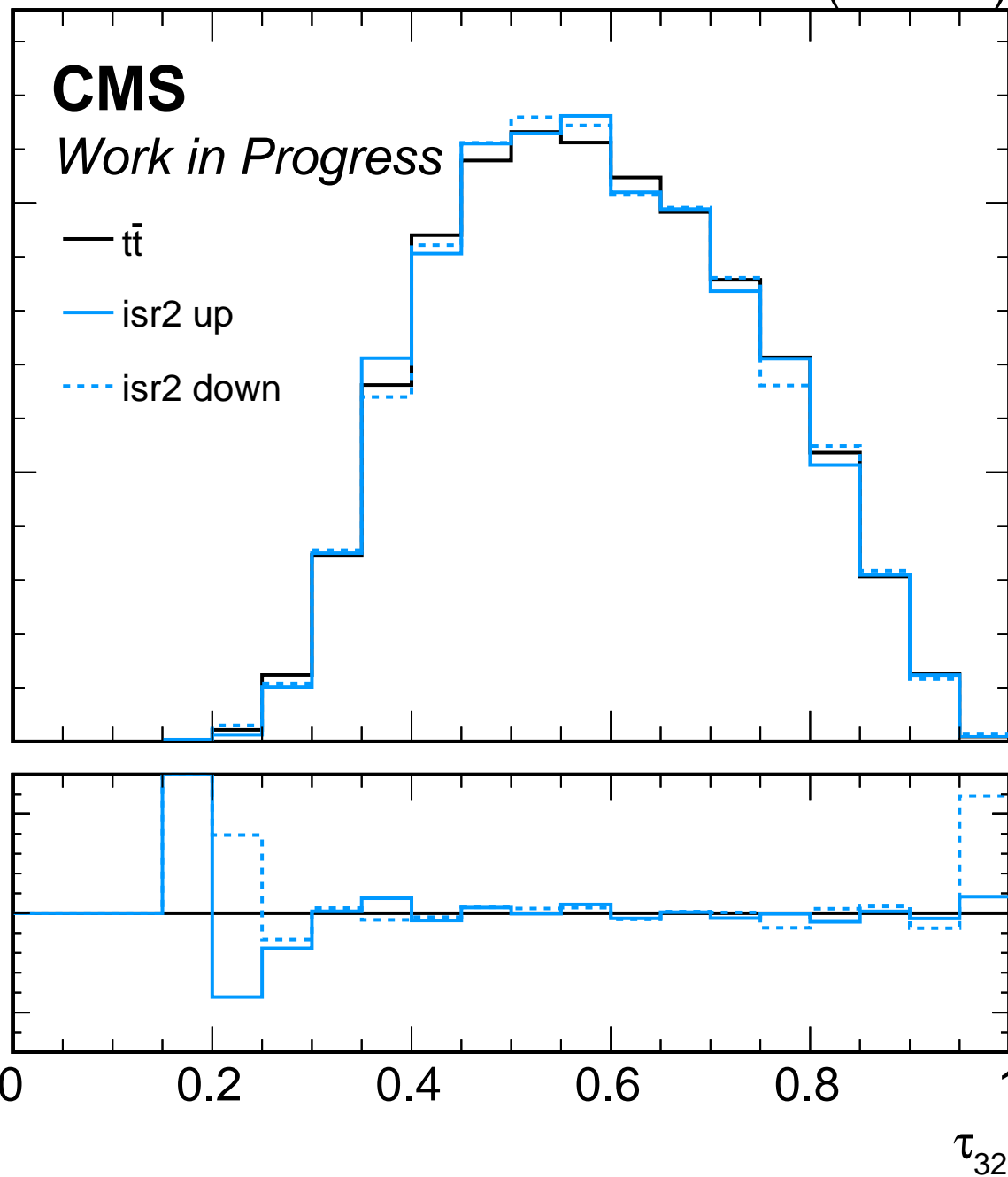
0.4

0.6

0.8

1

$\tau_{32}$



36 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

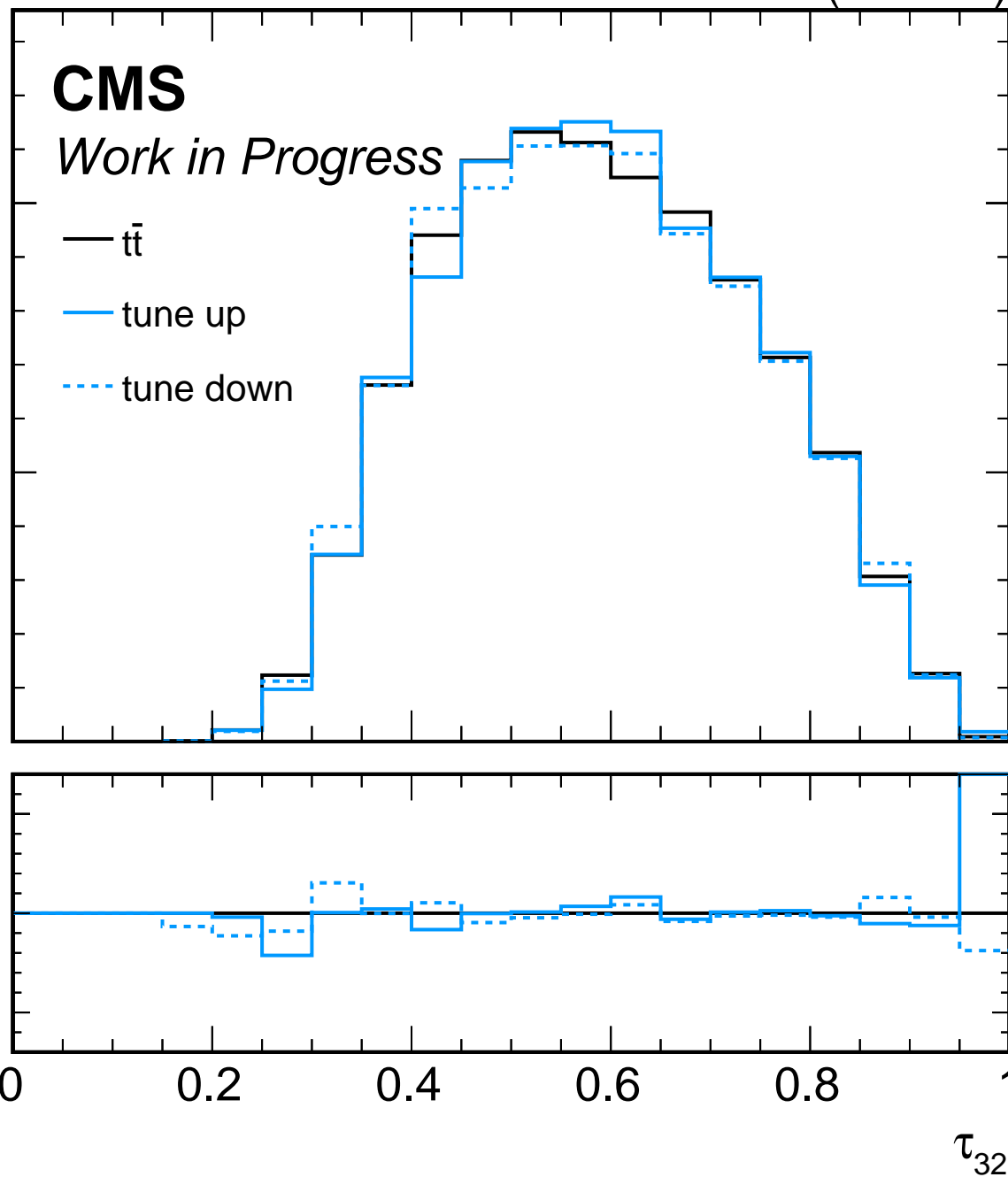
0.2

0.4

0.6

0.8

$\tau_{32}$



36 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

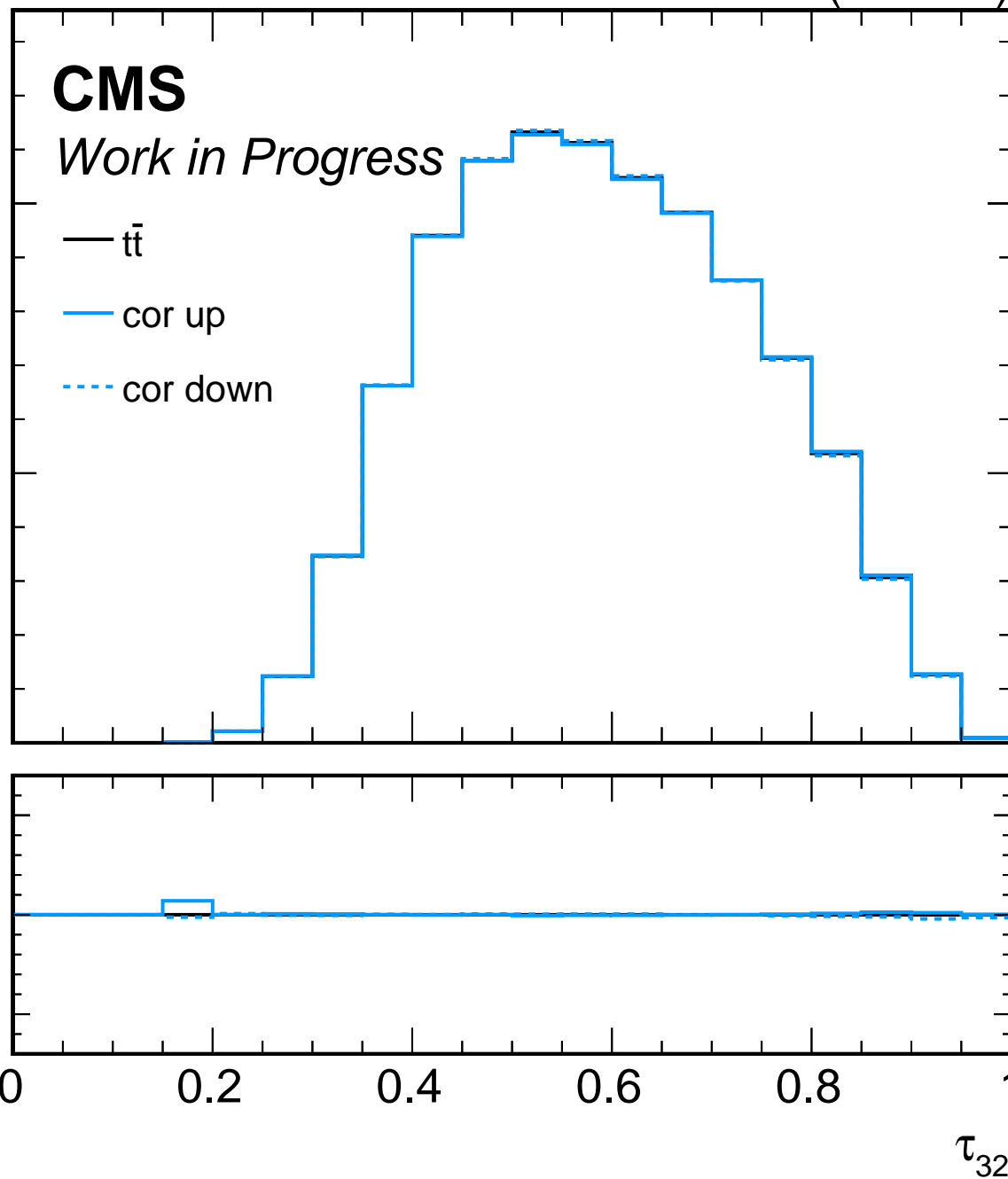
0.4

0.6

0.8

1

$\tau_{32}$



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

a.u.

**CMS**

*Work in Progress*

—  $t\bar{t}$

— gluonmove

0.1

0.05

0

Ratio

1.5

1

0.5

0

0.2

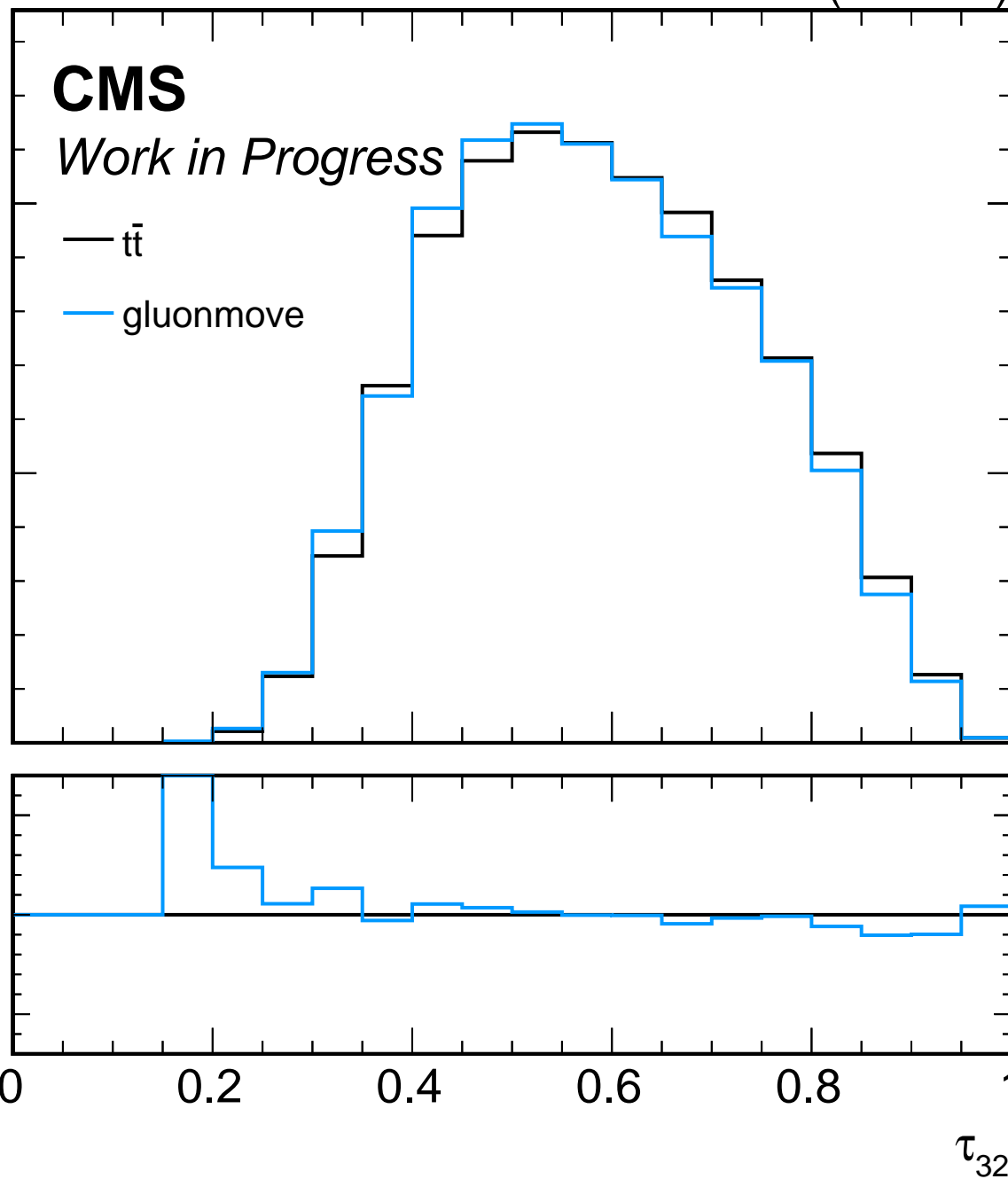
0.4

0.6

0.8

1

$\tau_{32}$



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

a.u.

**CMS**

*Work in Progress*

—  $t\bar{t}$

— qcdbased

0.1

0.05

0

Ratio

1.5

1

0.5

0

0.2

0.4

0.6

0.8

1

$\tau_{32}$

