

Events per bin (normalized)

ATLAS

Simulation Internal

Var2Up

$\sqrt{s} = 13$ TeV, MC16e

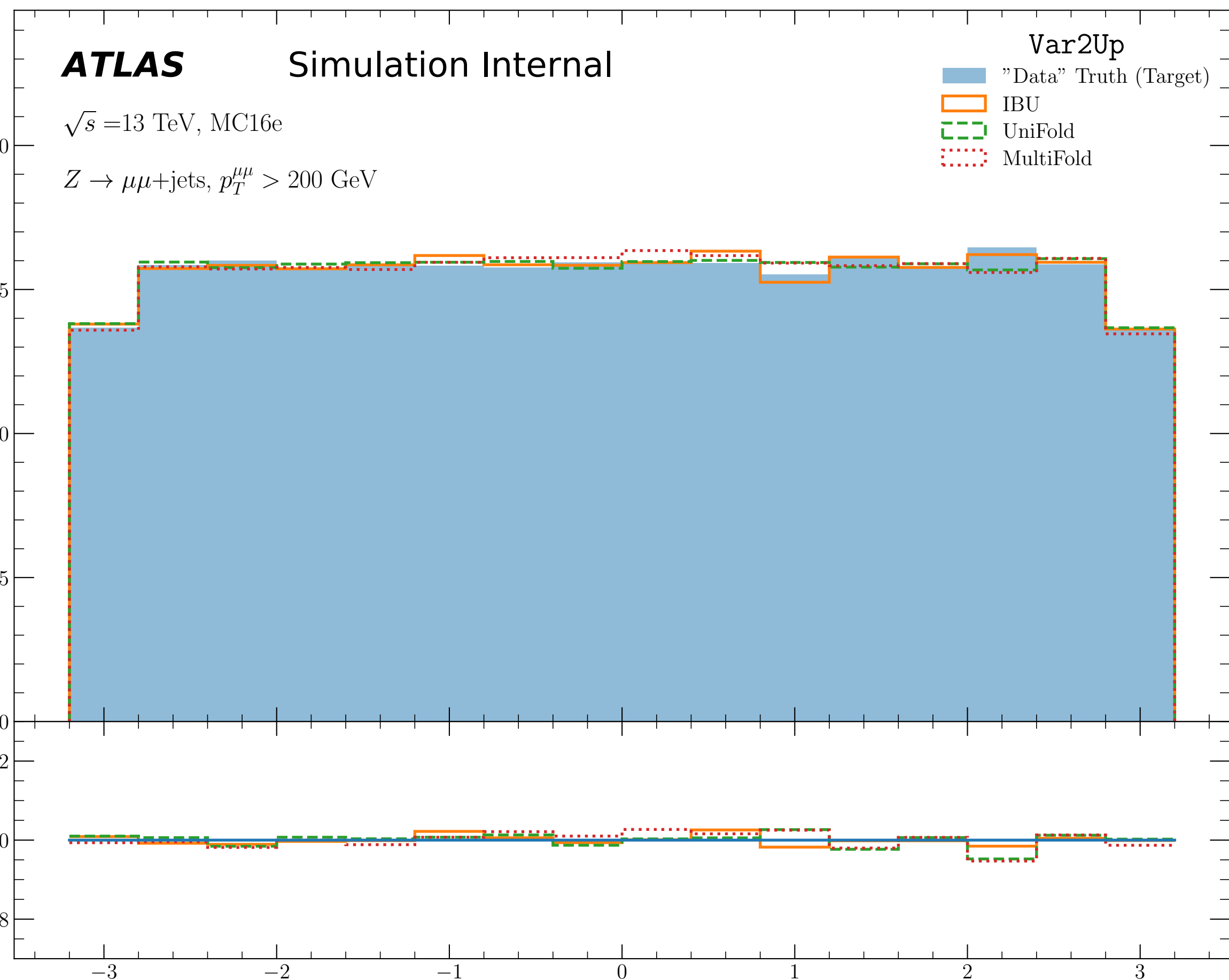
$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

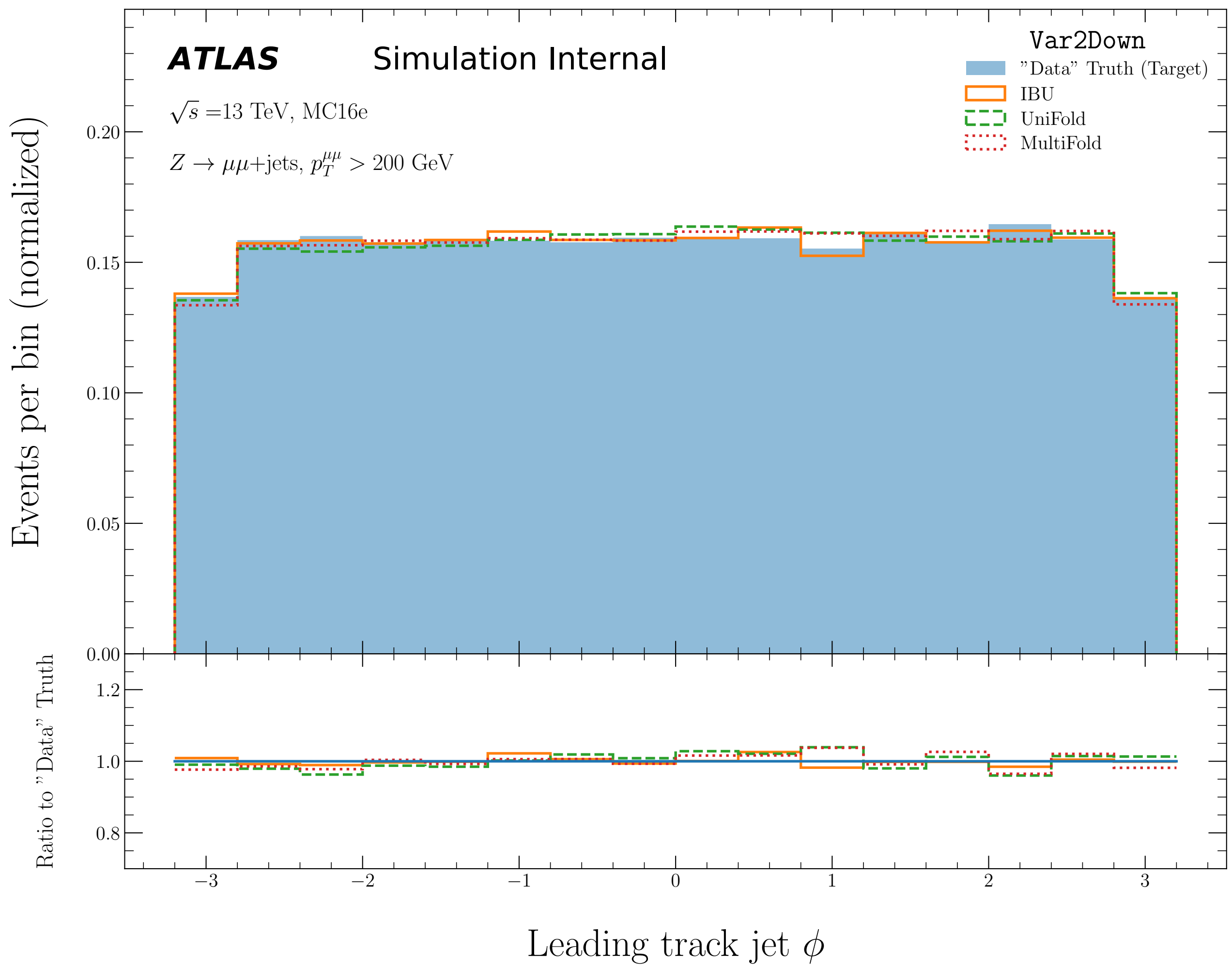
- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

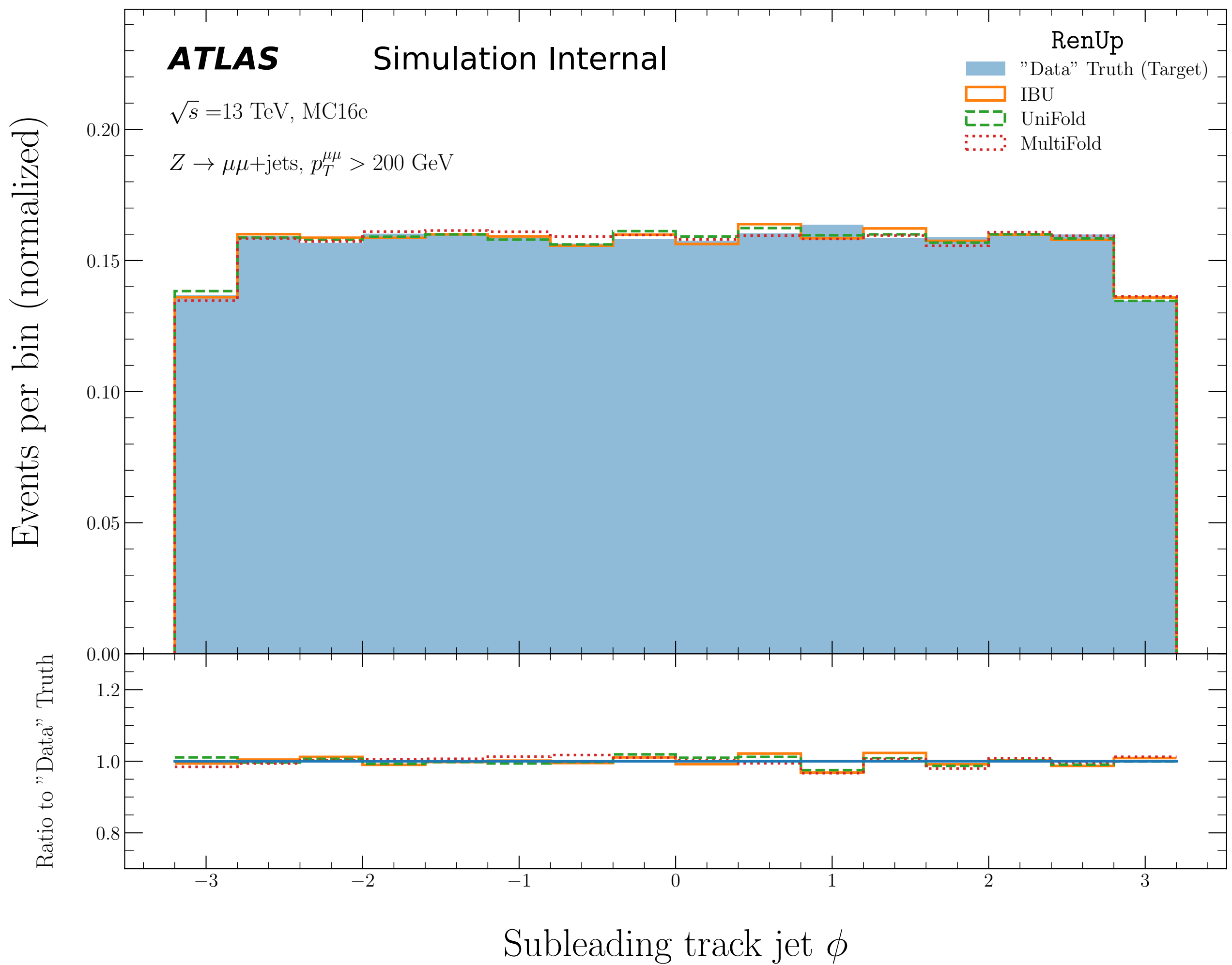
0.20
0.15
0.10
0.05
0.00
1.2
1.0
0.8

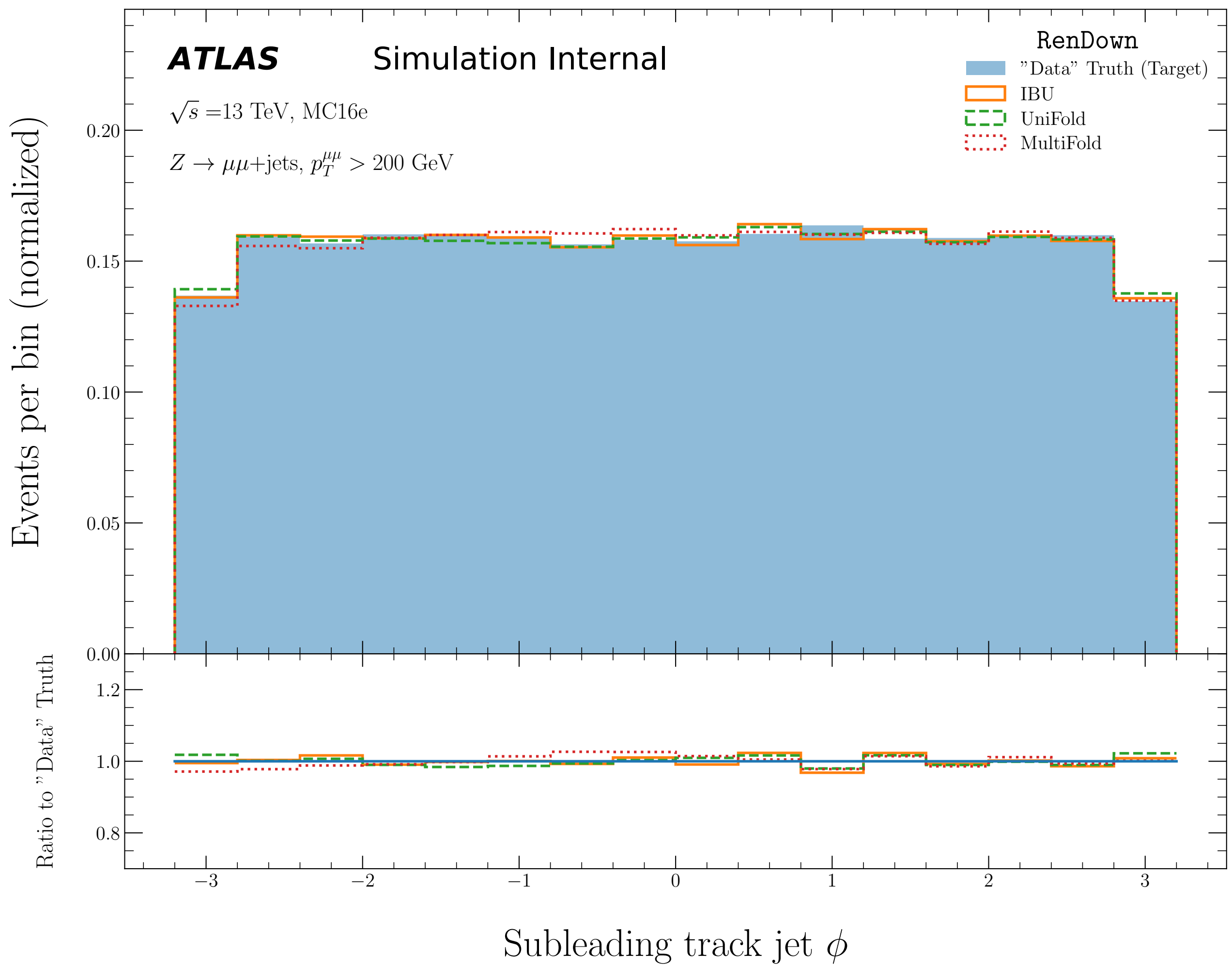
Ratio to "Data" Truth

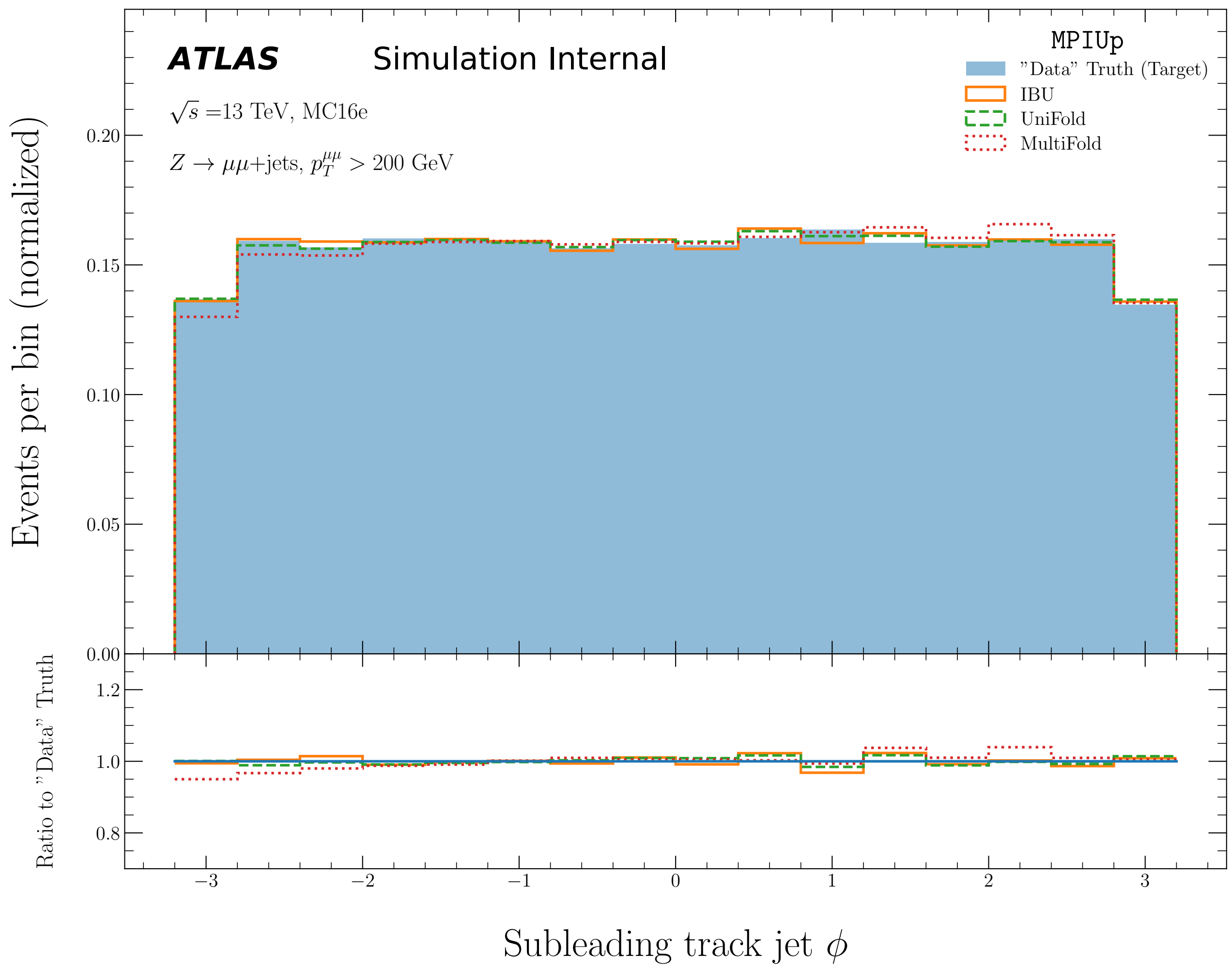
Leading track jet ϕ

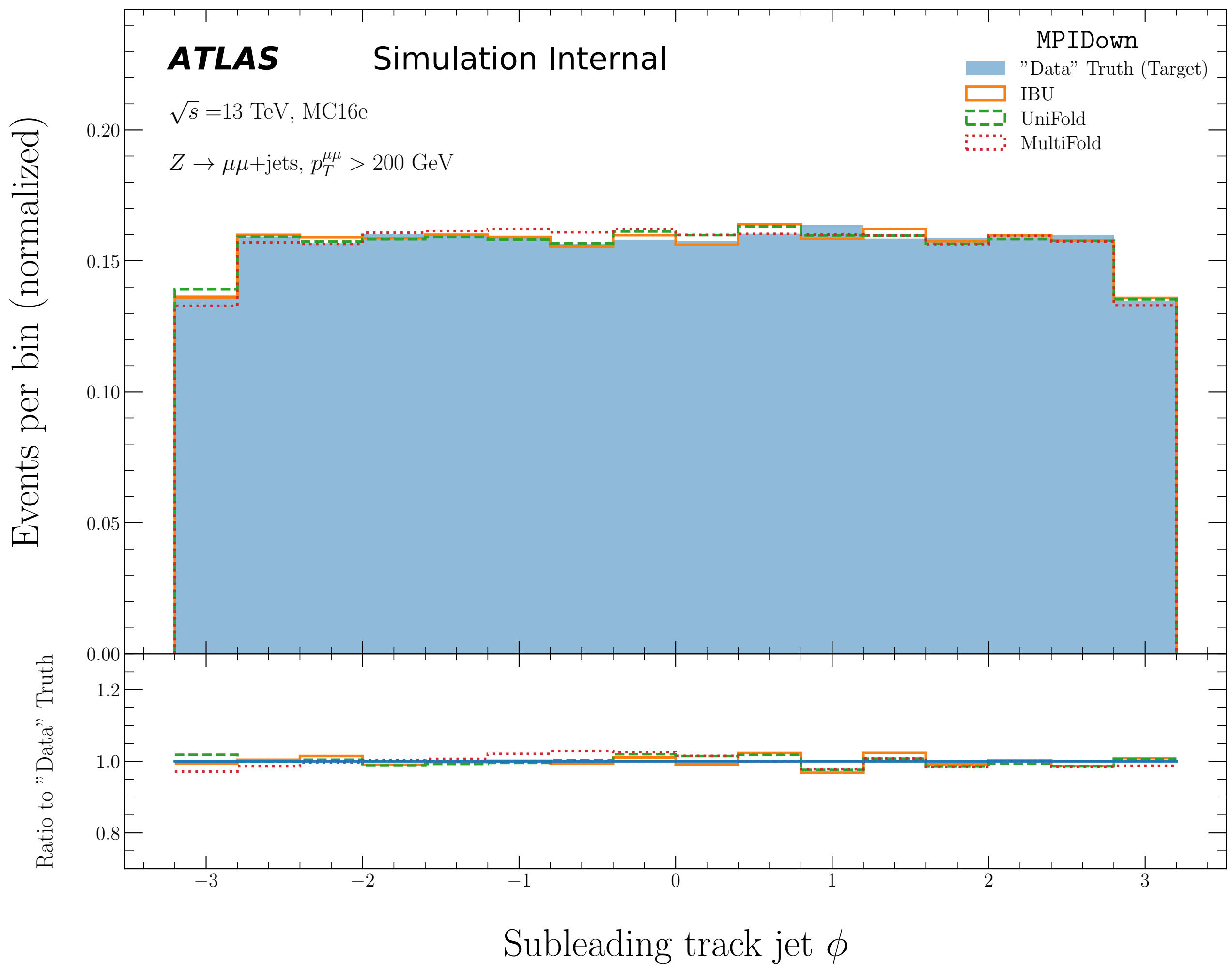


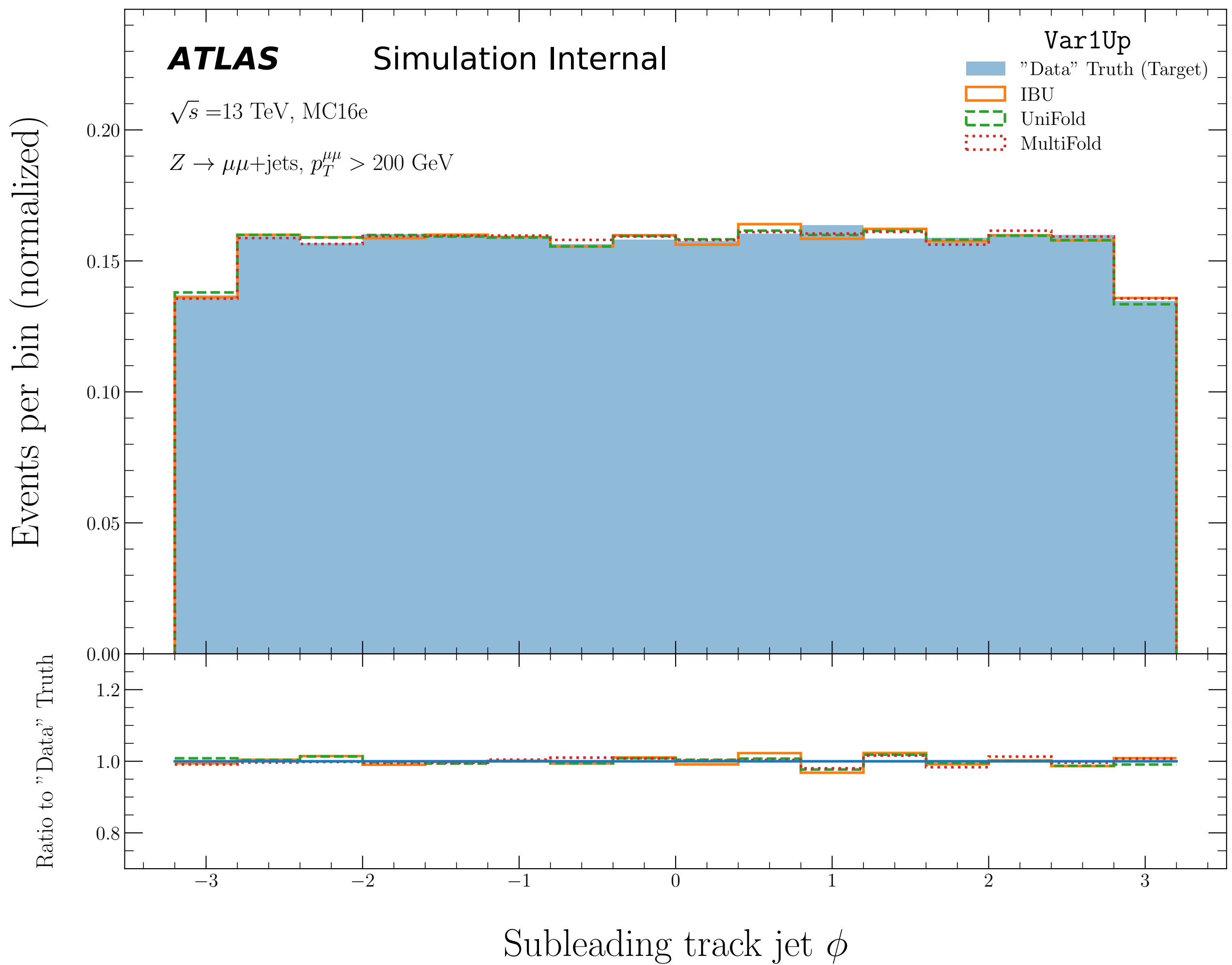


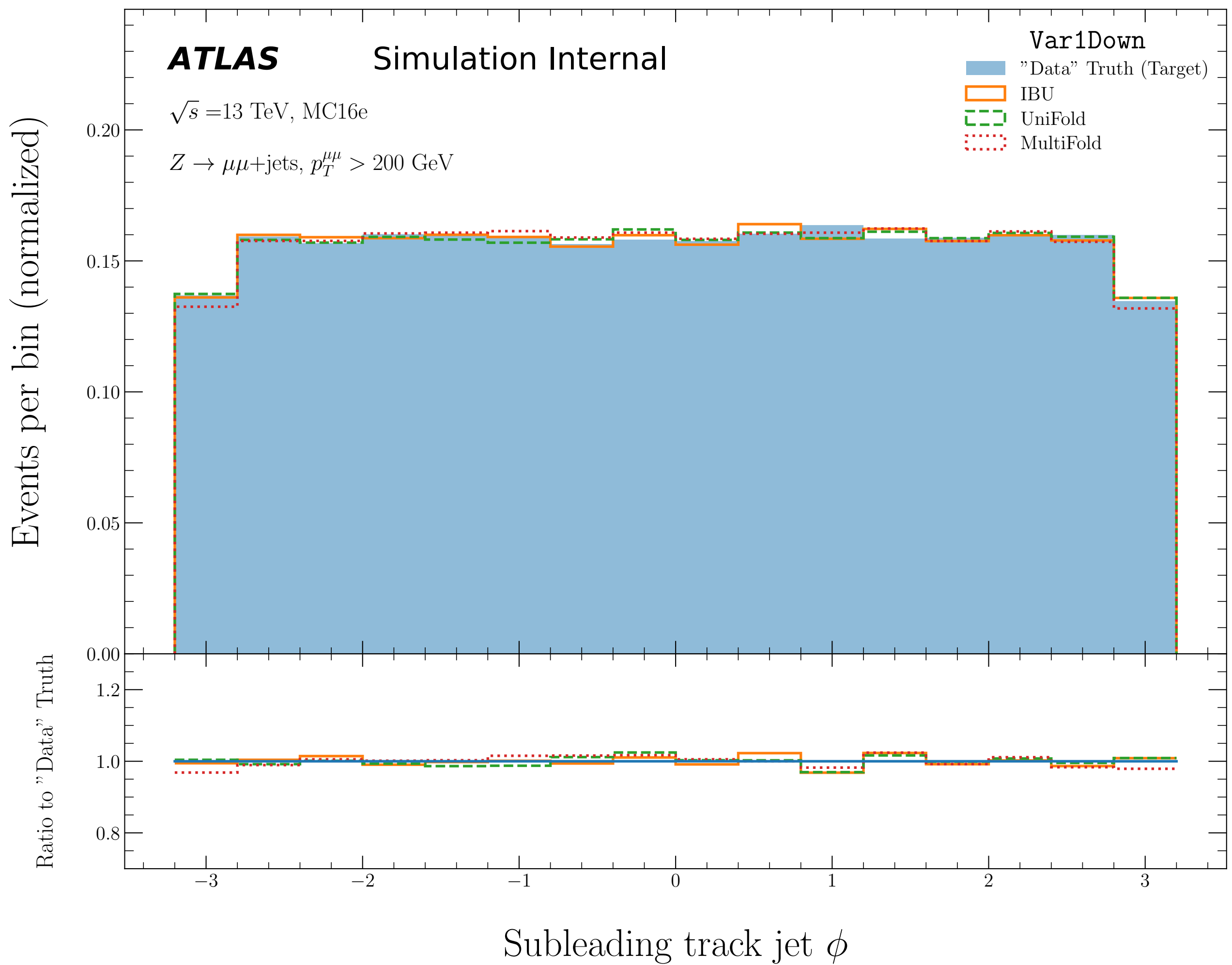


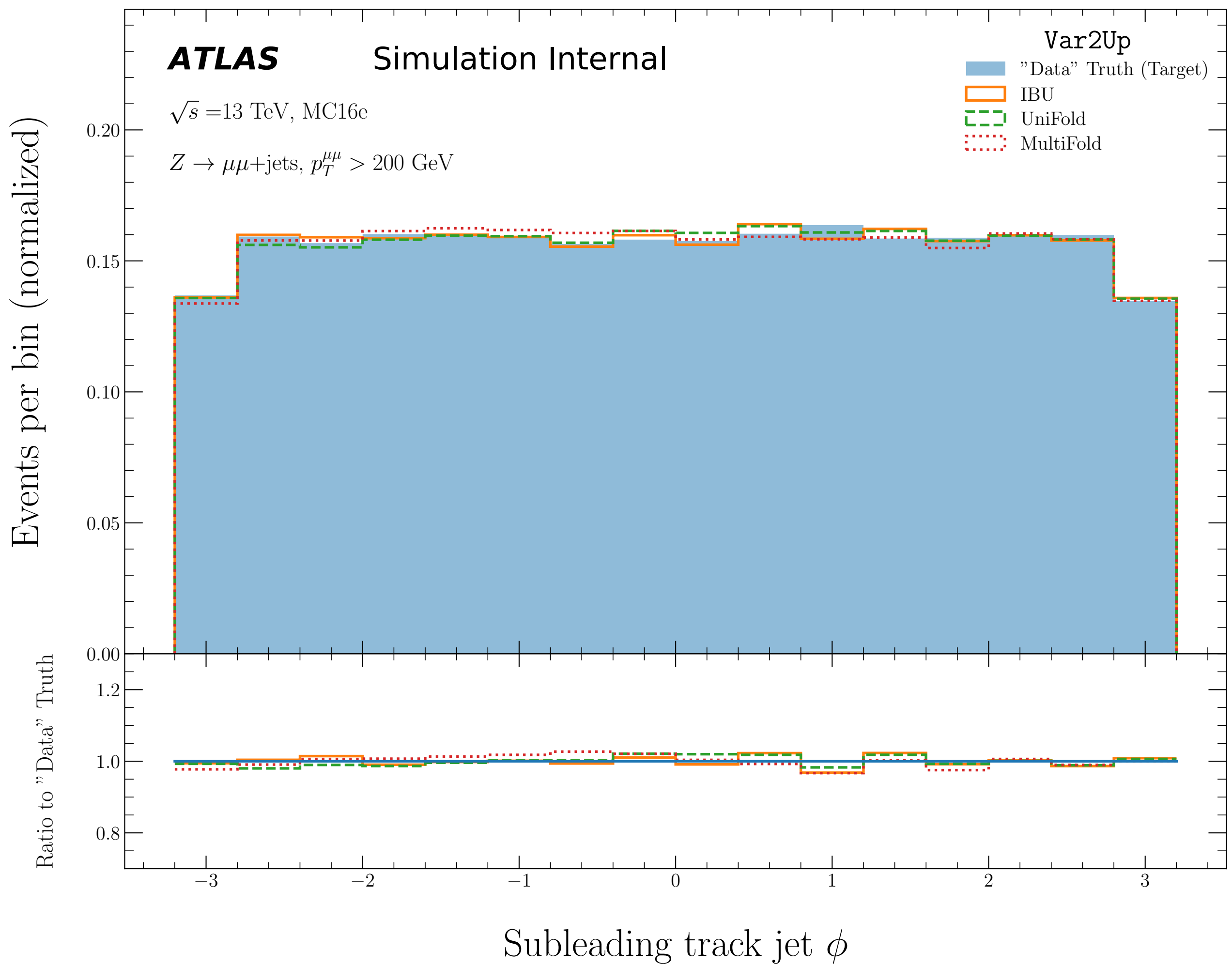


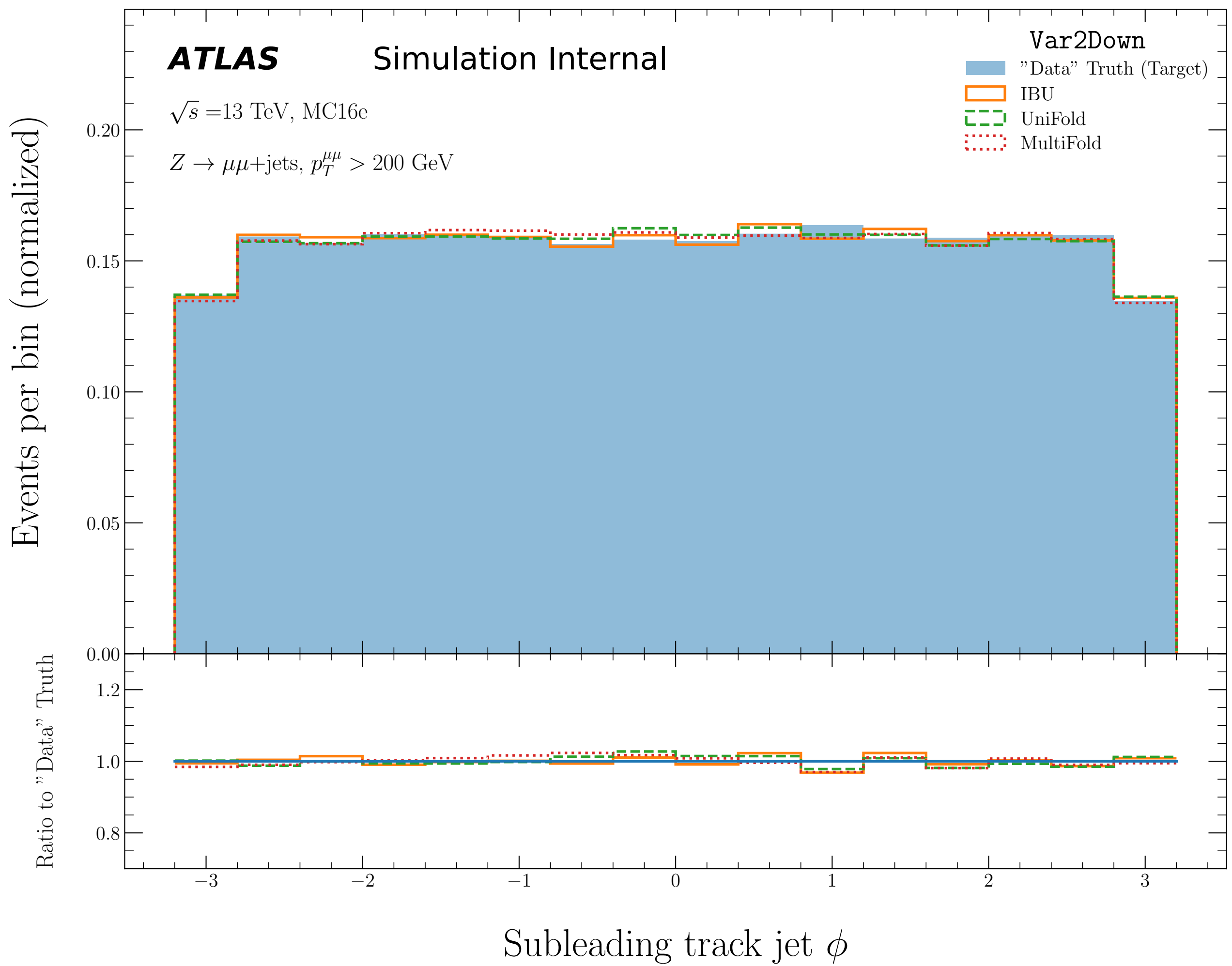


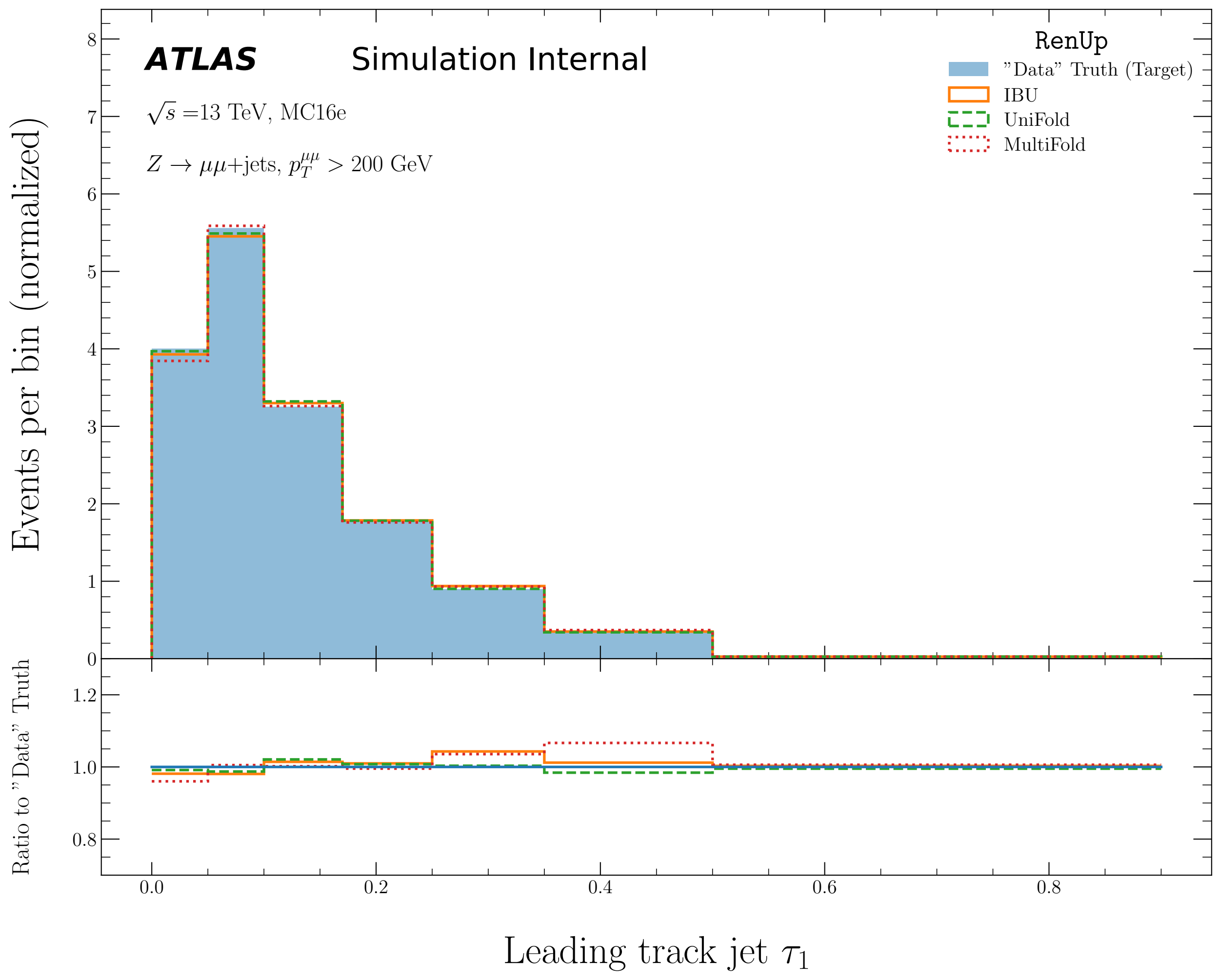


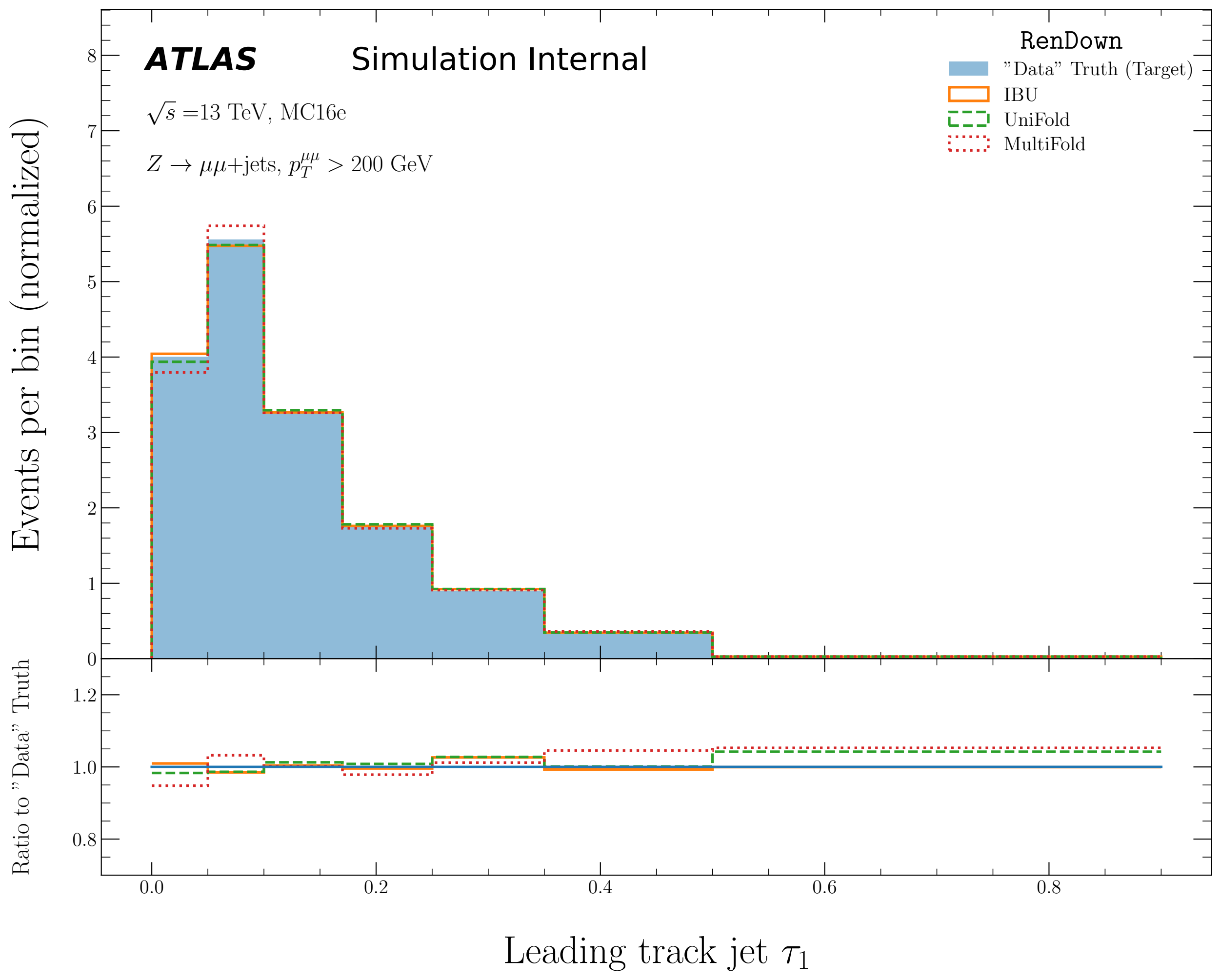


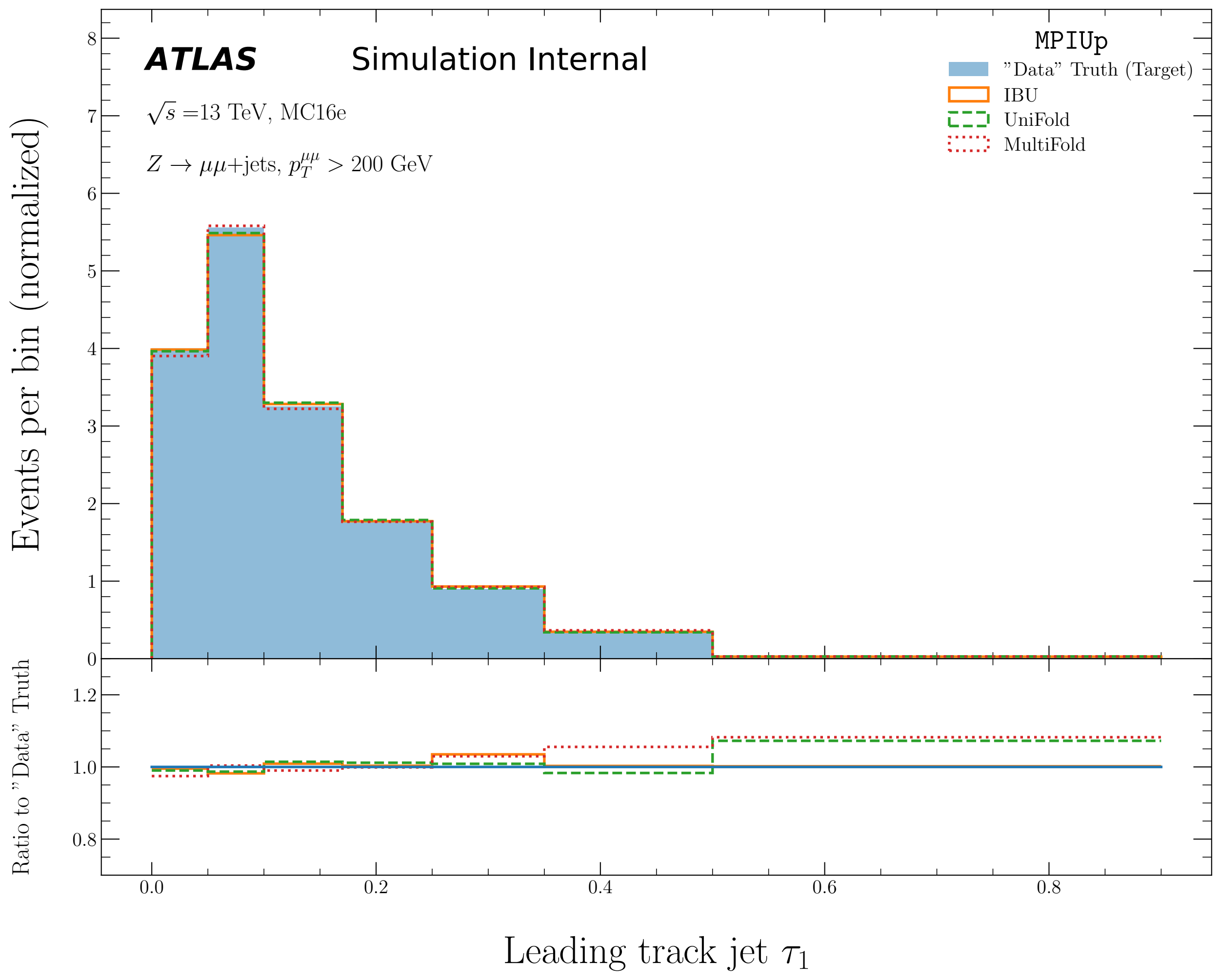


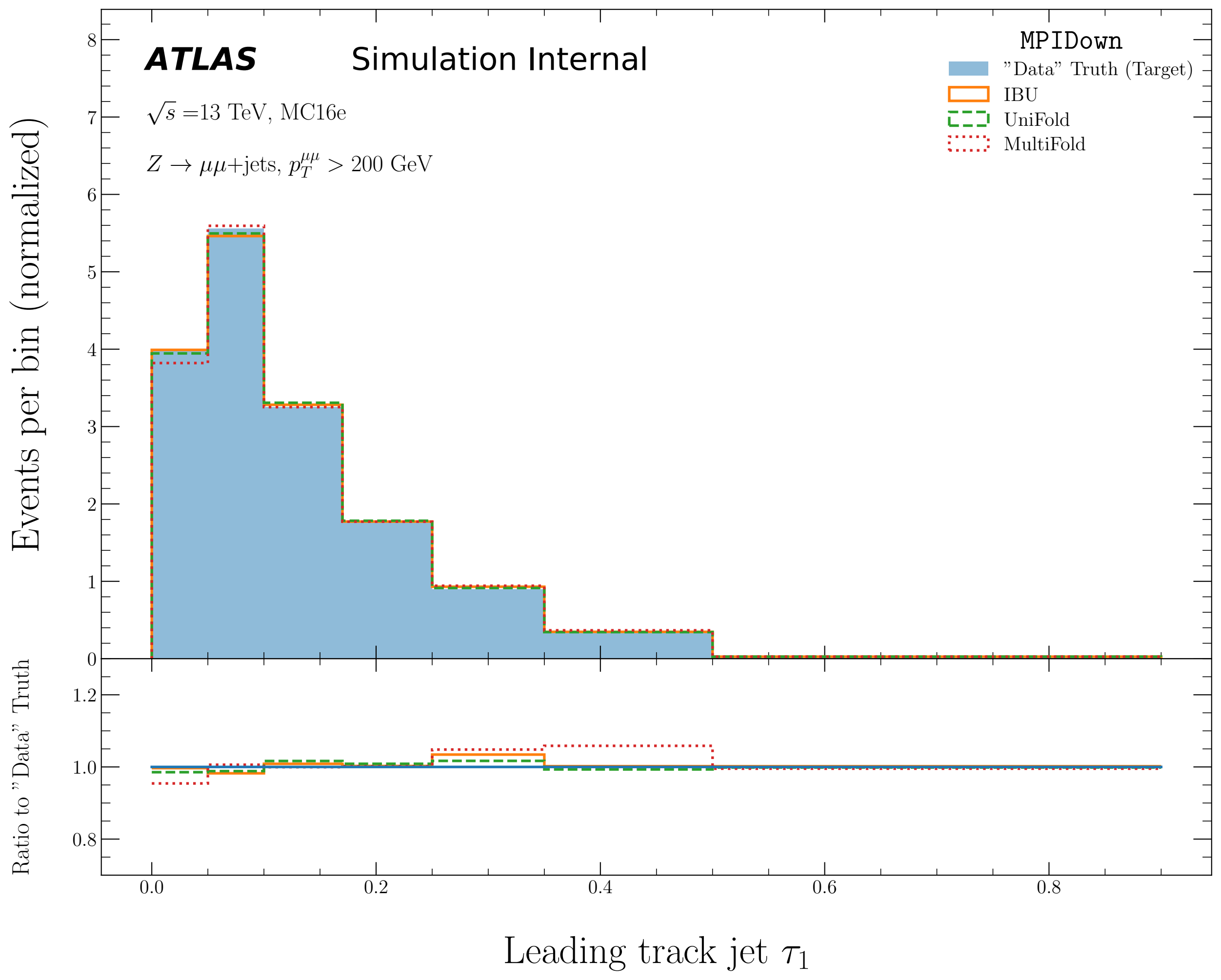


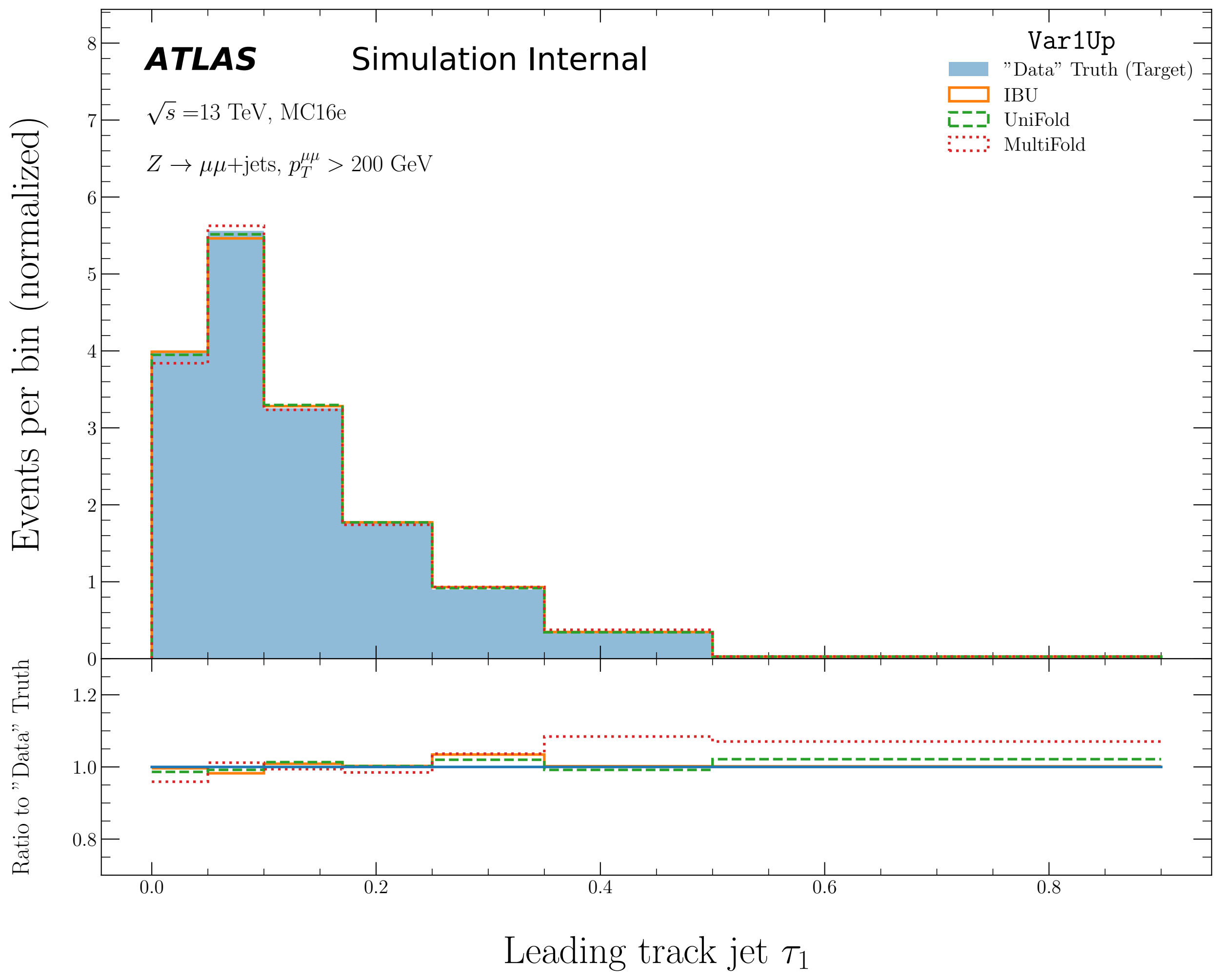


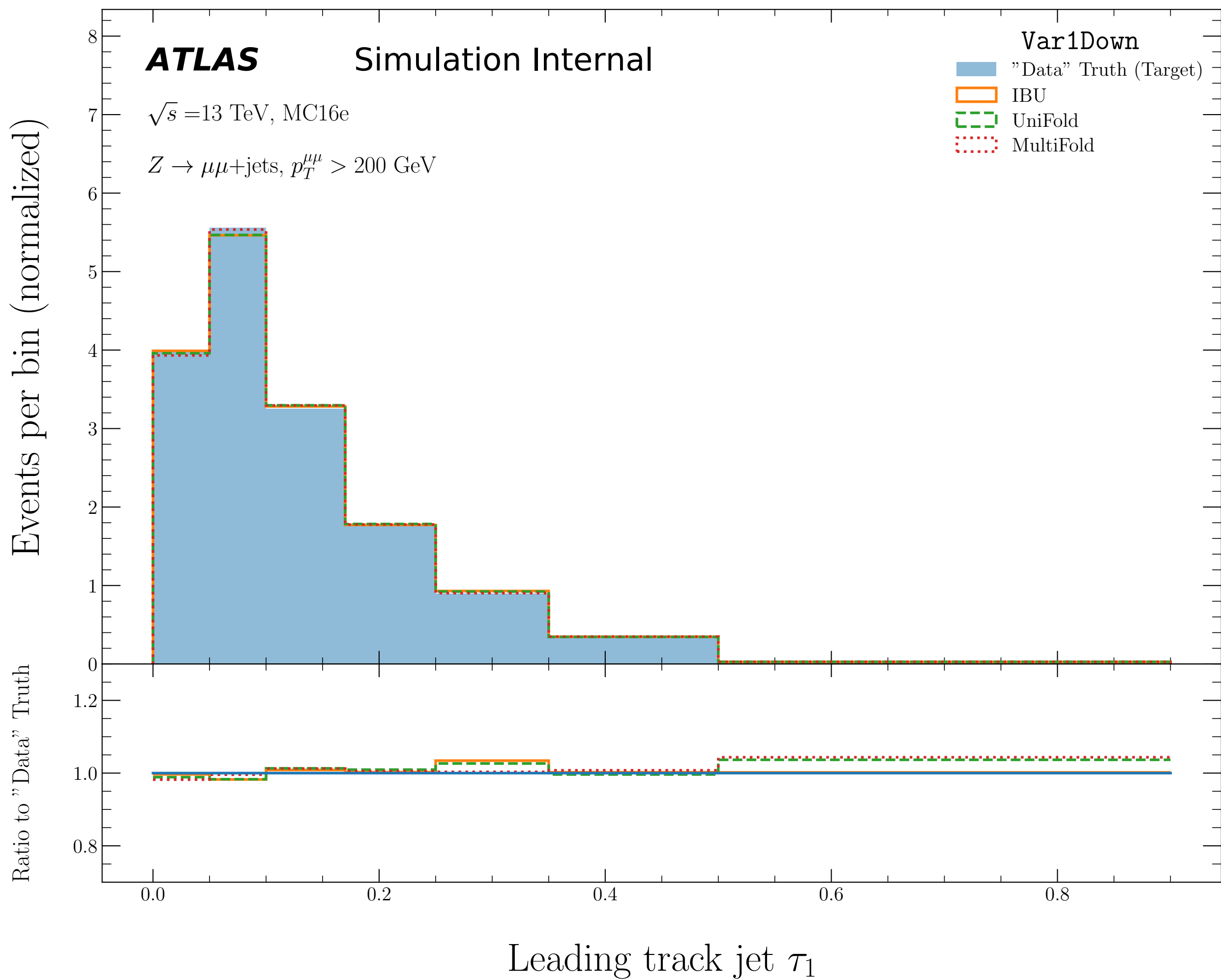


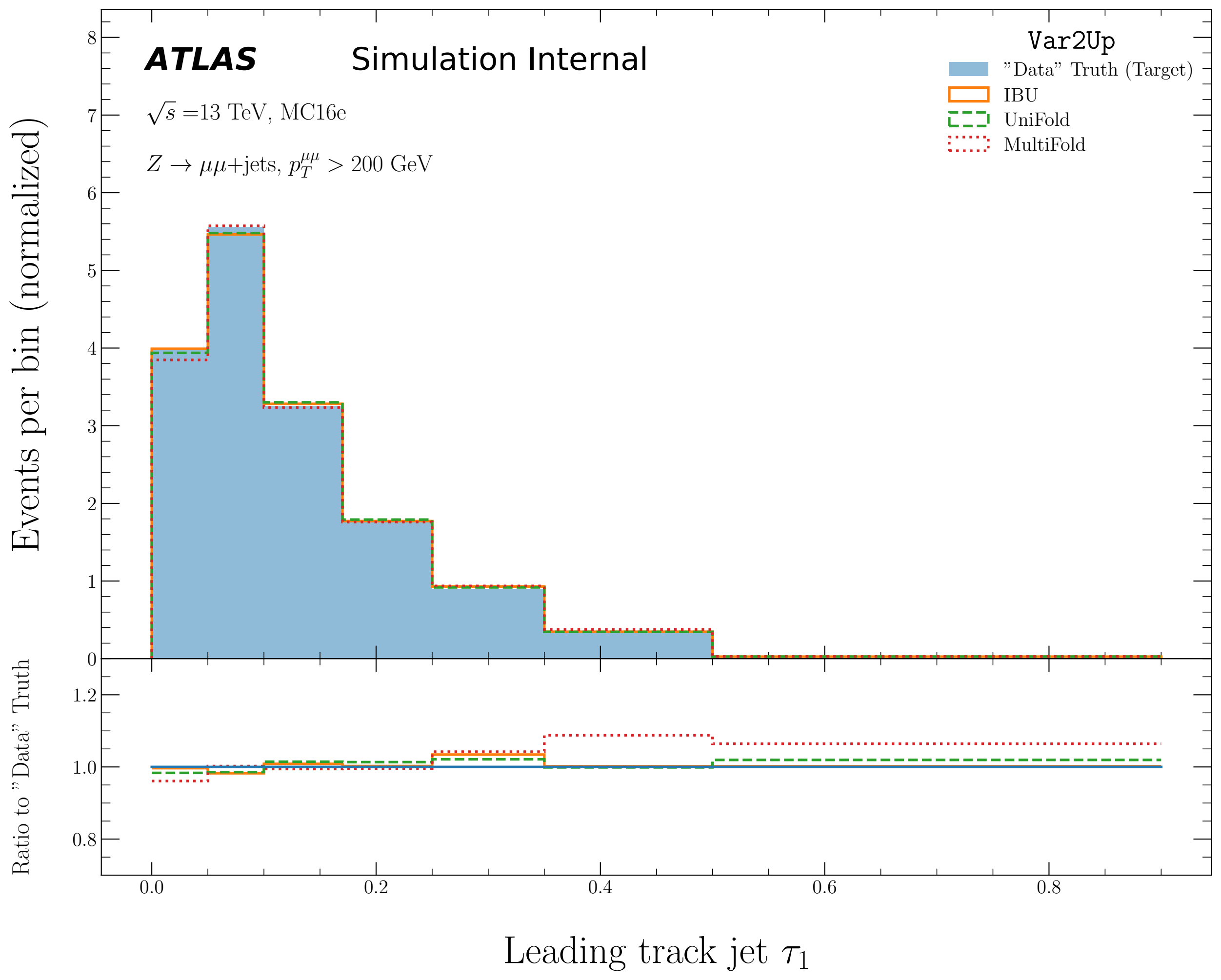


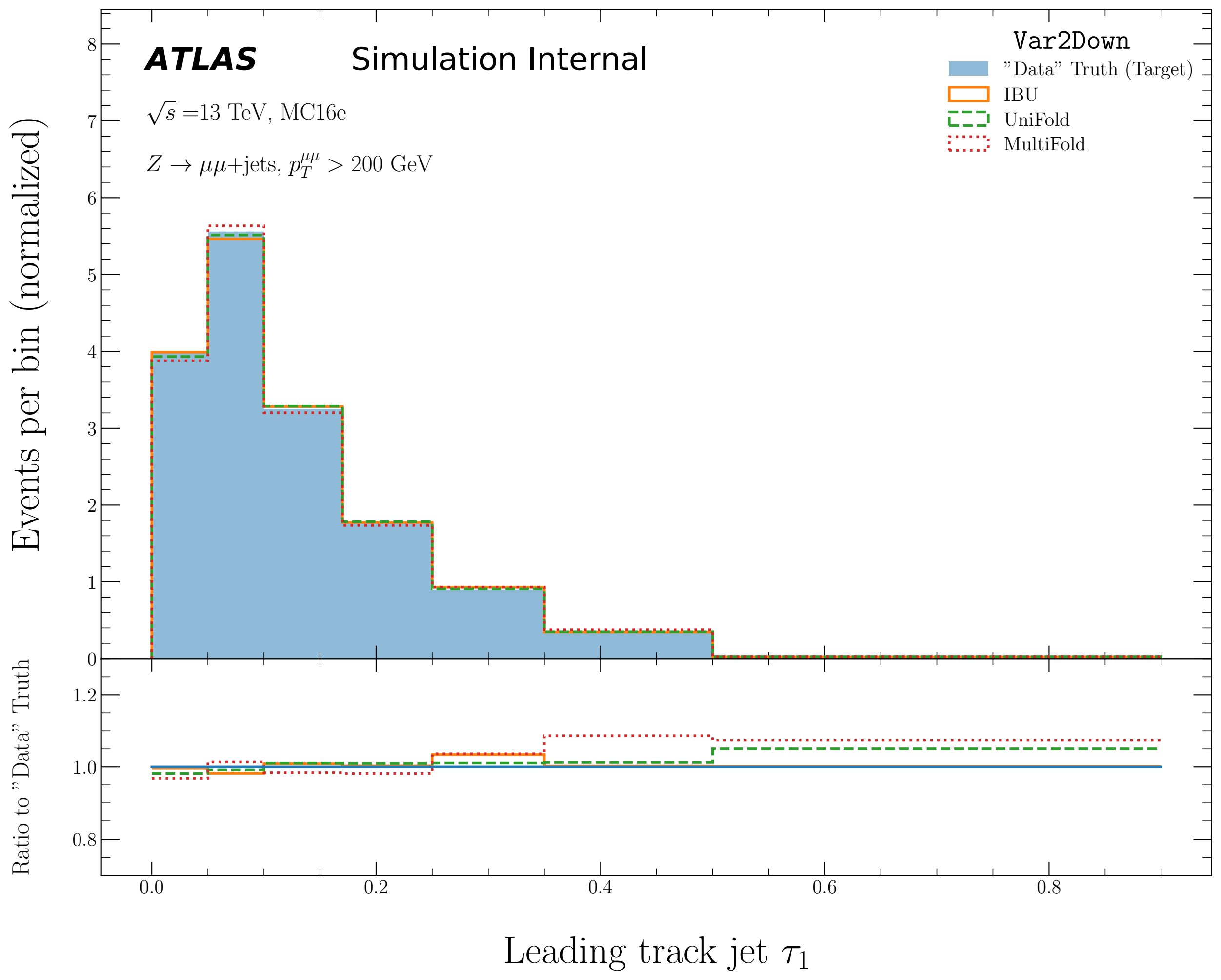


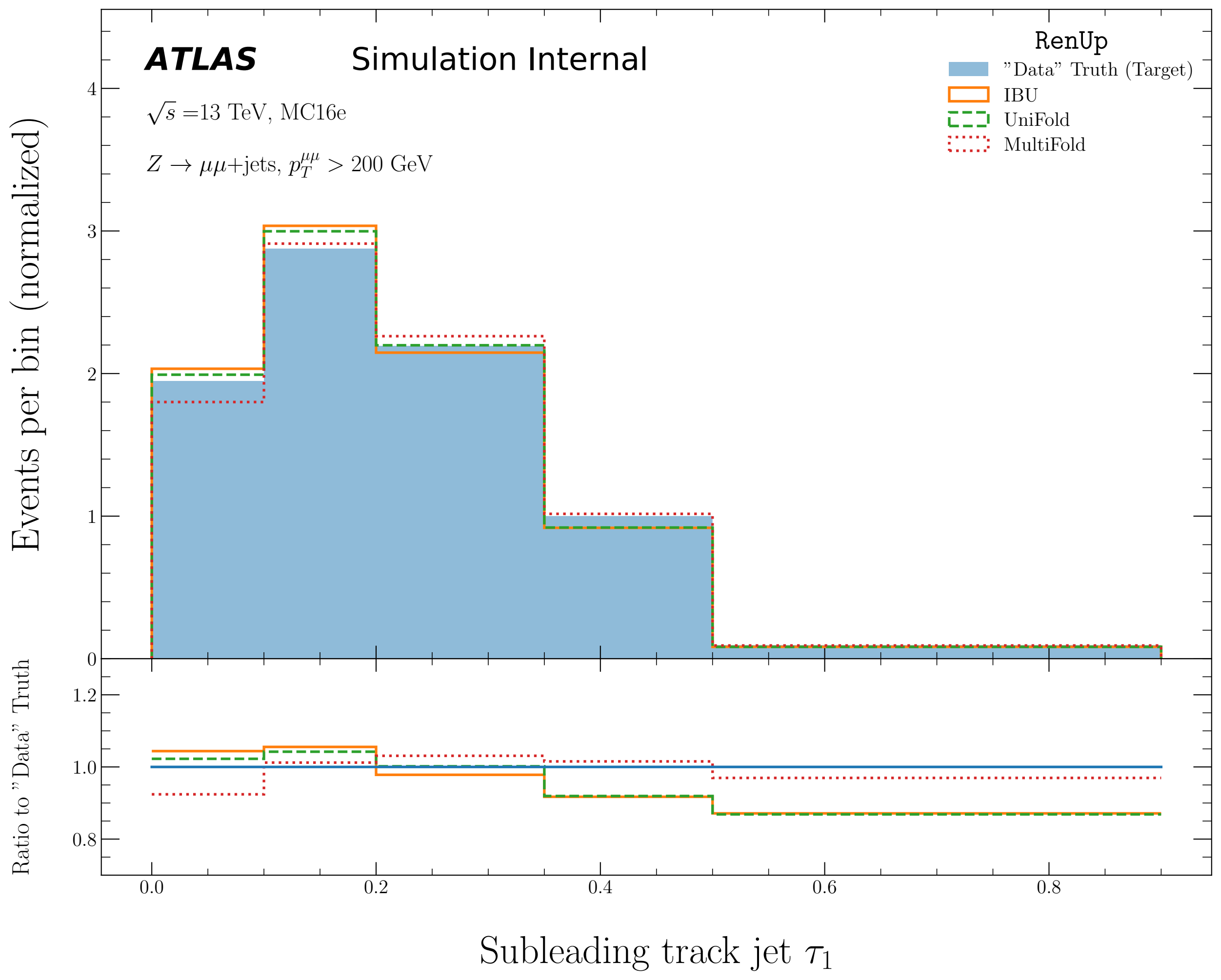


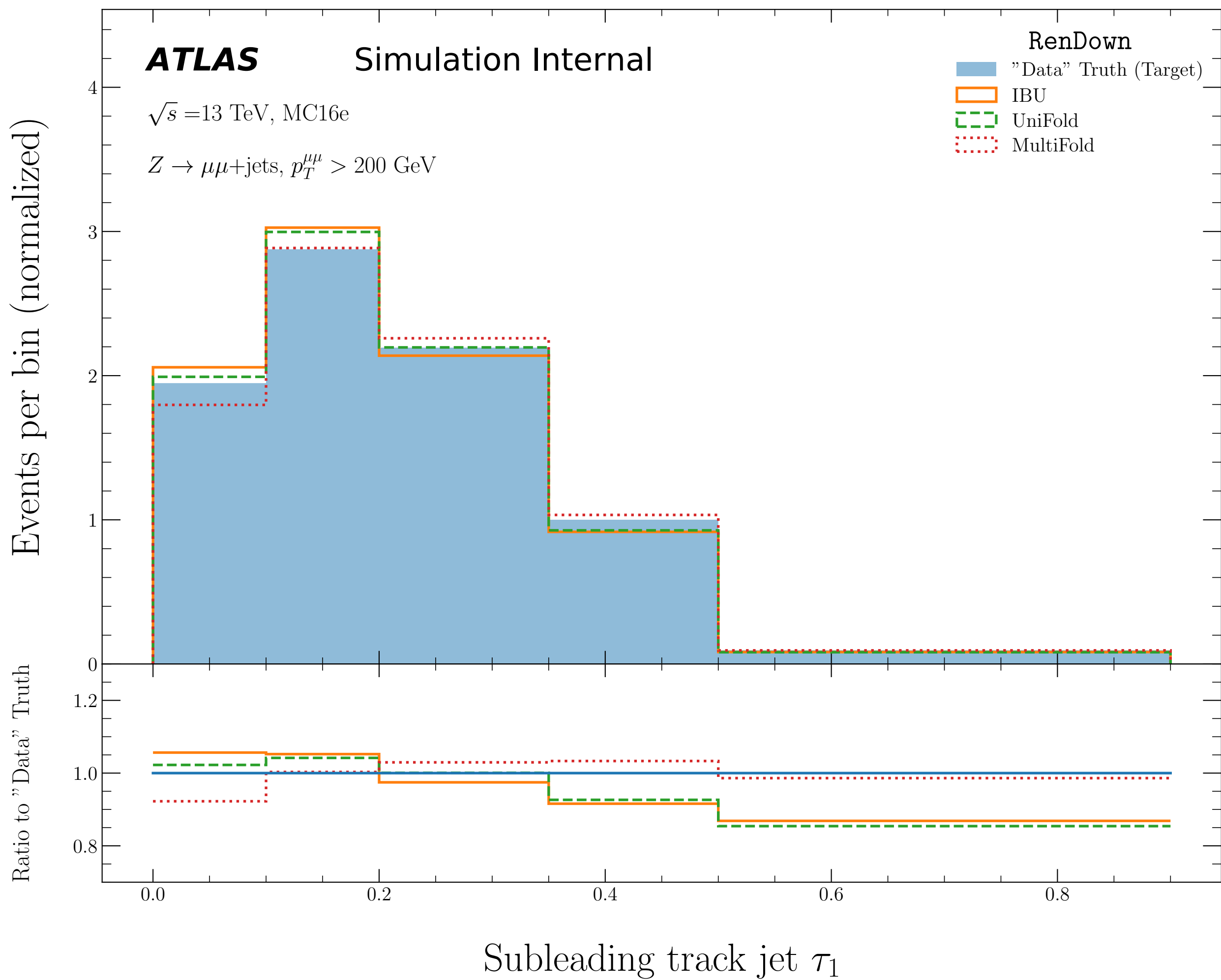


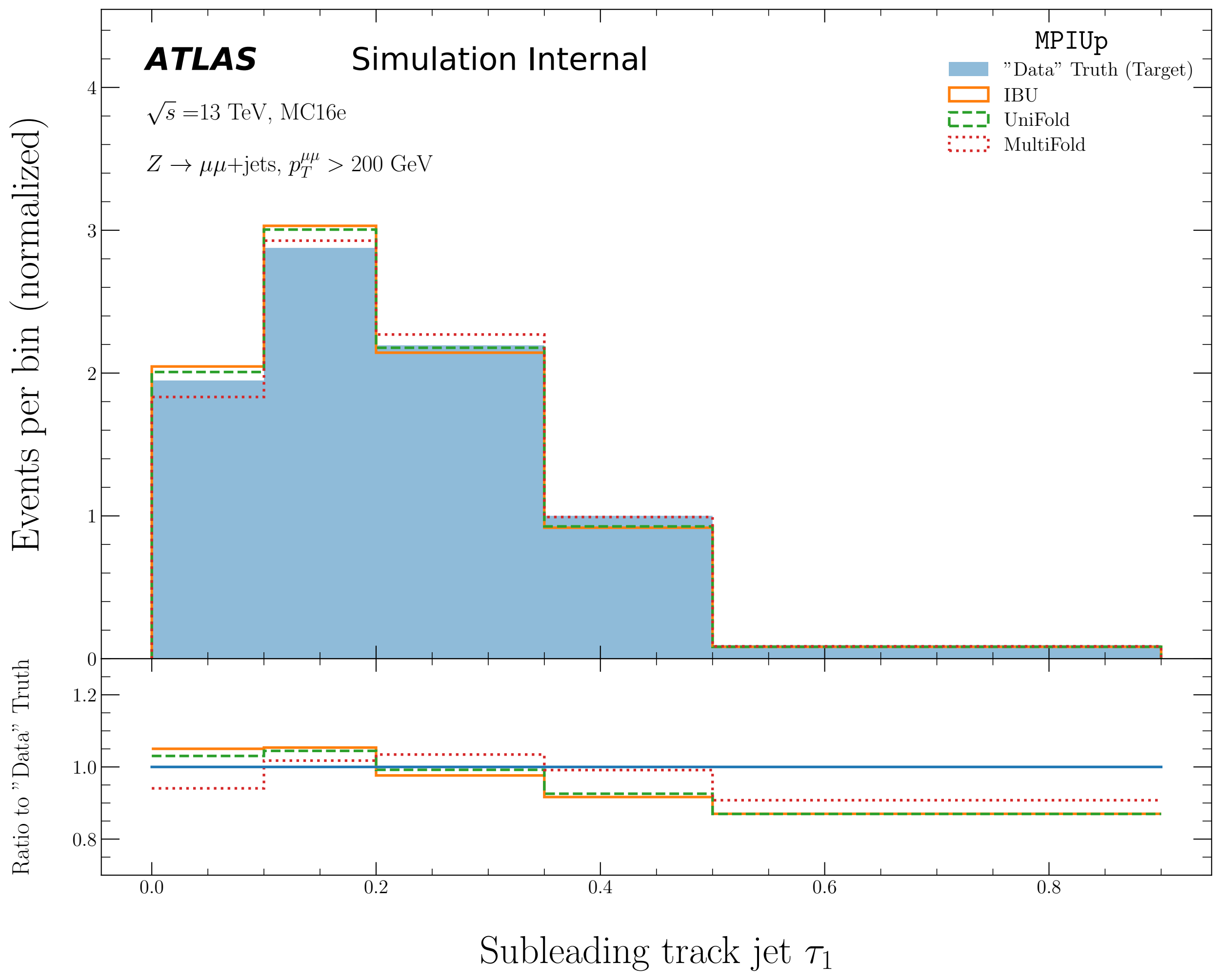


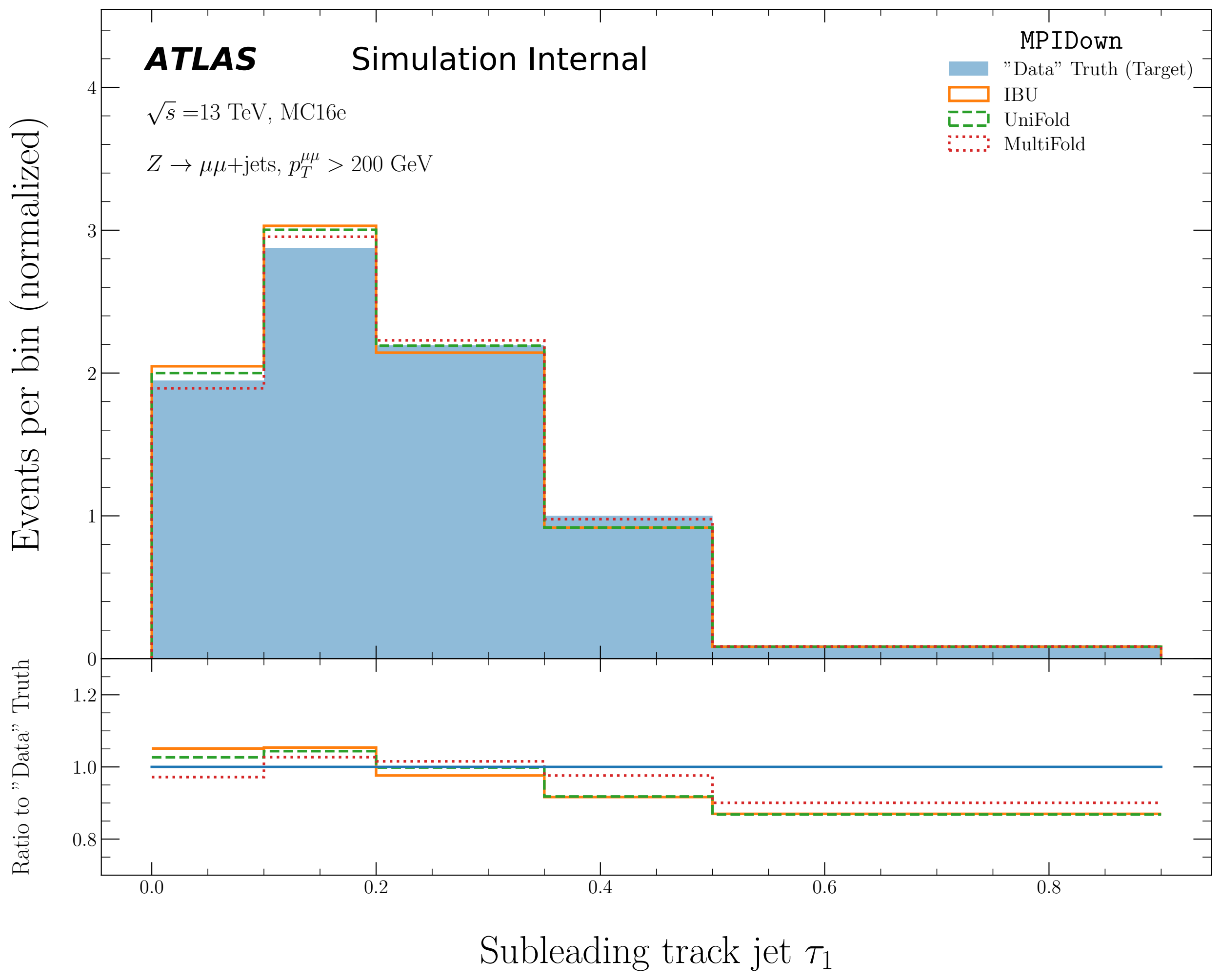


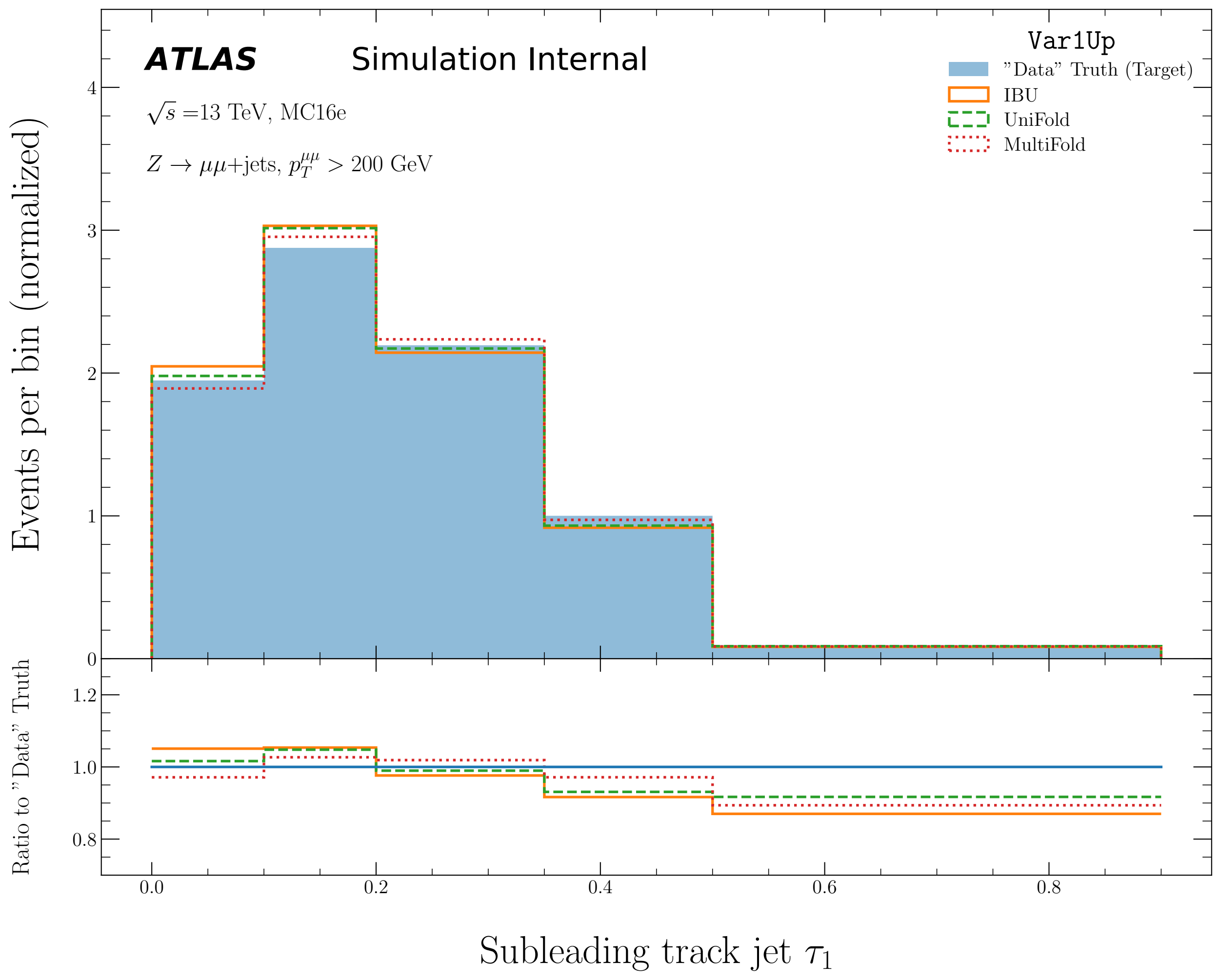


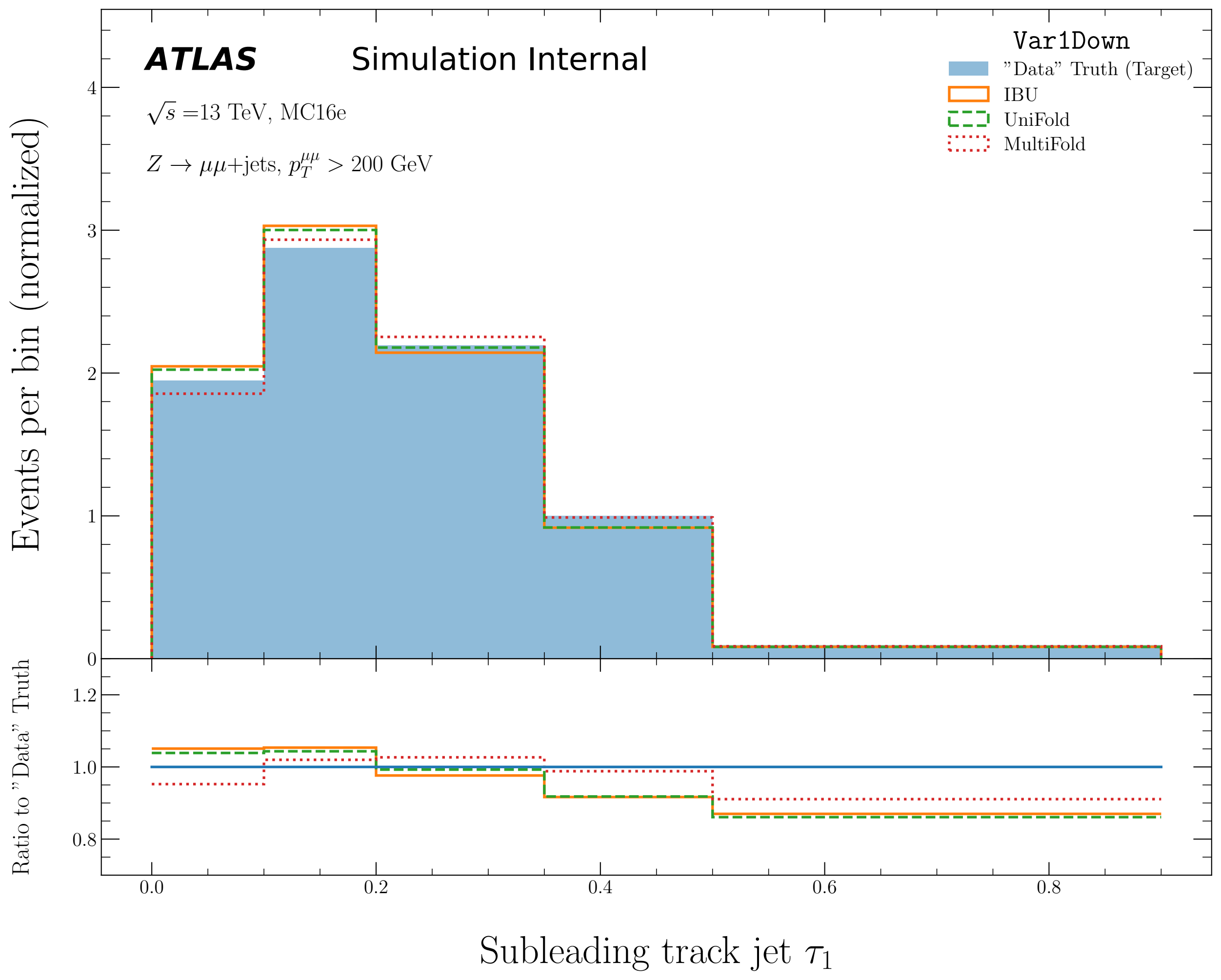


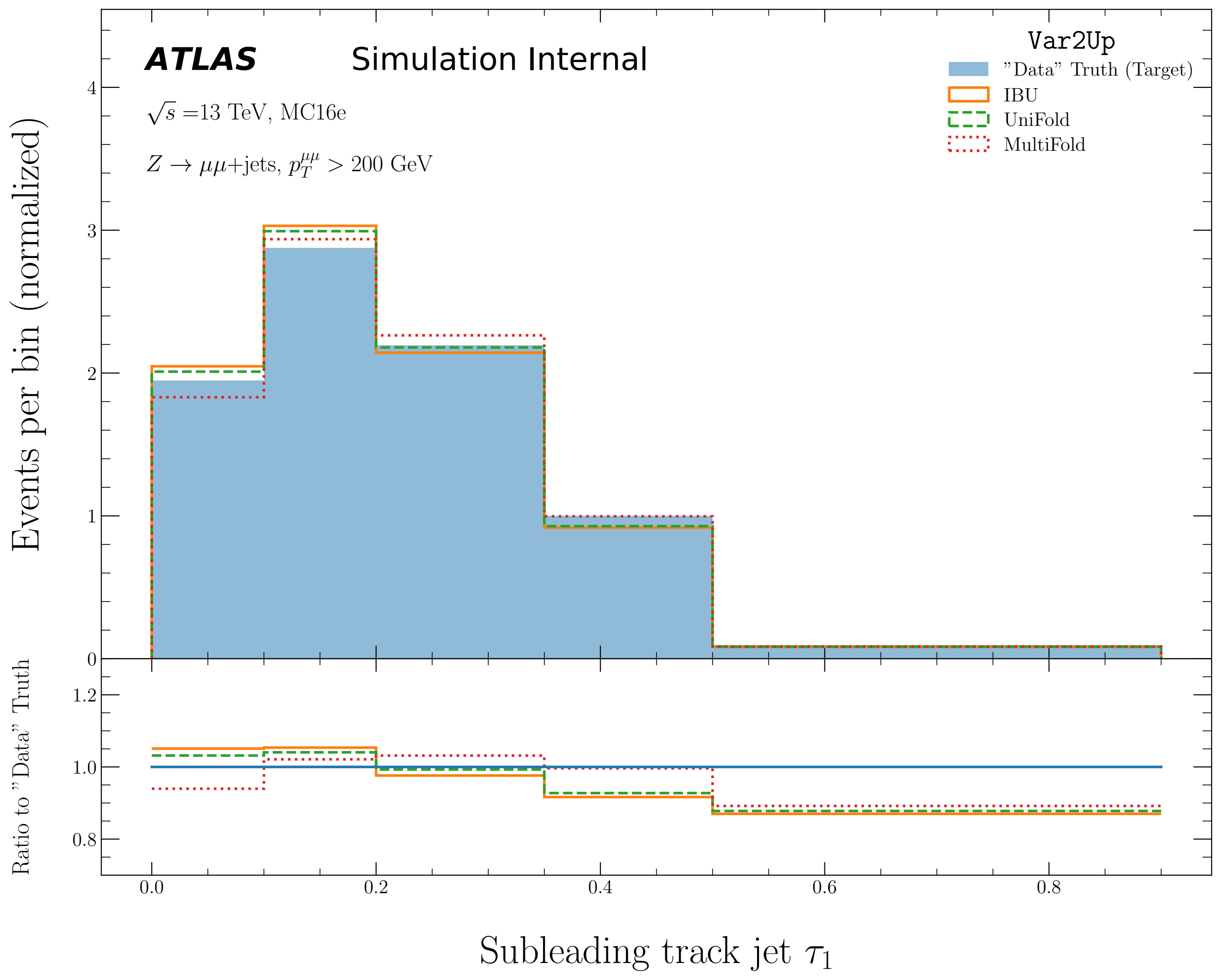


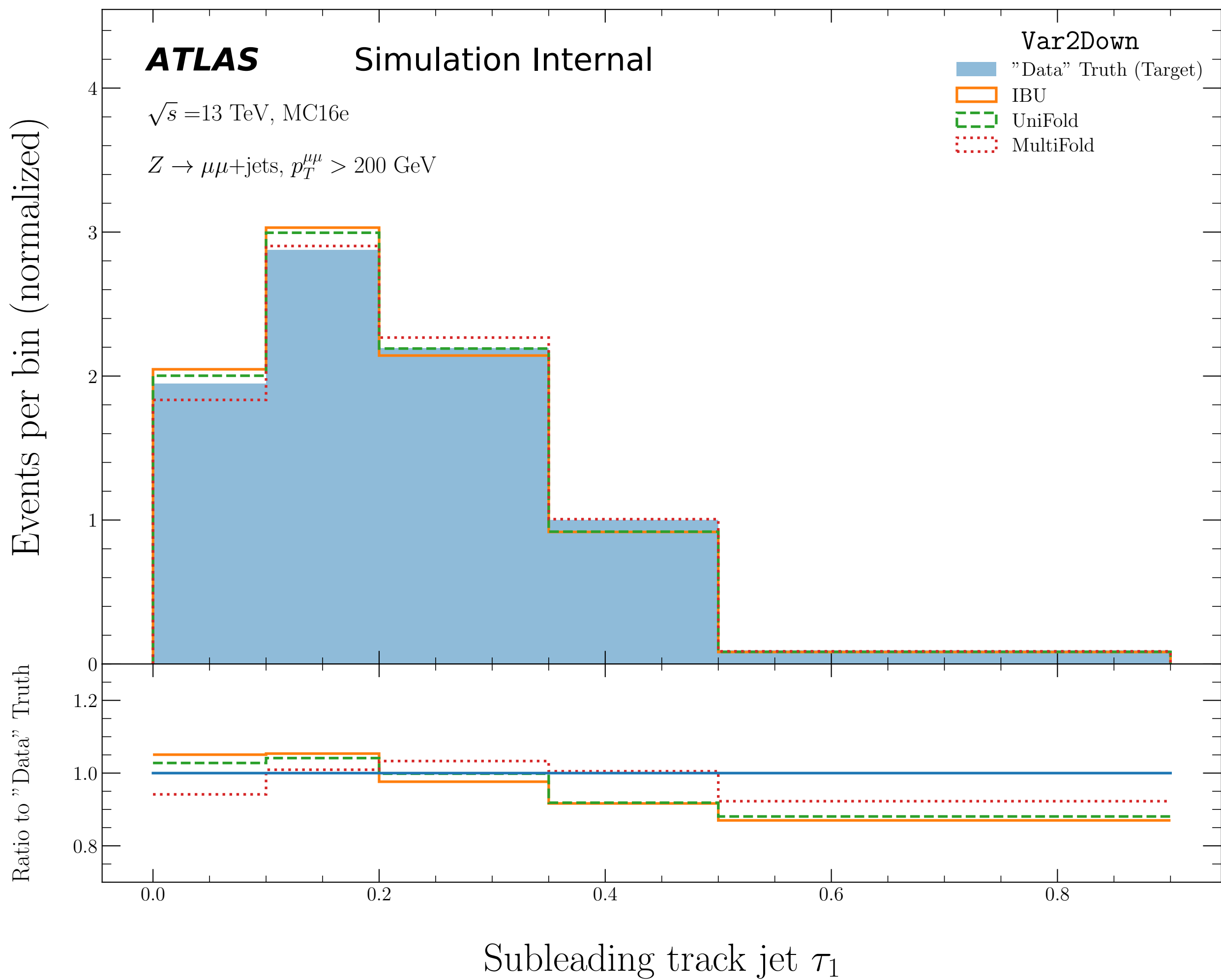


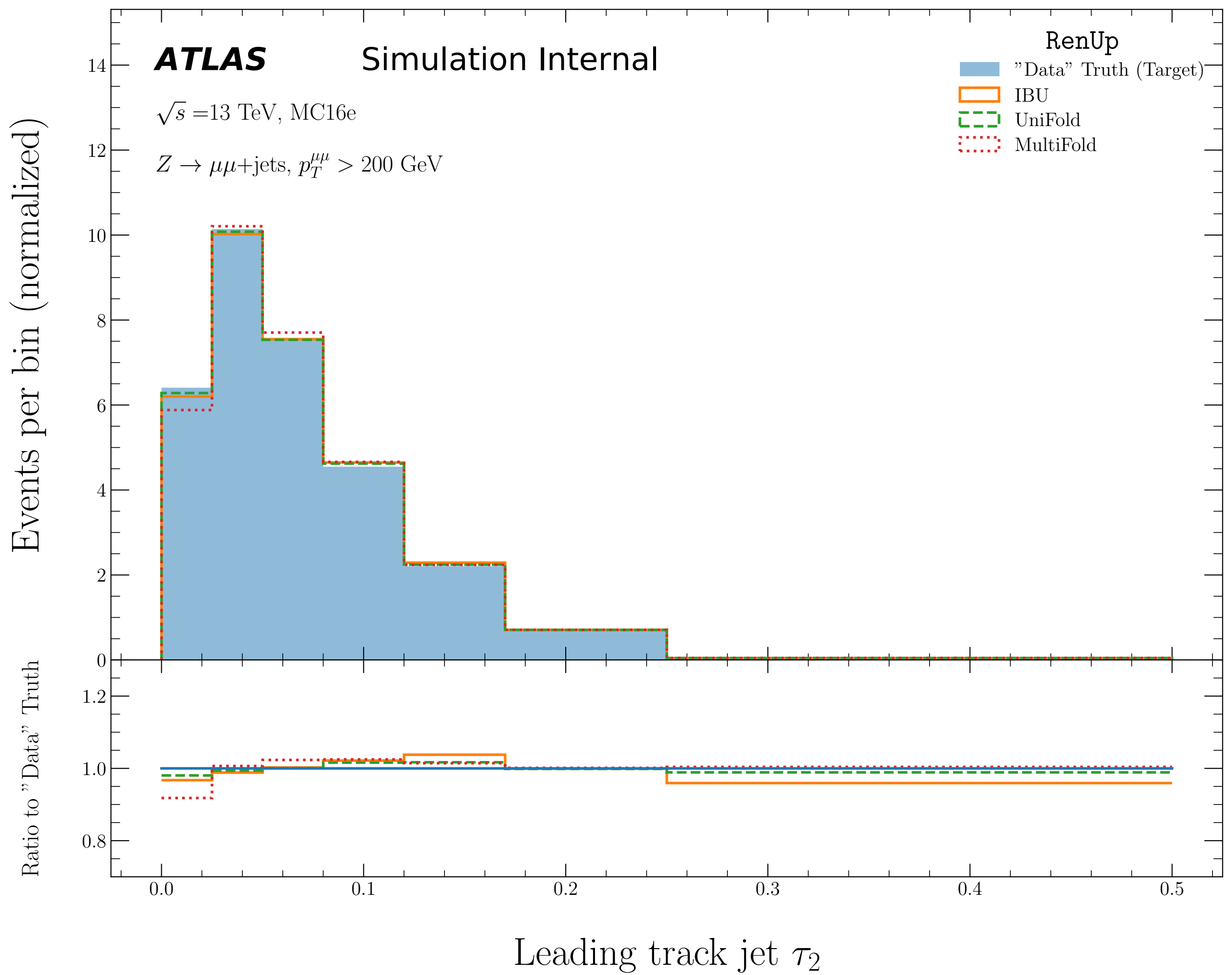


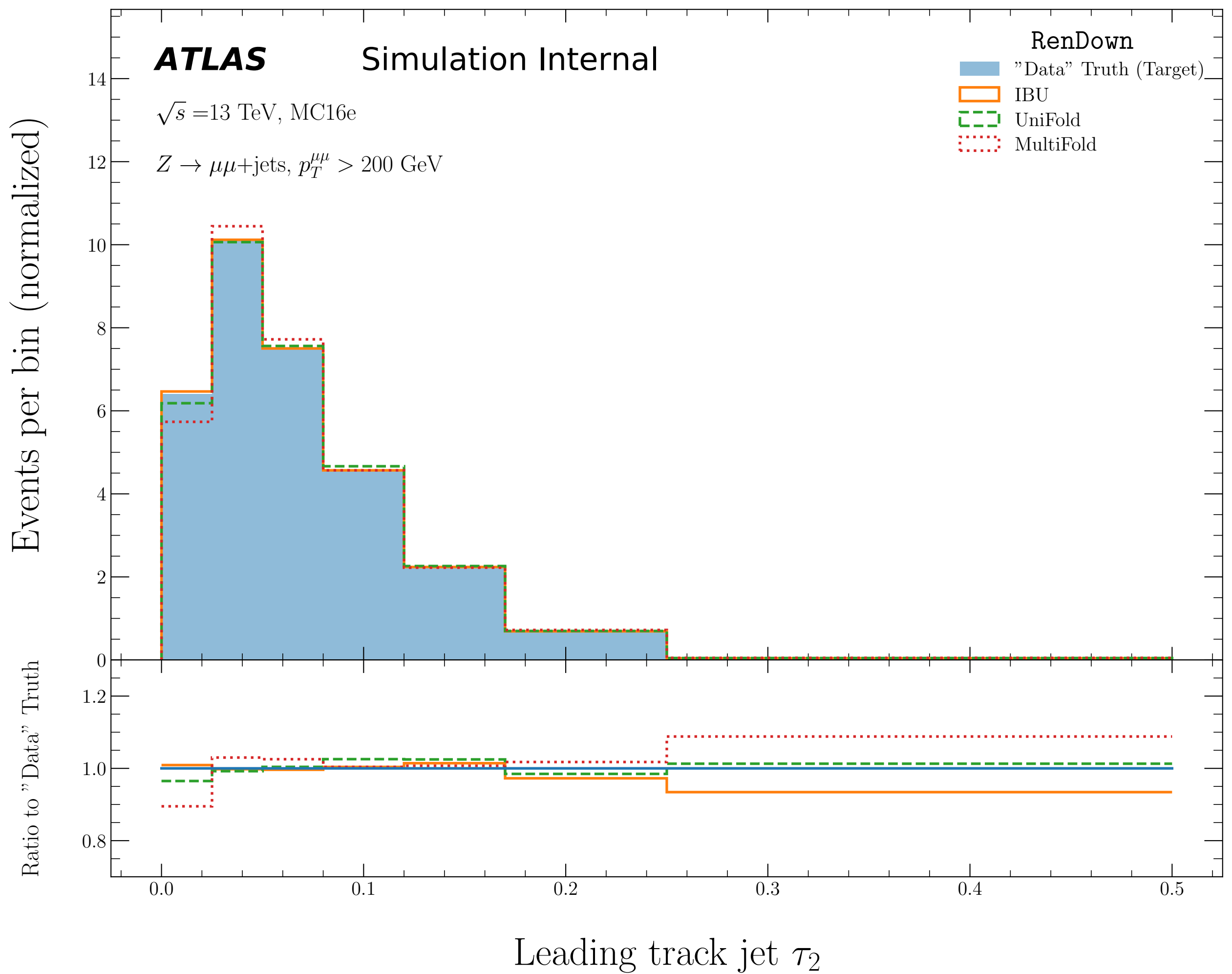


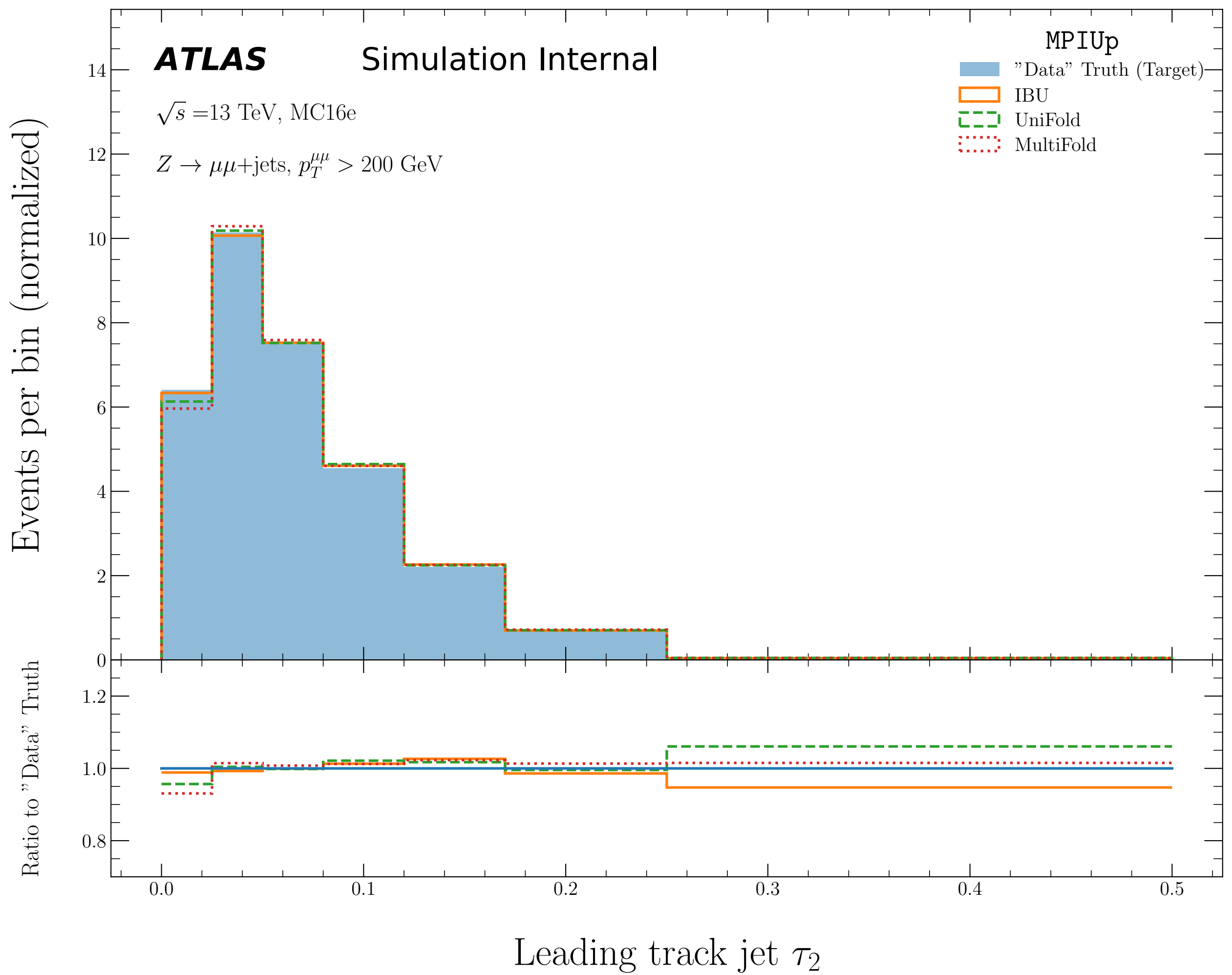


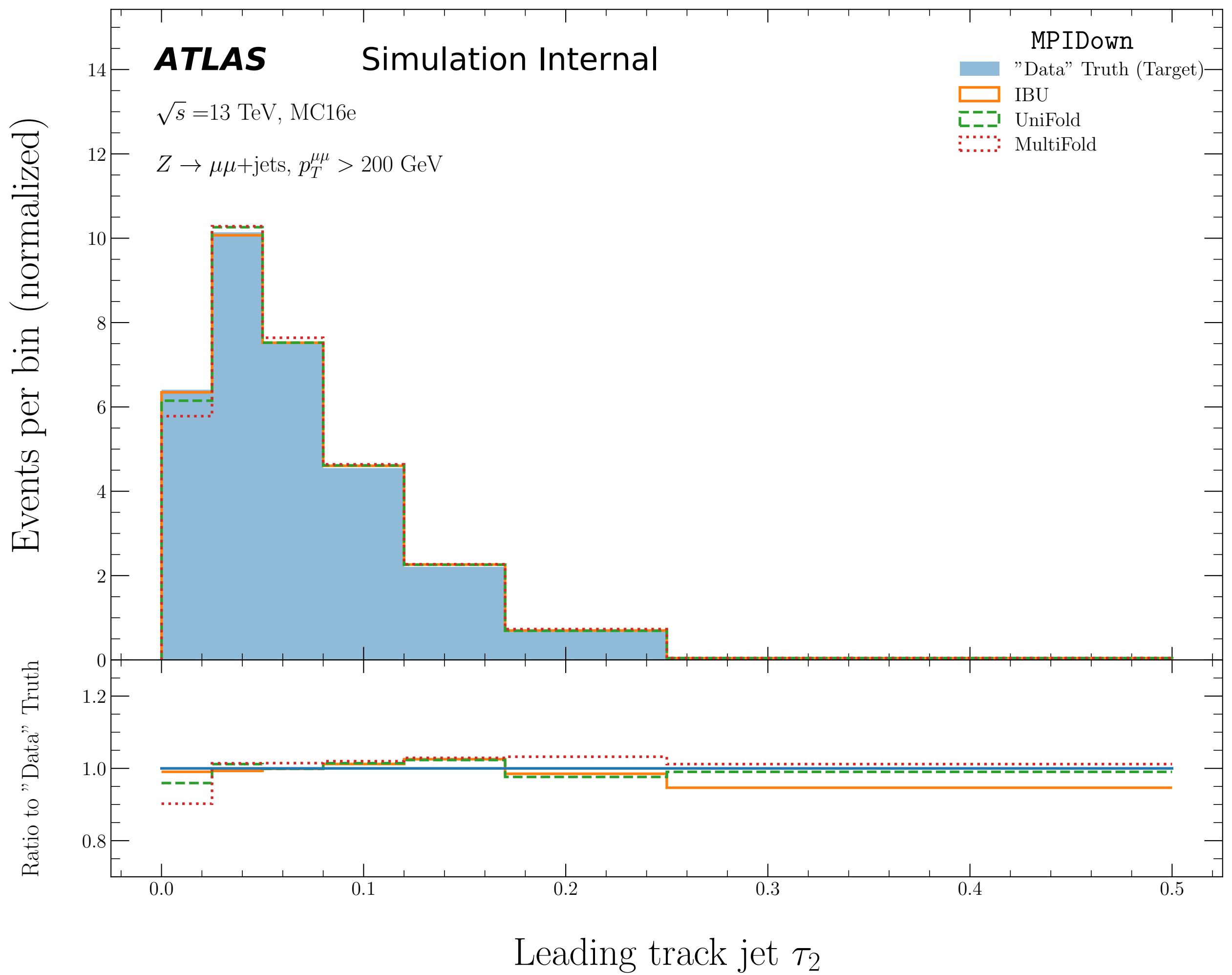


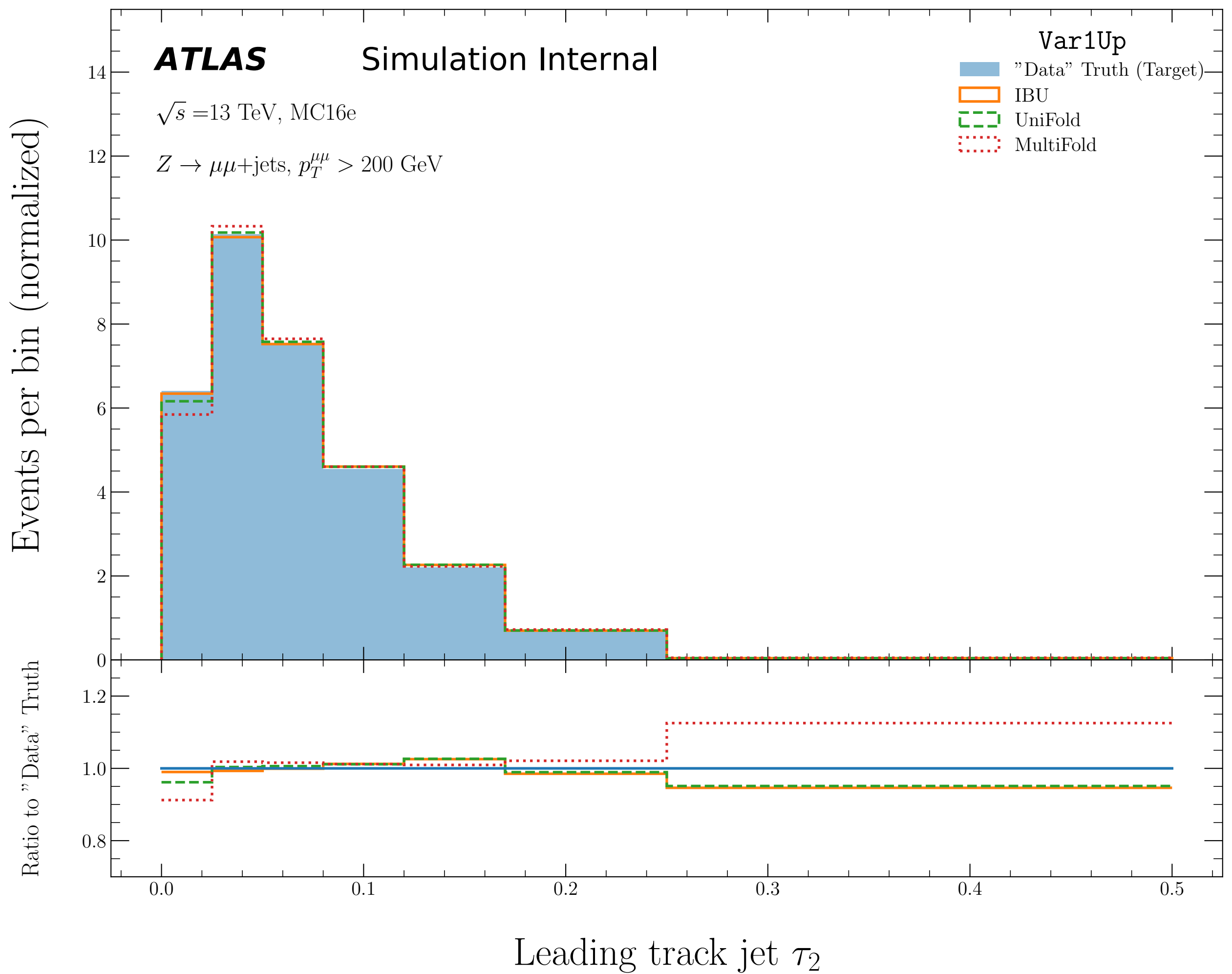


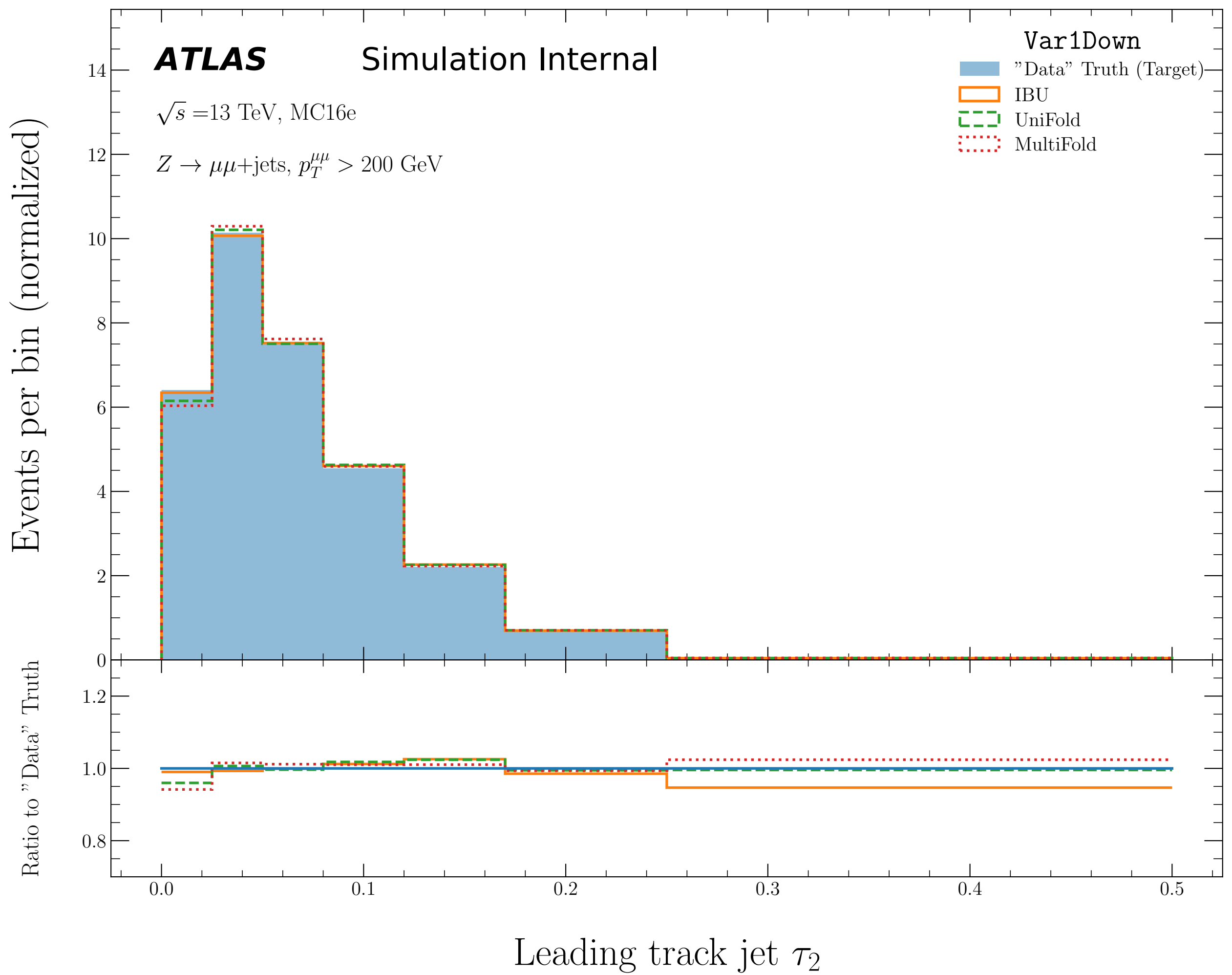


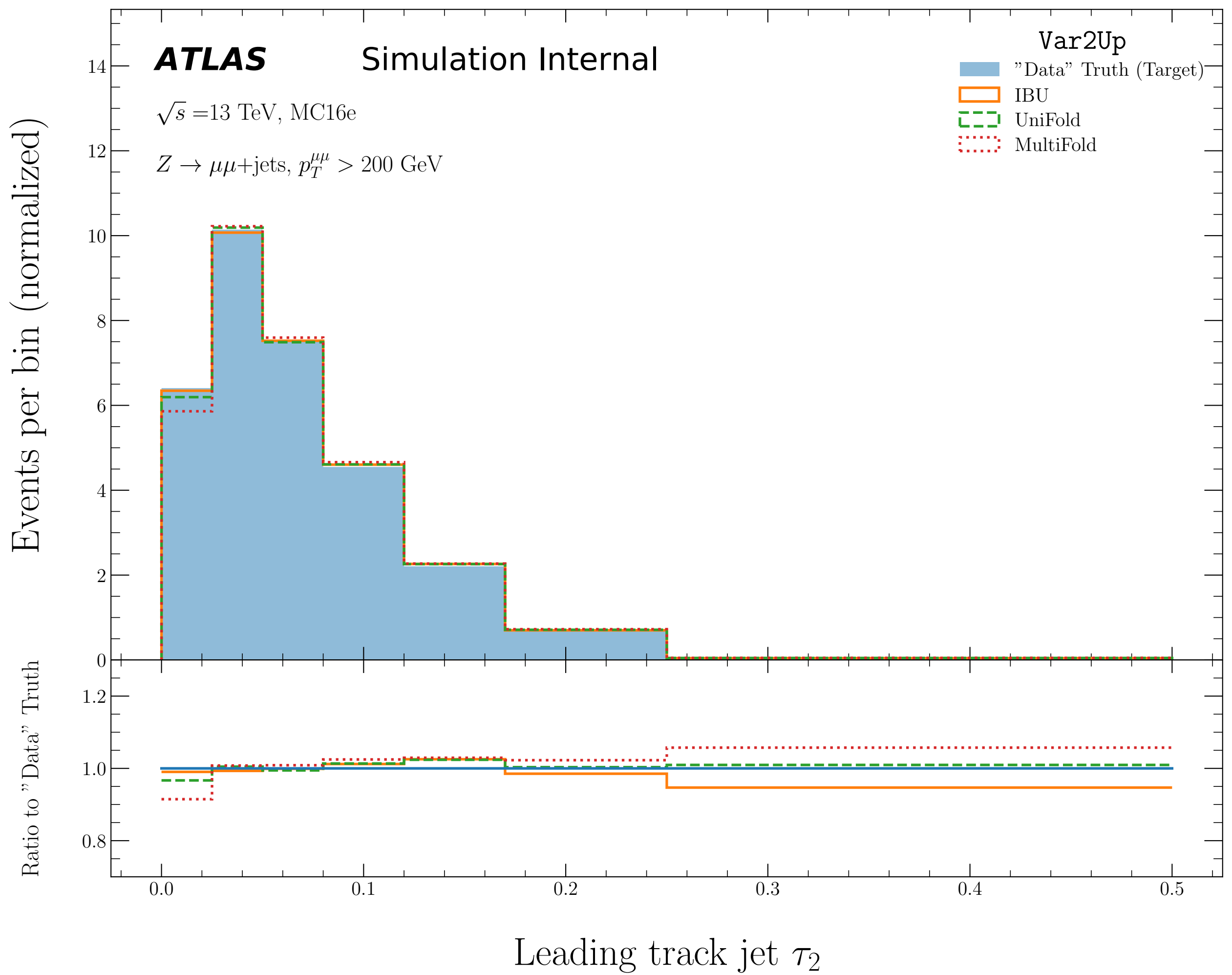


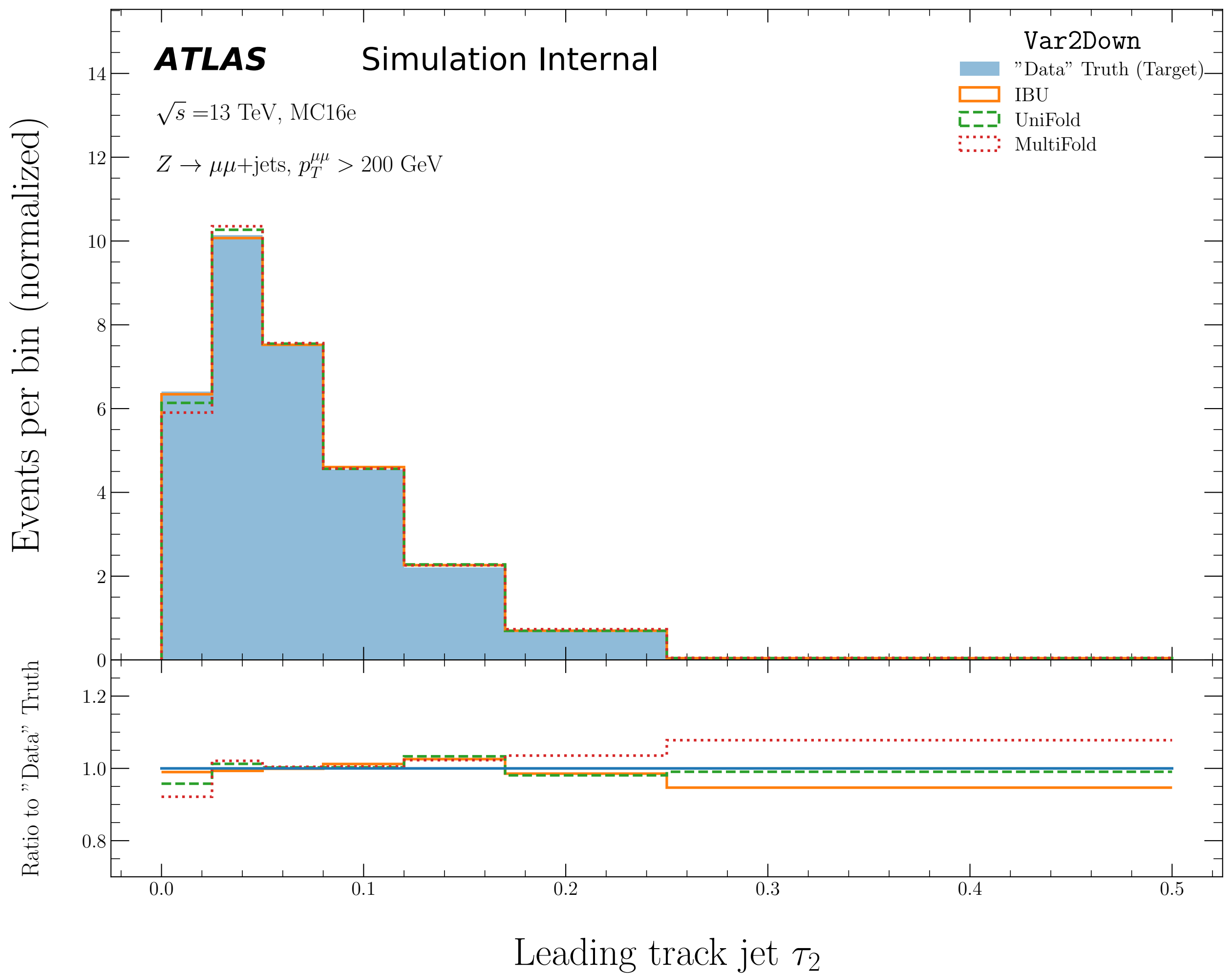


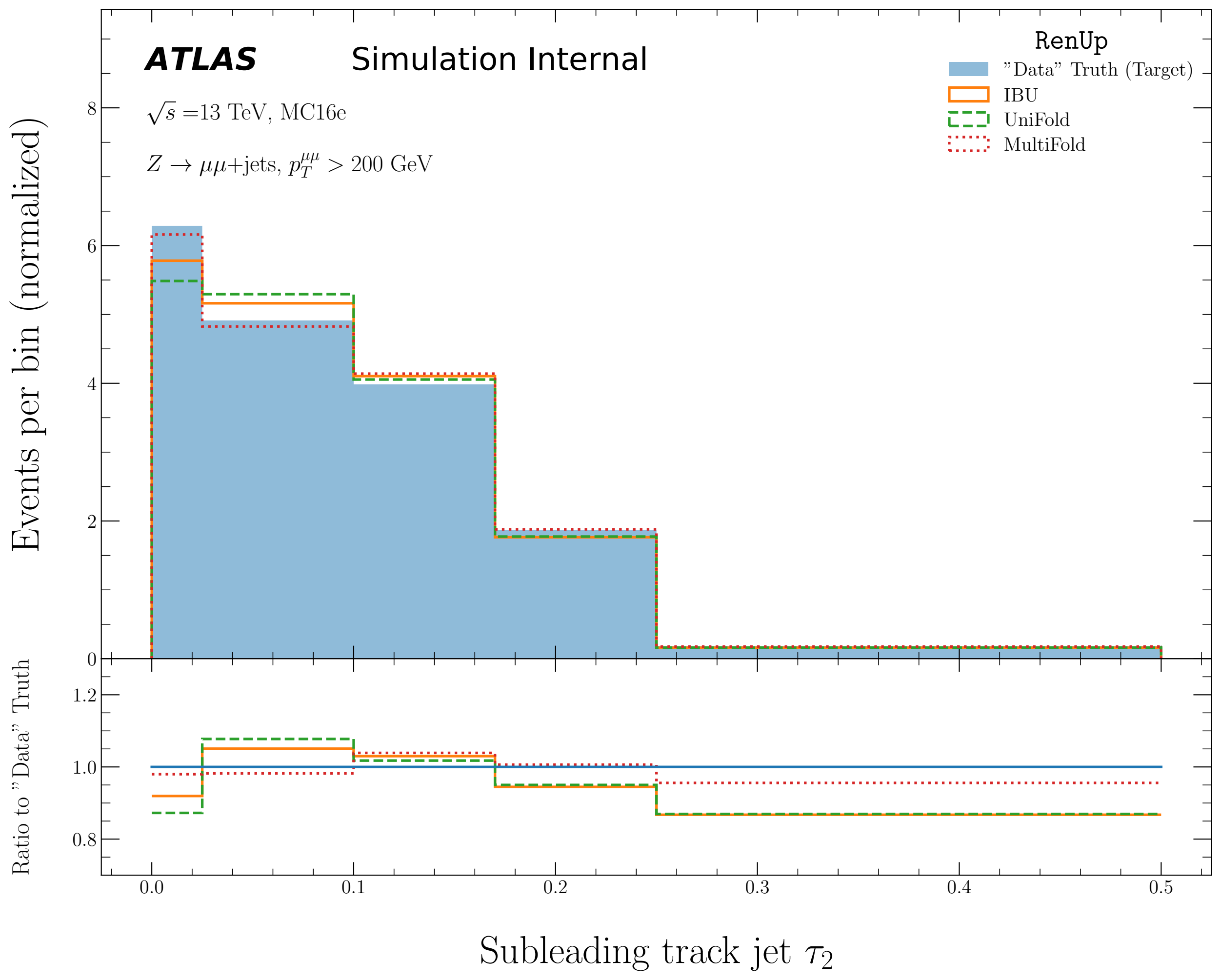


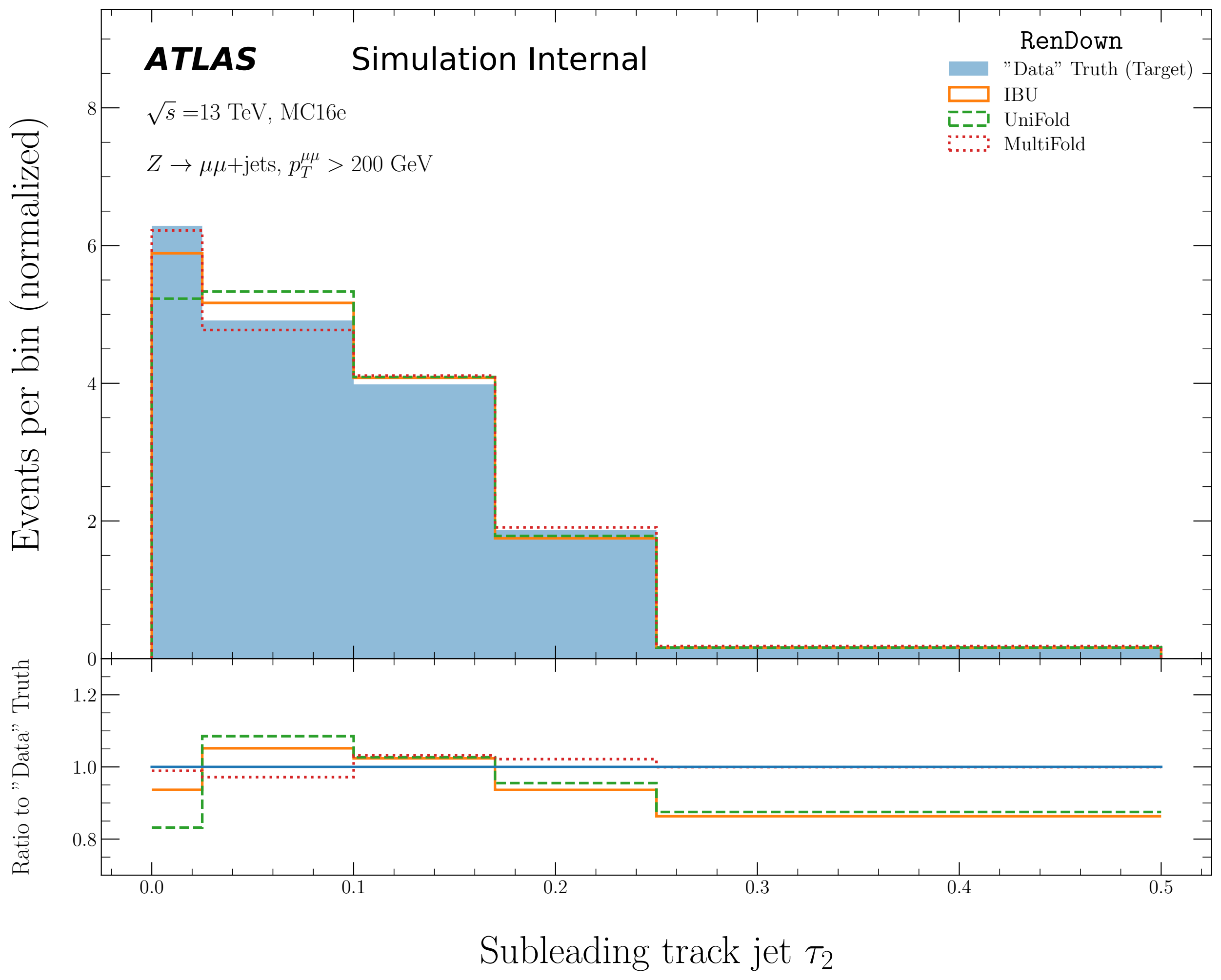


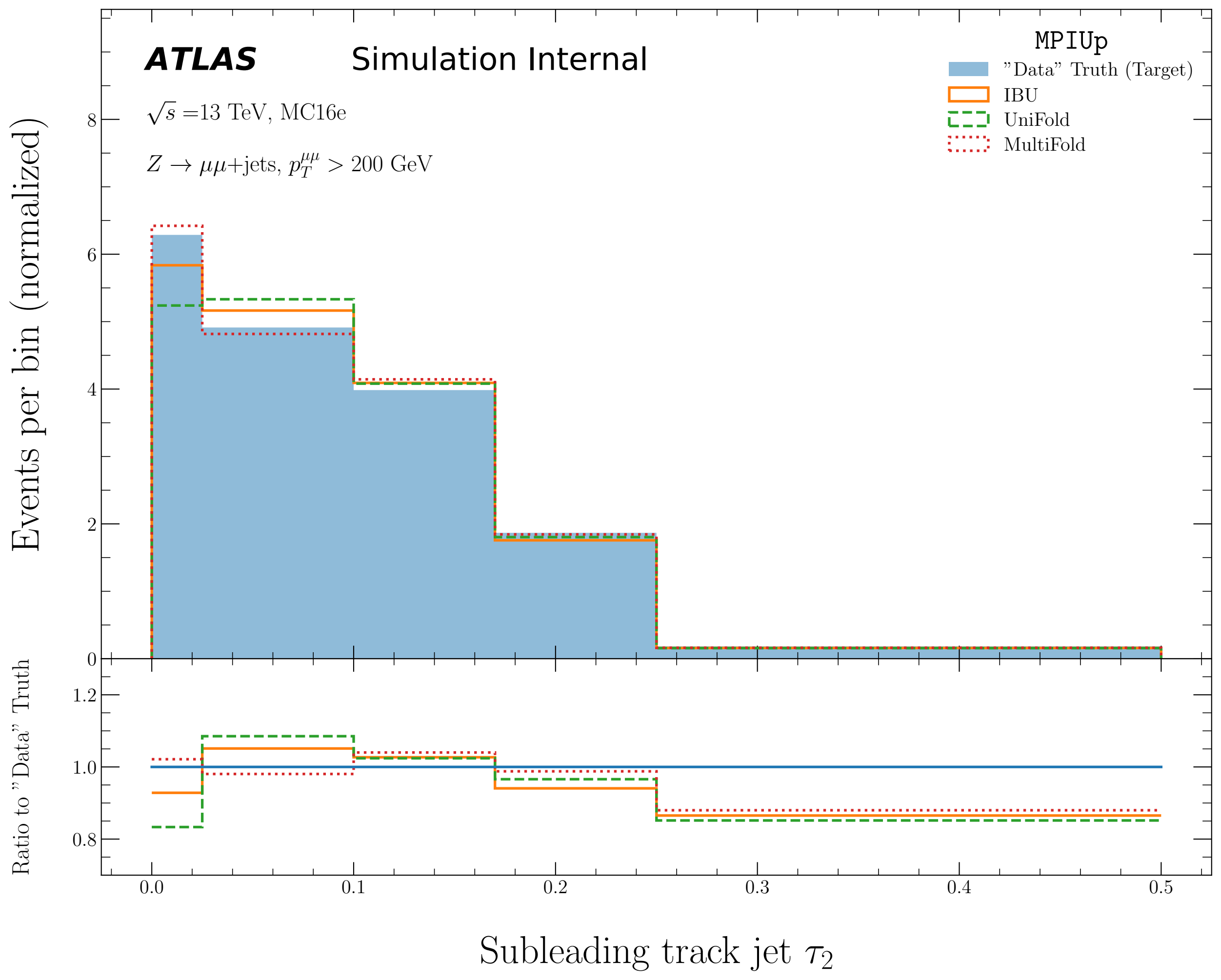


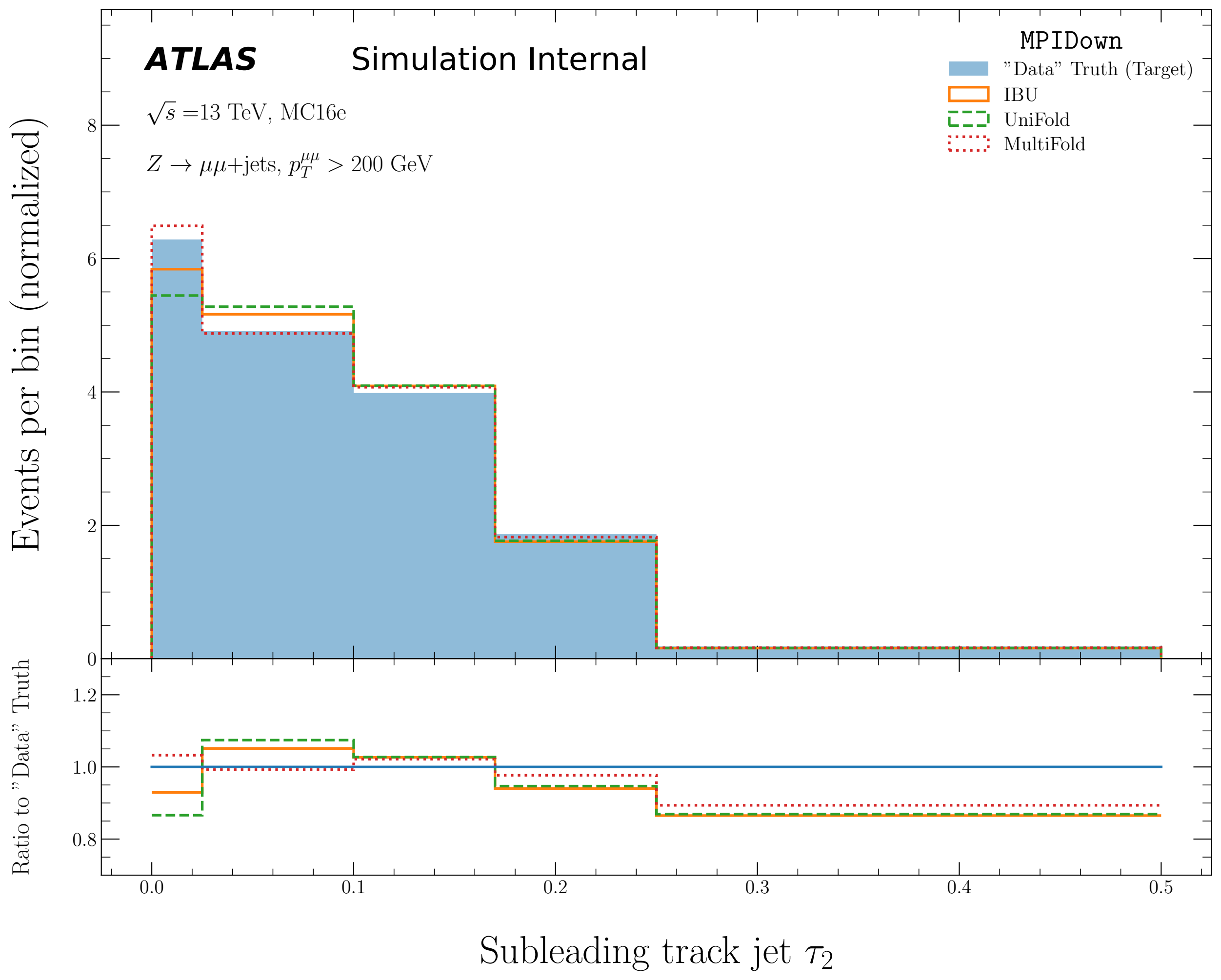


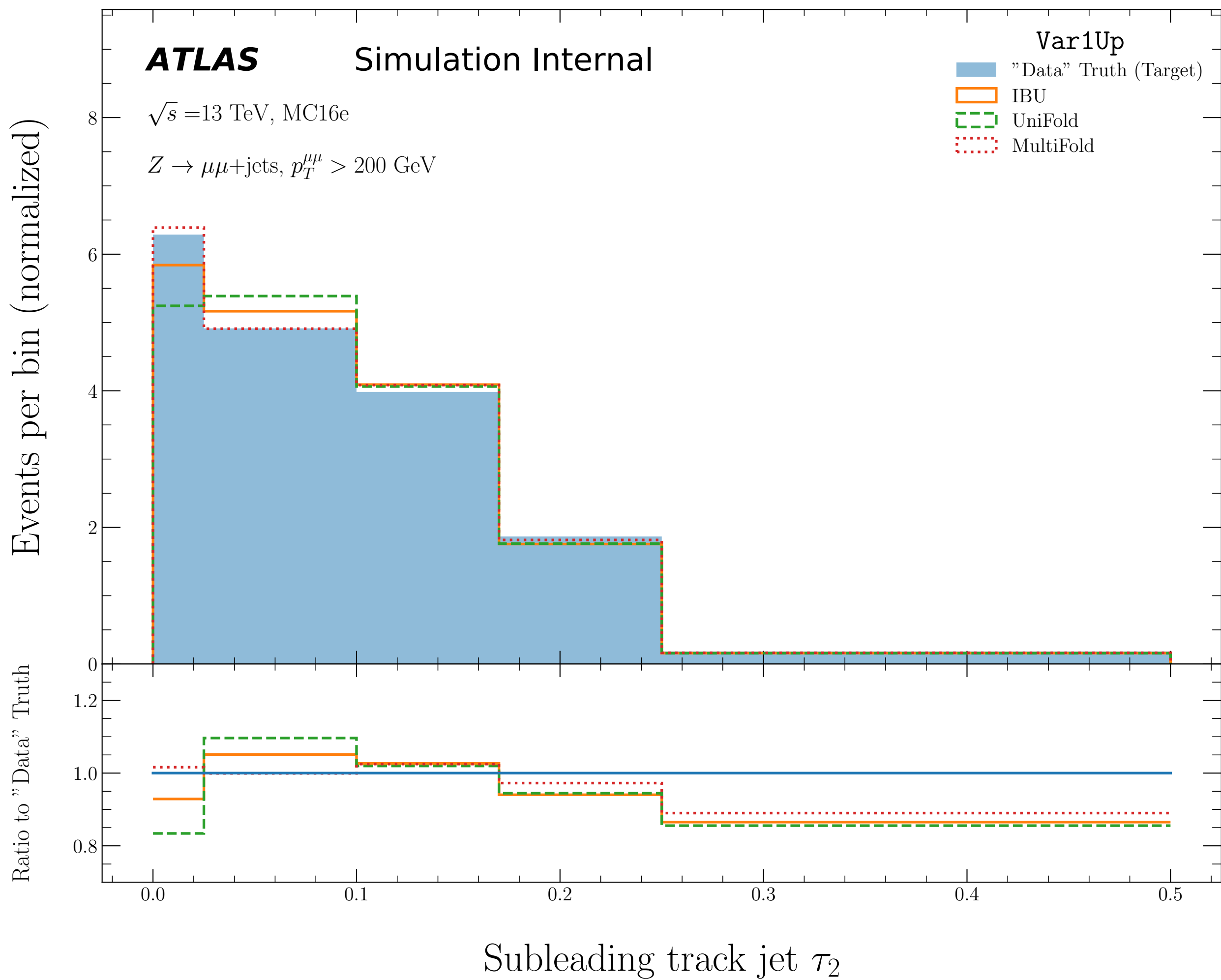


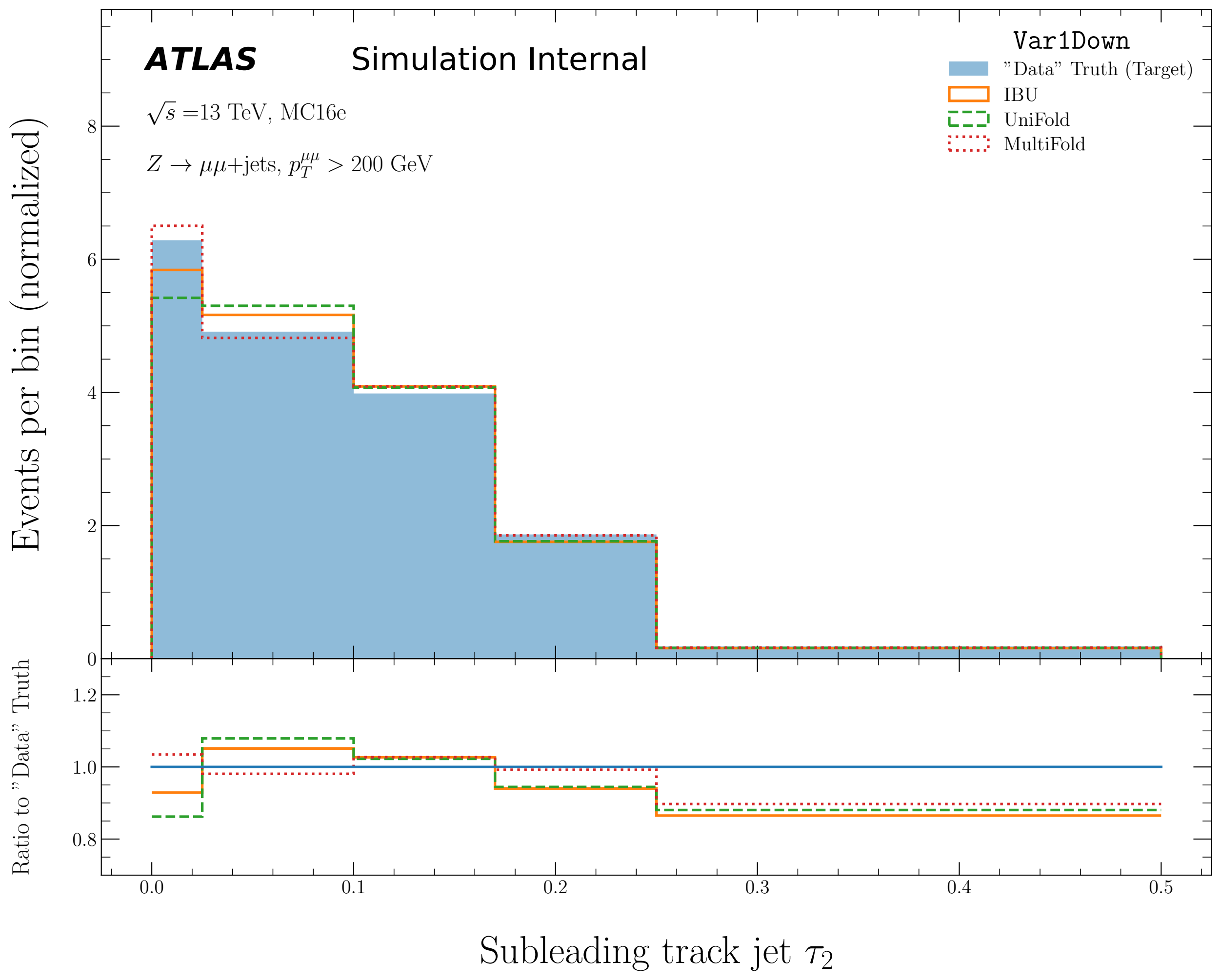


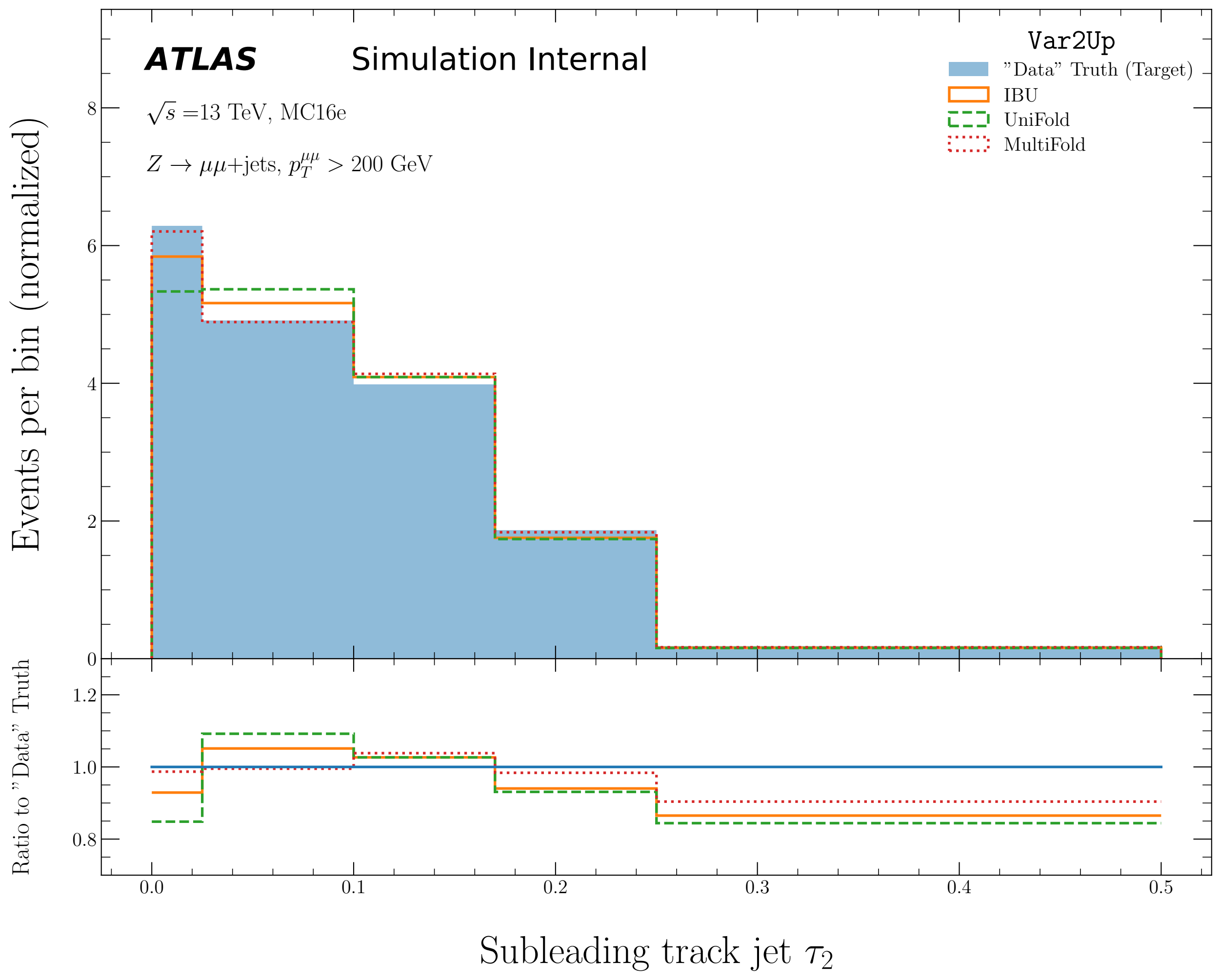


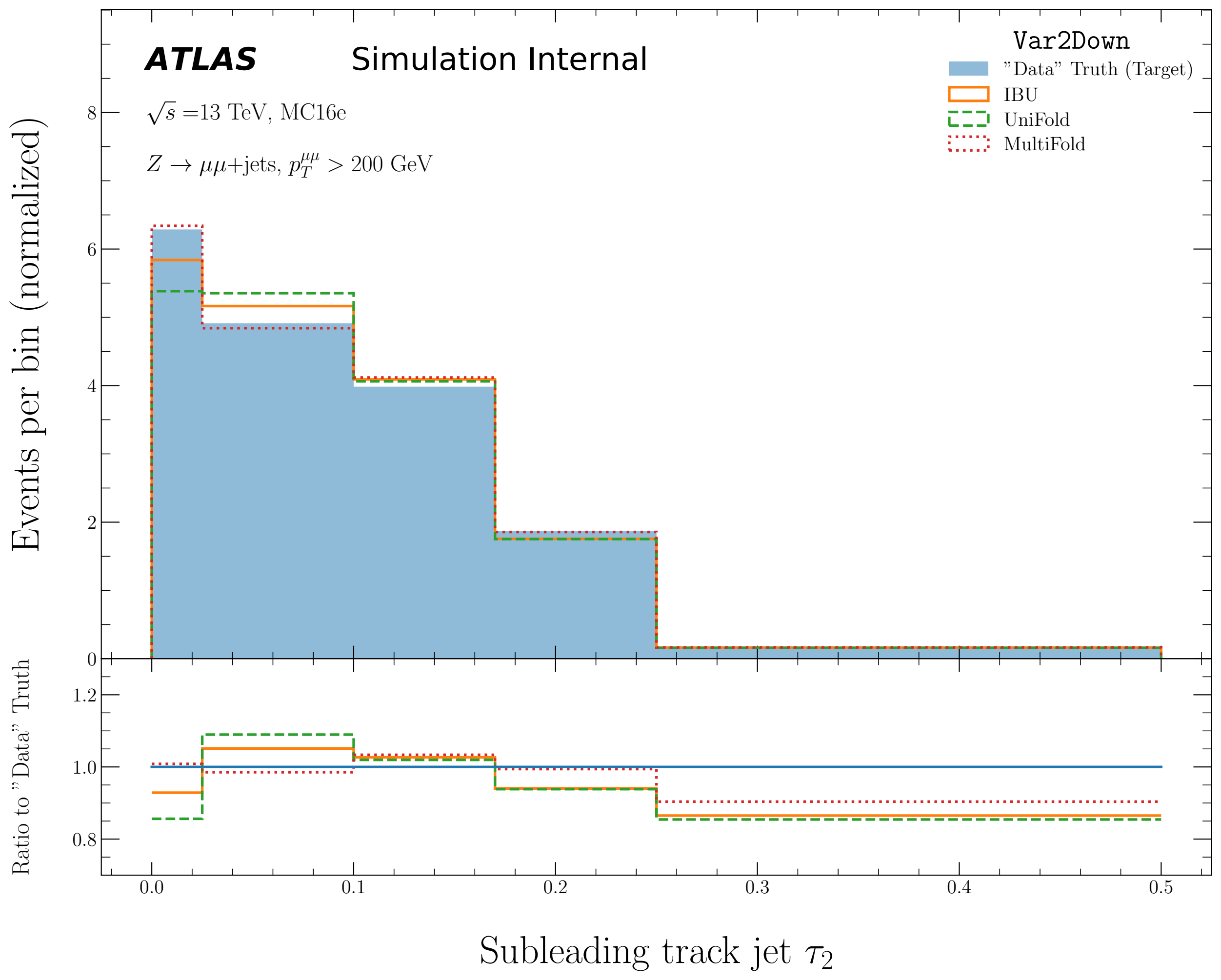


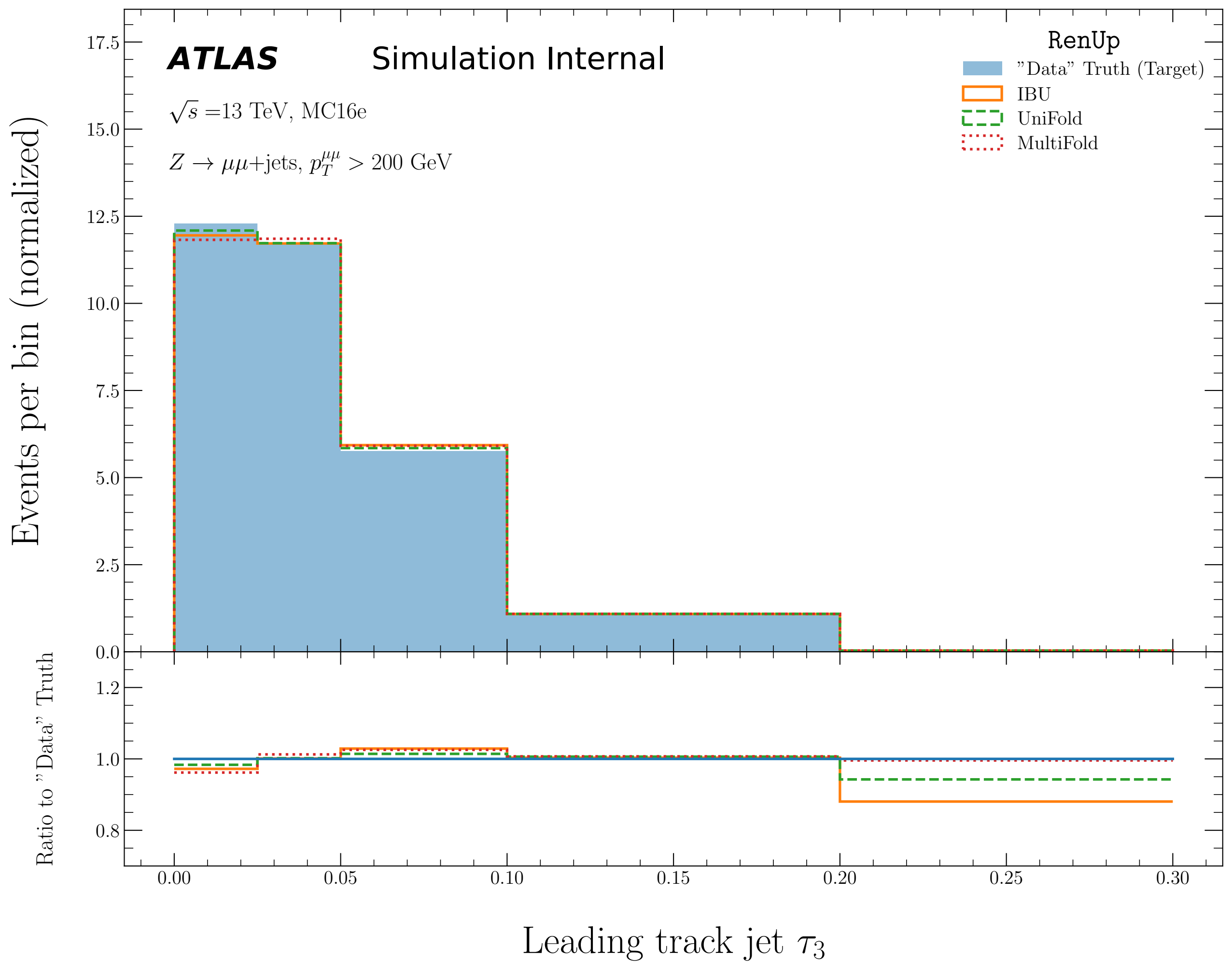


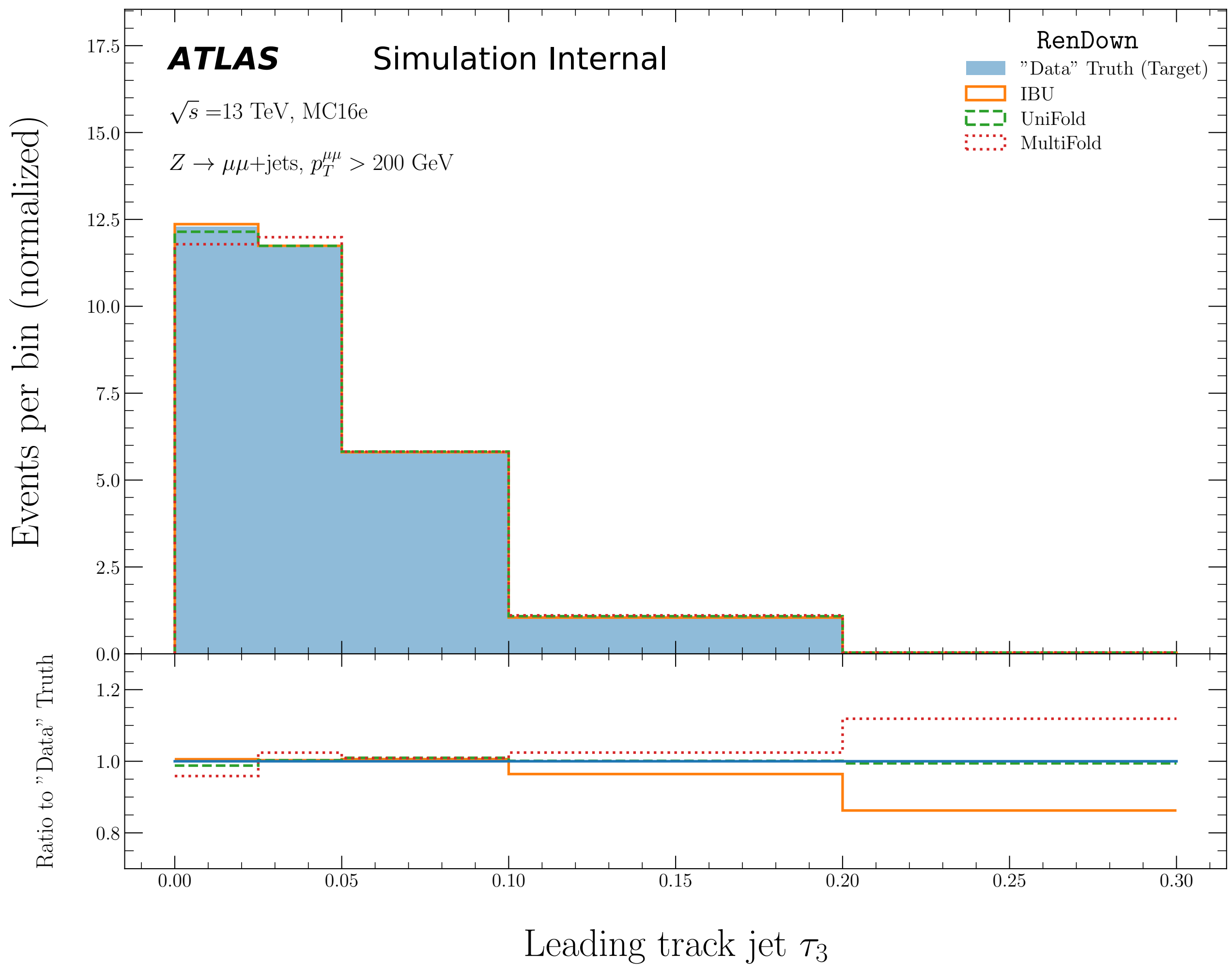


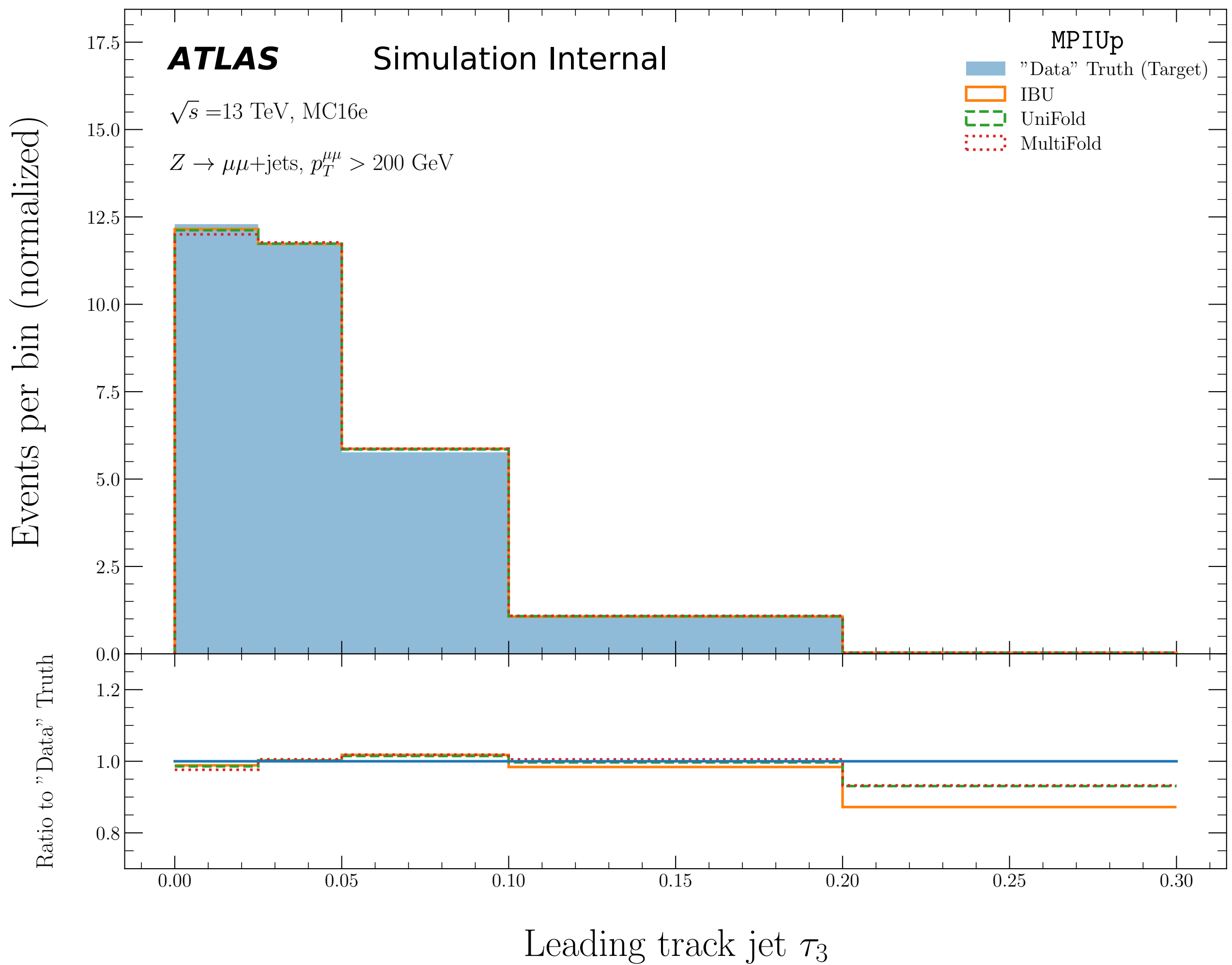


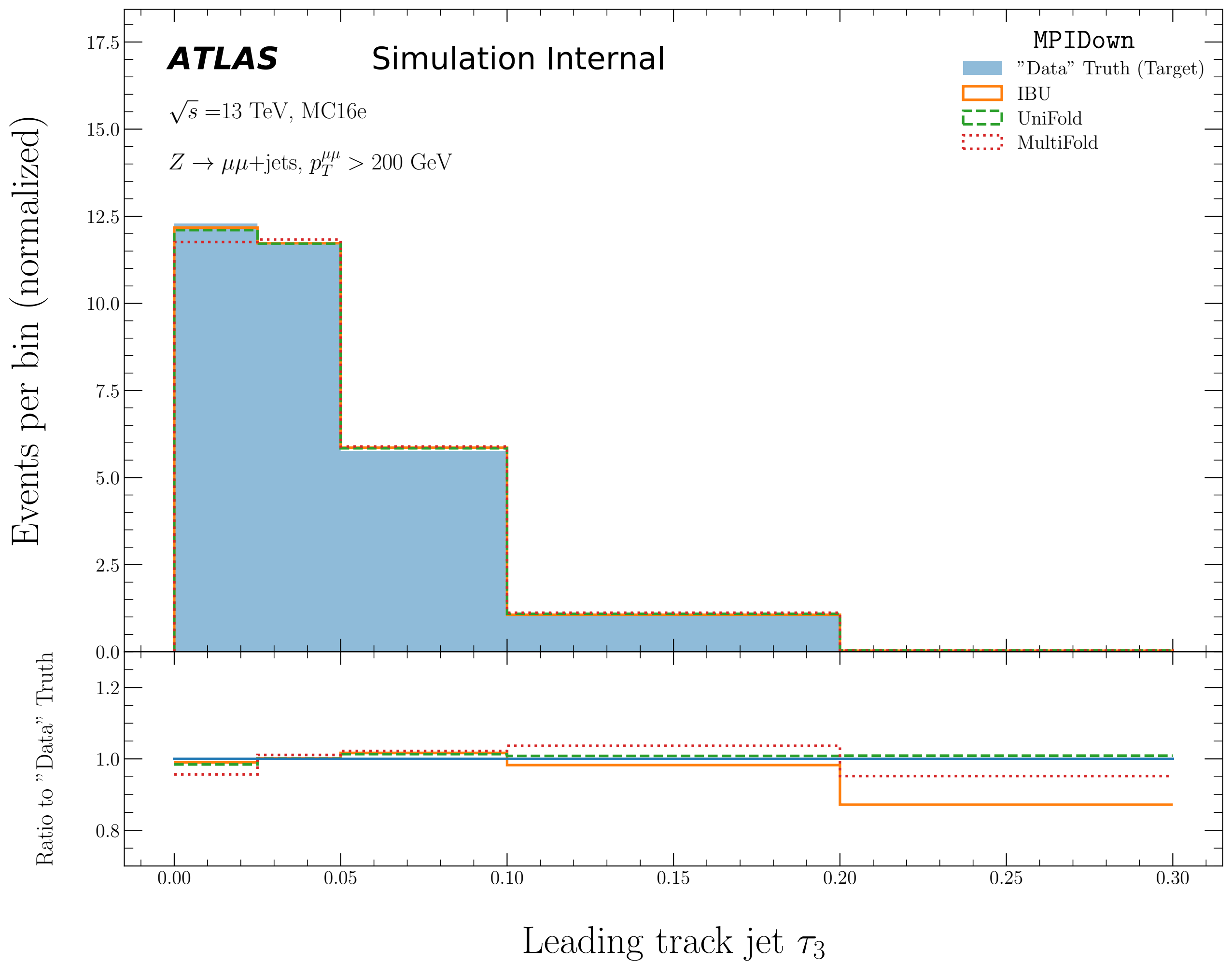


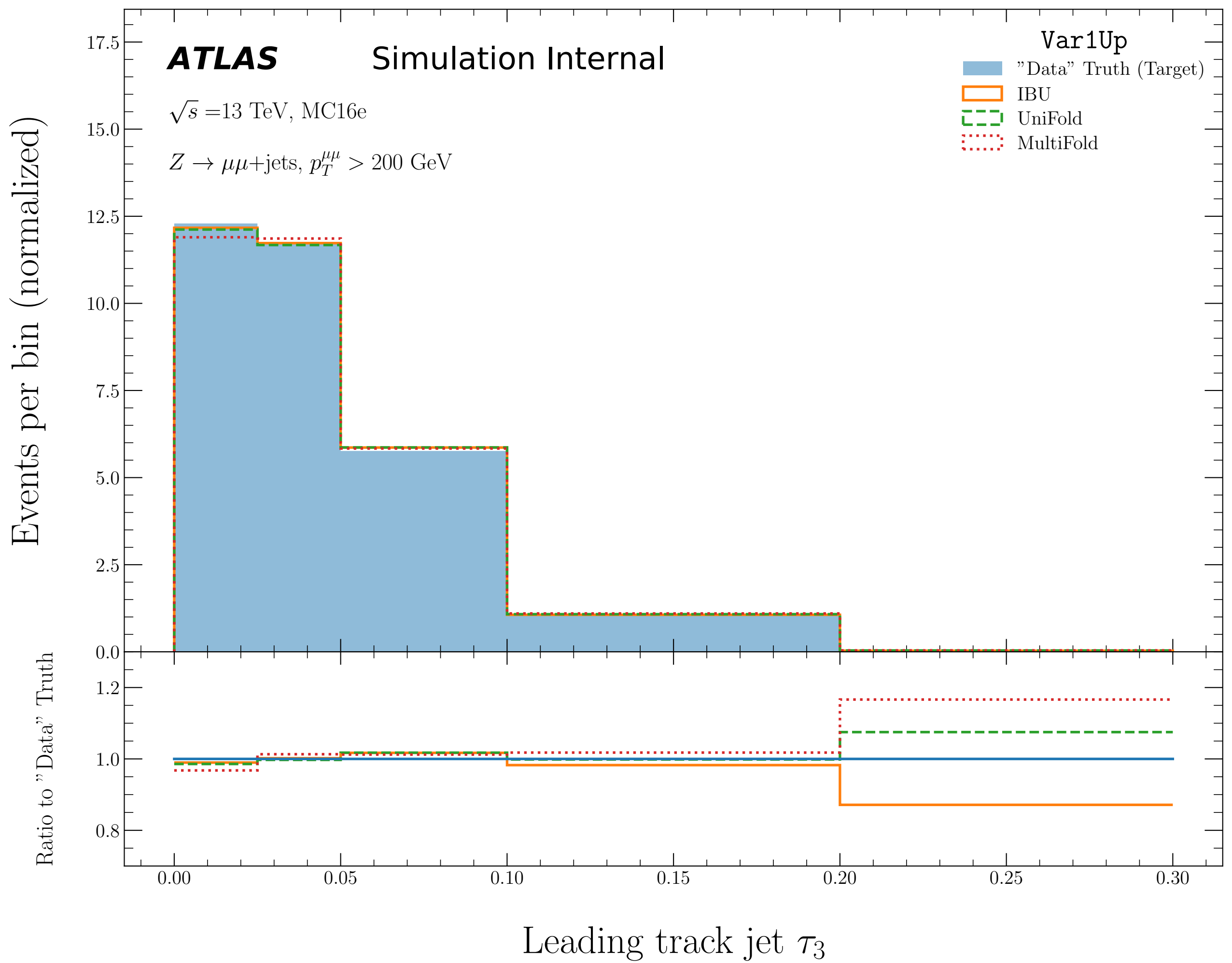


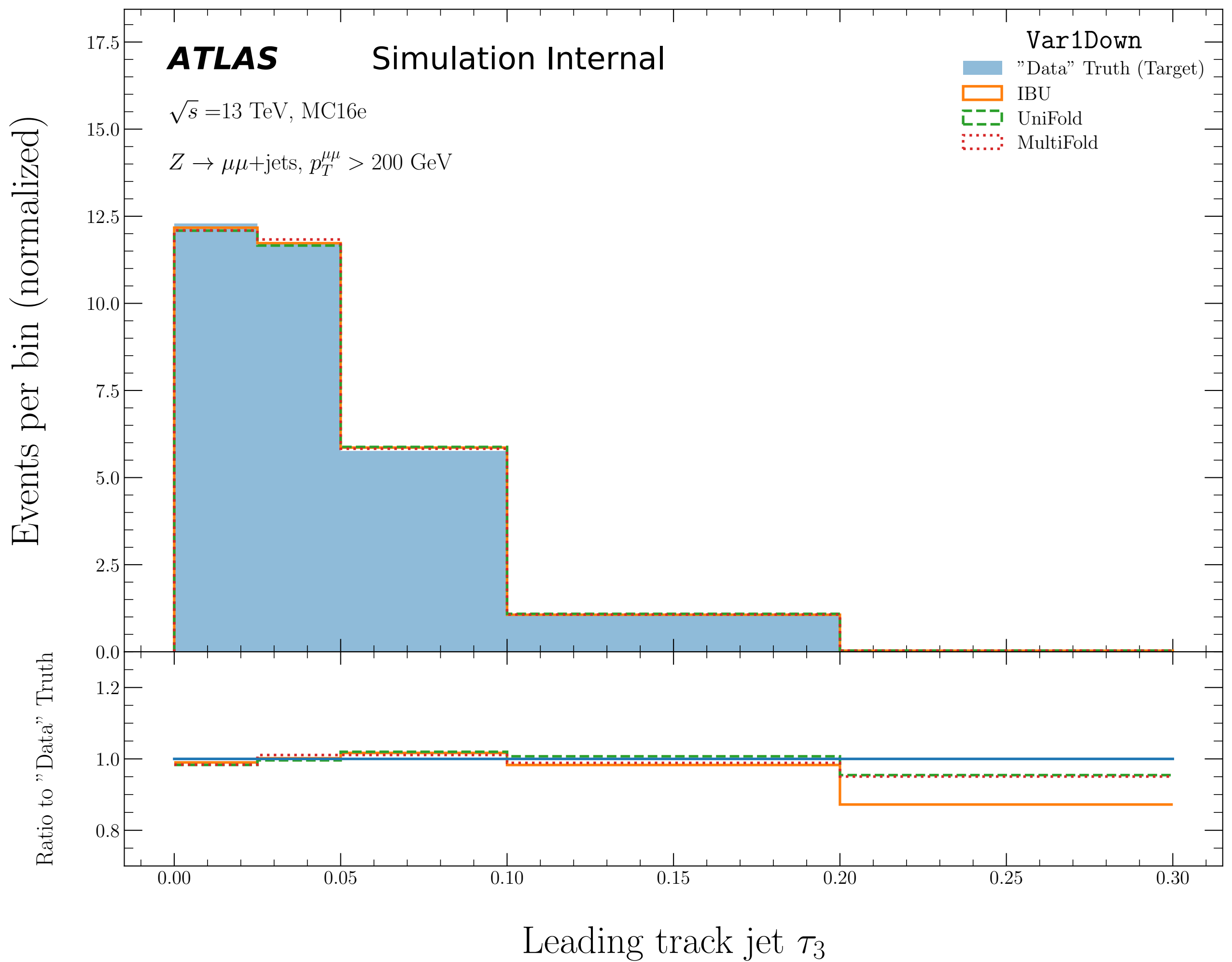


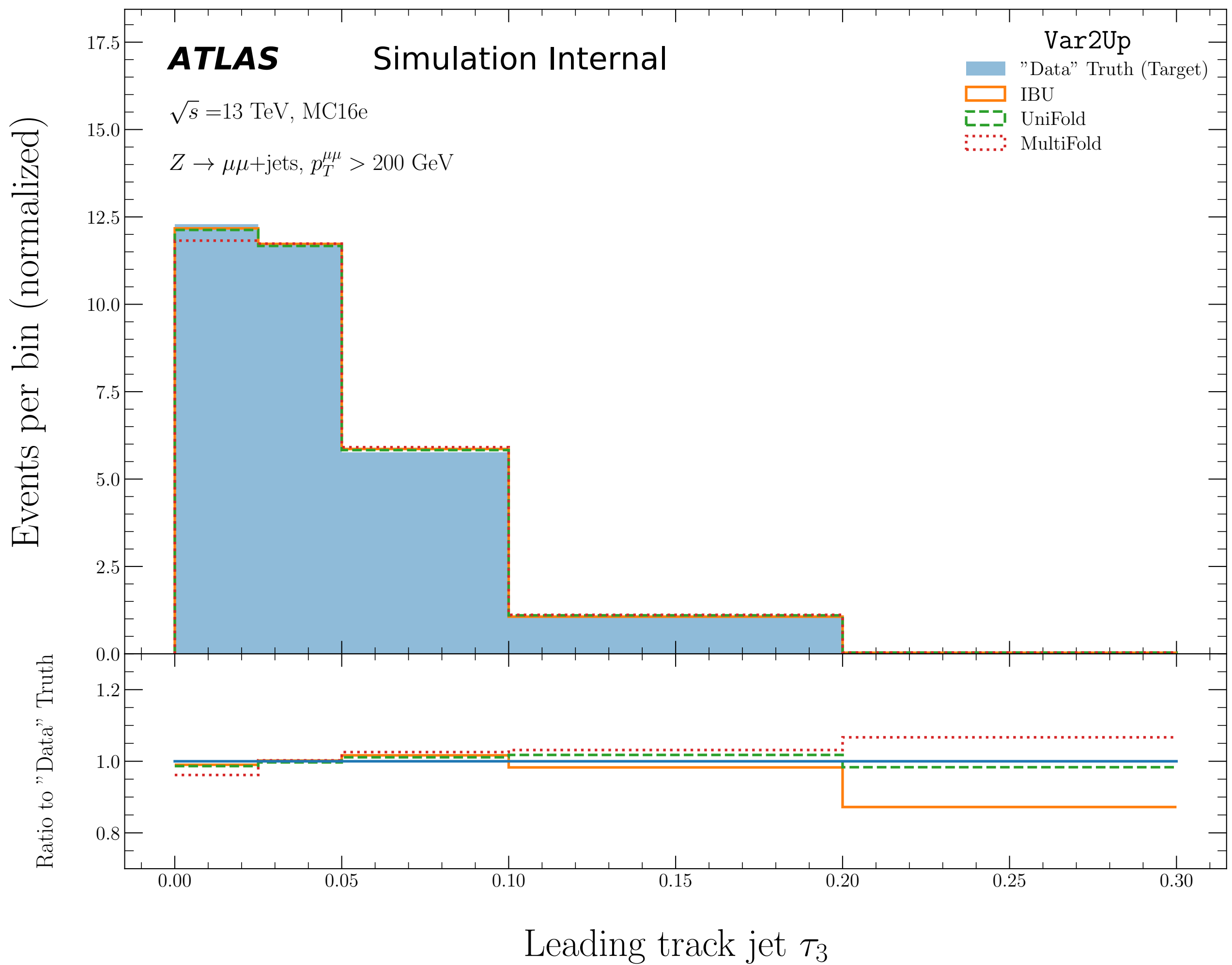


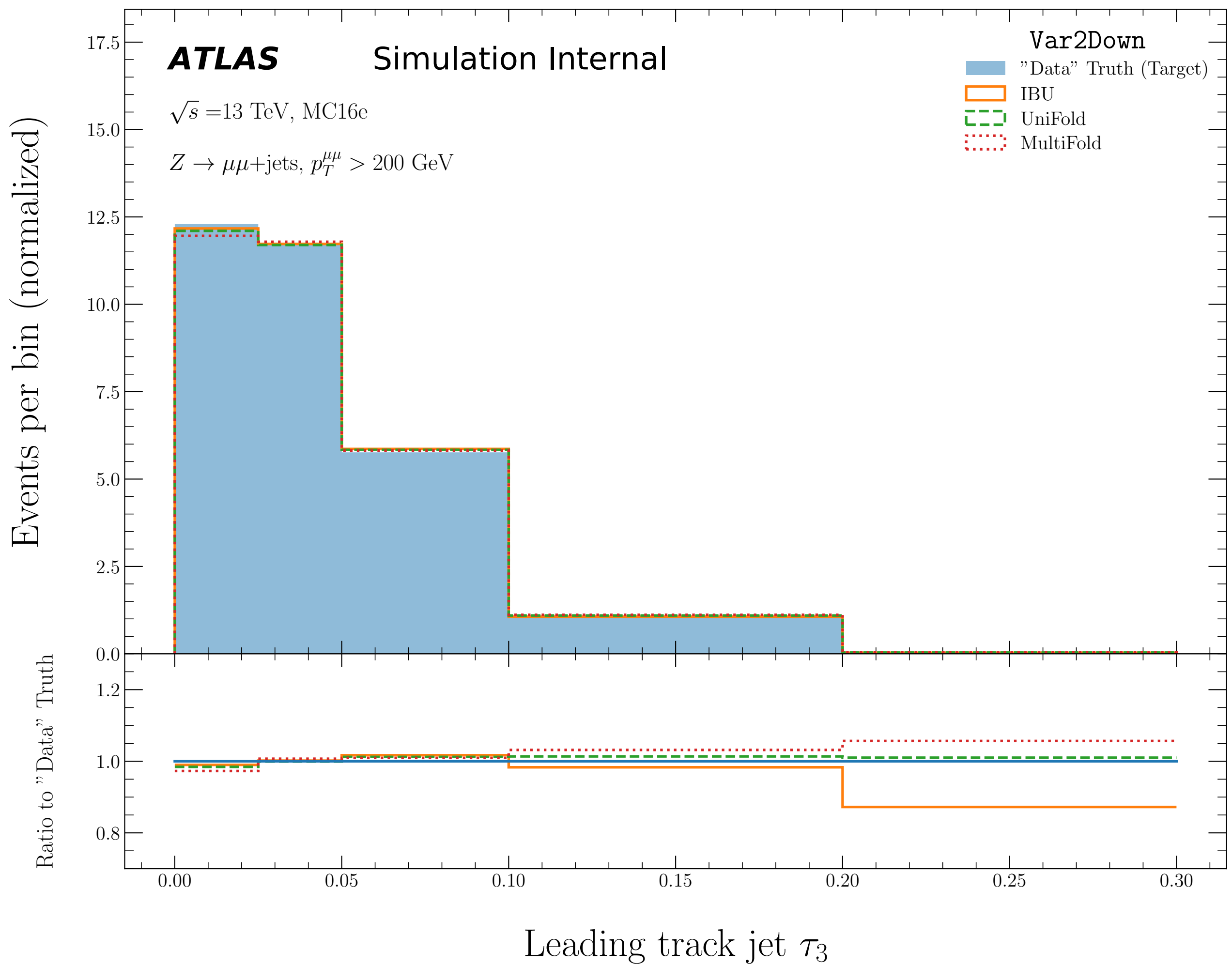


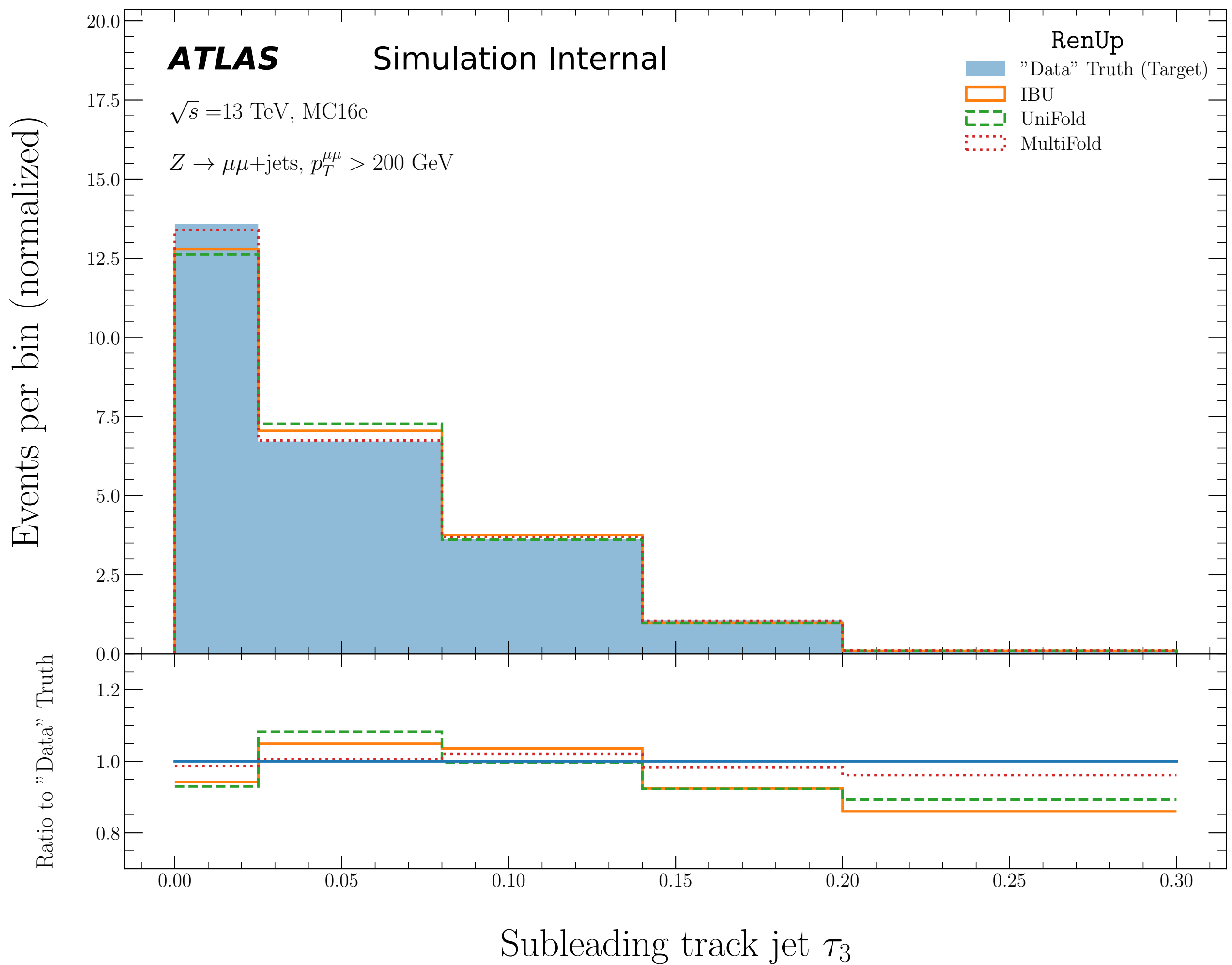


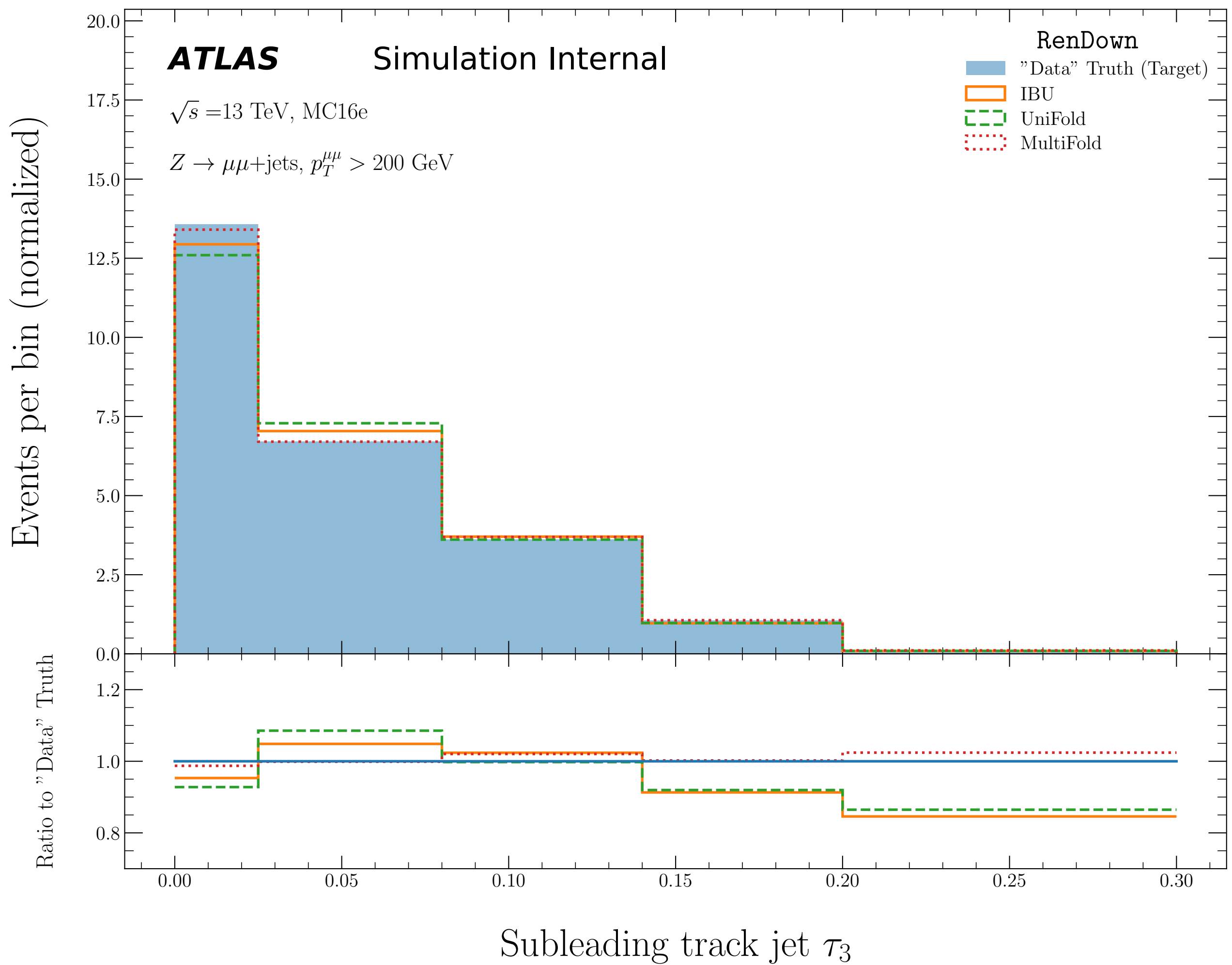


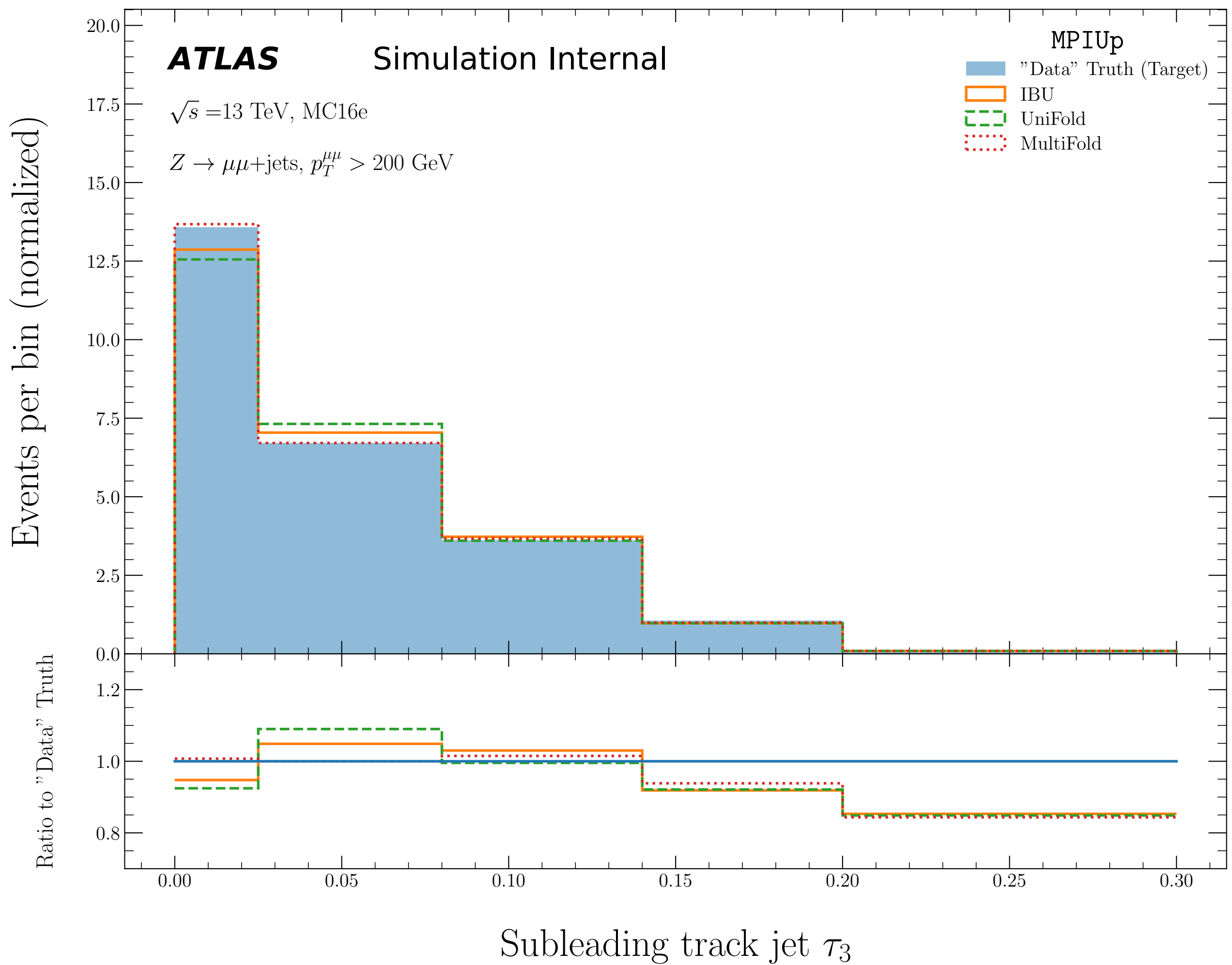


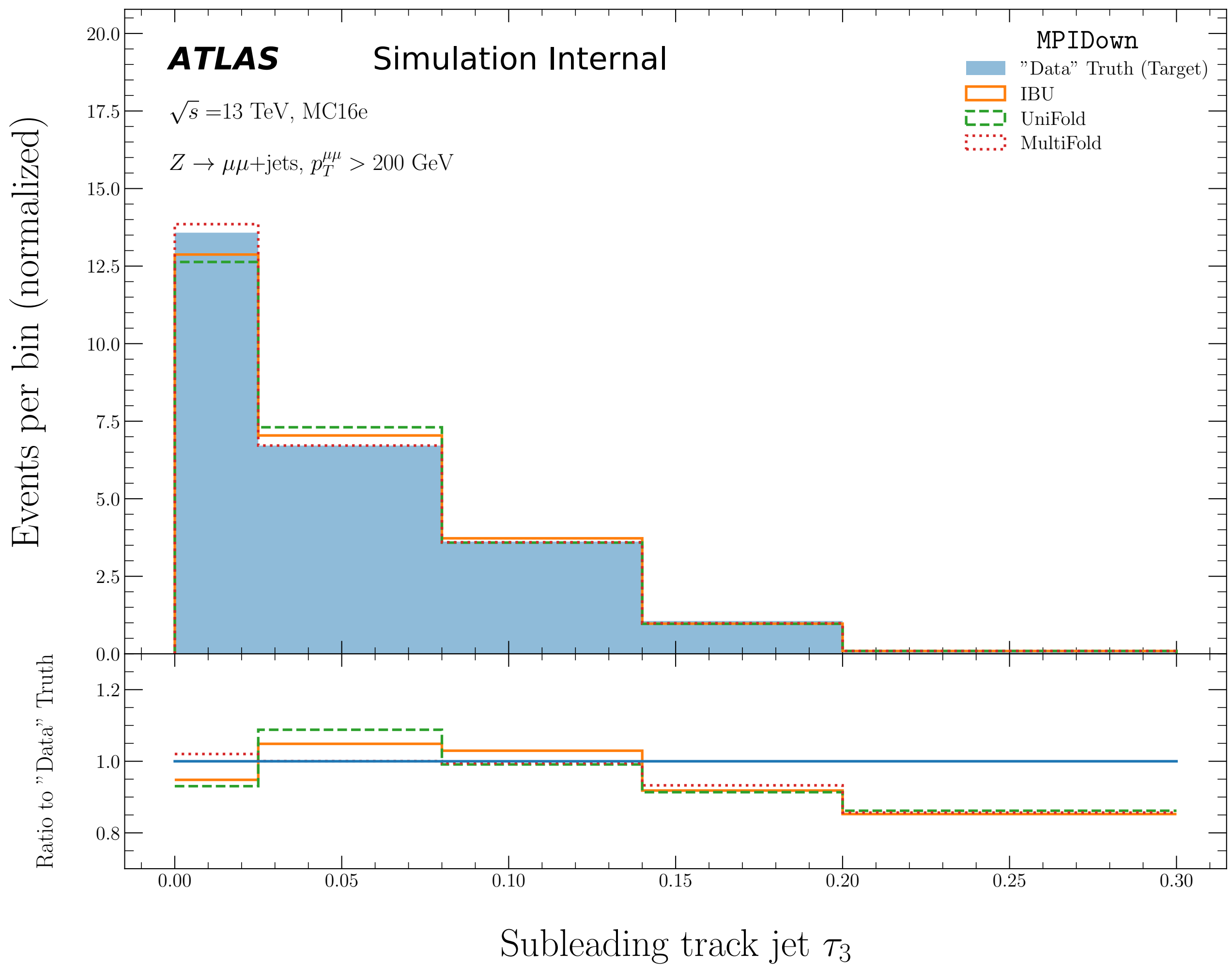


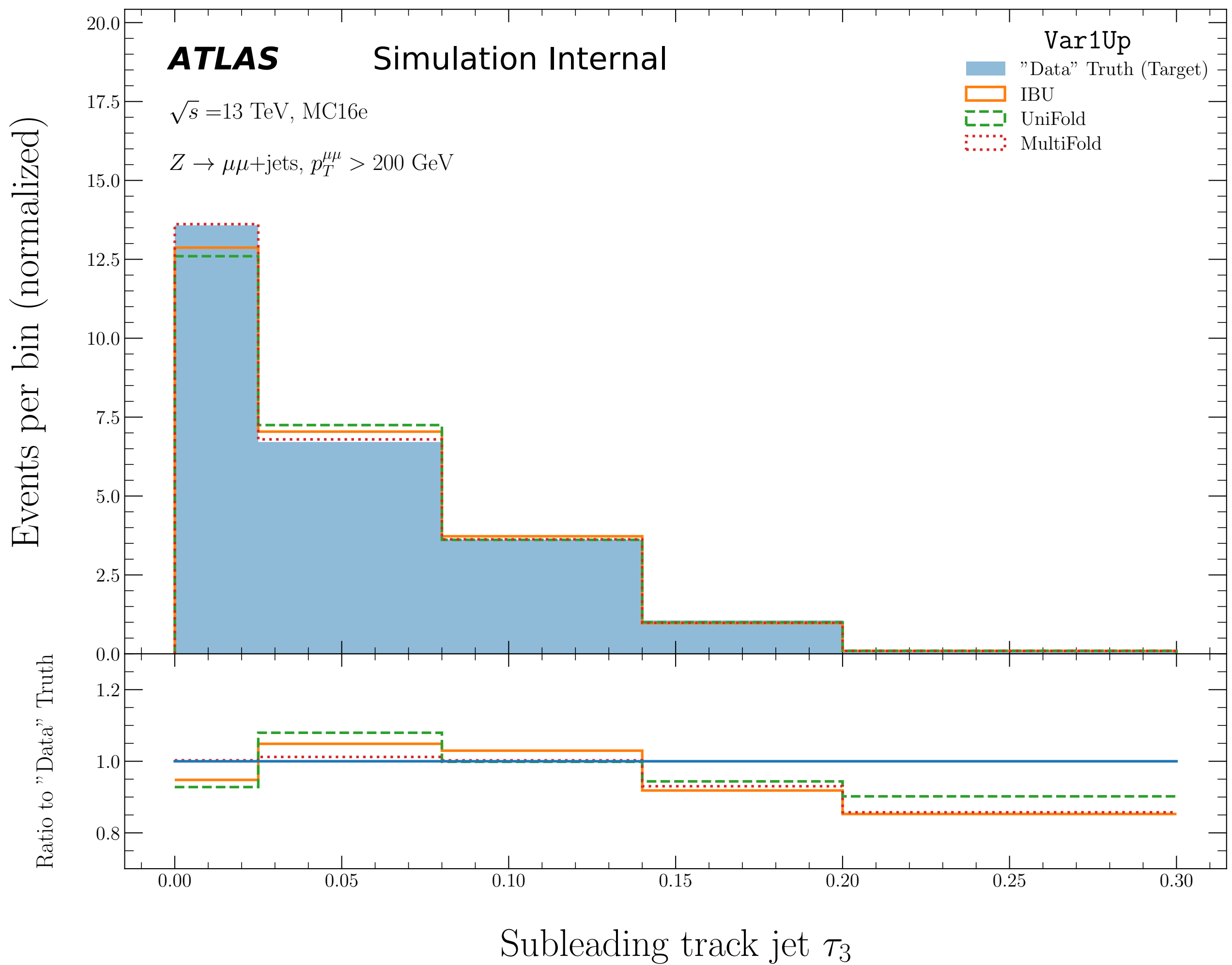


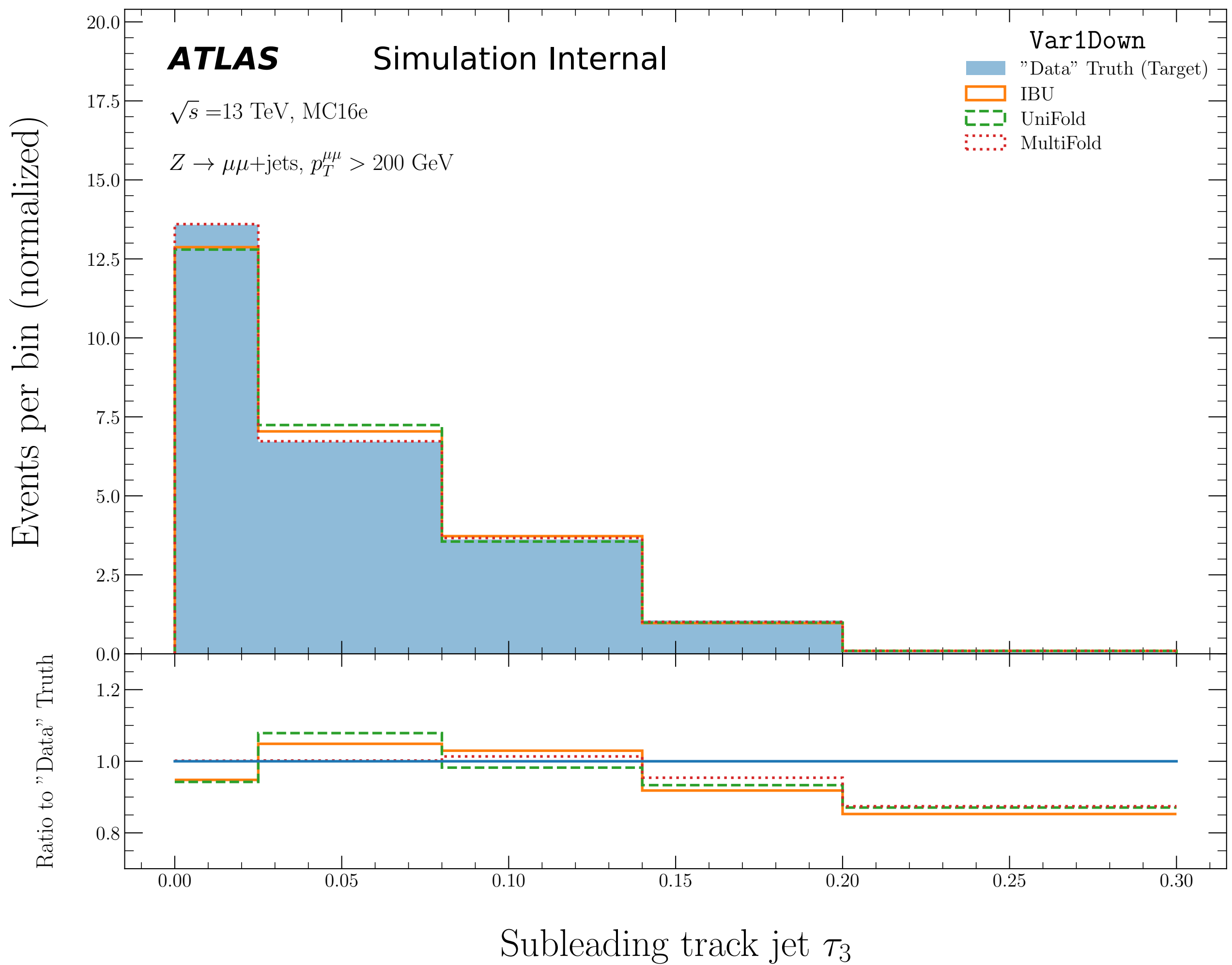


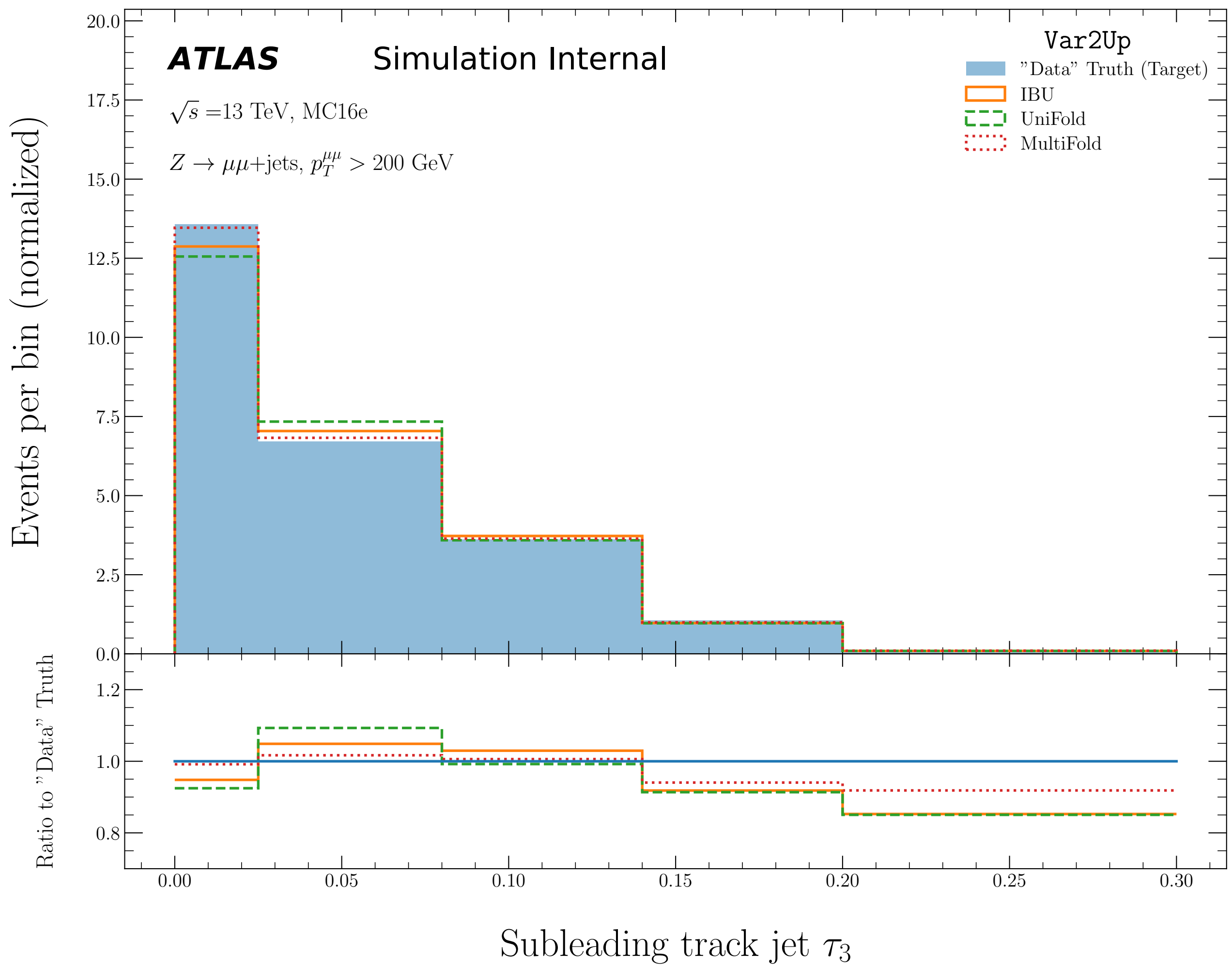


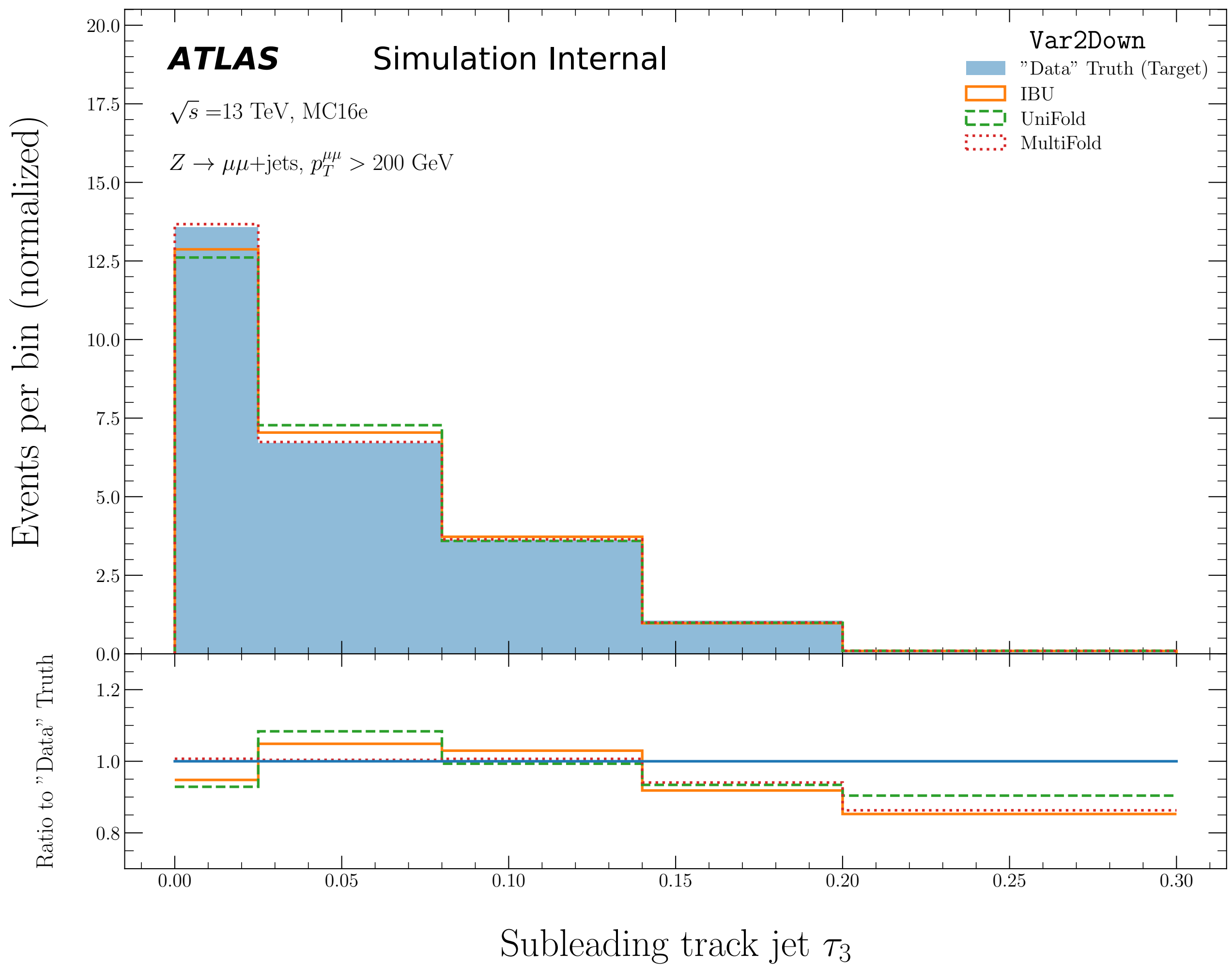


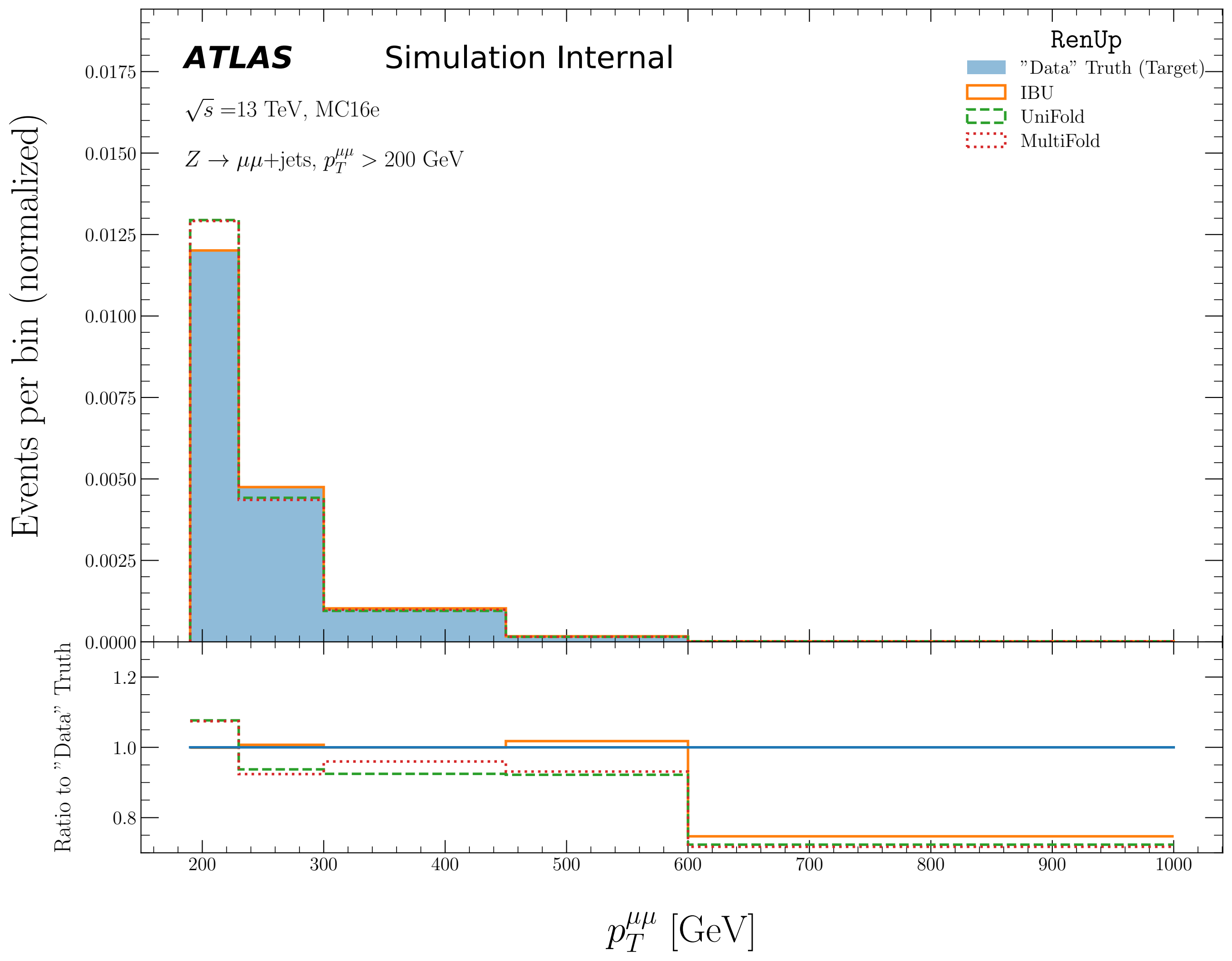


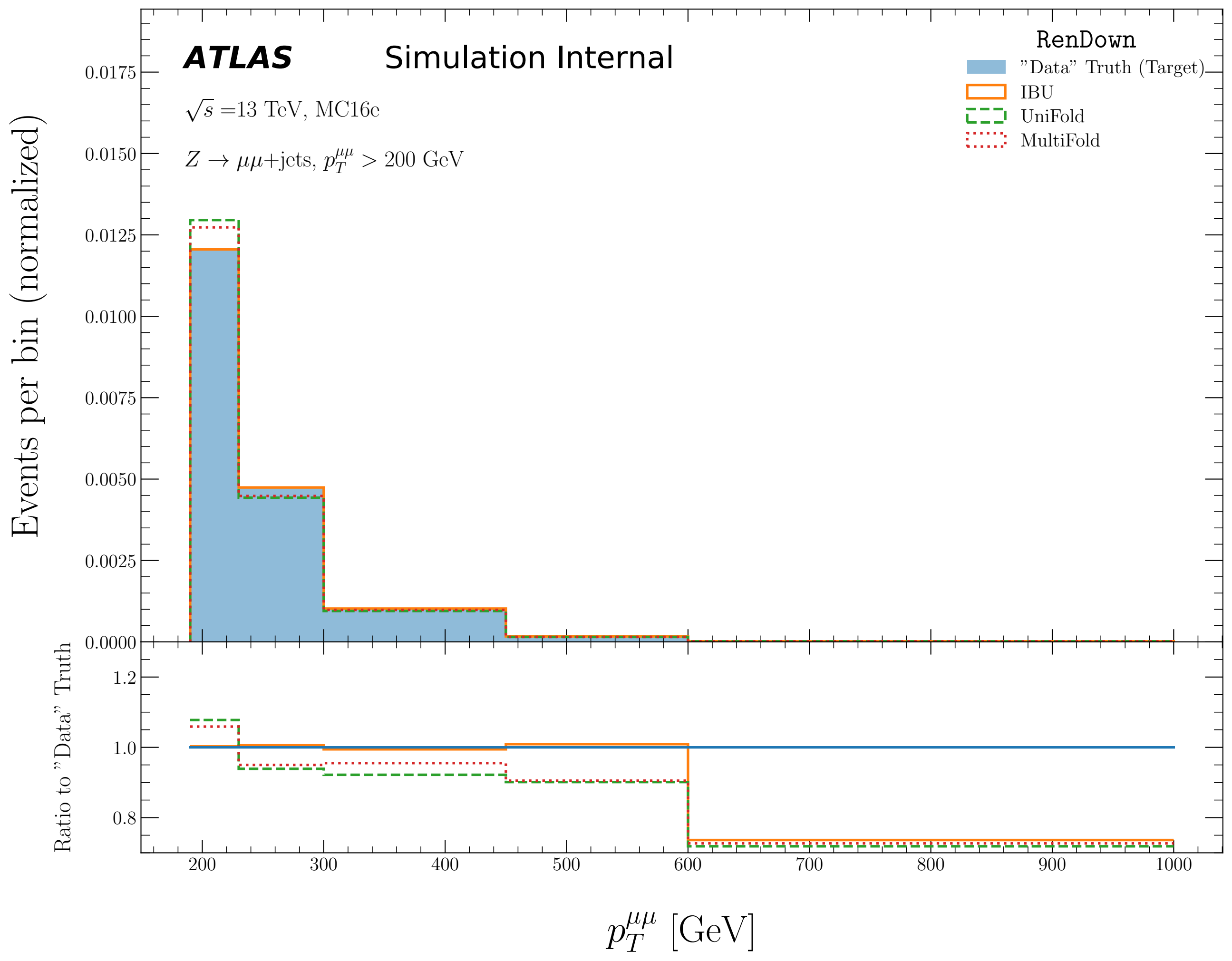


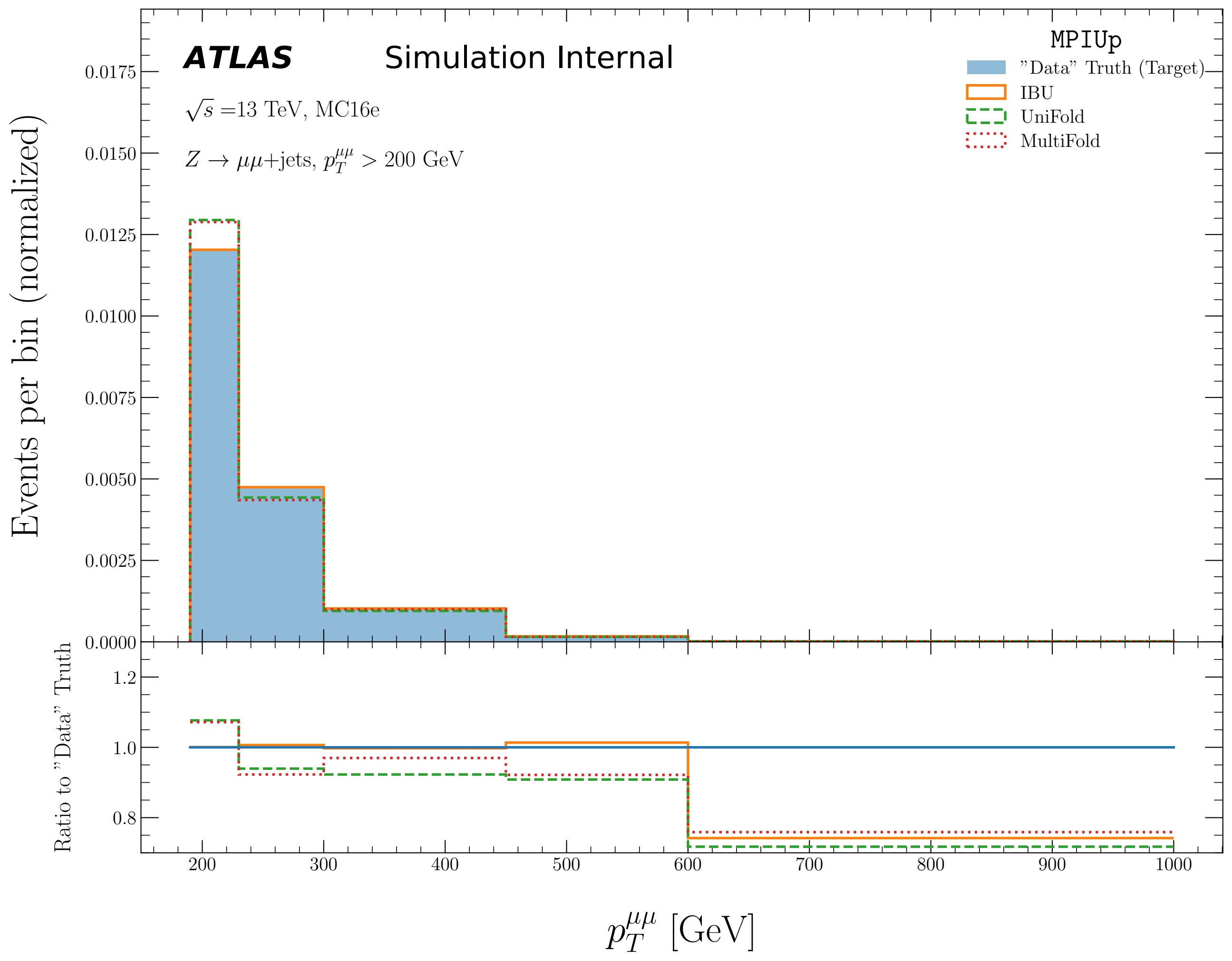


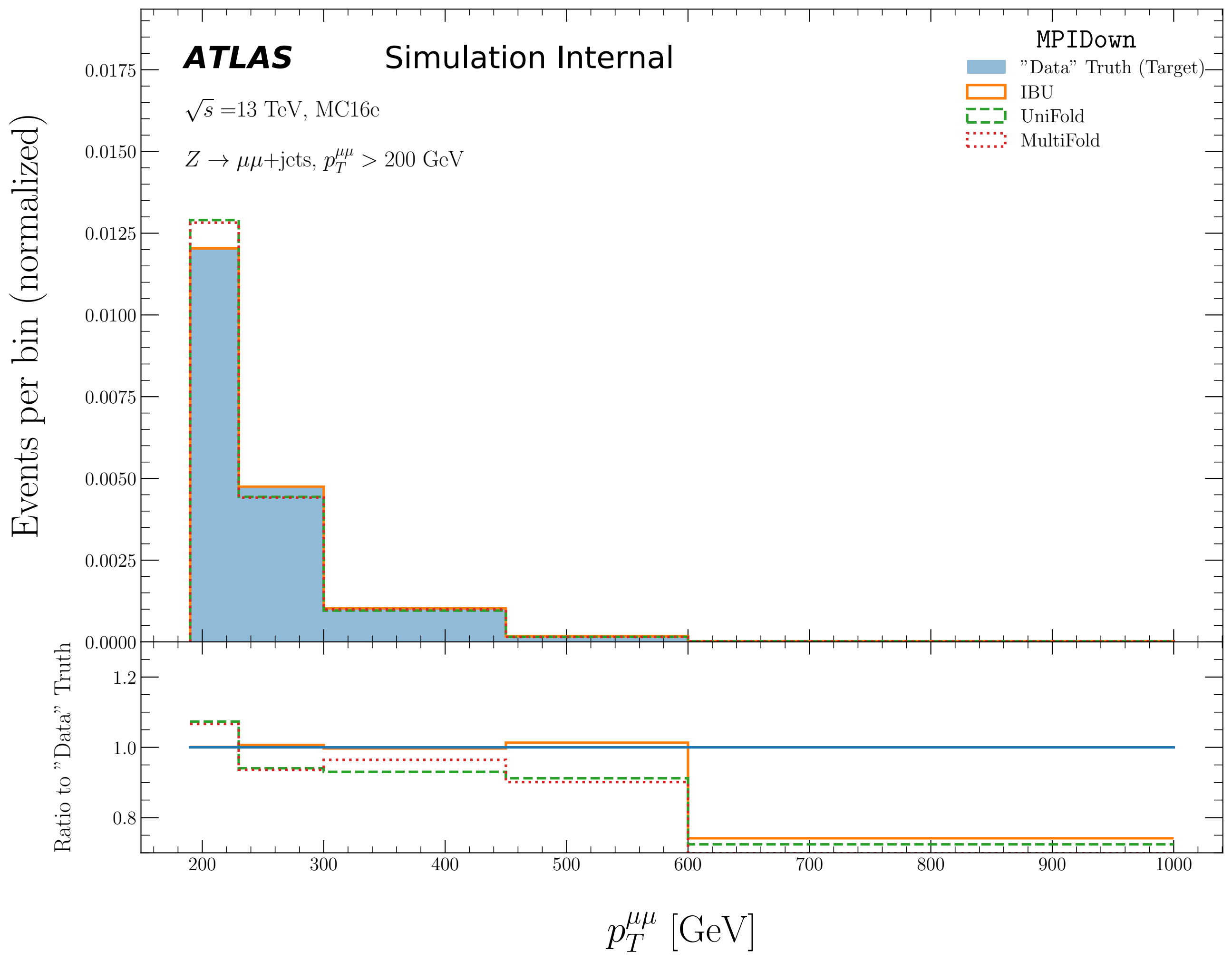


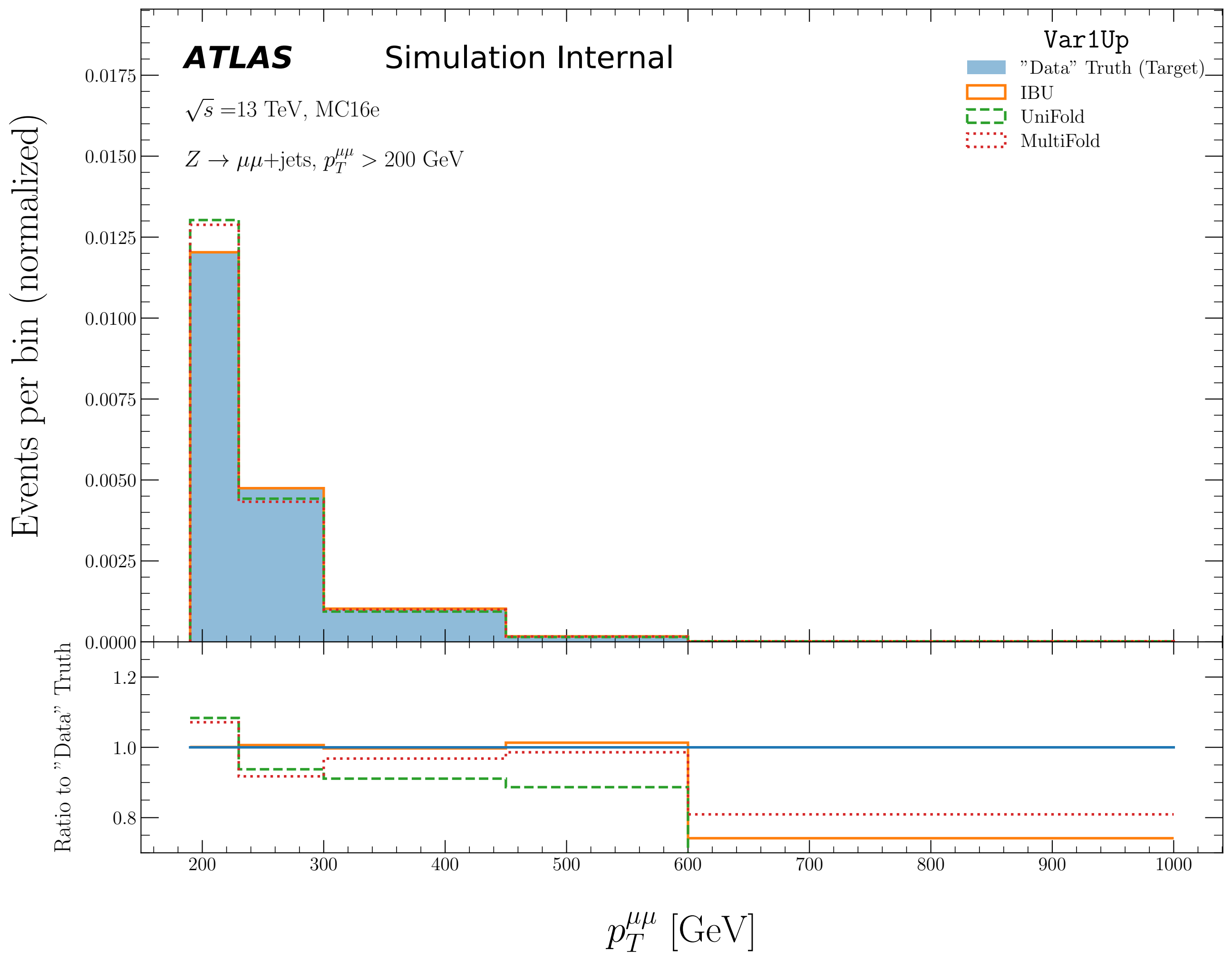


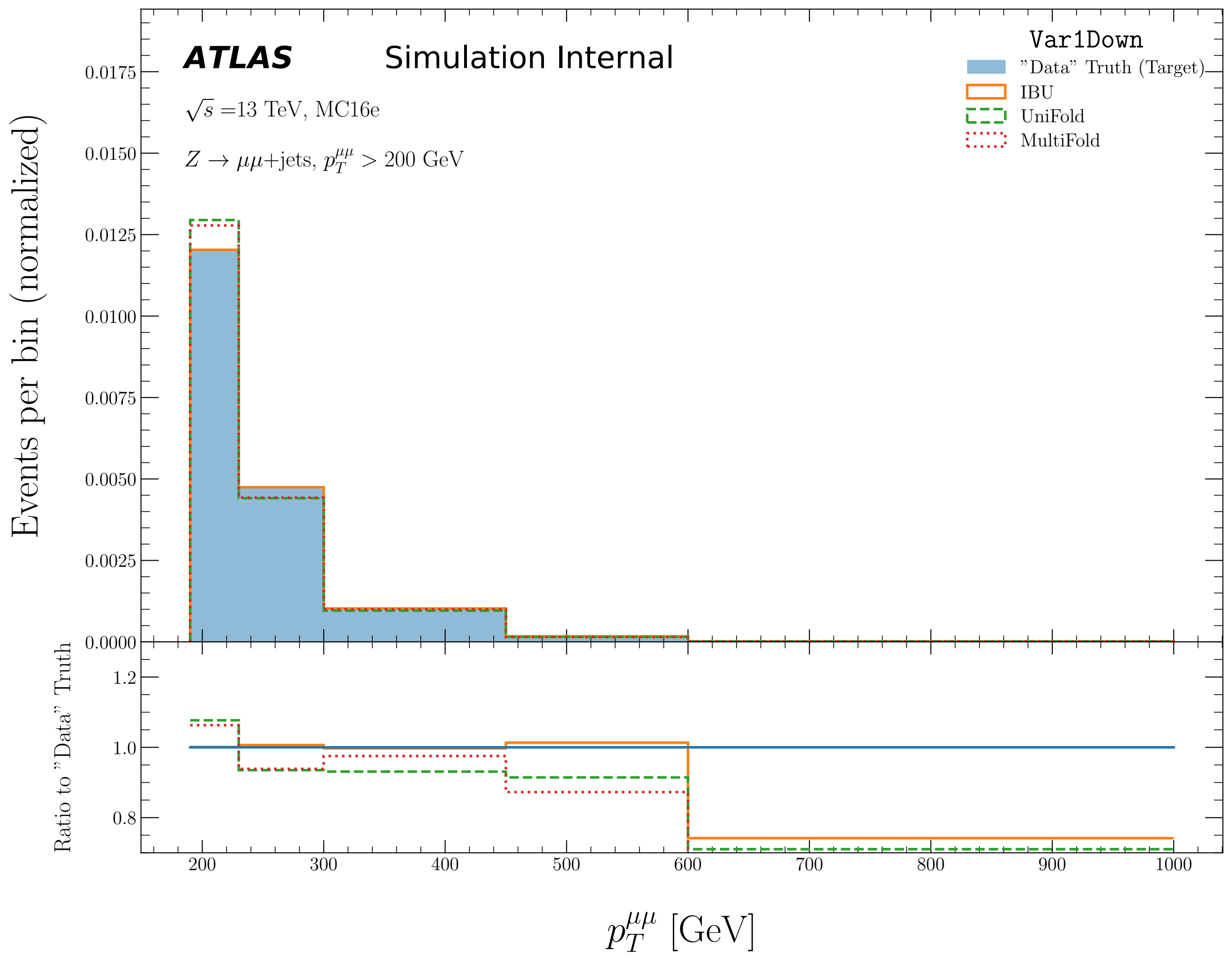


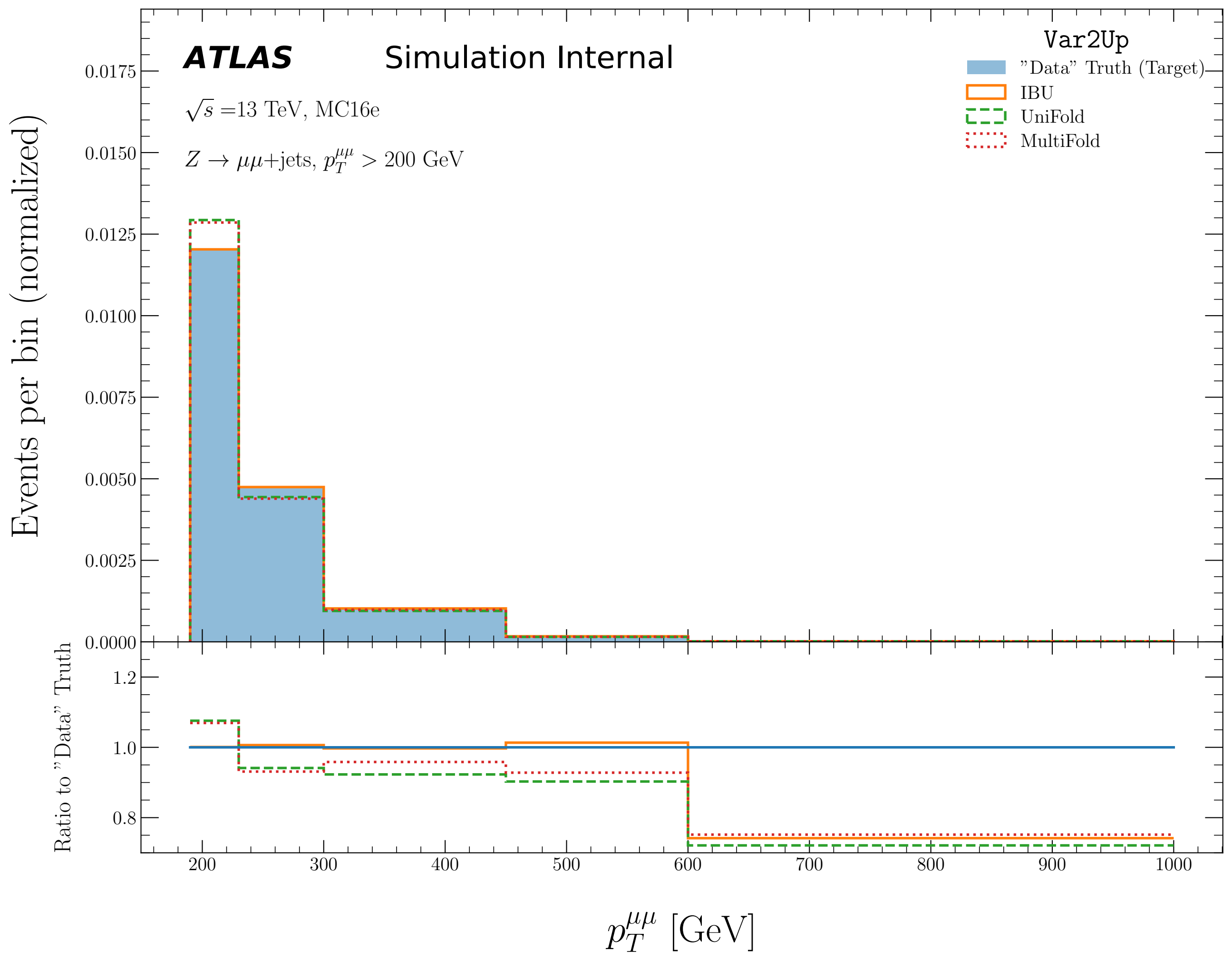


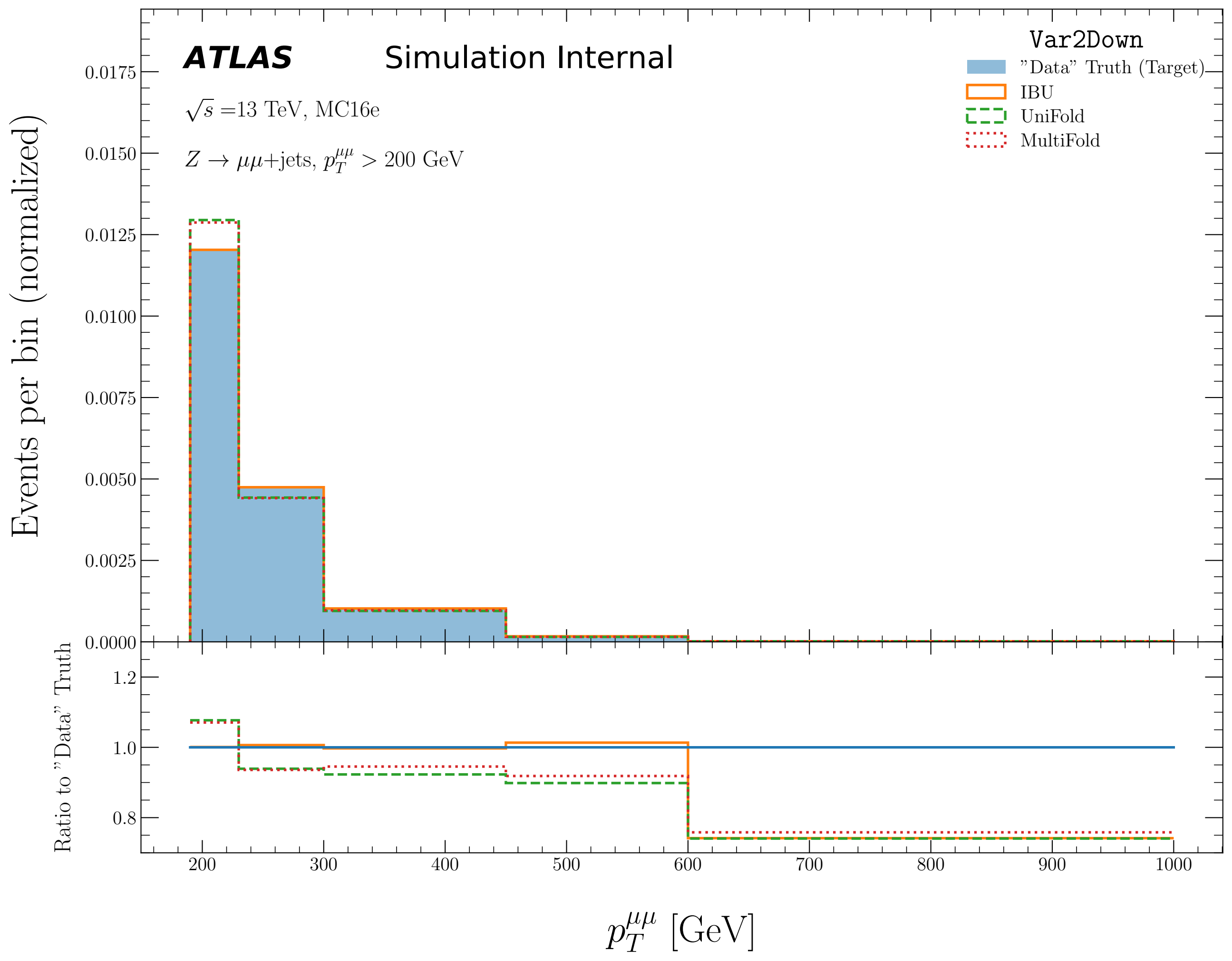












Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

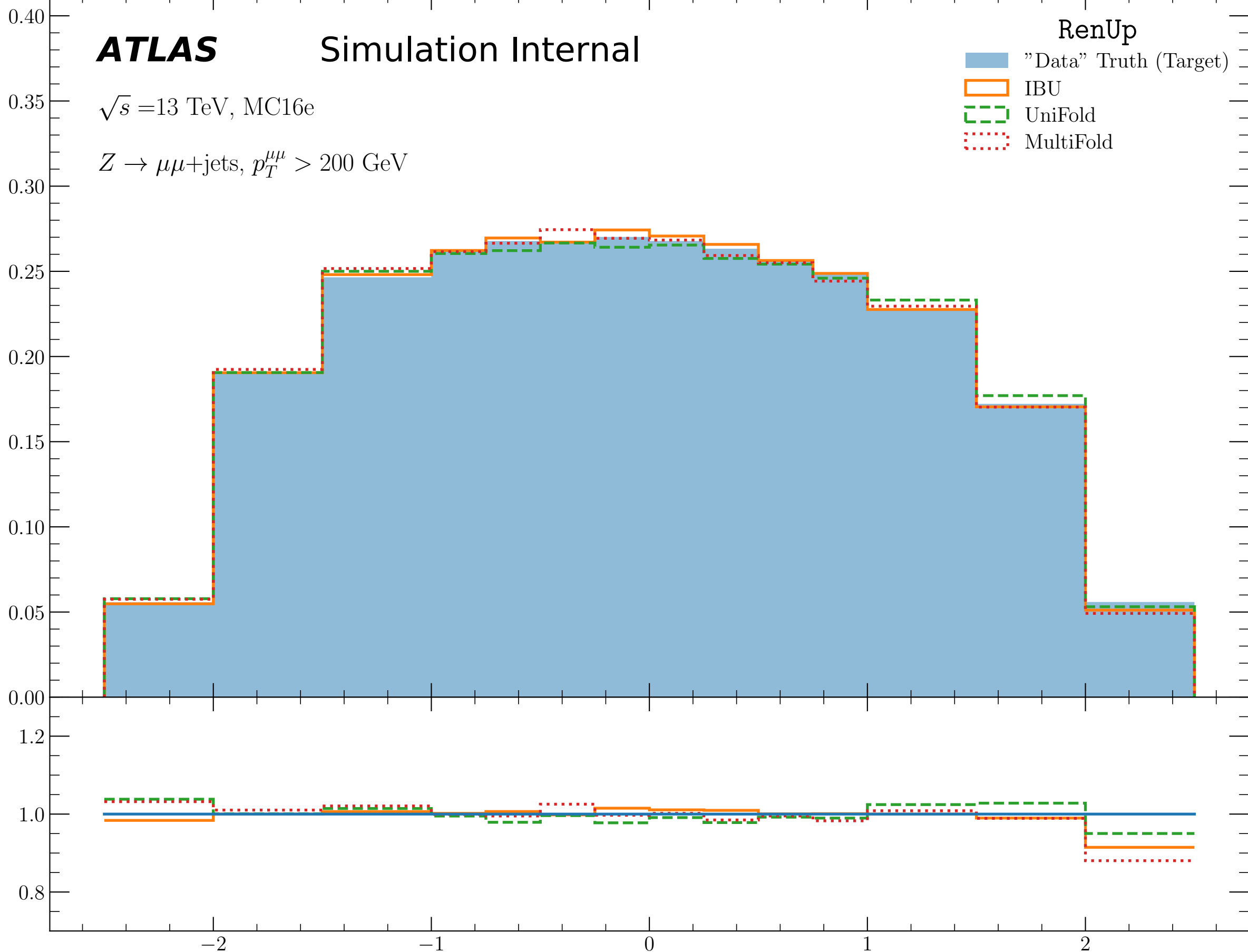
$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

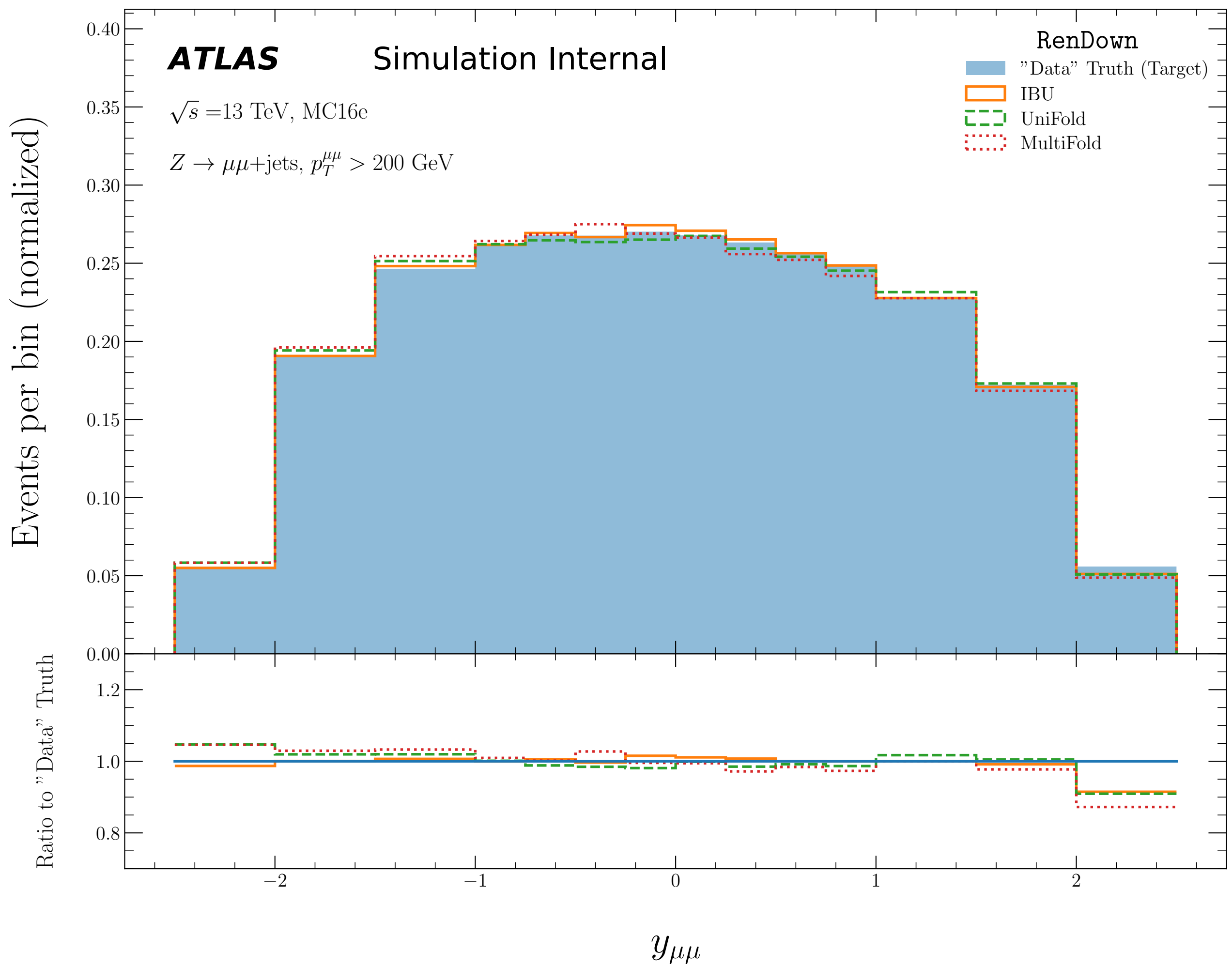
RenUp

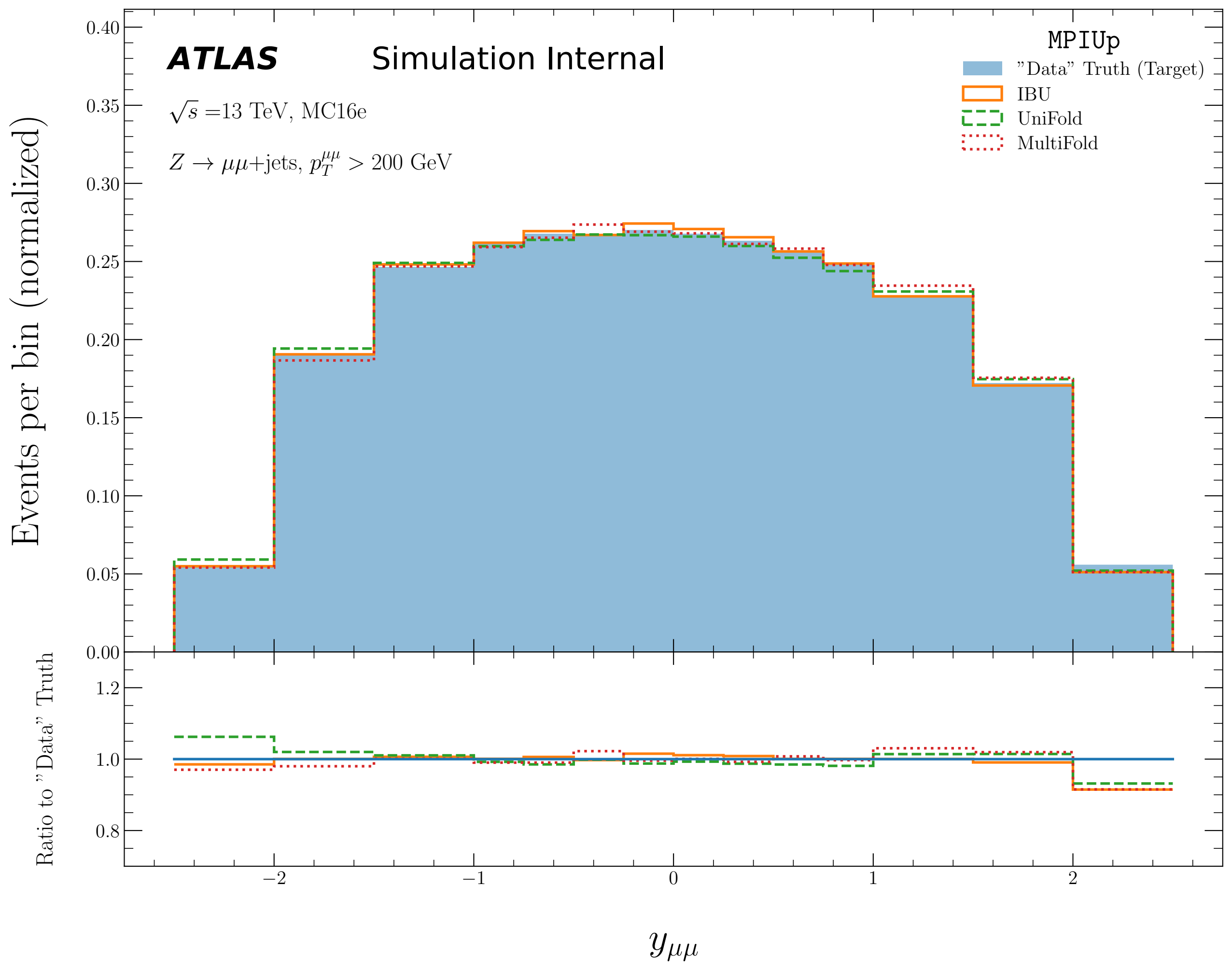
- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

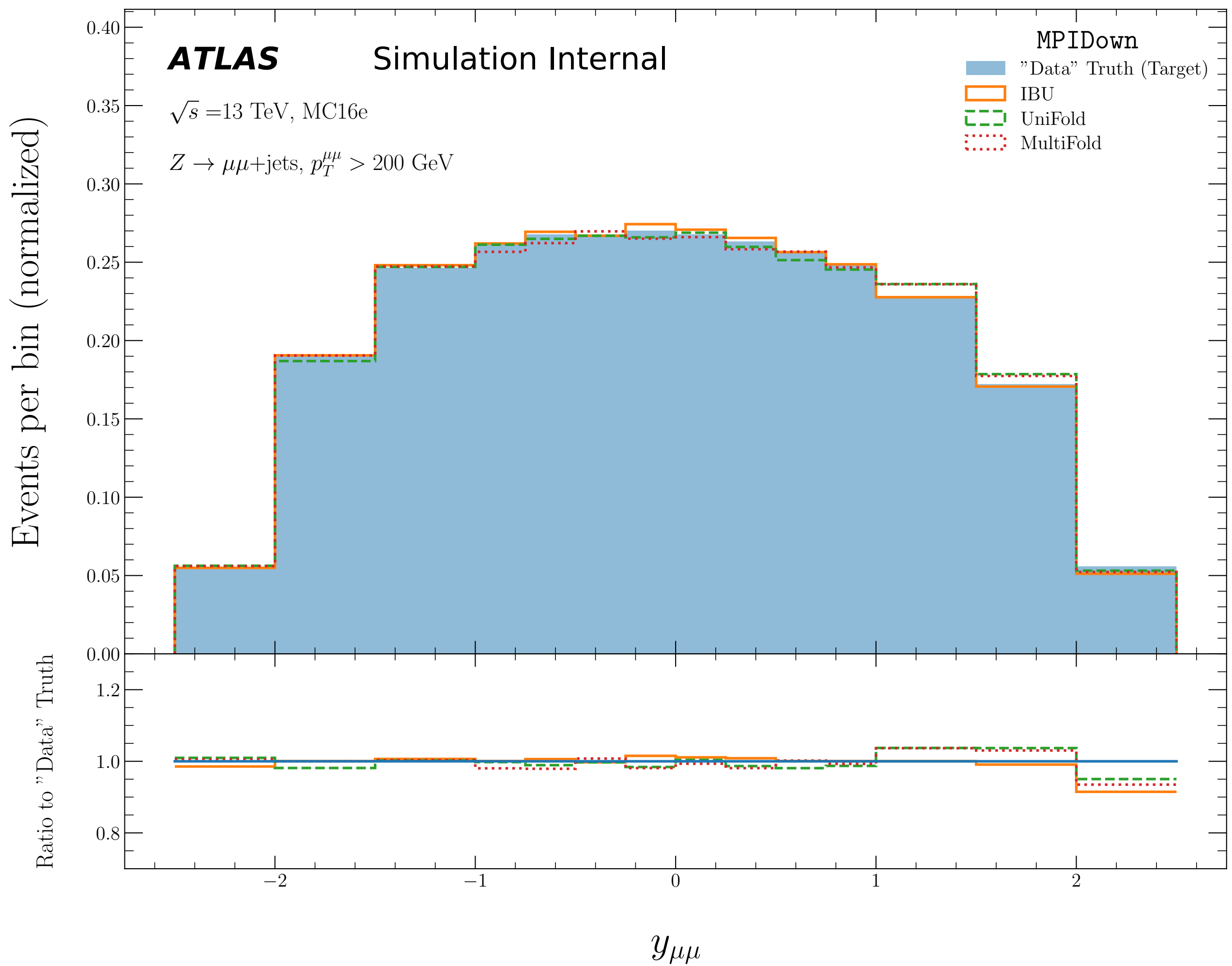
Ratio to "Data" Truth

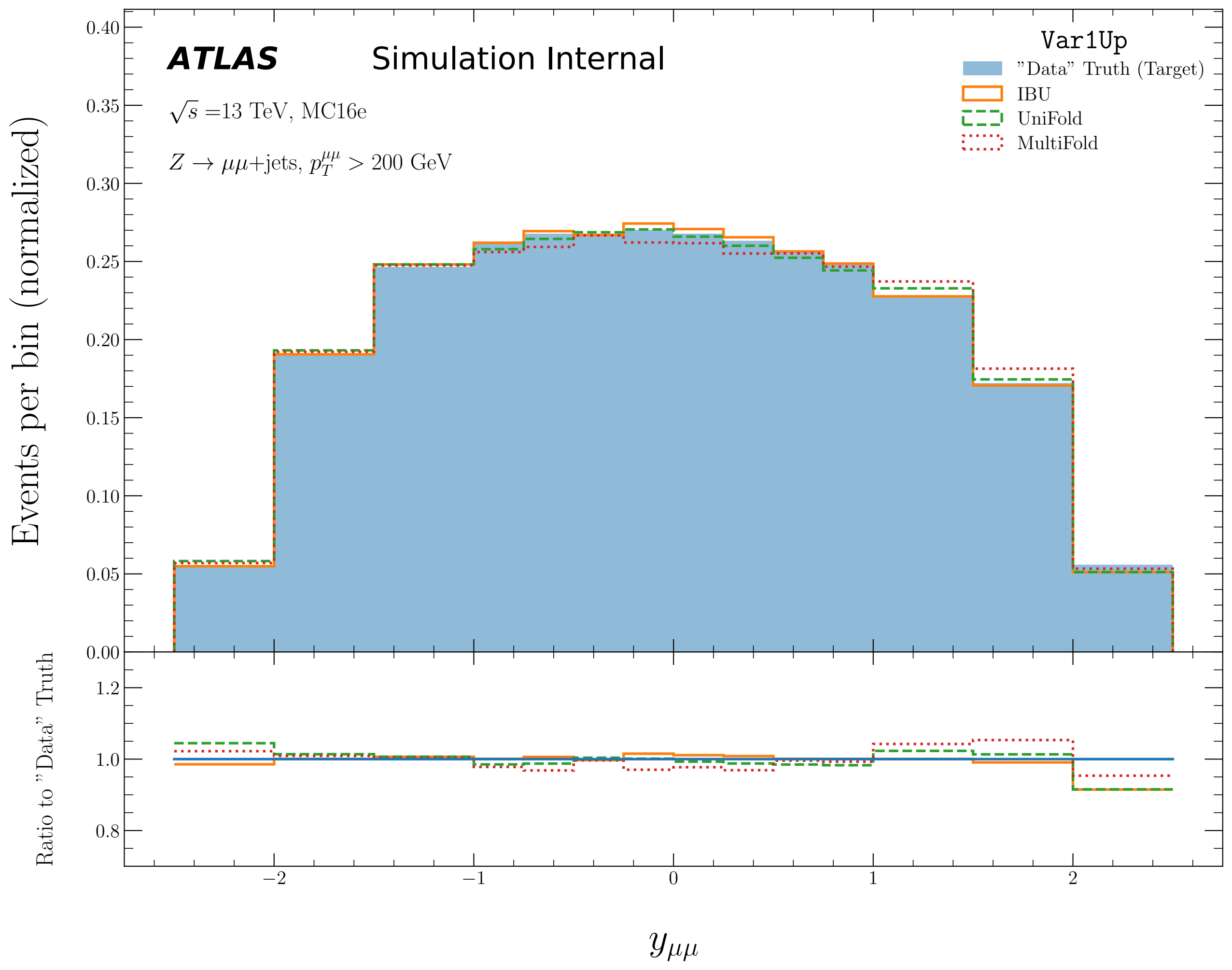
$y_{\mu\mu}$

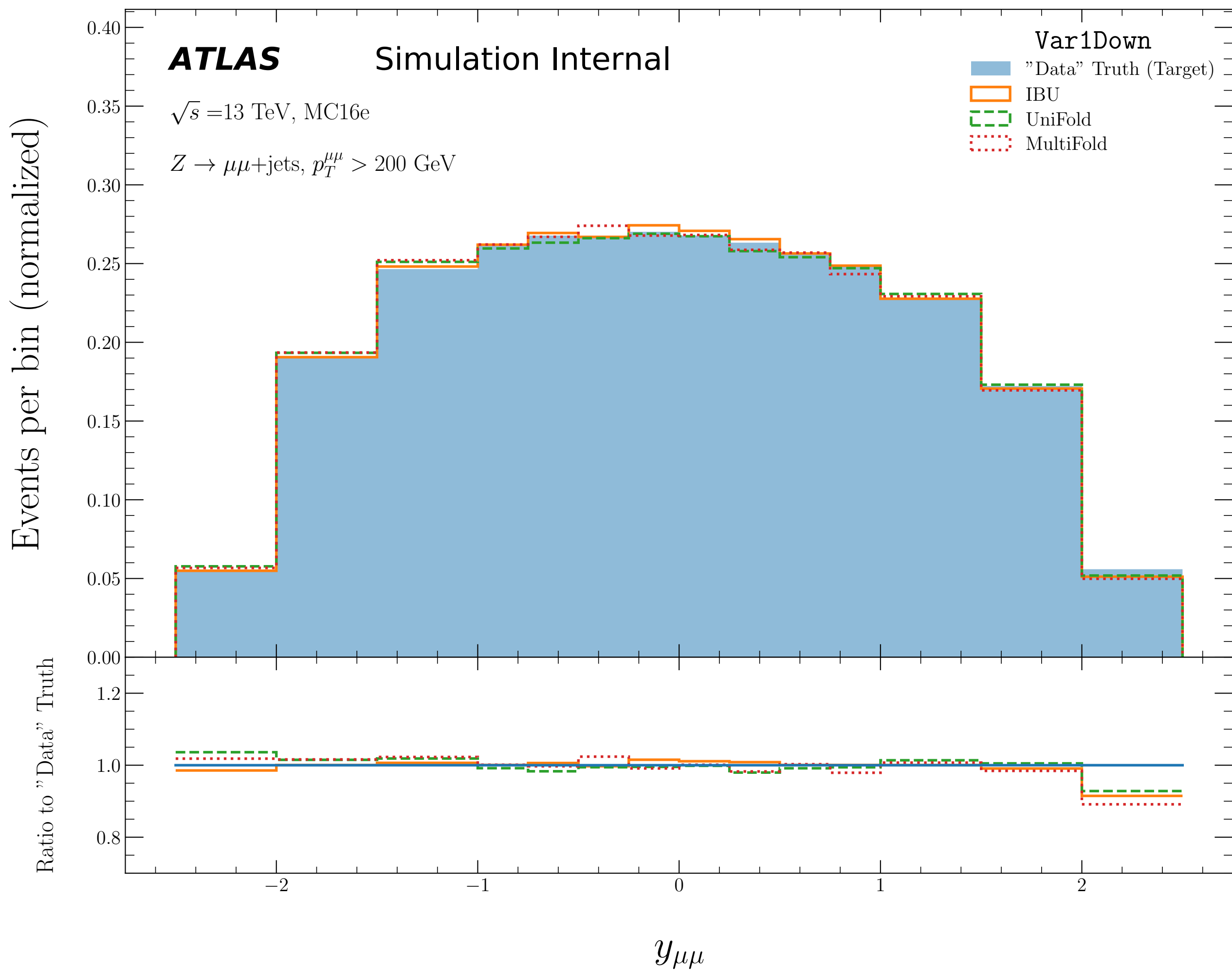


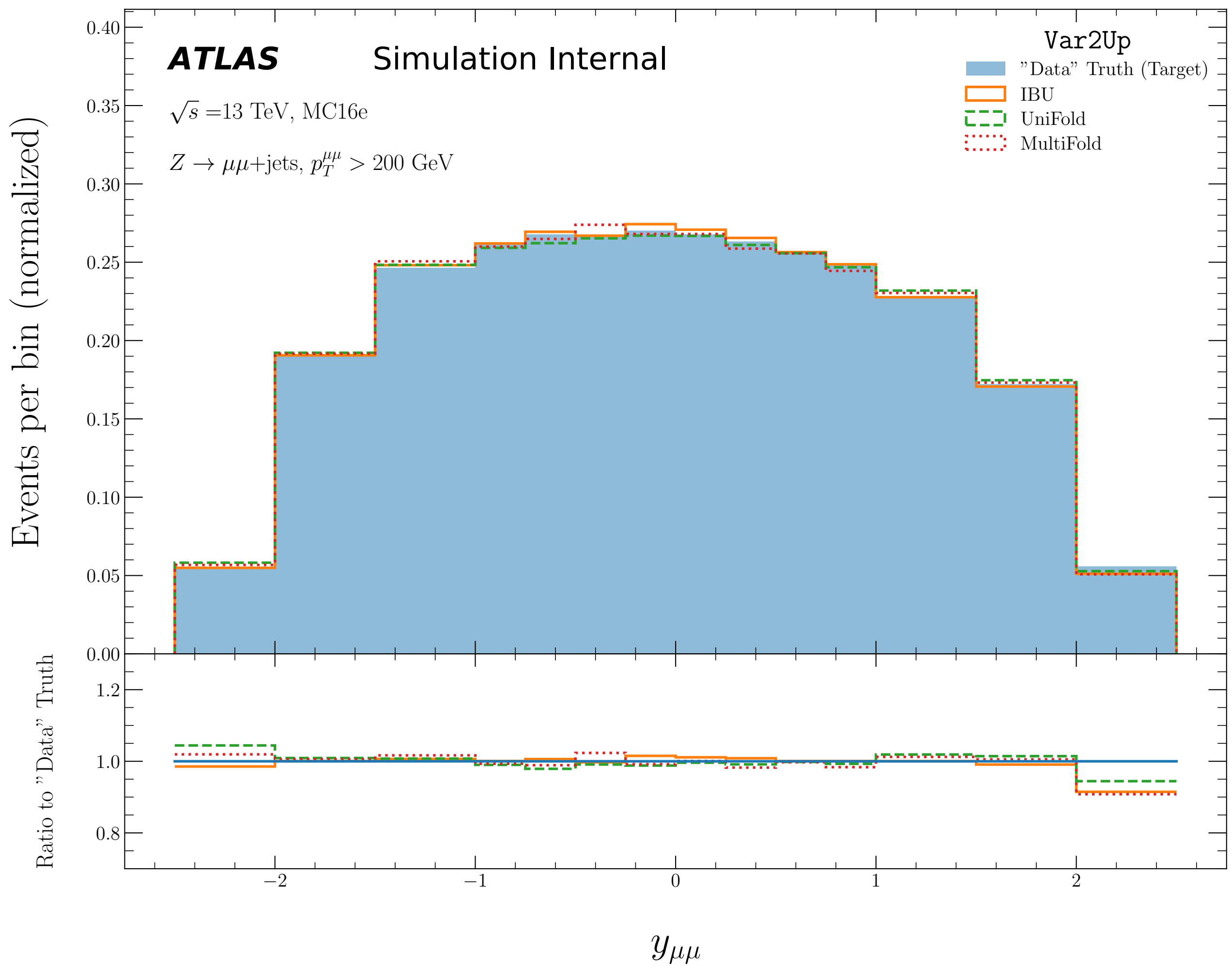


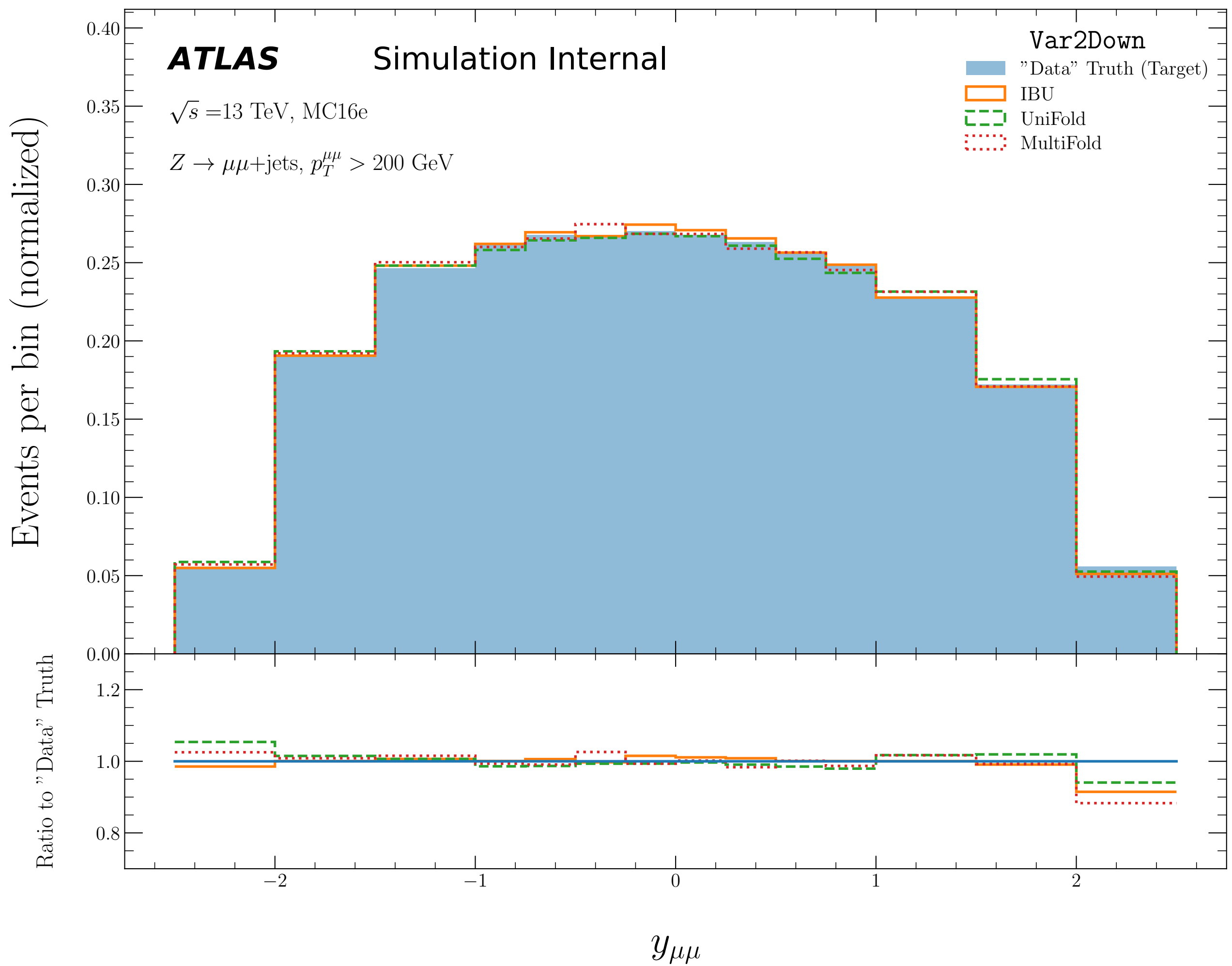


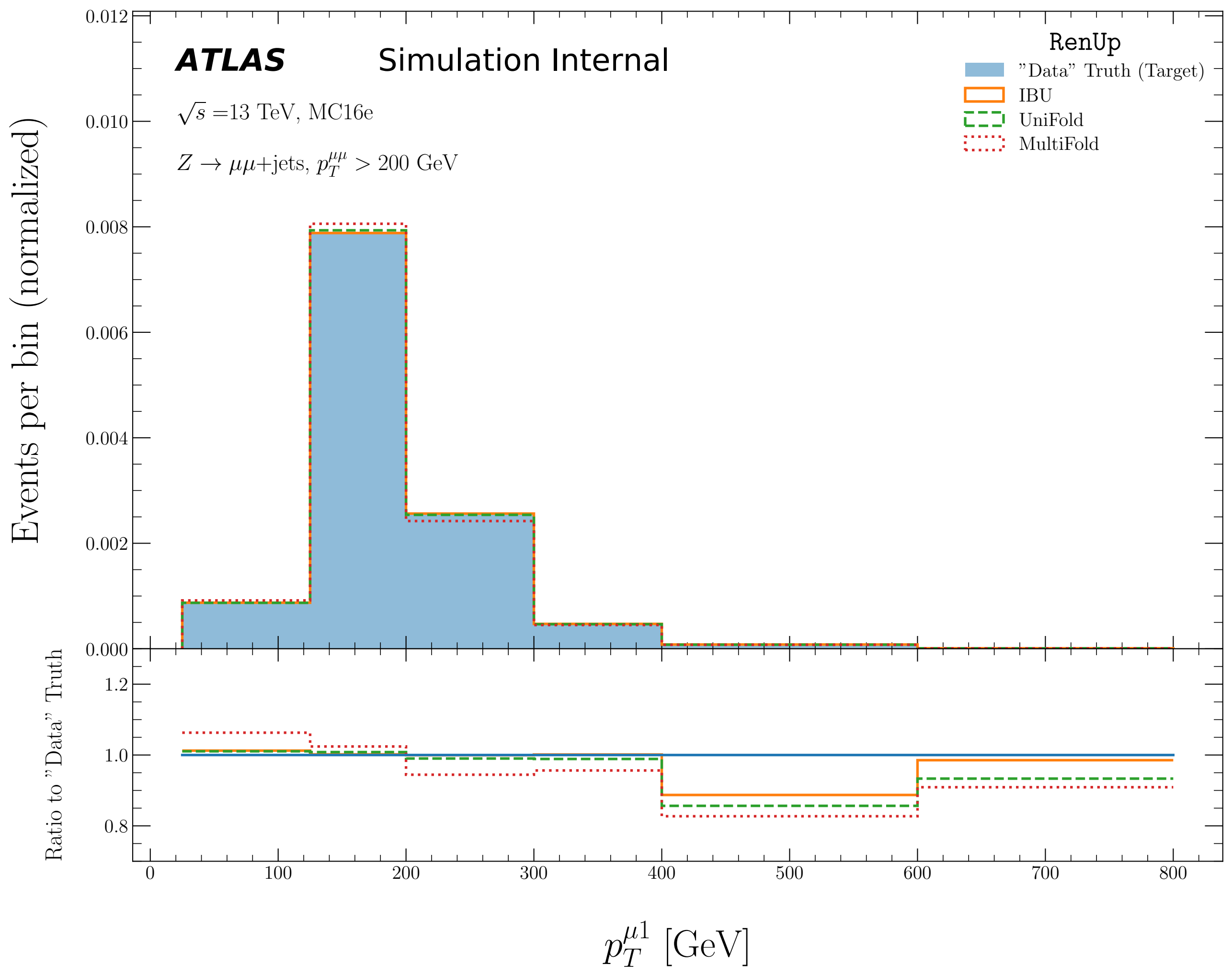


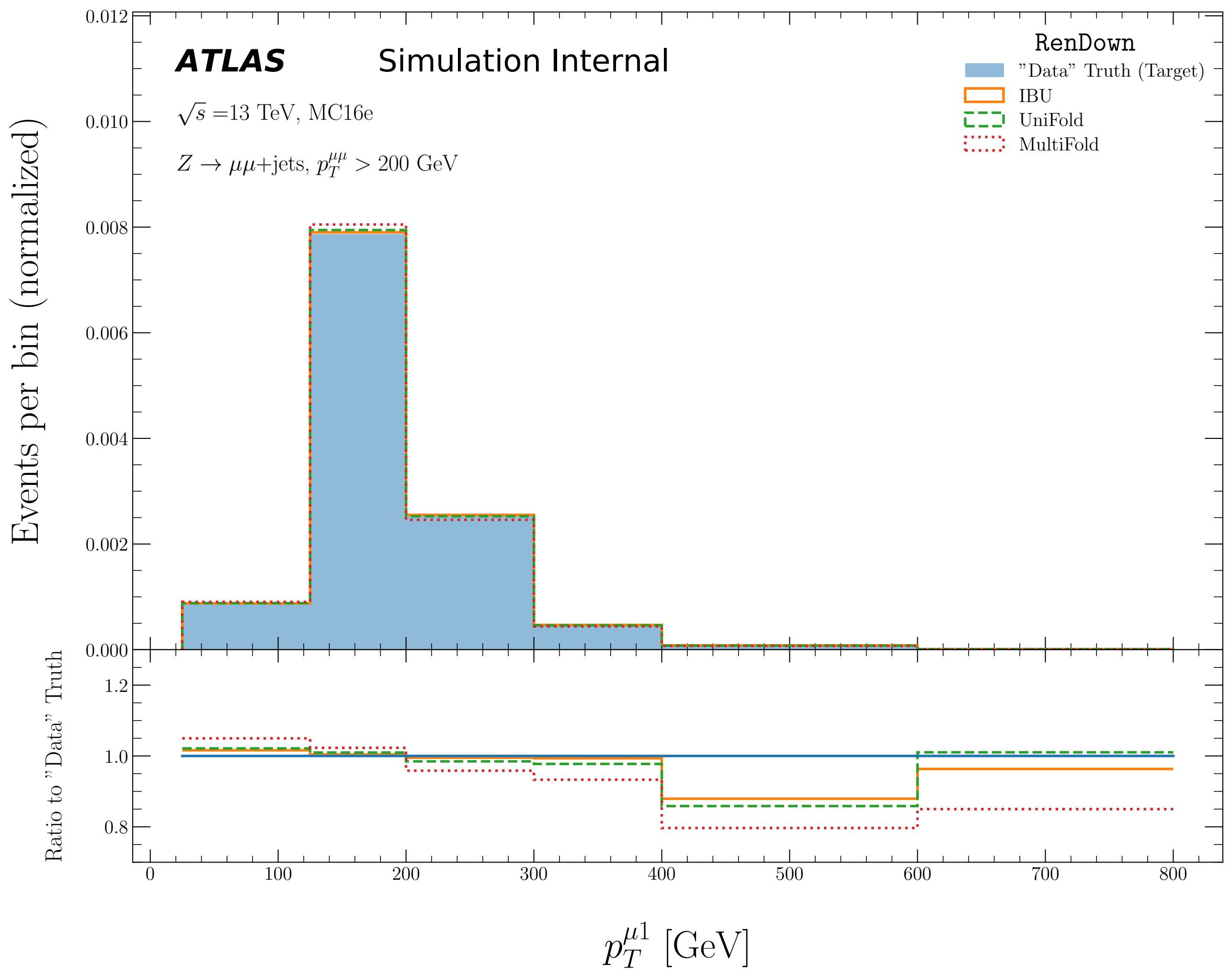


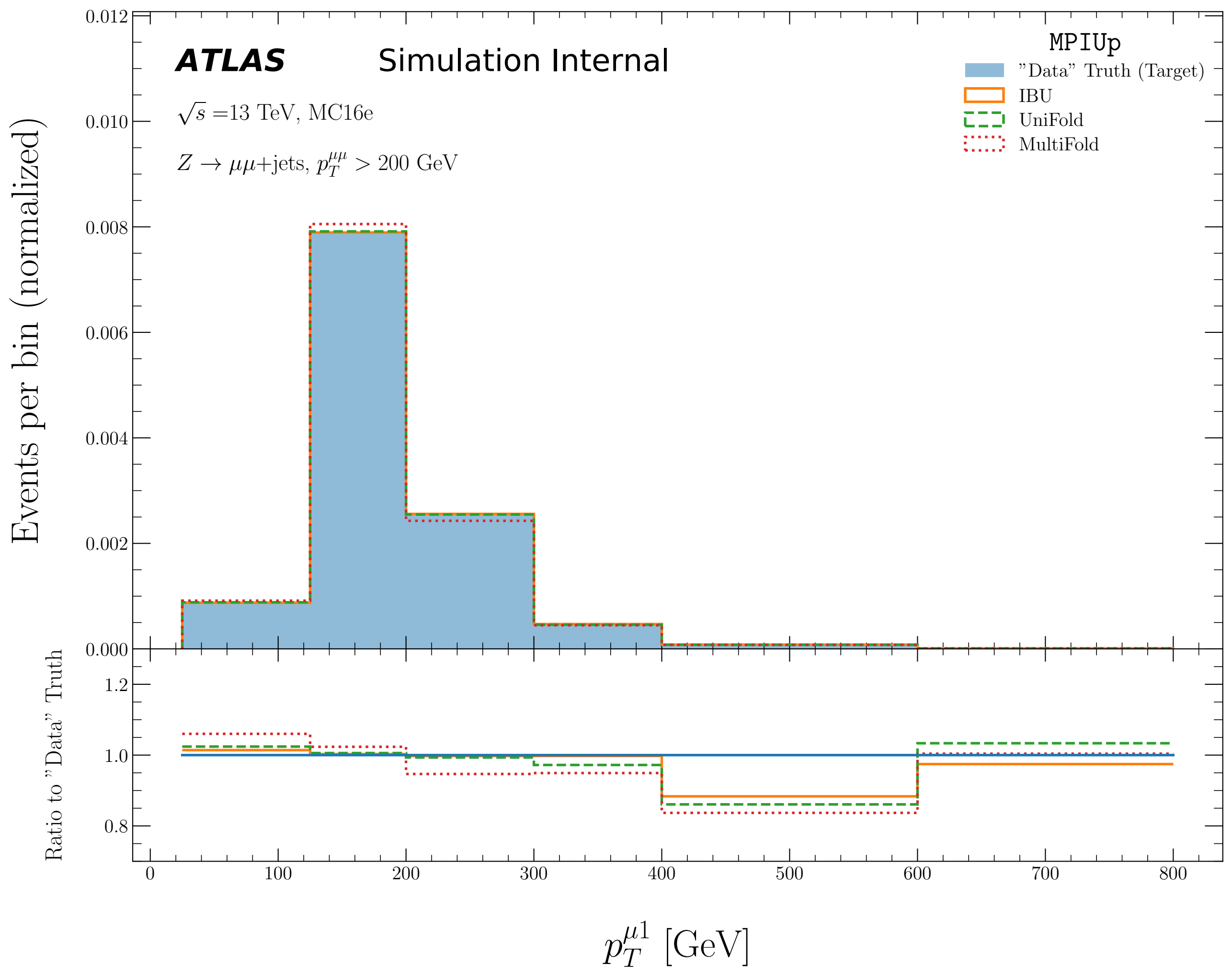


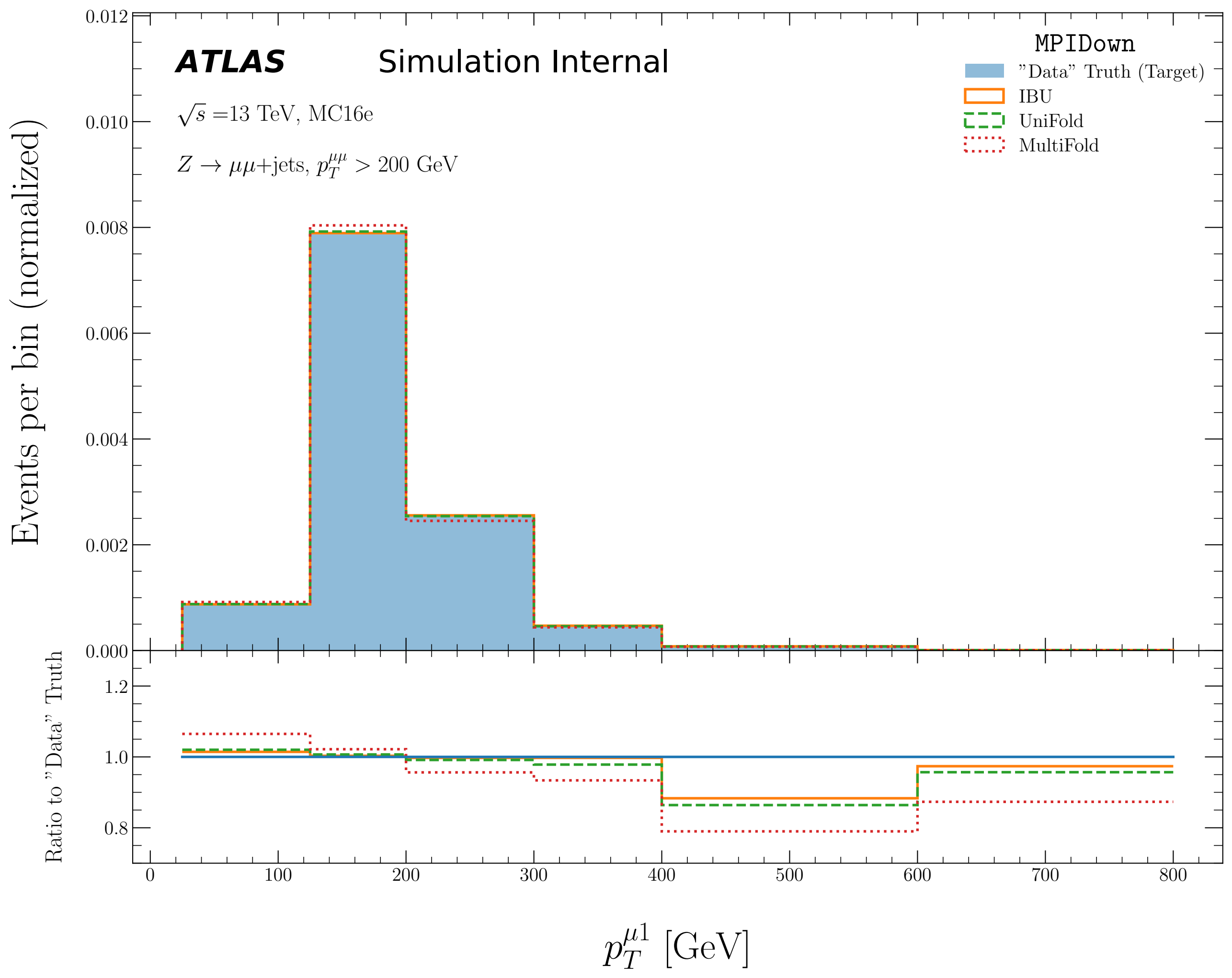


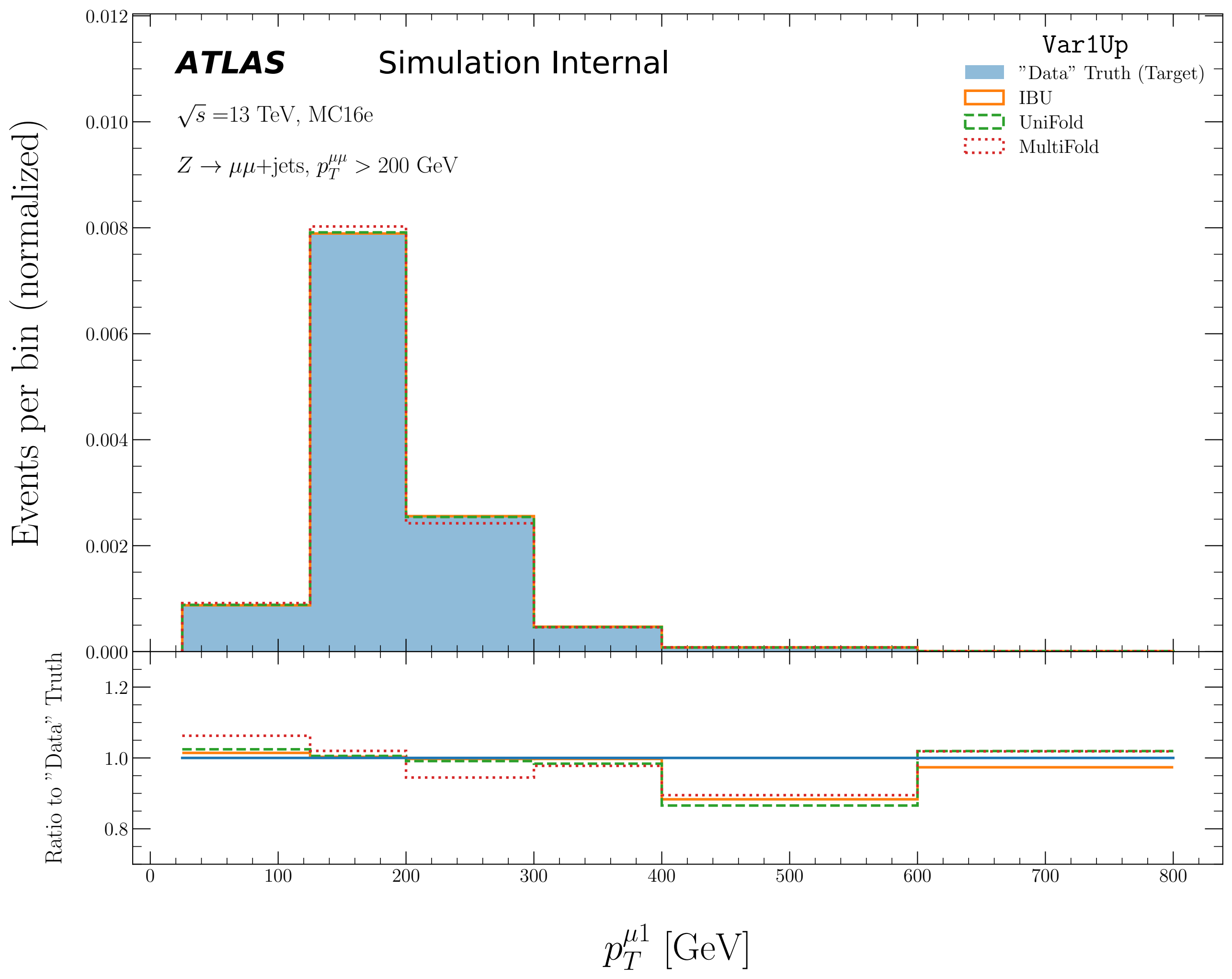


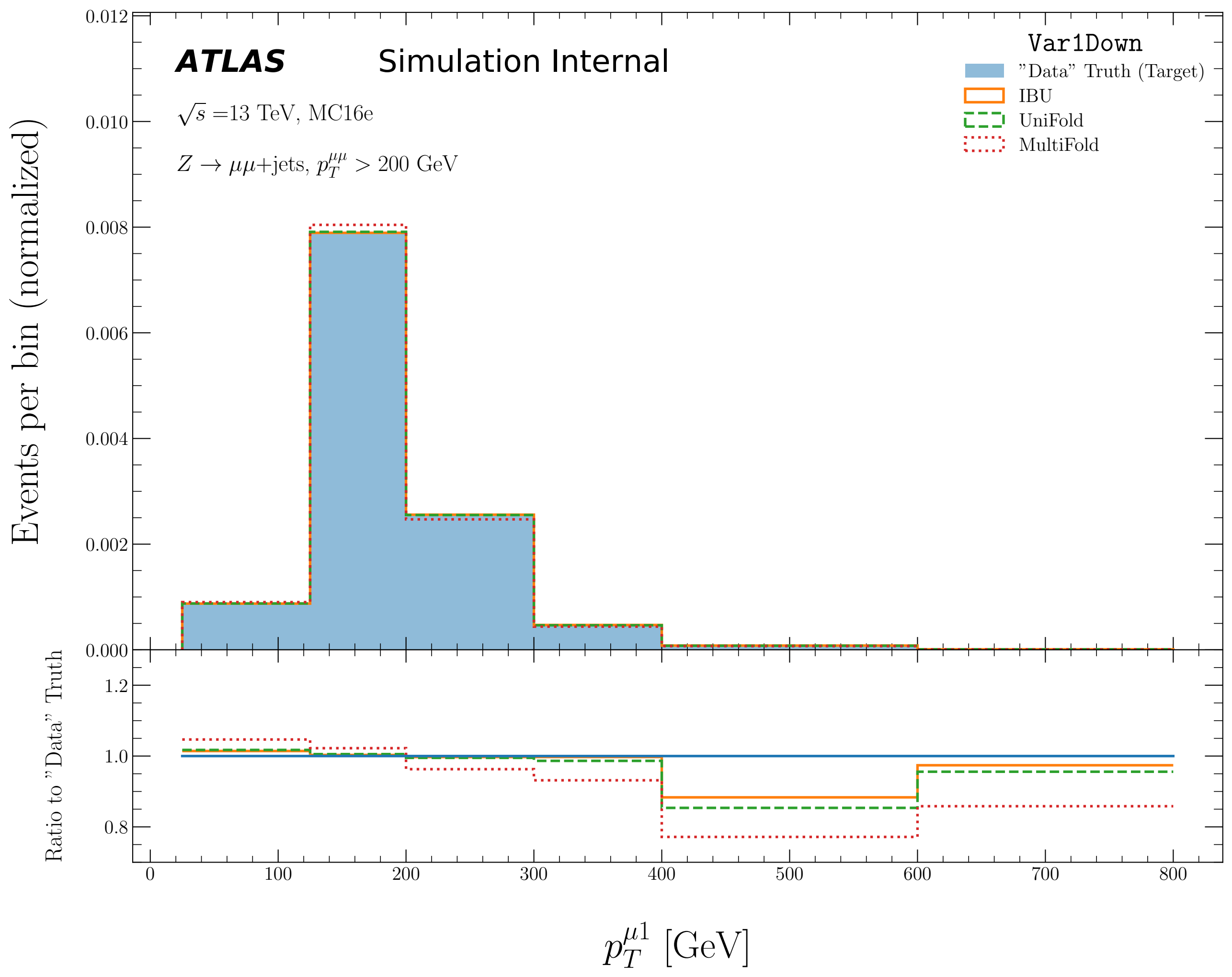


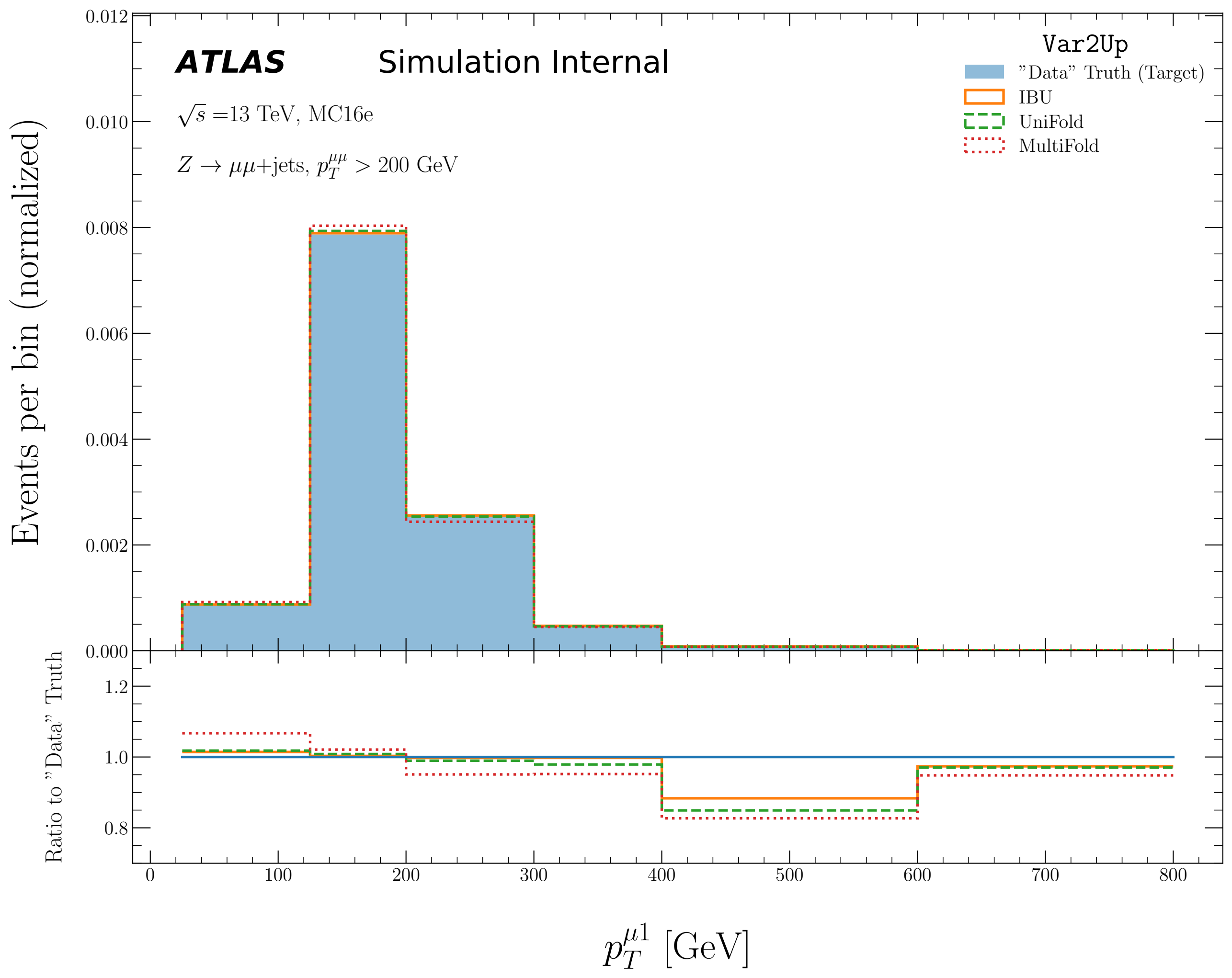


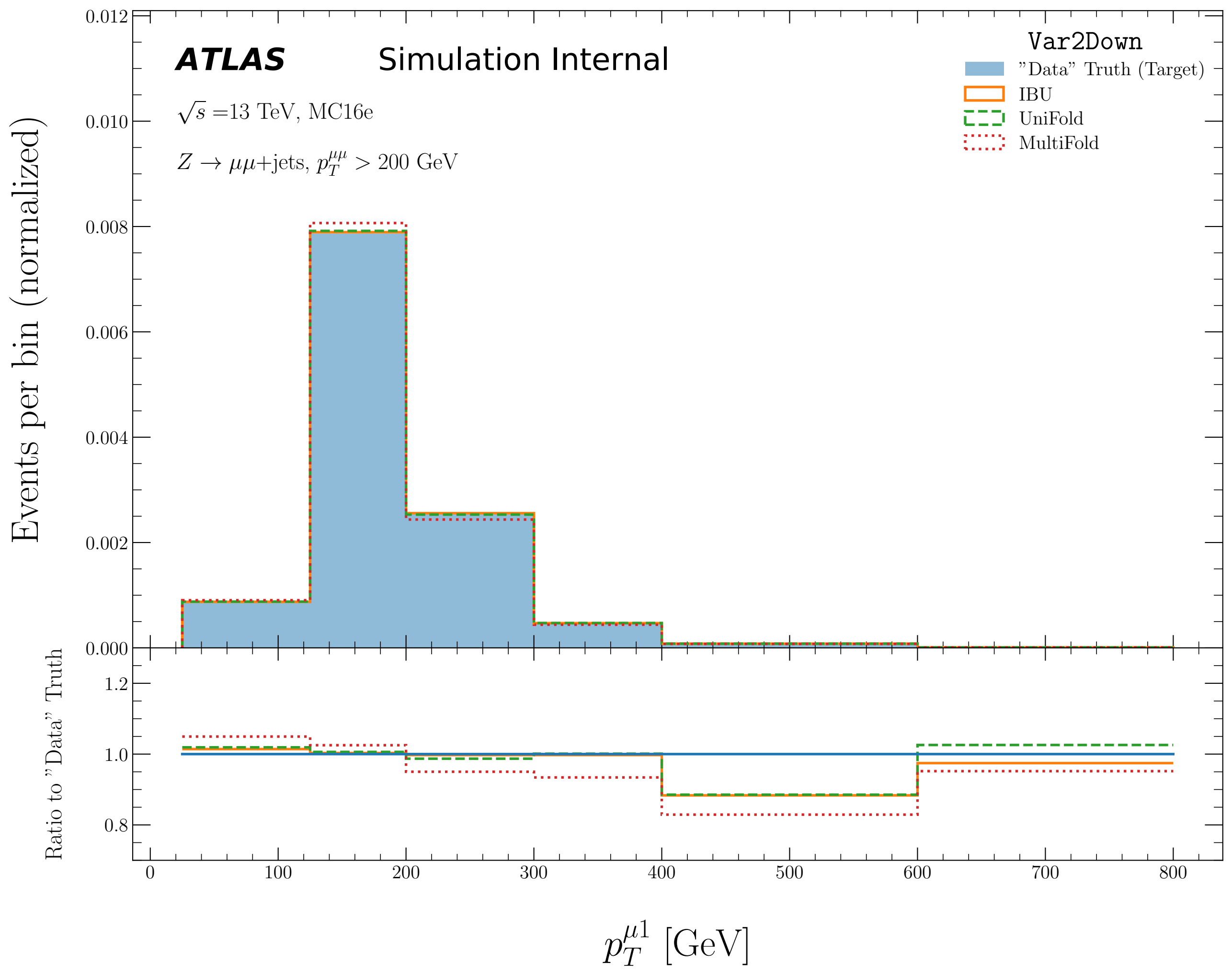


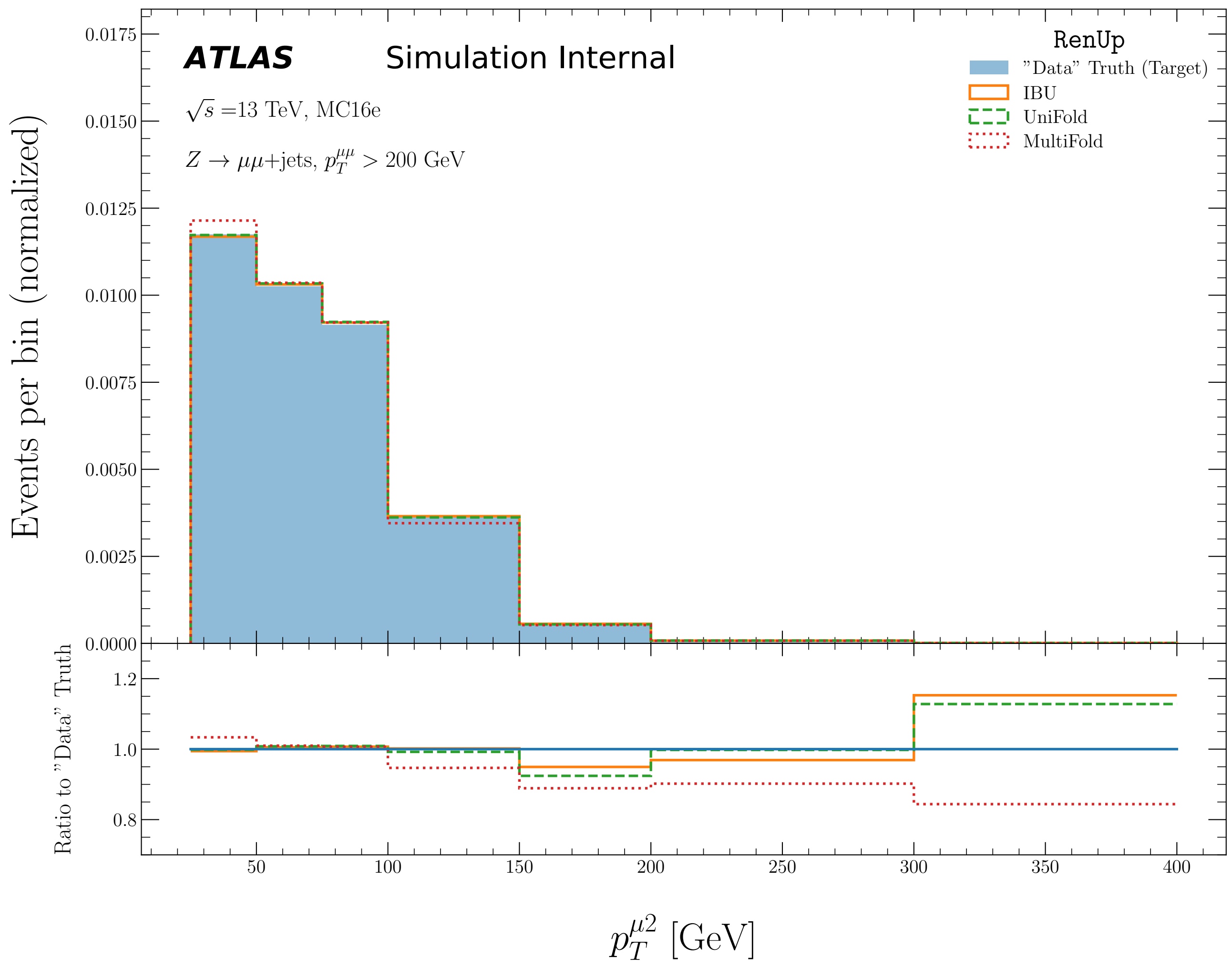


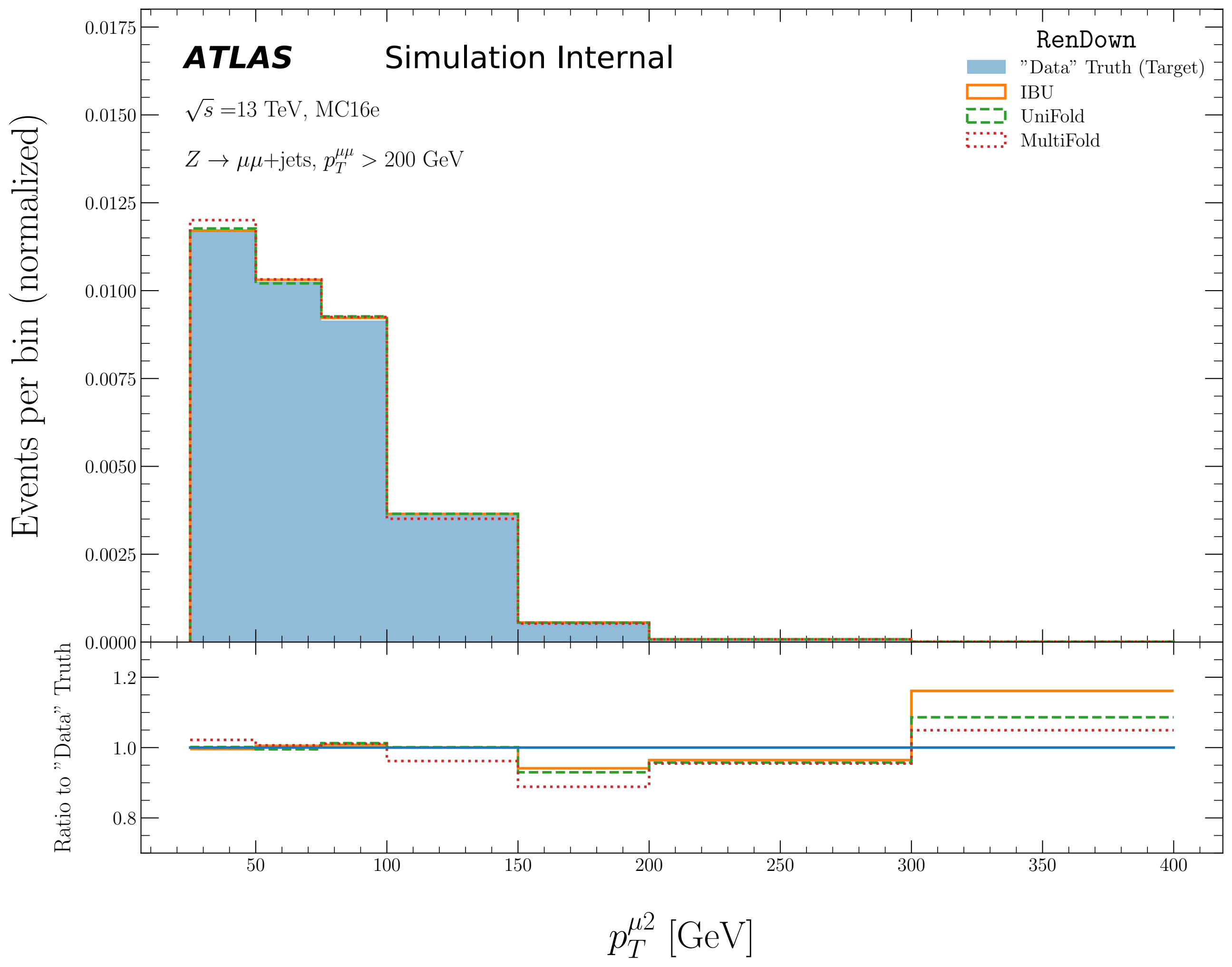


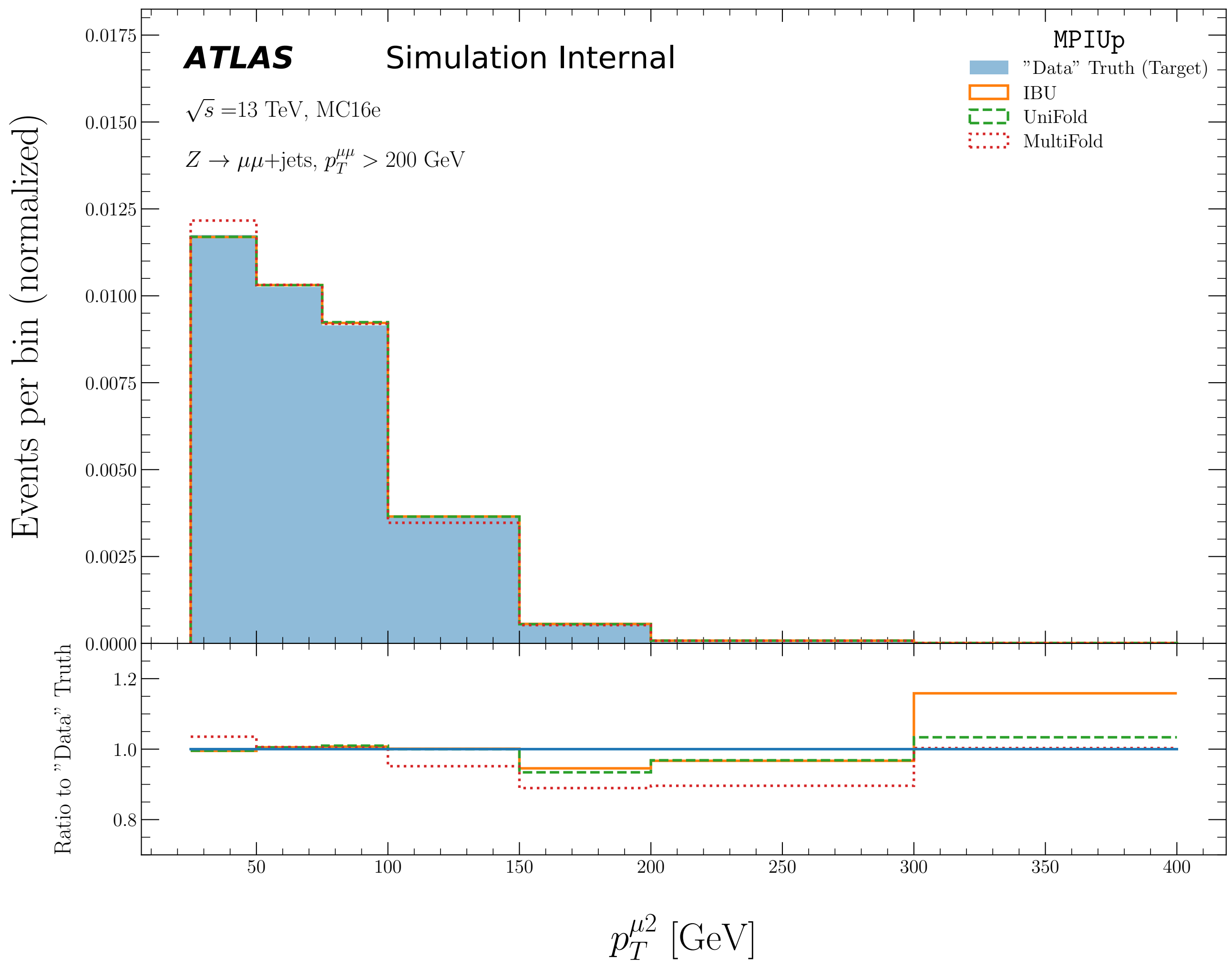


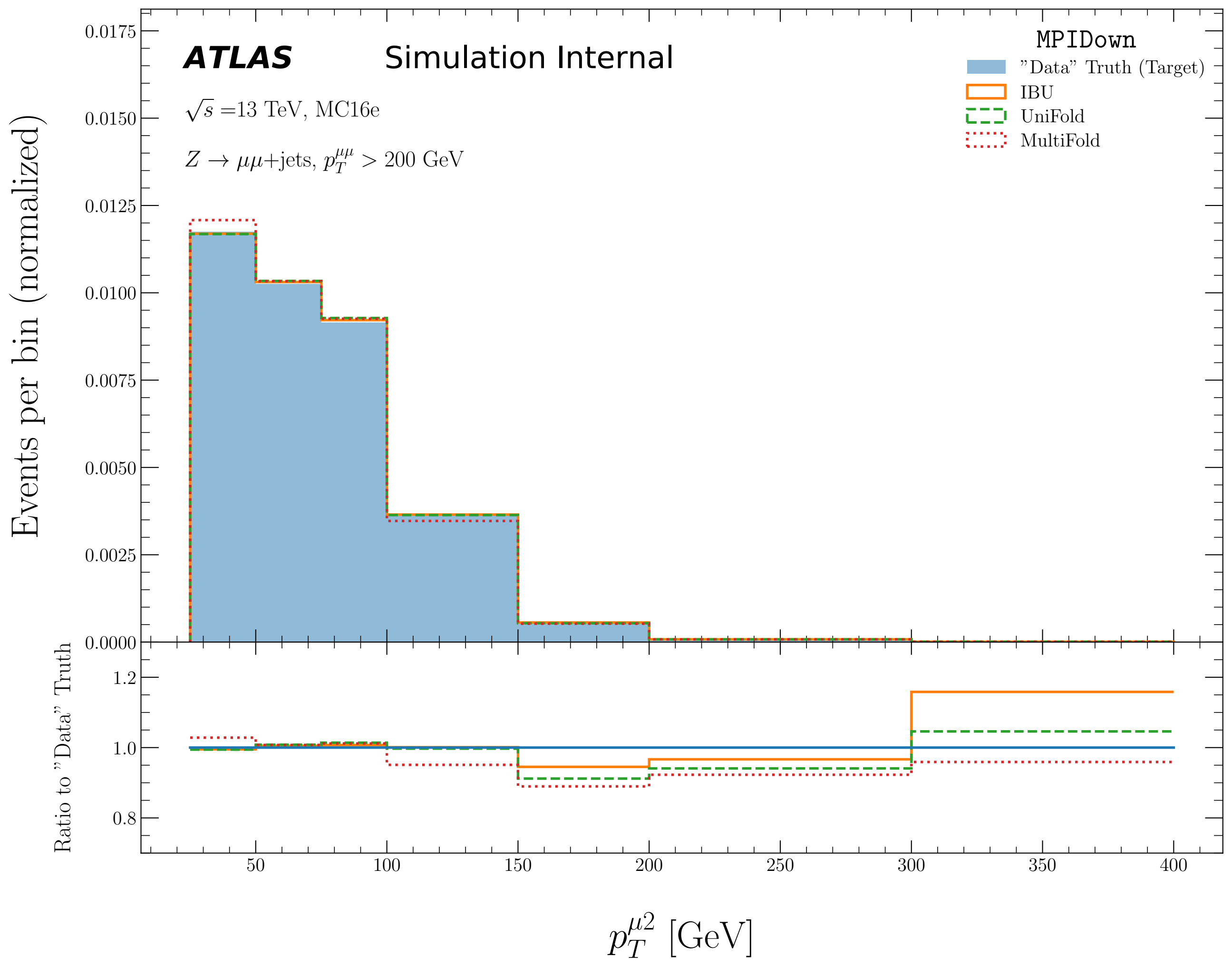


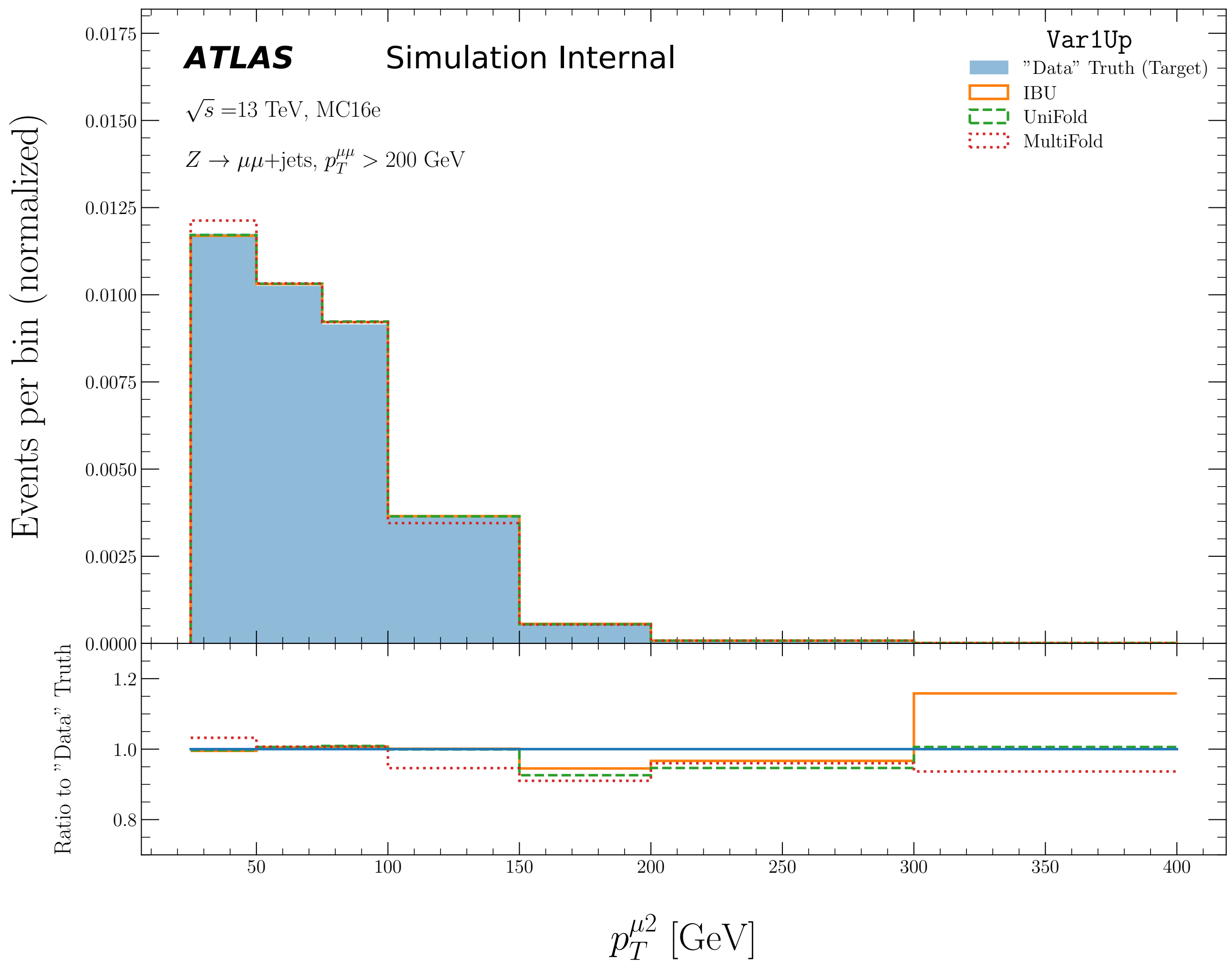


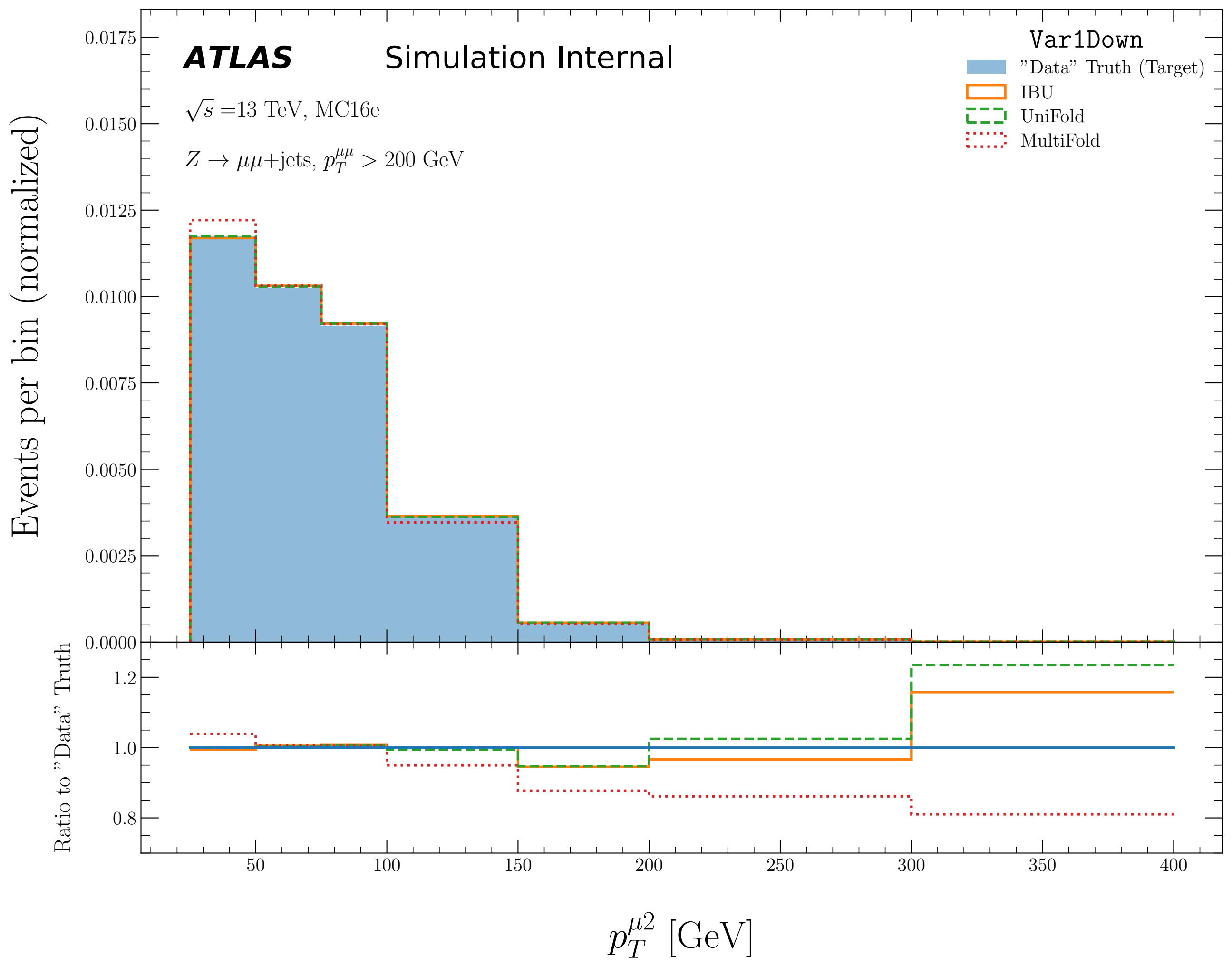


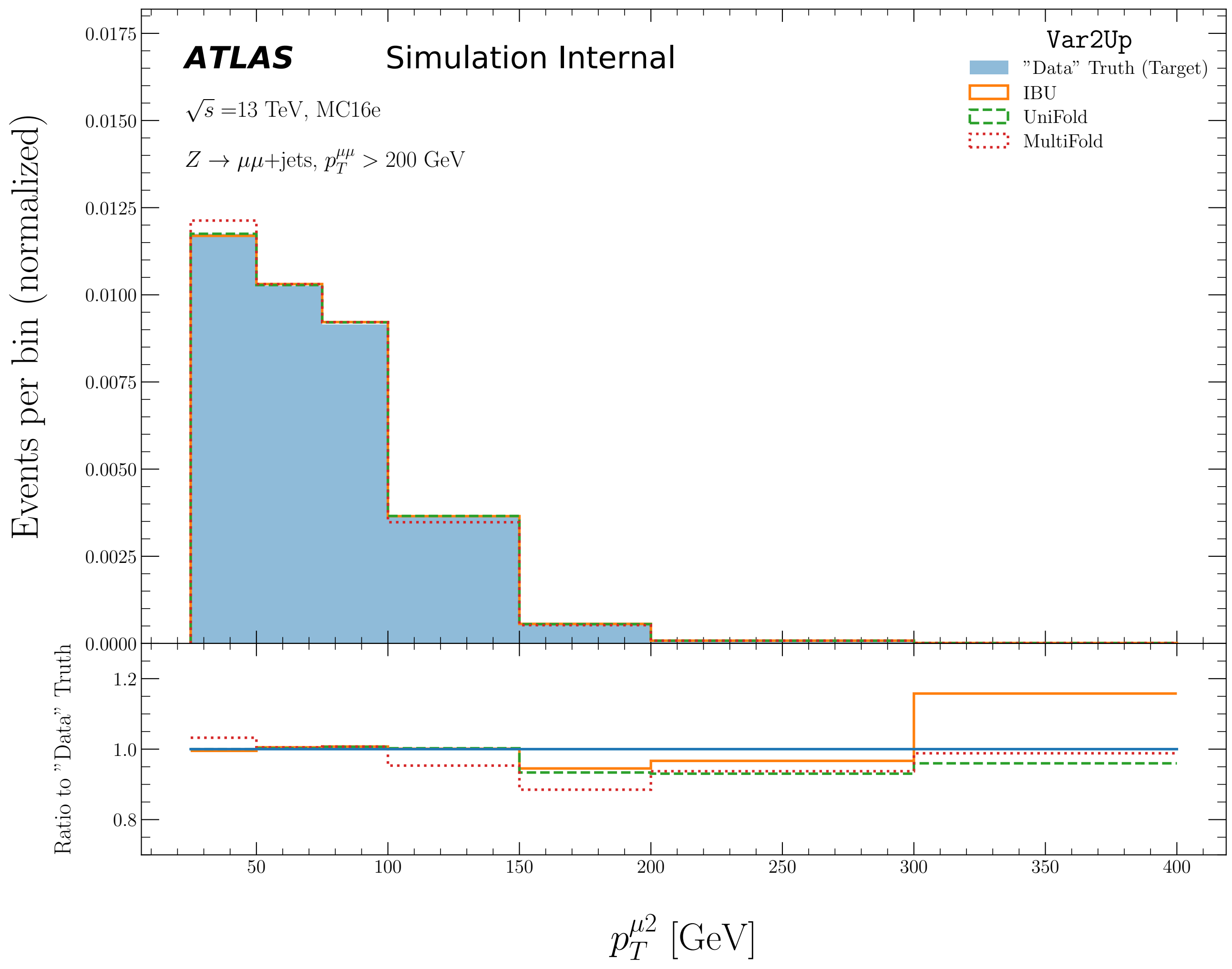


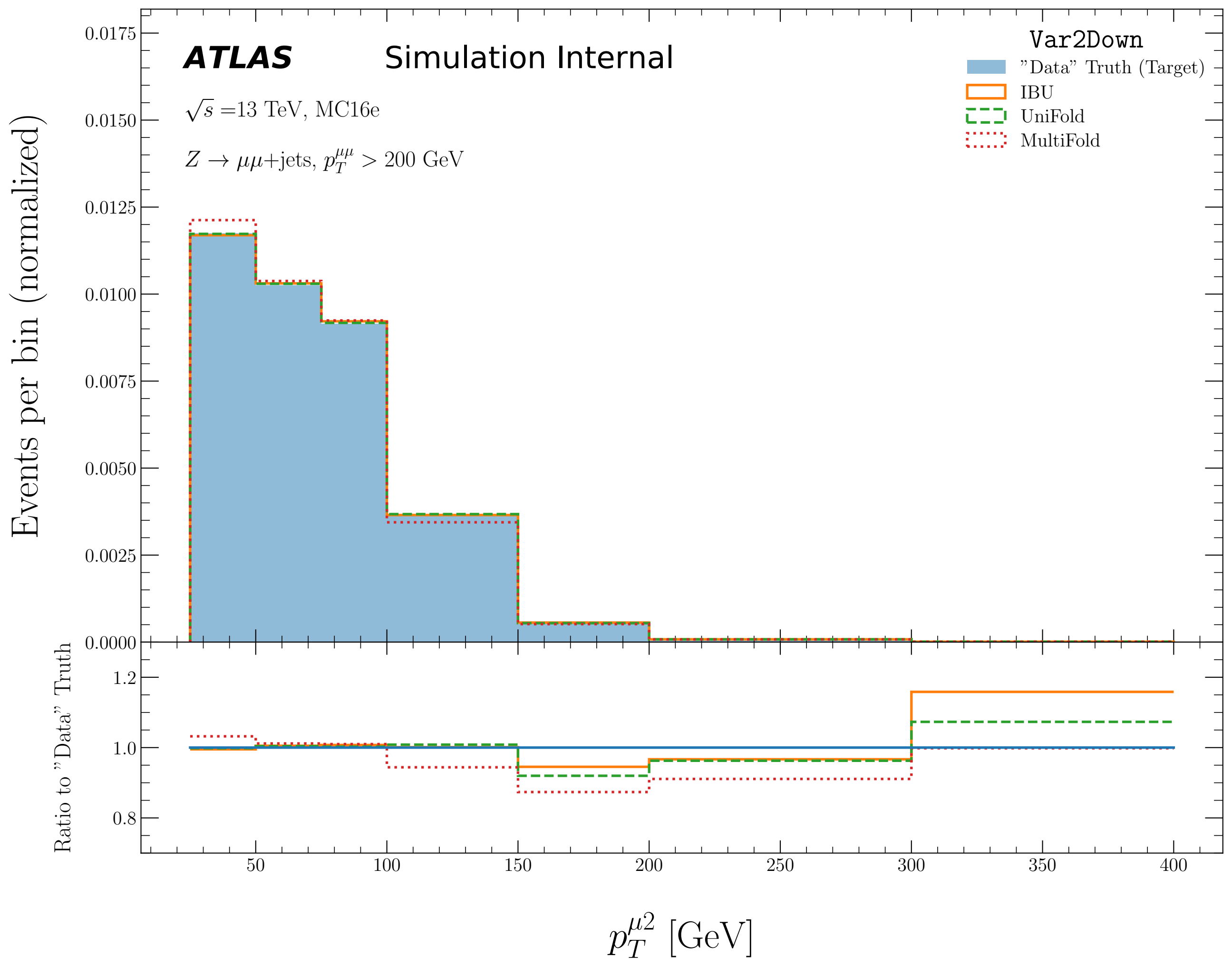


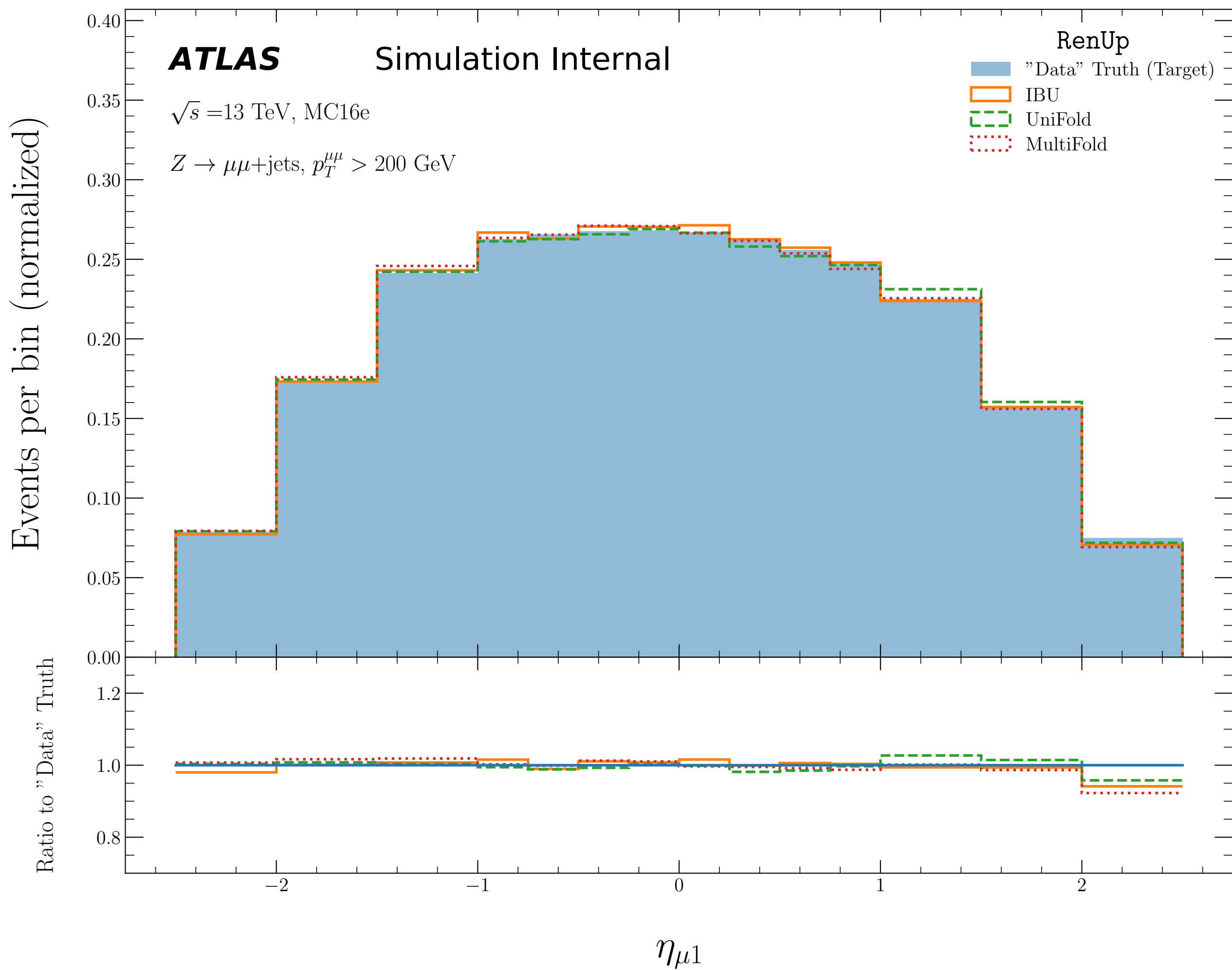


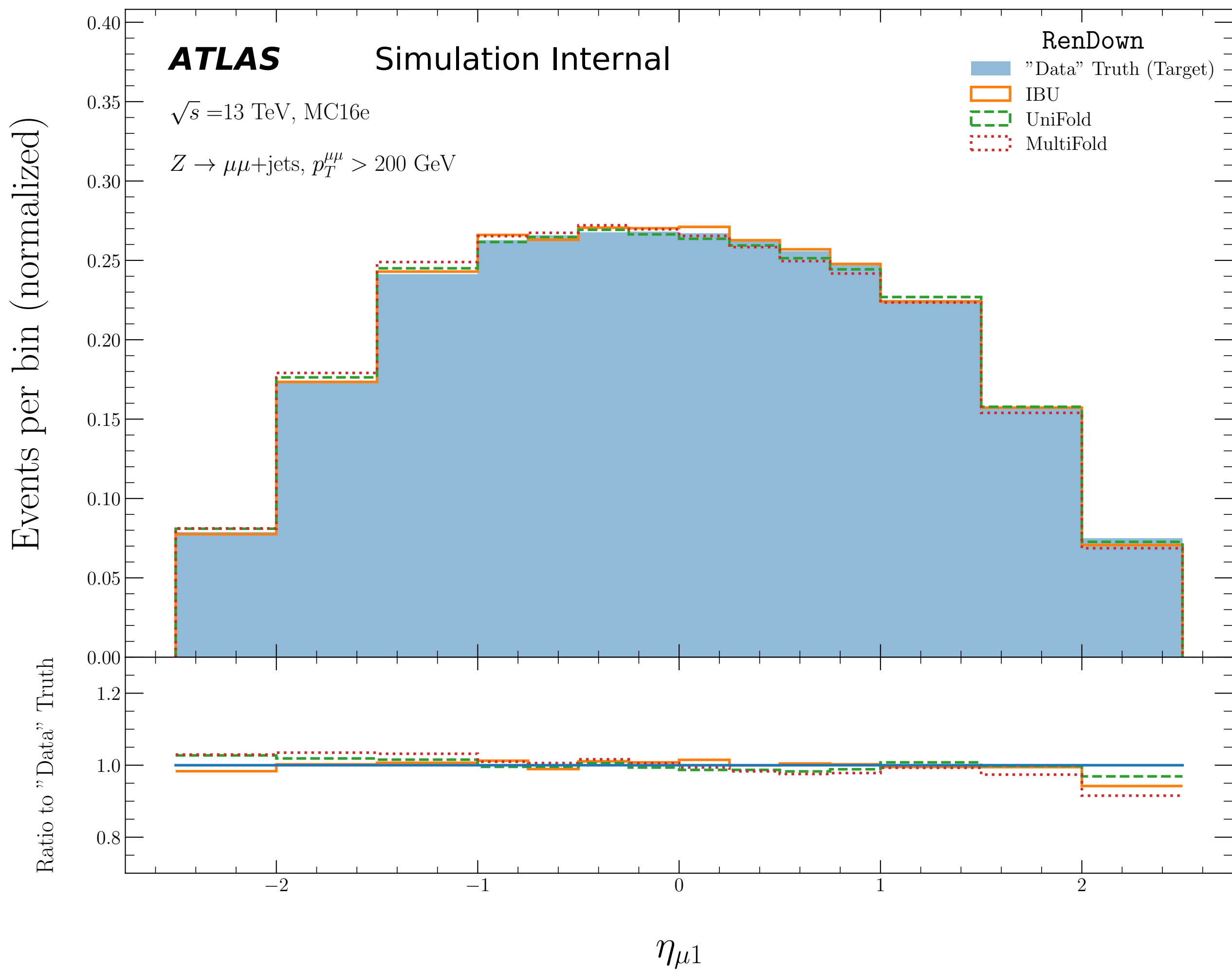


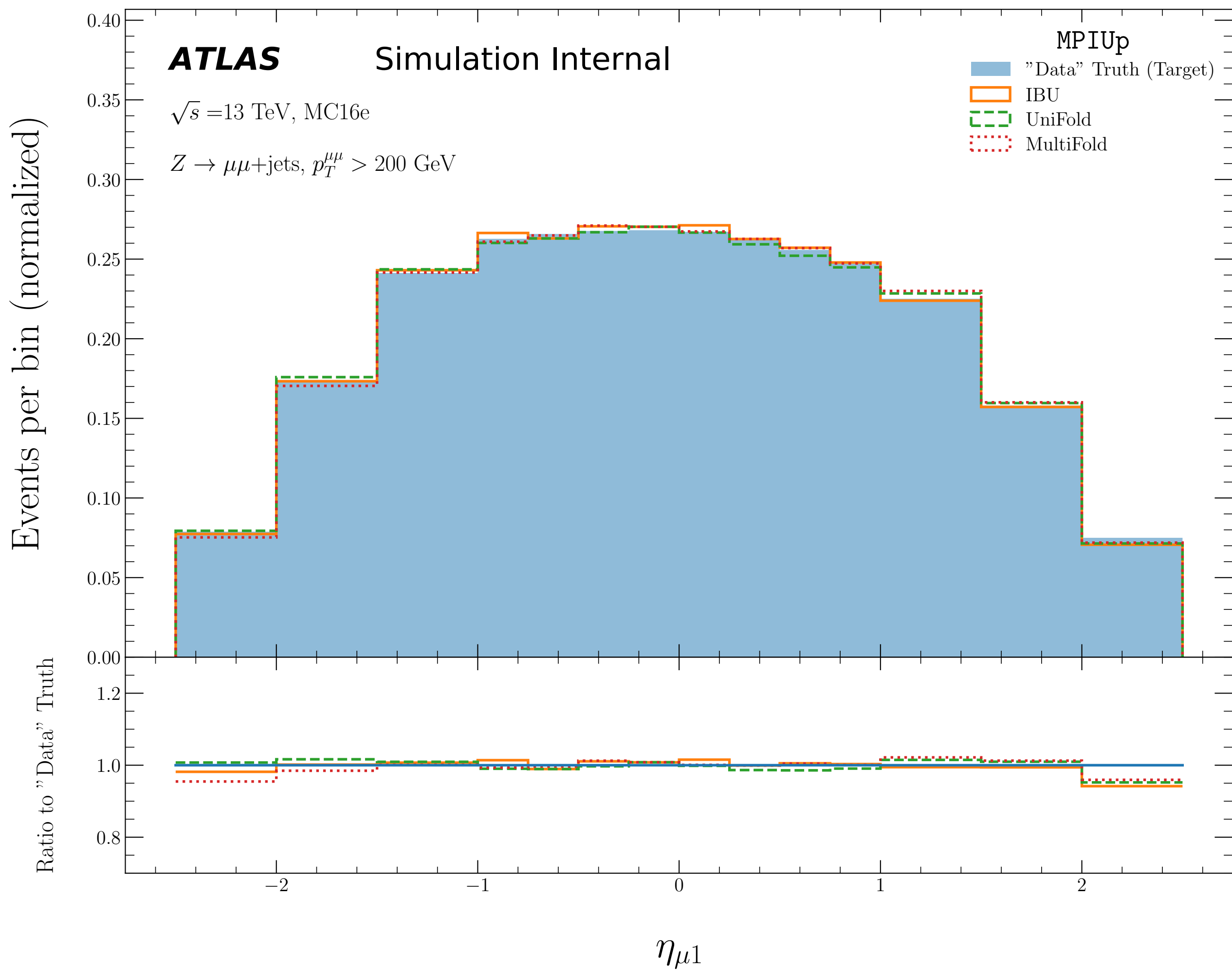


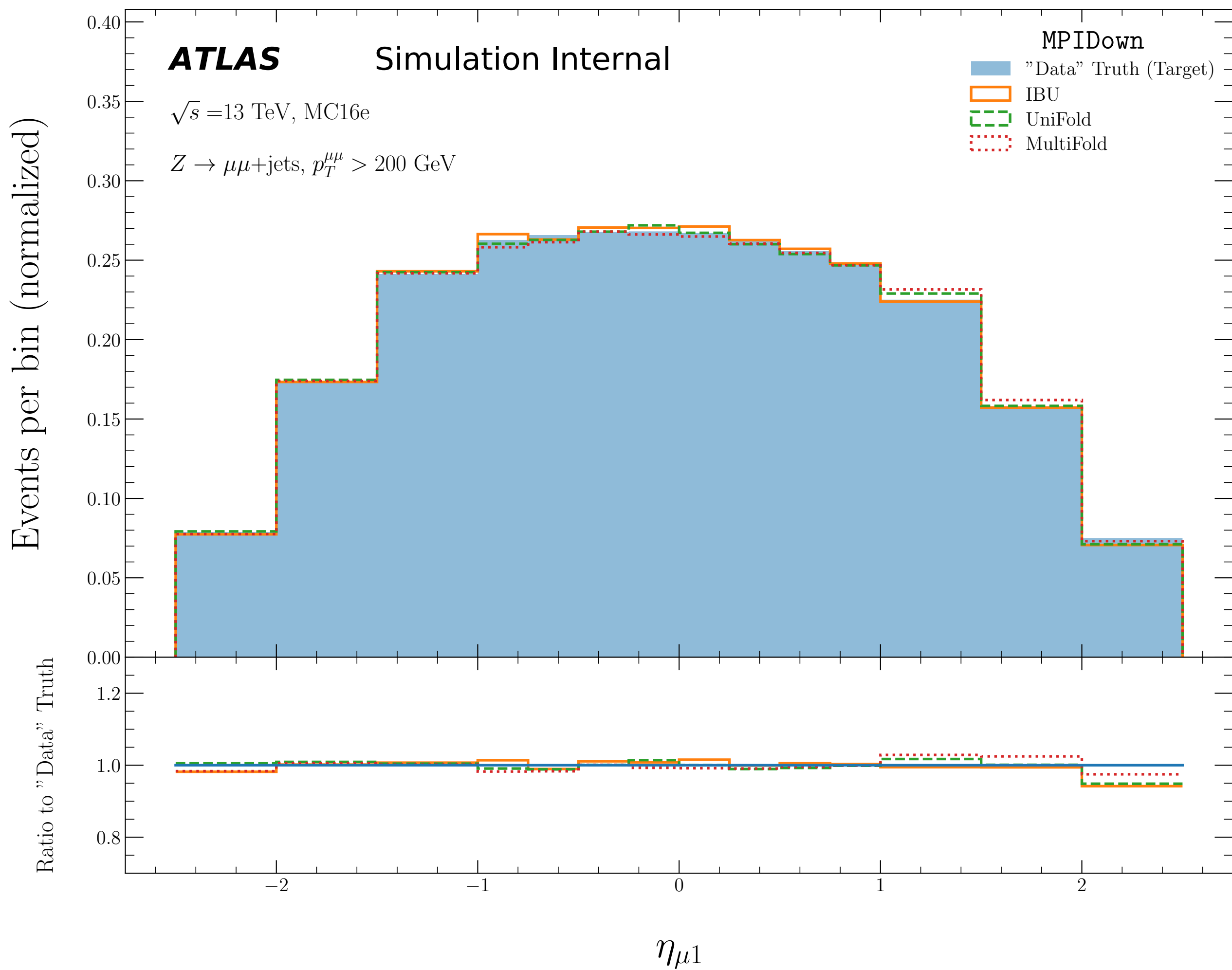


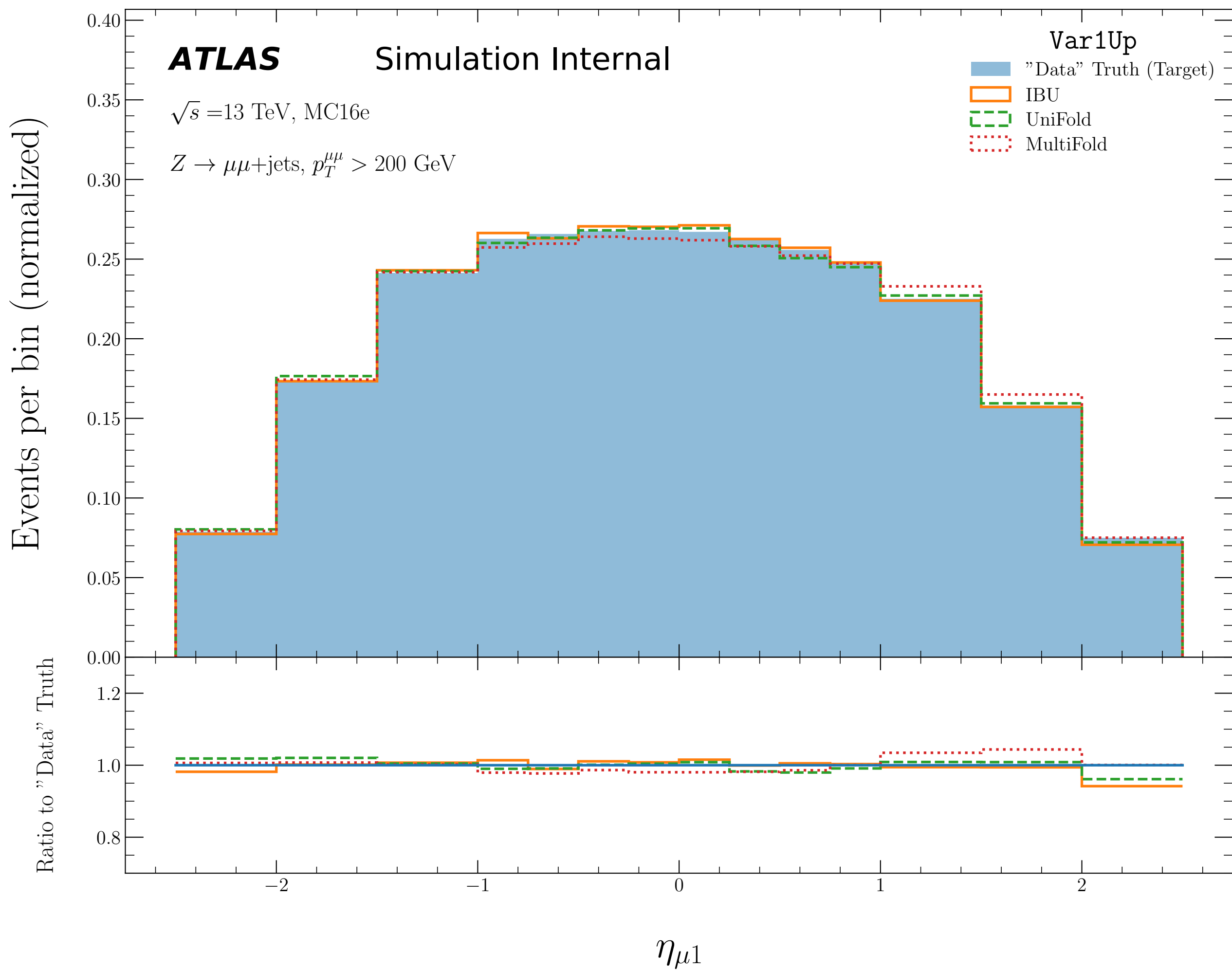


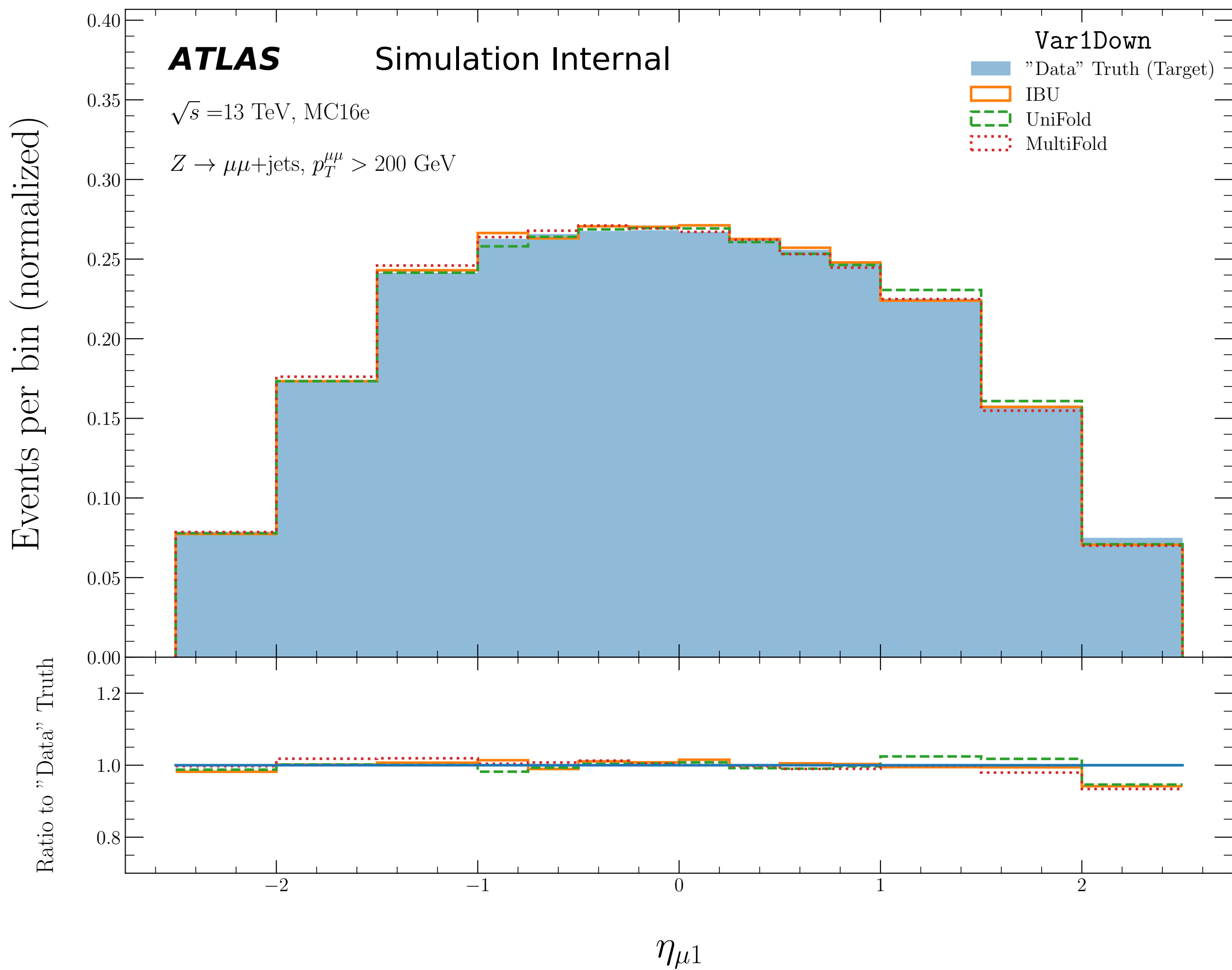


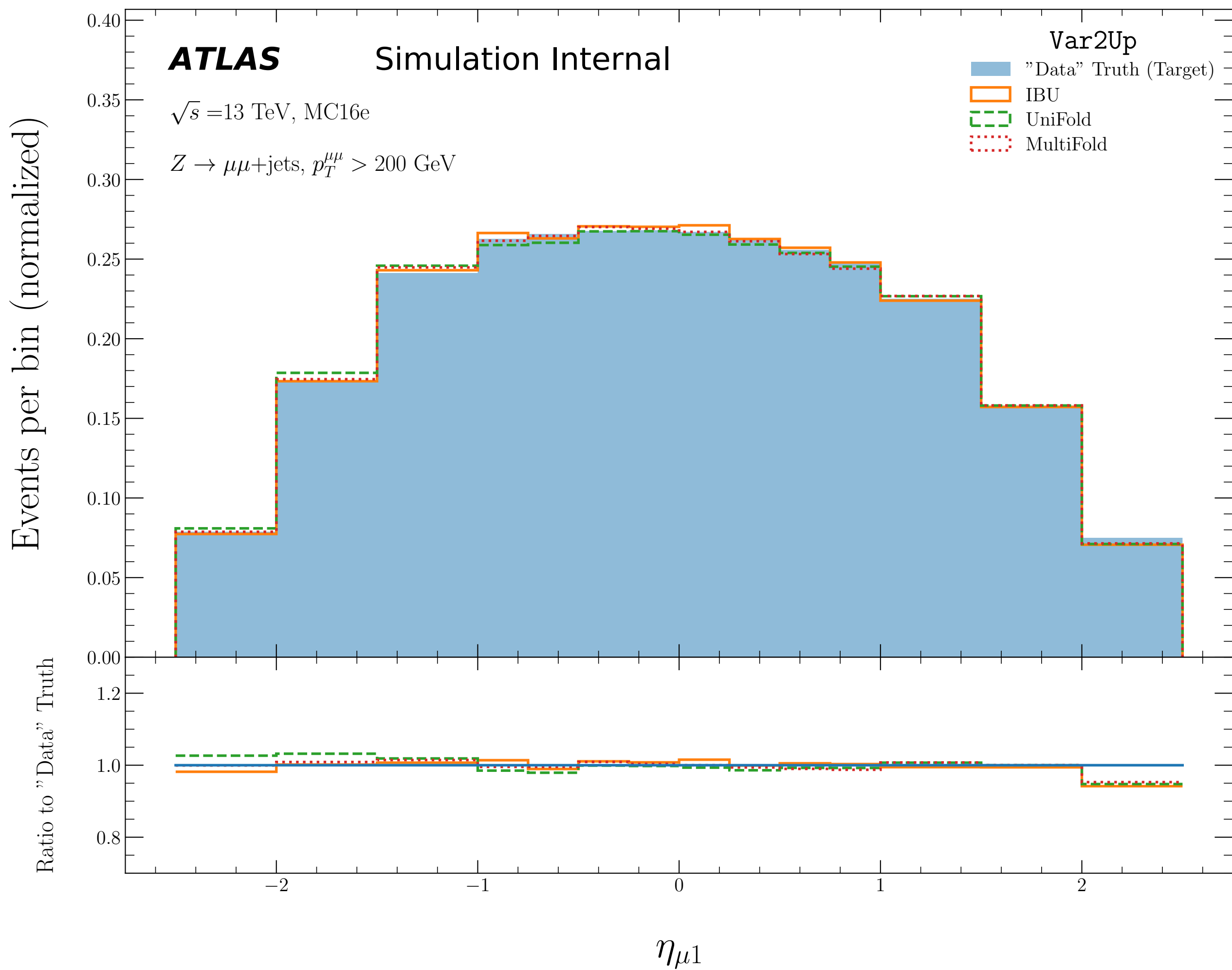


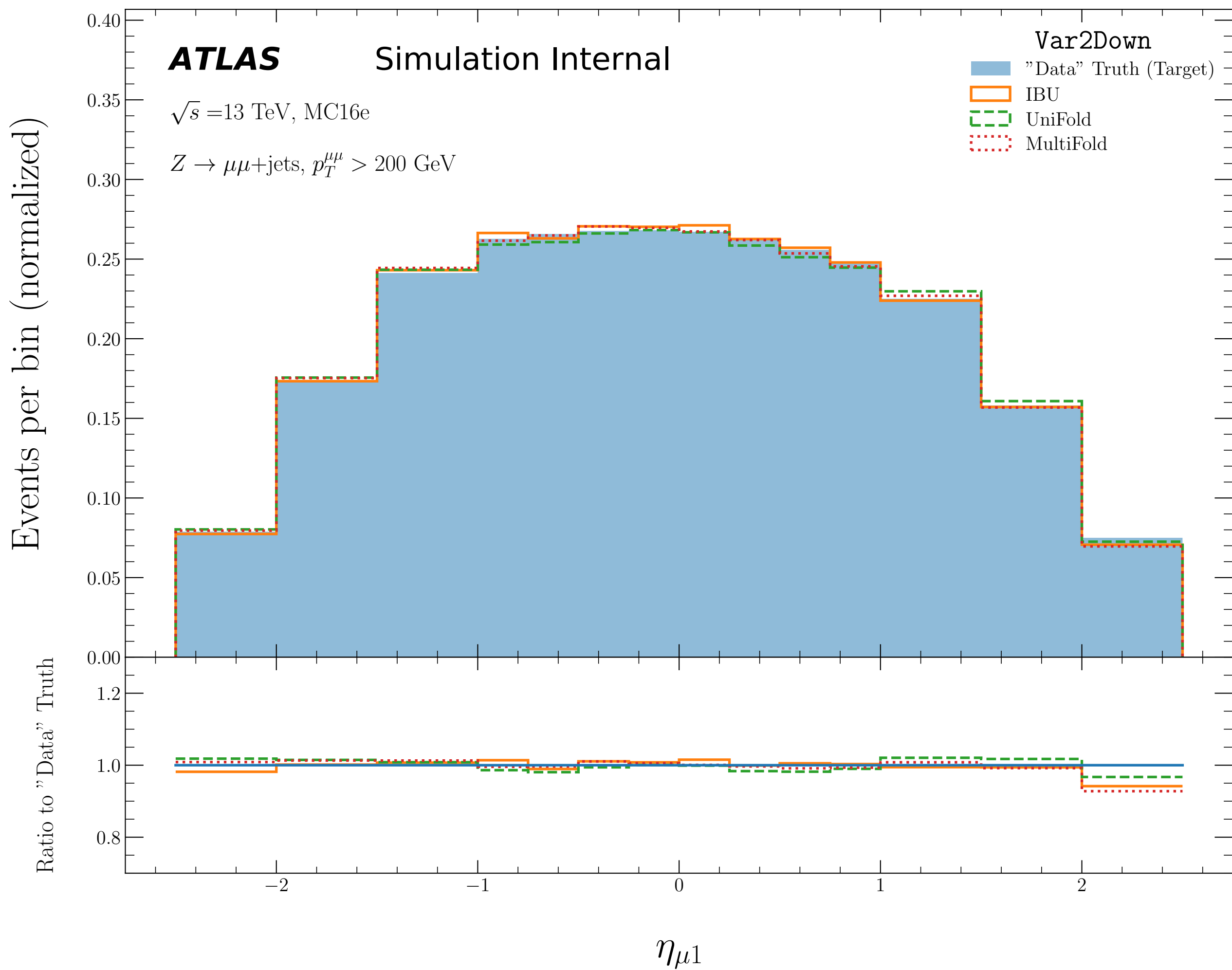


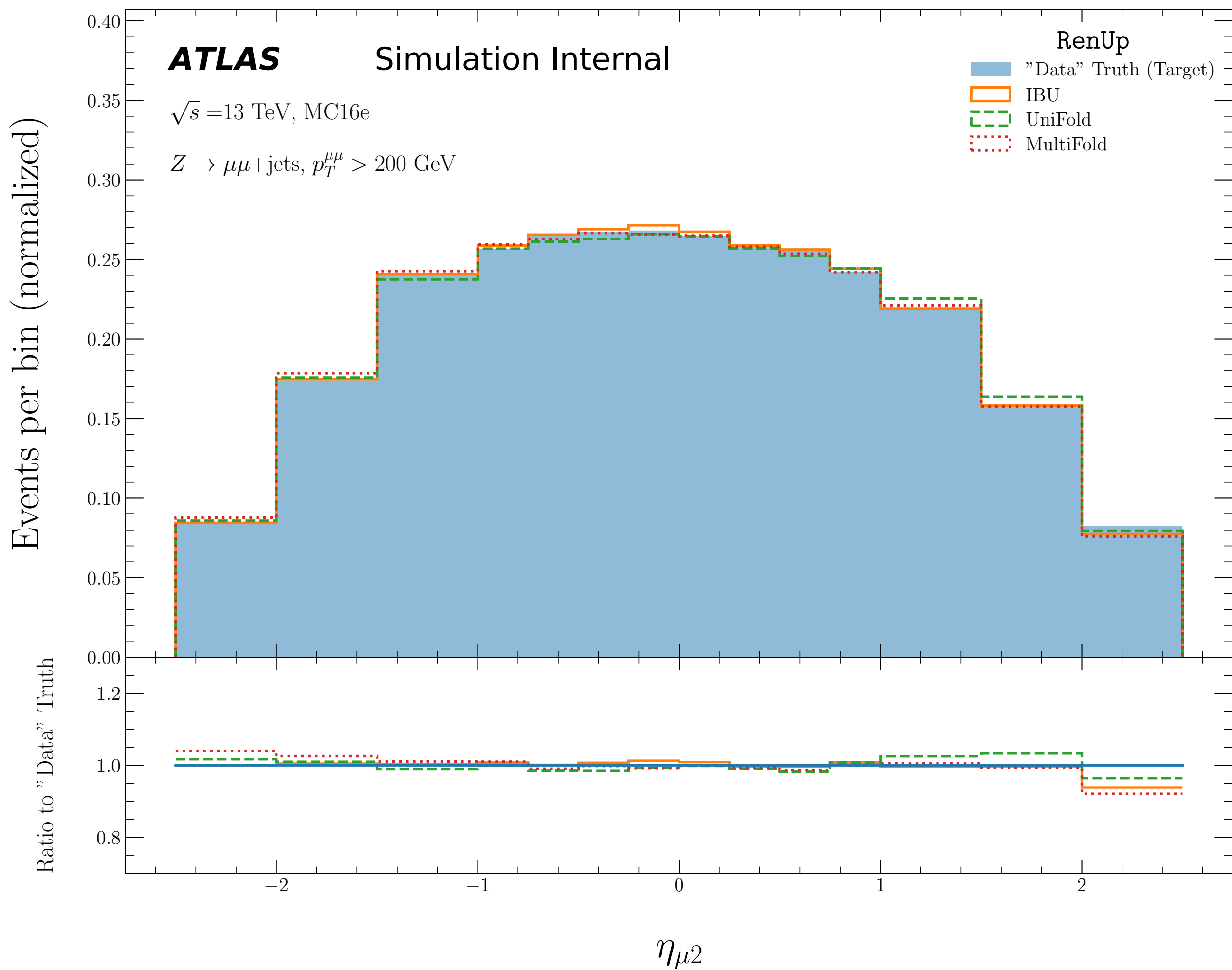


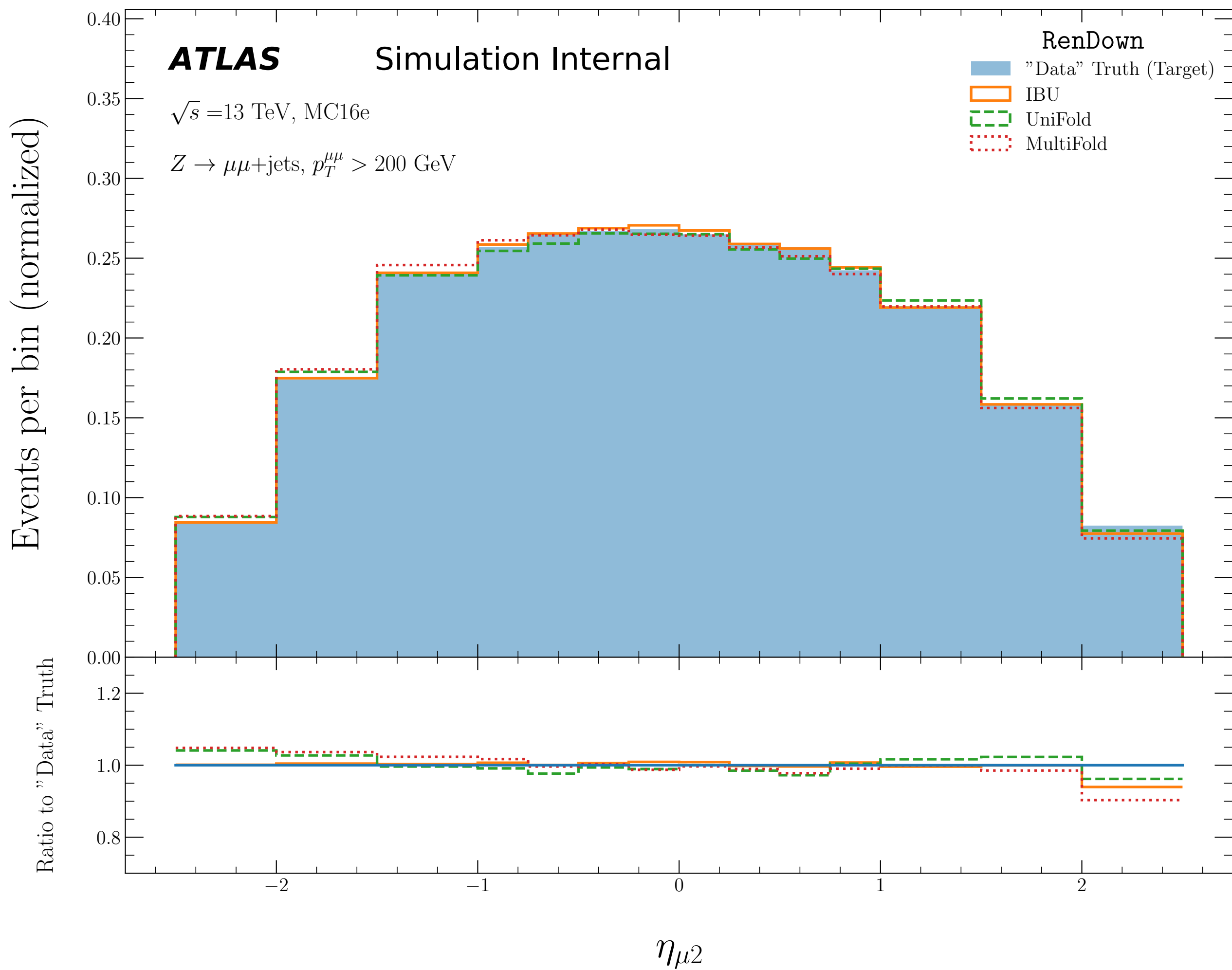


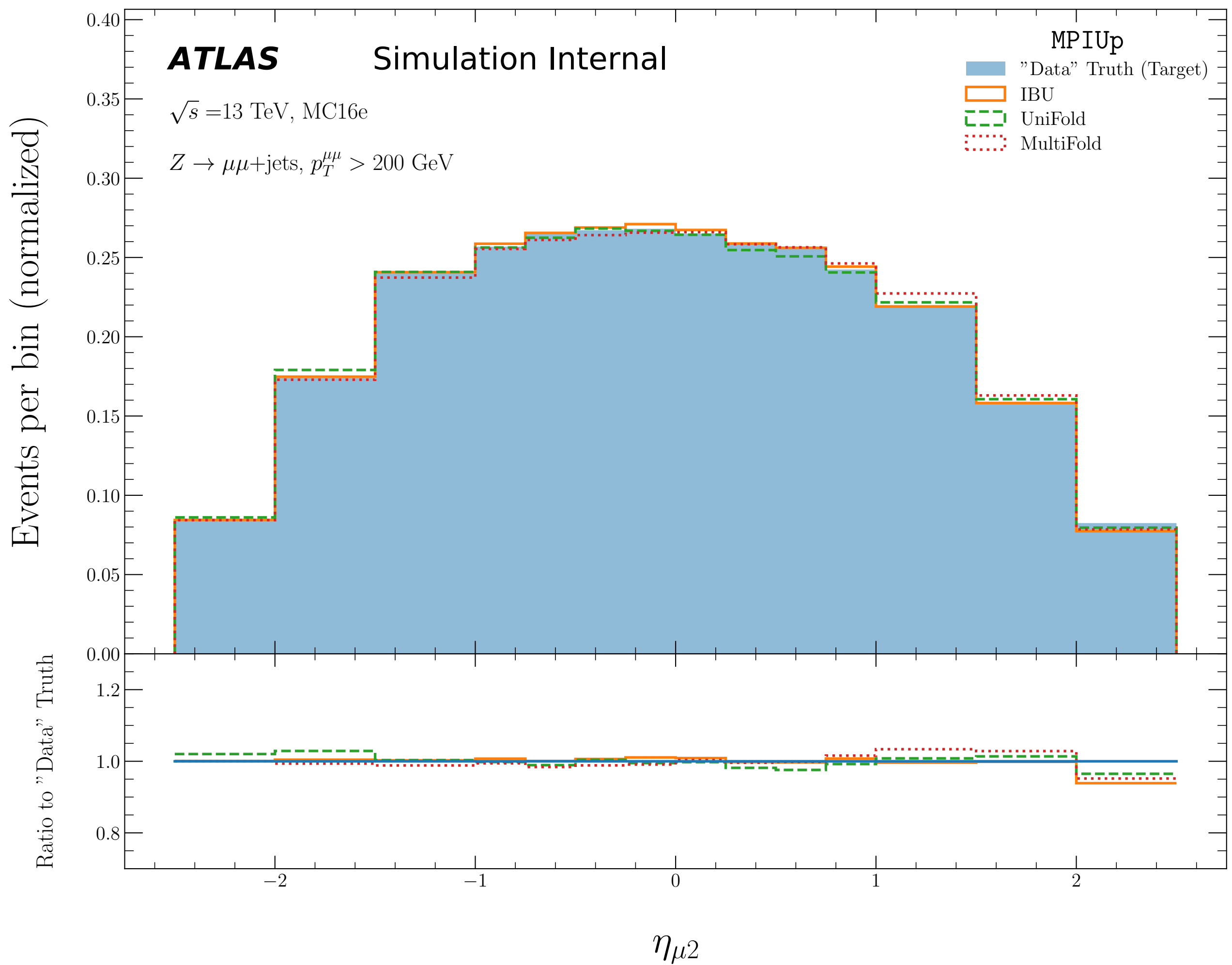


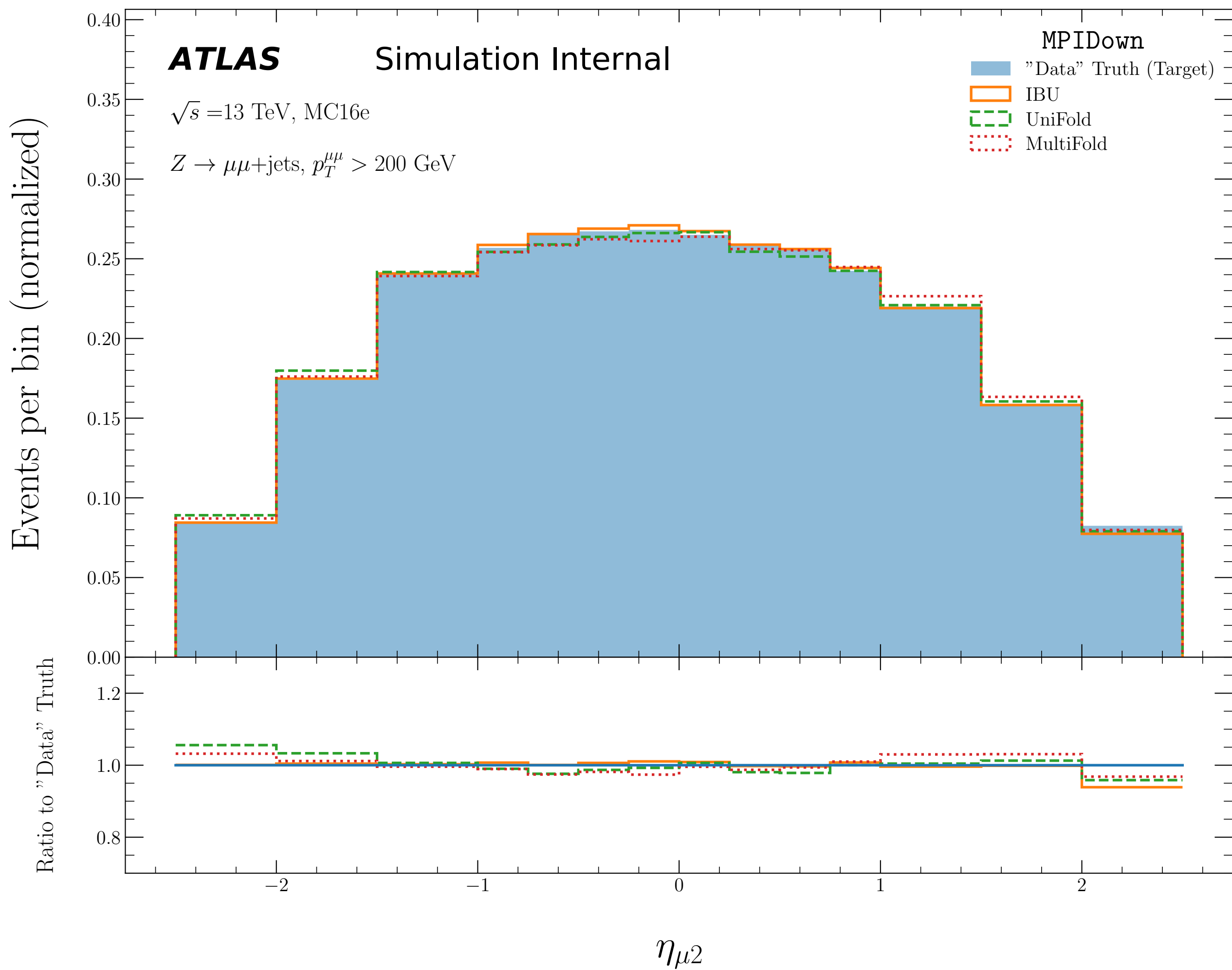


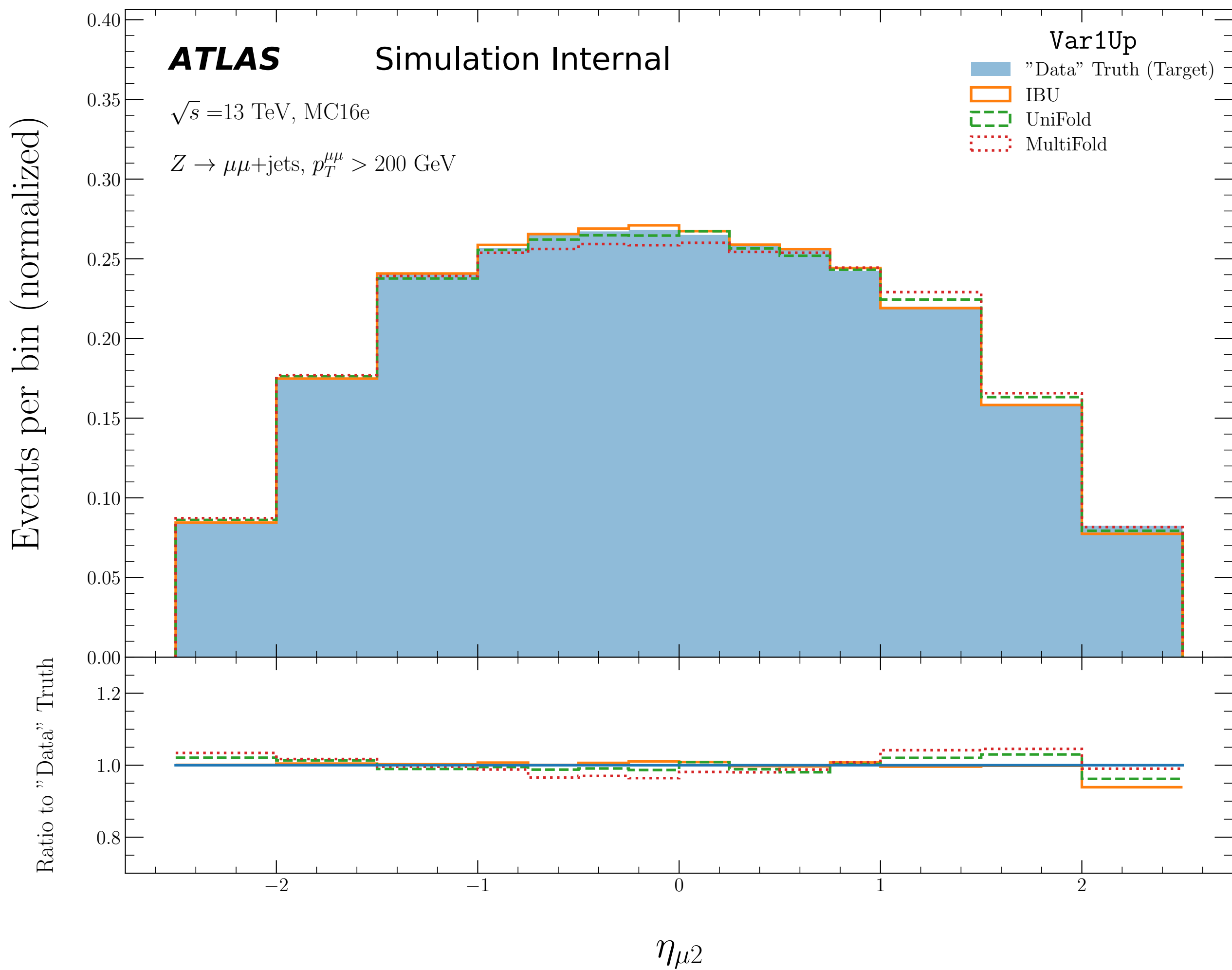


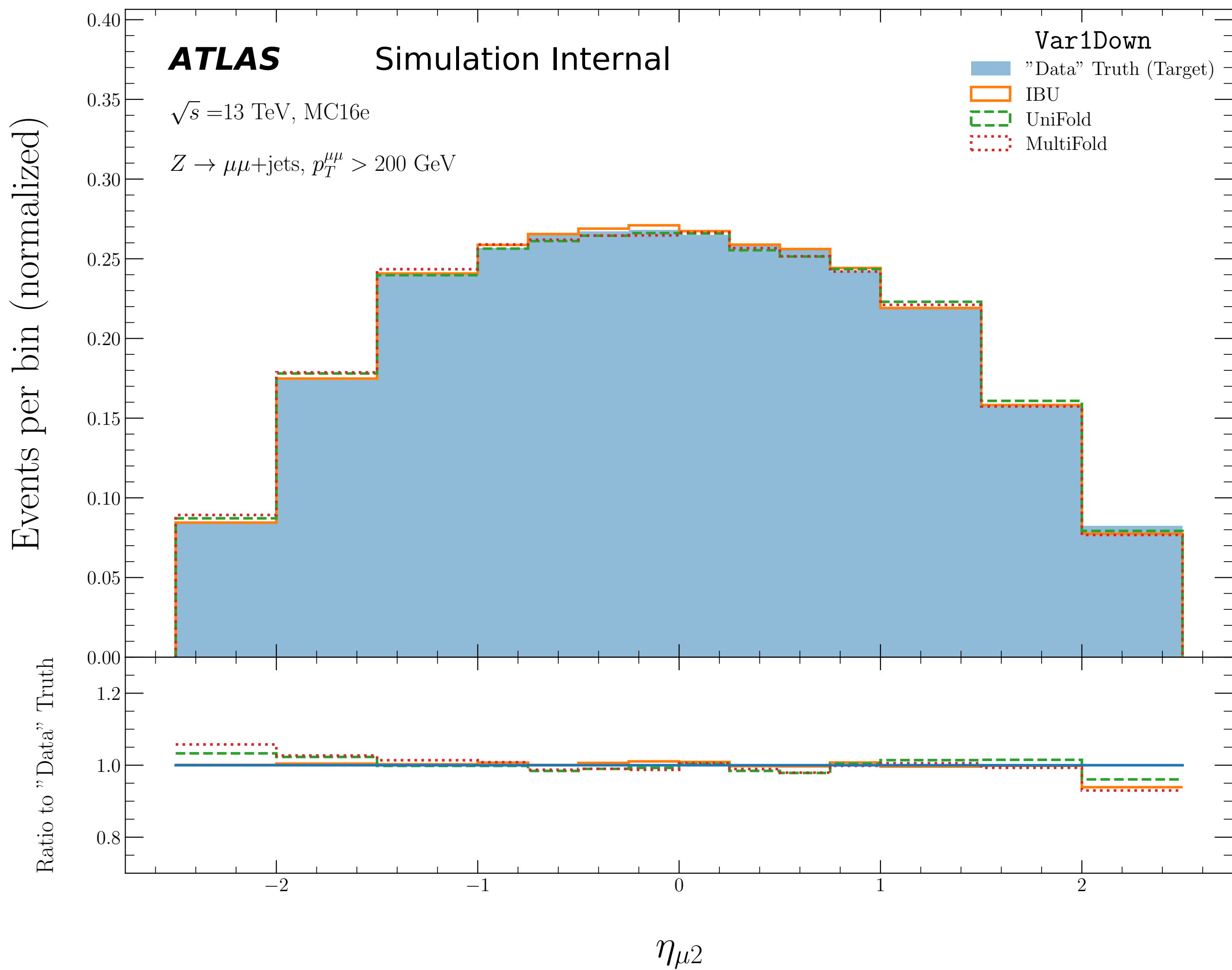


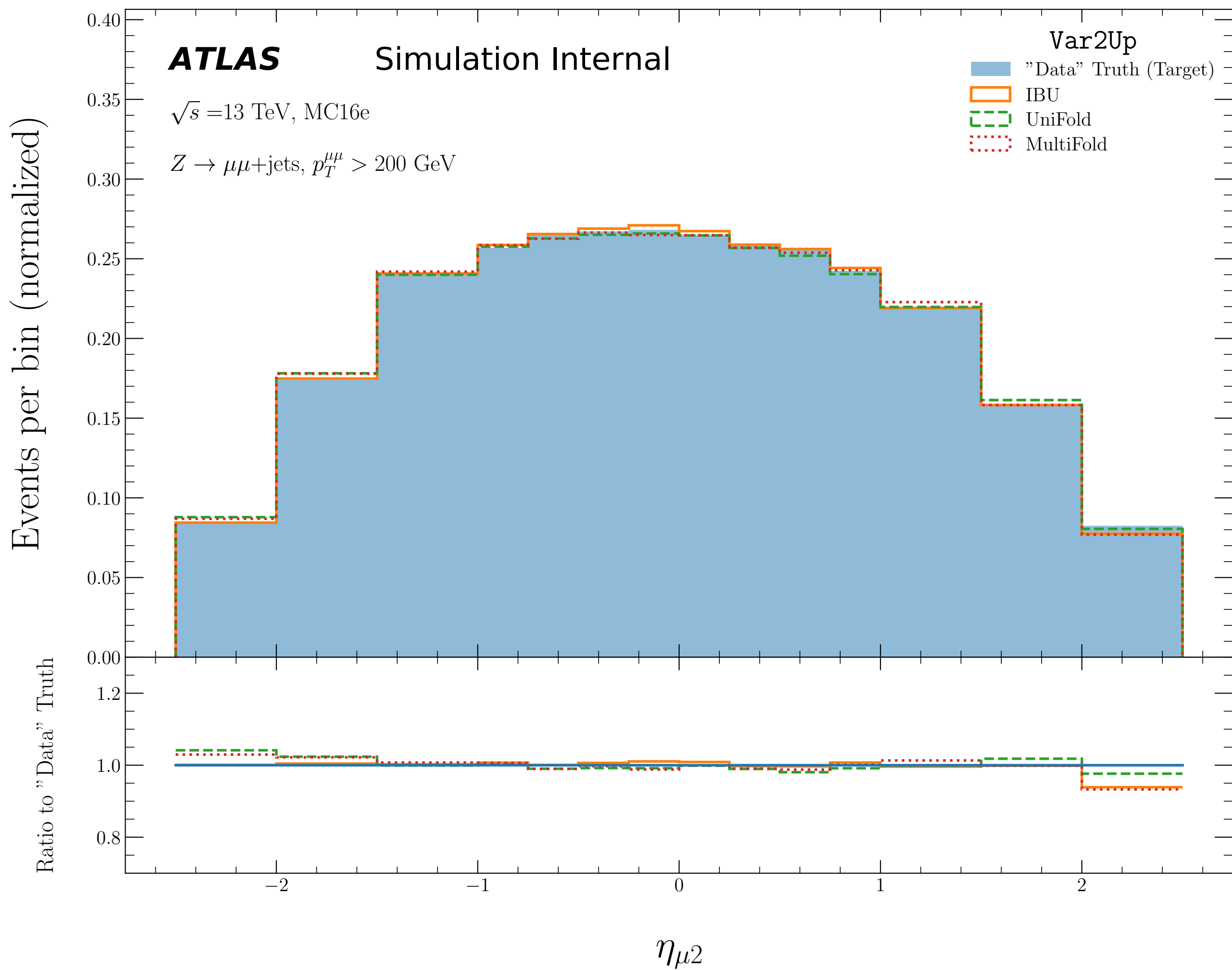


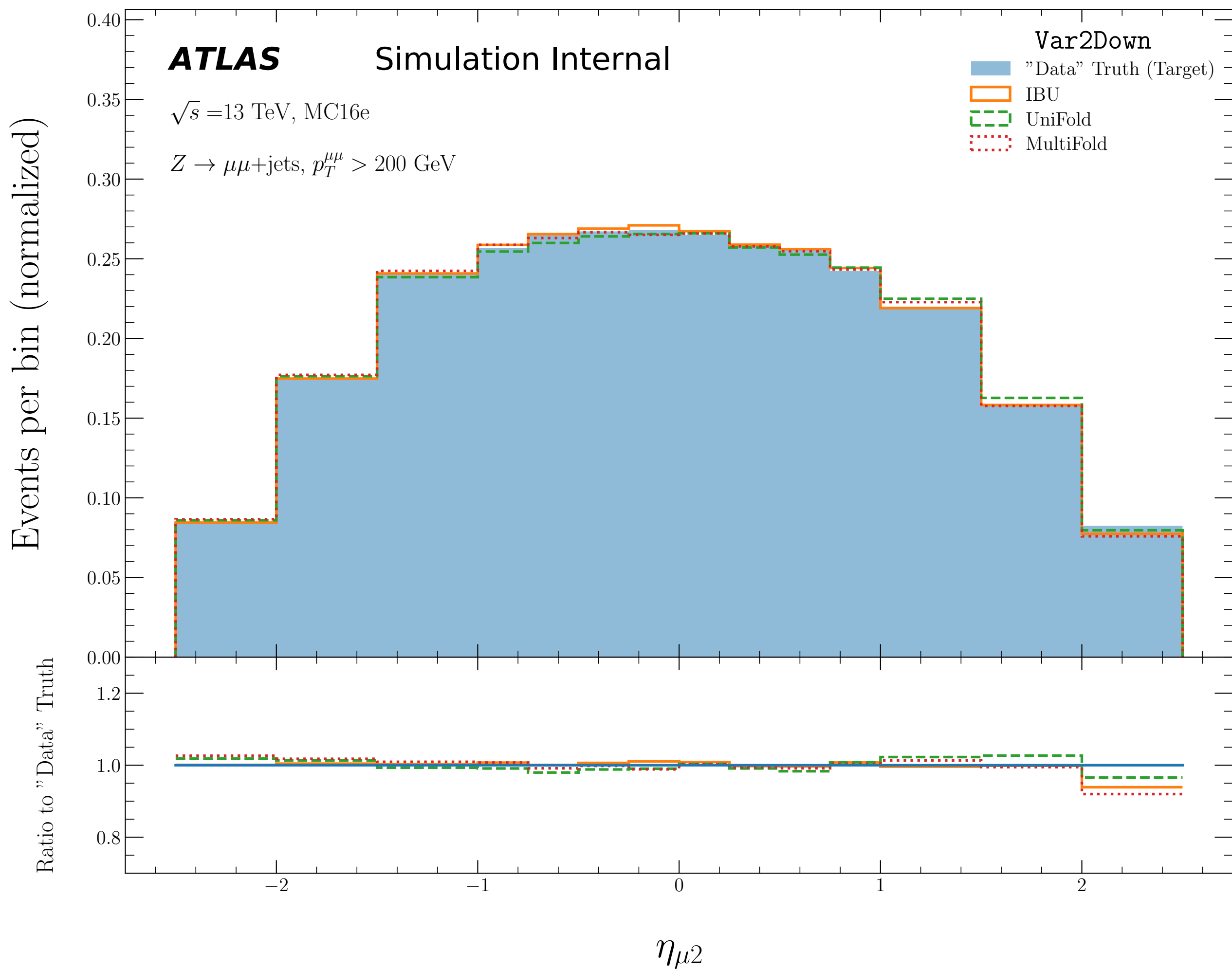


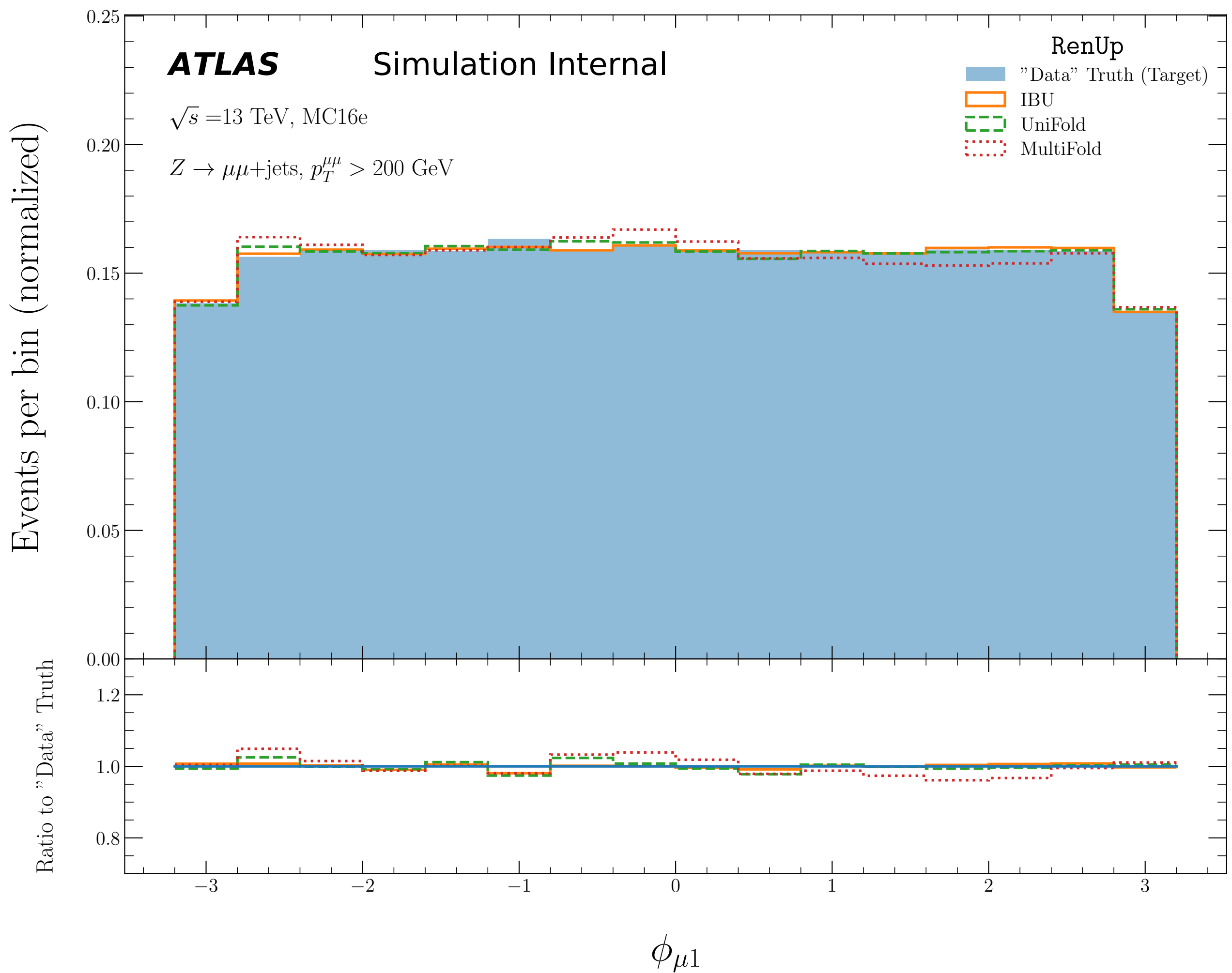












Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

RenDown

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

Ratio to "Data" Truth

1.2

1.0

0.8

-3

-2

-1

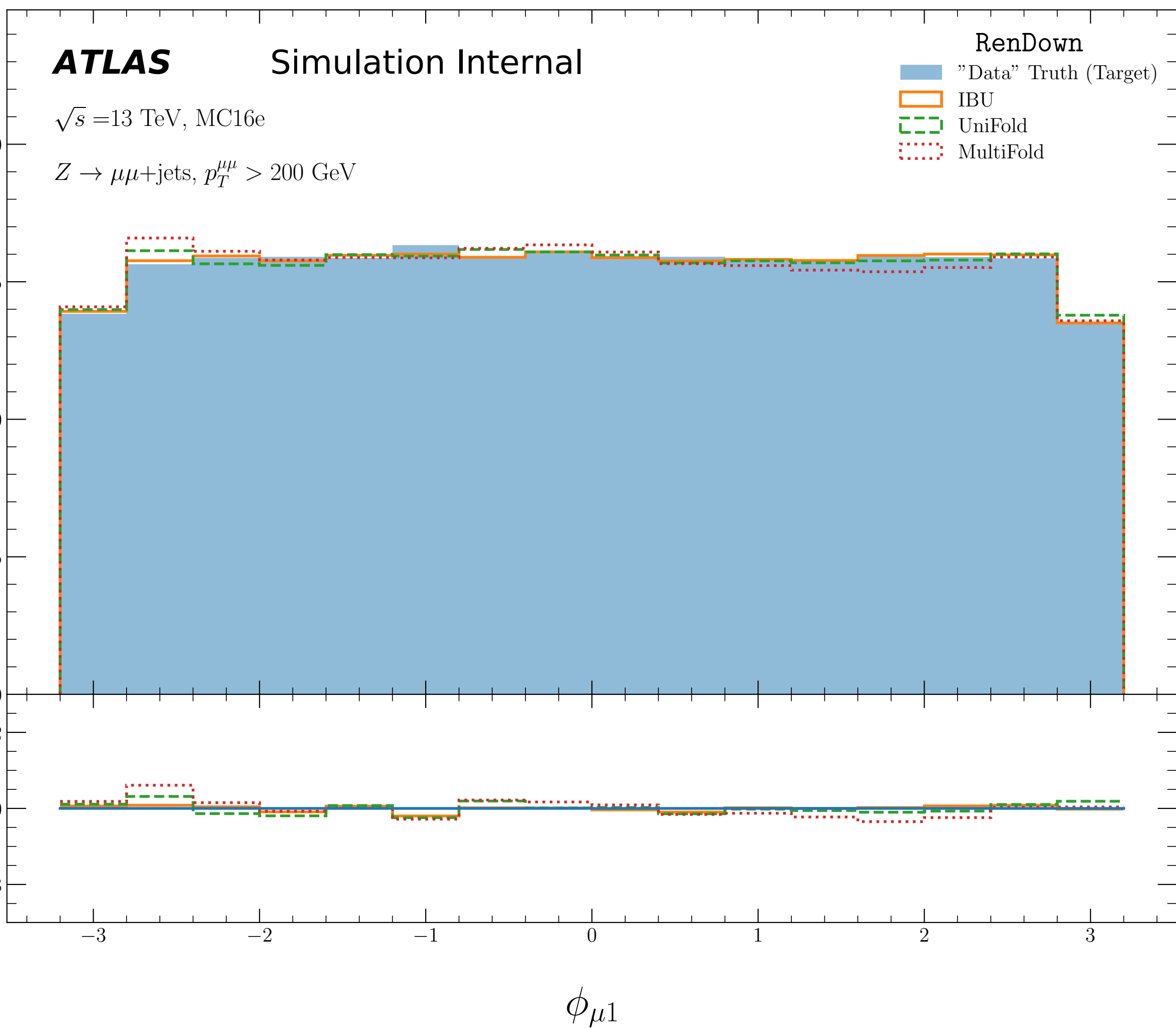
0

1

2

3

$\phi_{\mu 1}$



Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

MPIUp

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

Ratio to "Data" Truth

1.2

1.0

0.8

-3

-2

-1

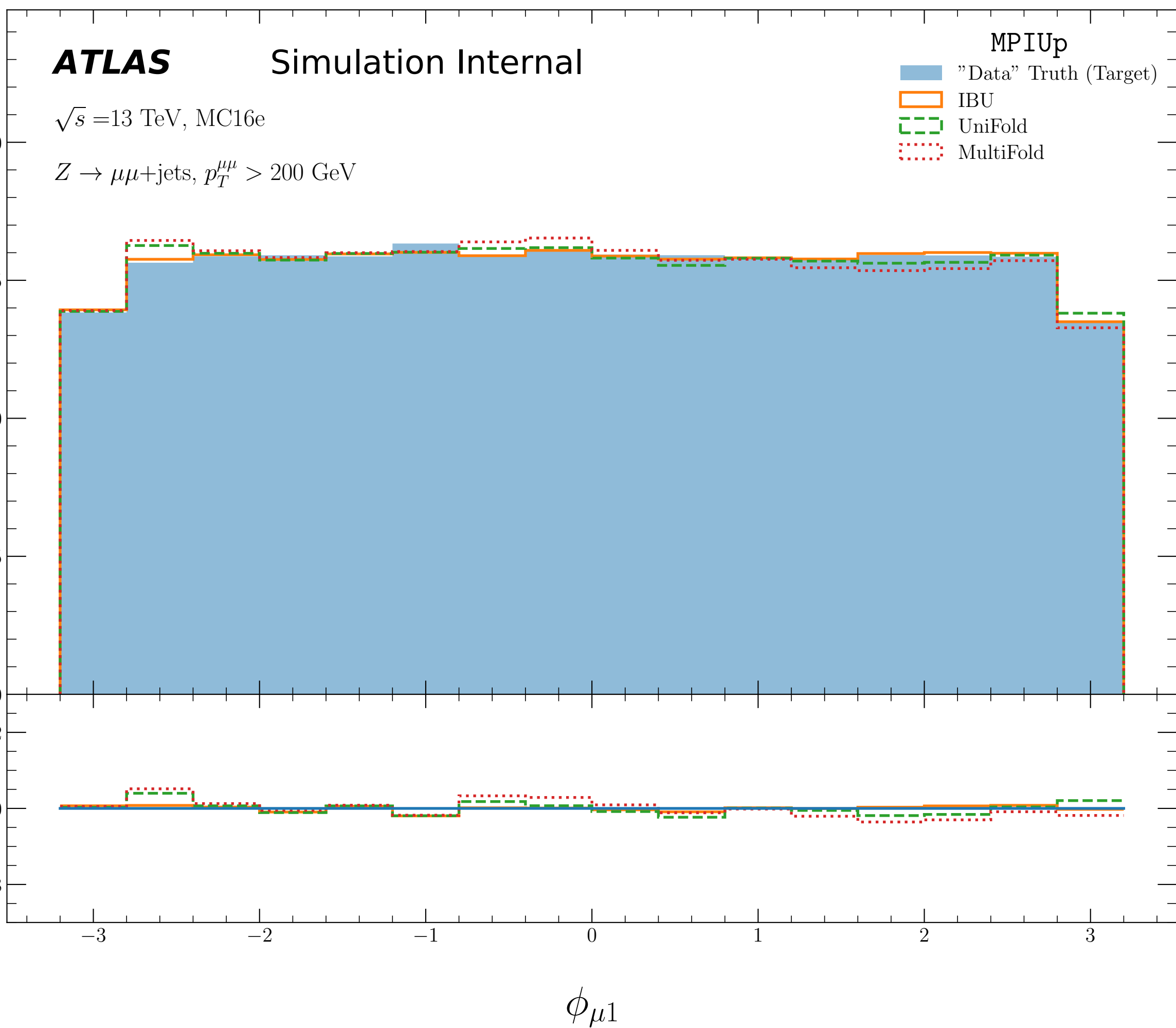
0

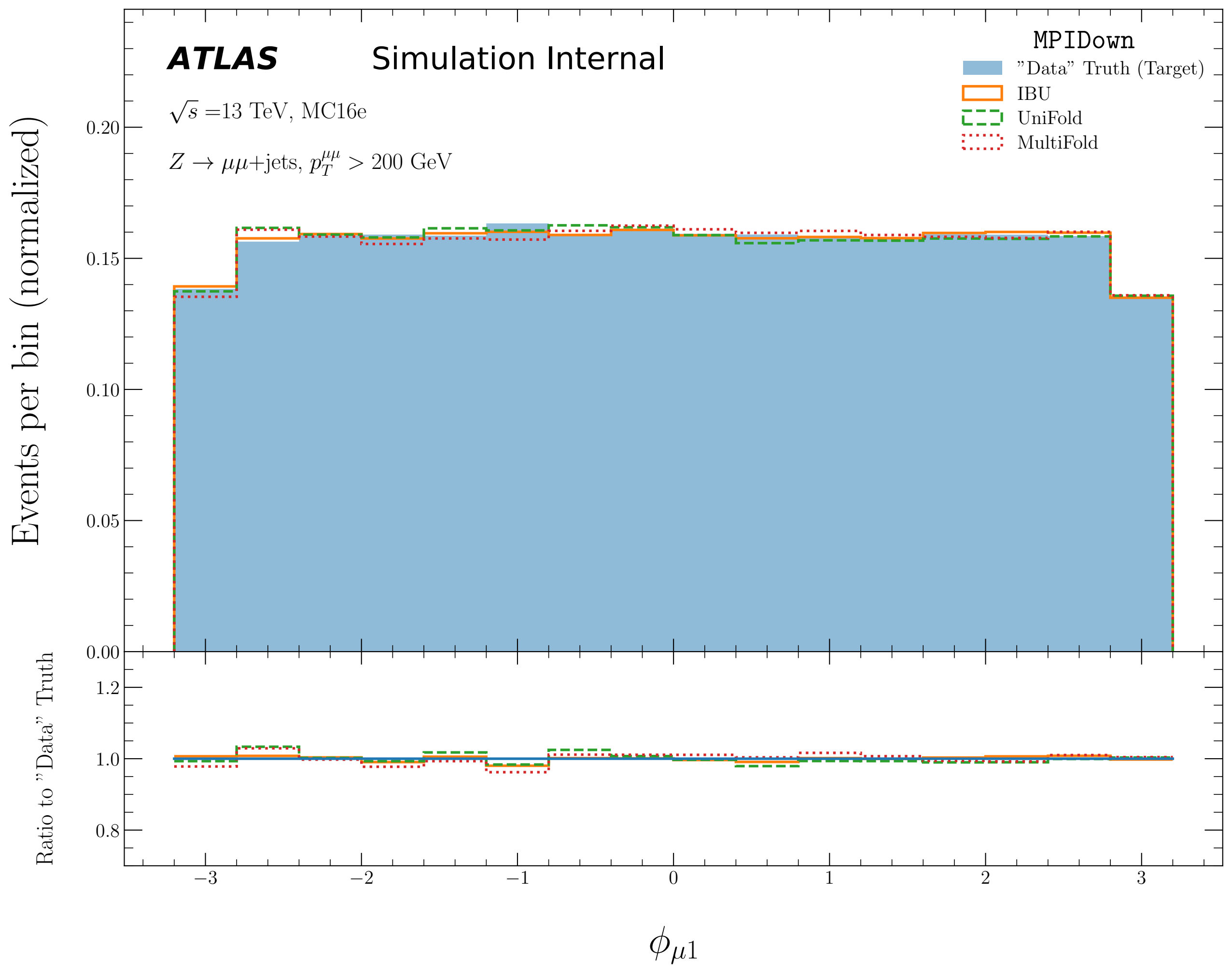
1

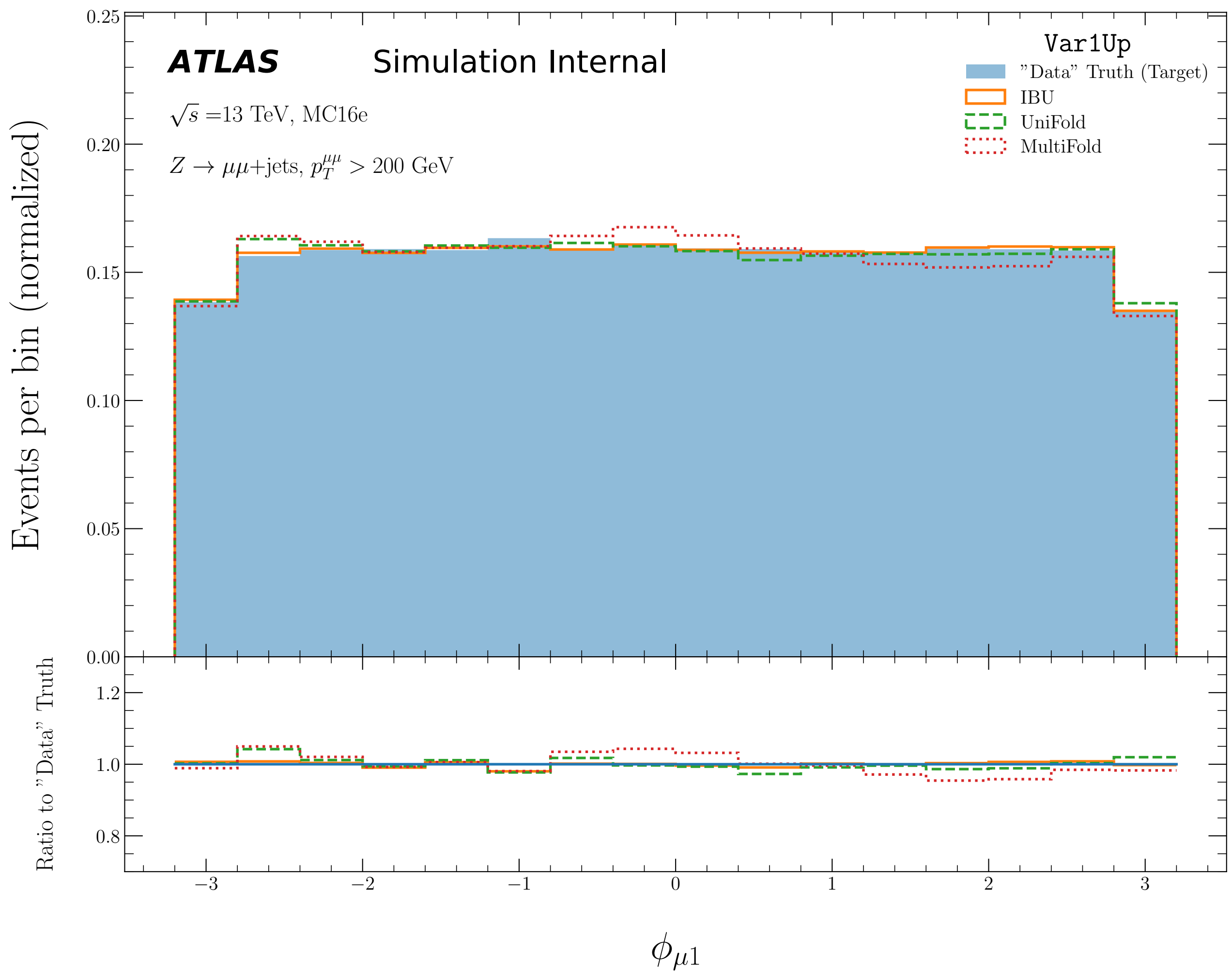
2

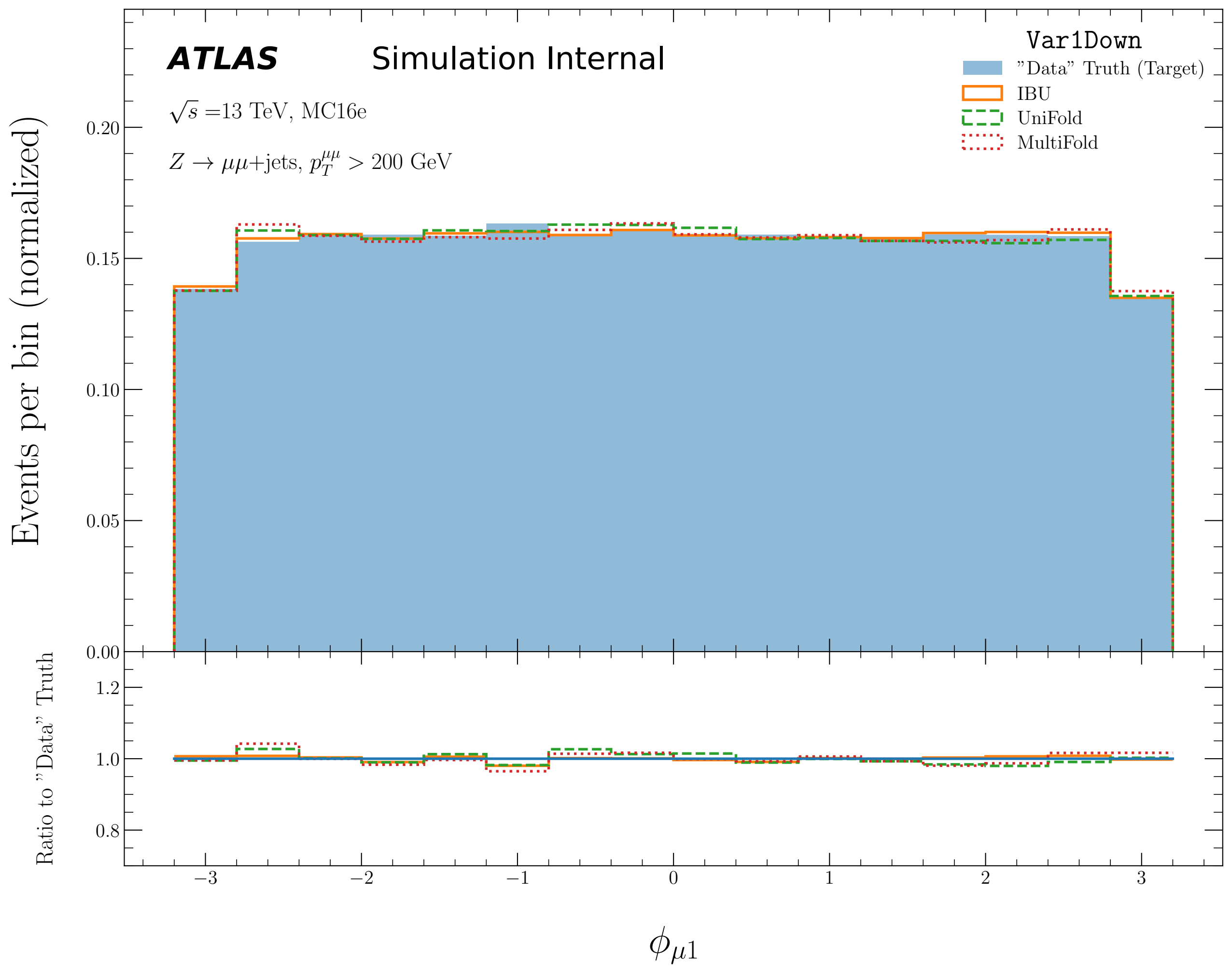
3

$\phi_{\mu 1}$









Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

Var2Up

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

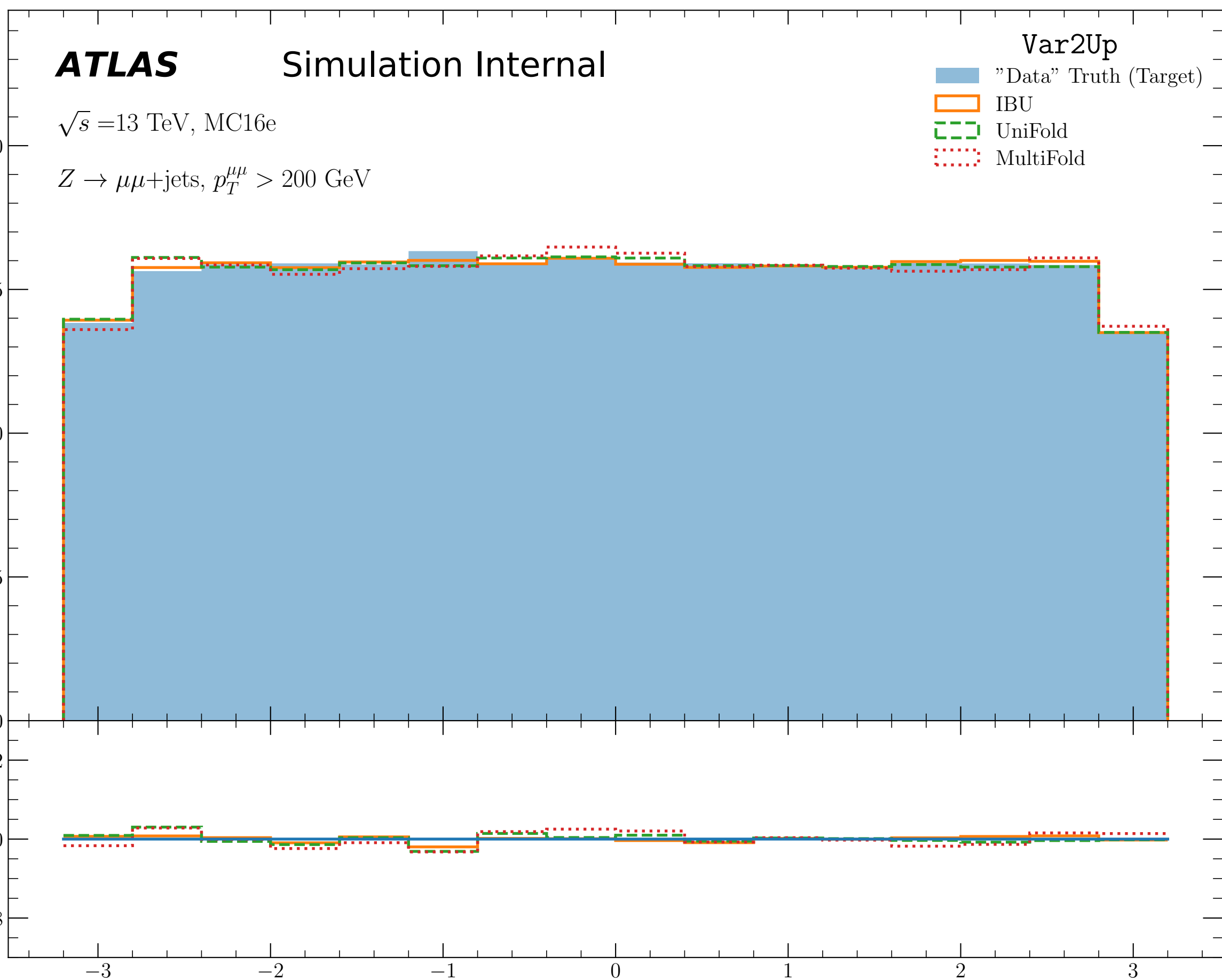
Ratio to "Data" Truth

1.2

1.0

0.8

$\phi_{\mu 1}$



Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s}=13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

Var2Down

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

Ratio to "Data" Truth

1.2

1.0

0.8

-3

-2

-1

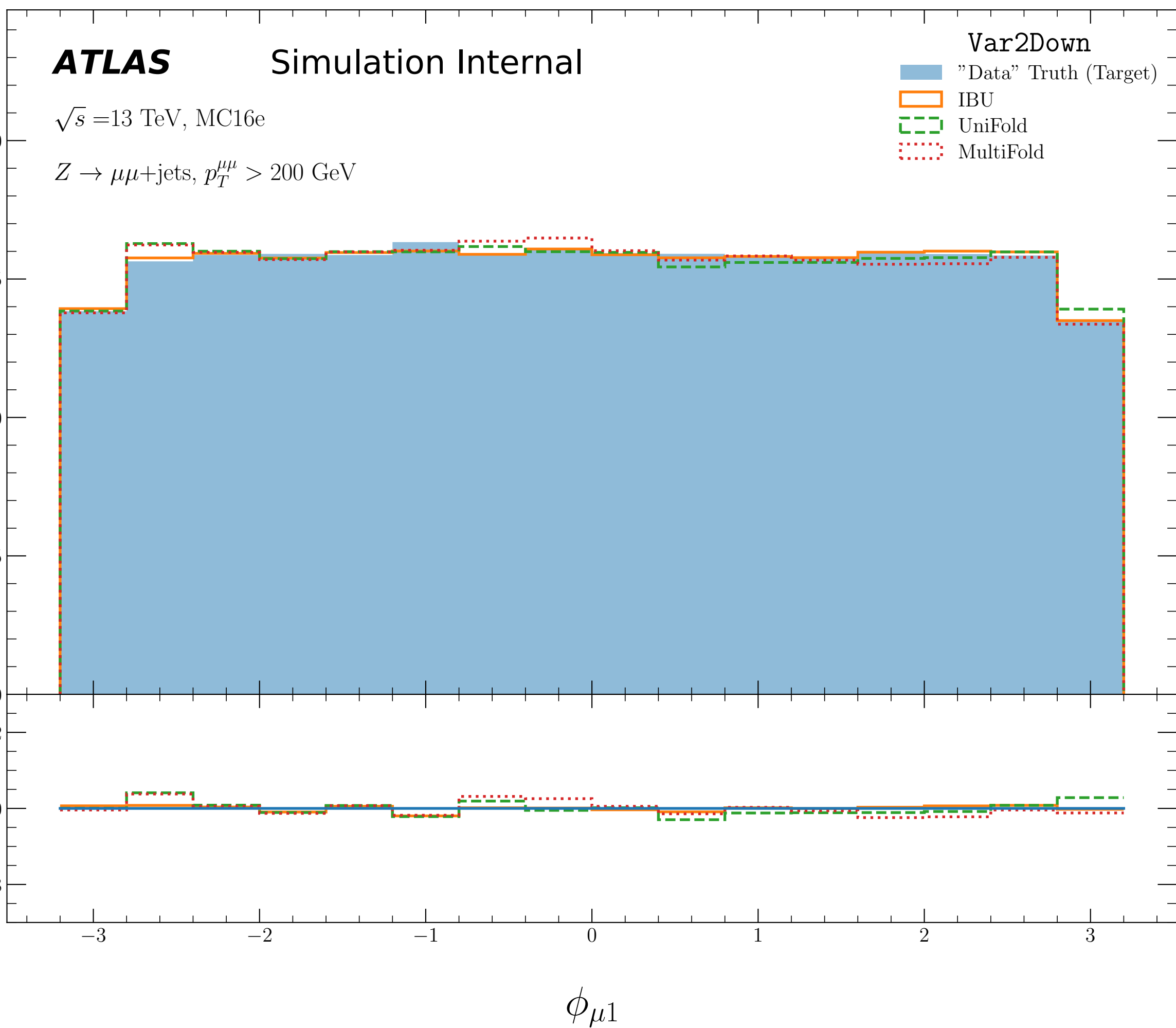
0

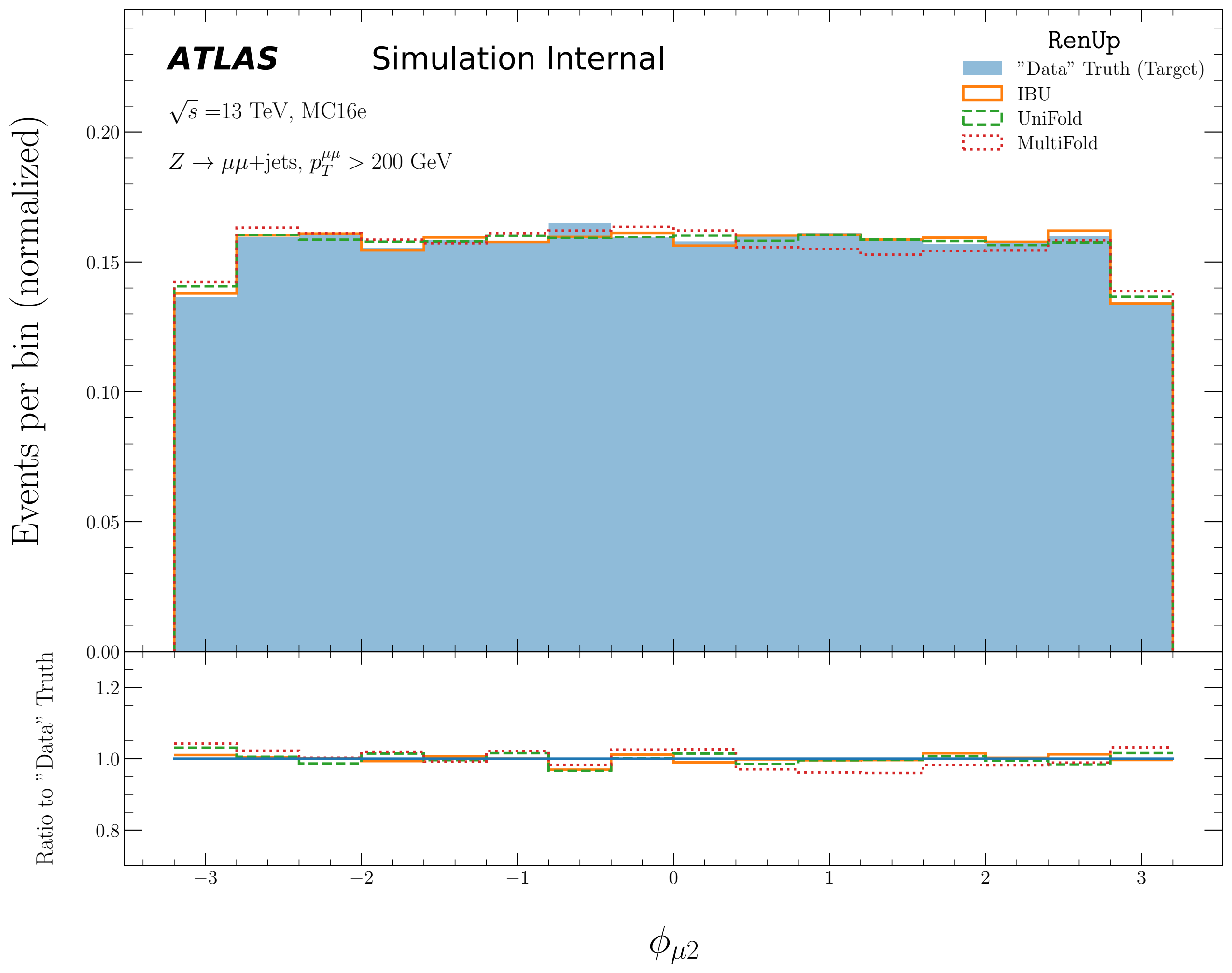
1

2

3

$\phi_{\mu 1}$





Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

RenDown

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

Ratio to "Data" Truth

1.2

1.0

0.8

-3

-2

-1

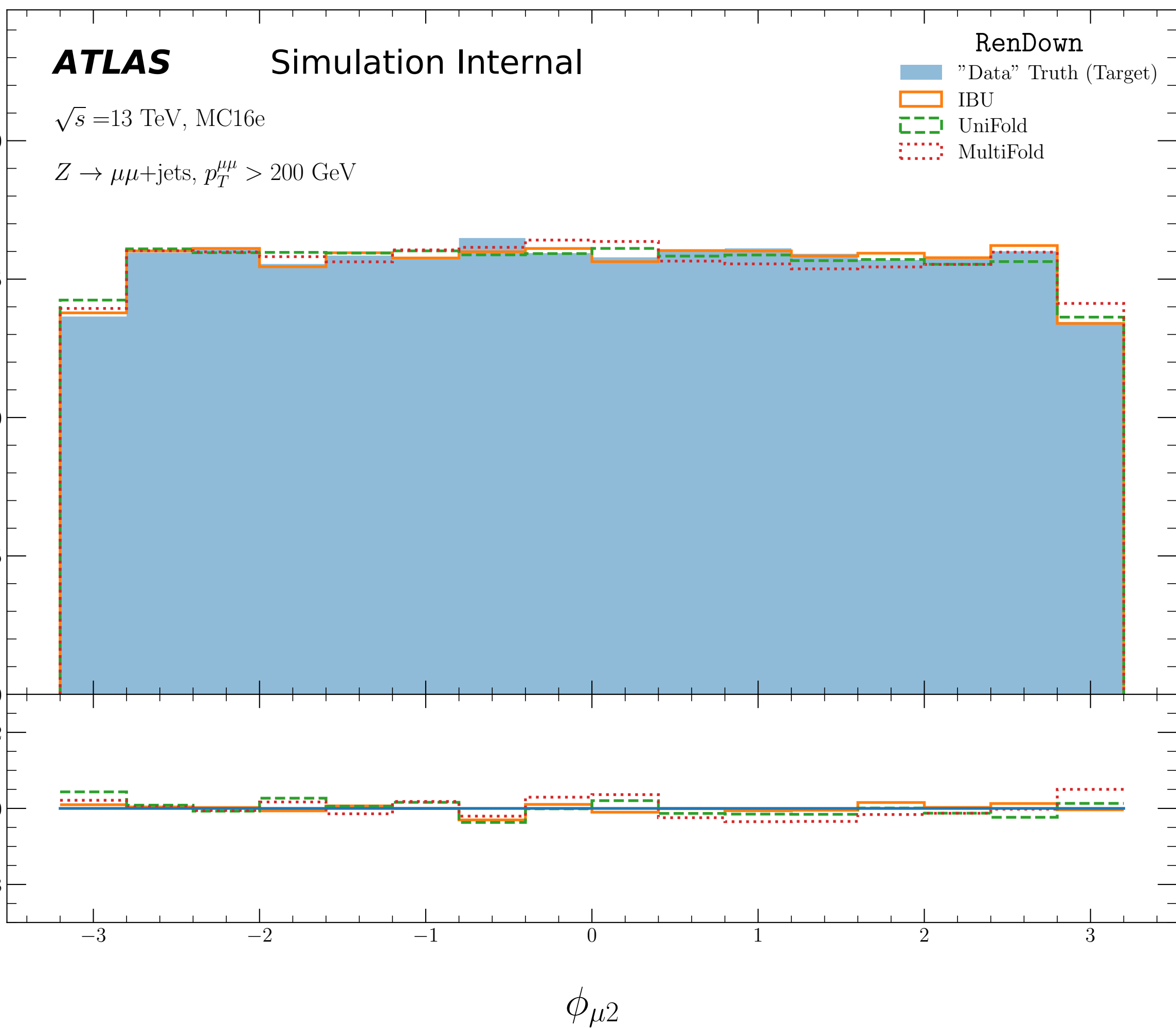
0

1

2

3

$\phi_{\mu 2}$



Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

MPIUp

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

Ratio to "Data" Truth

1.2

1.0

0.8

-3

-2

-1

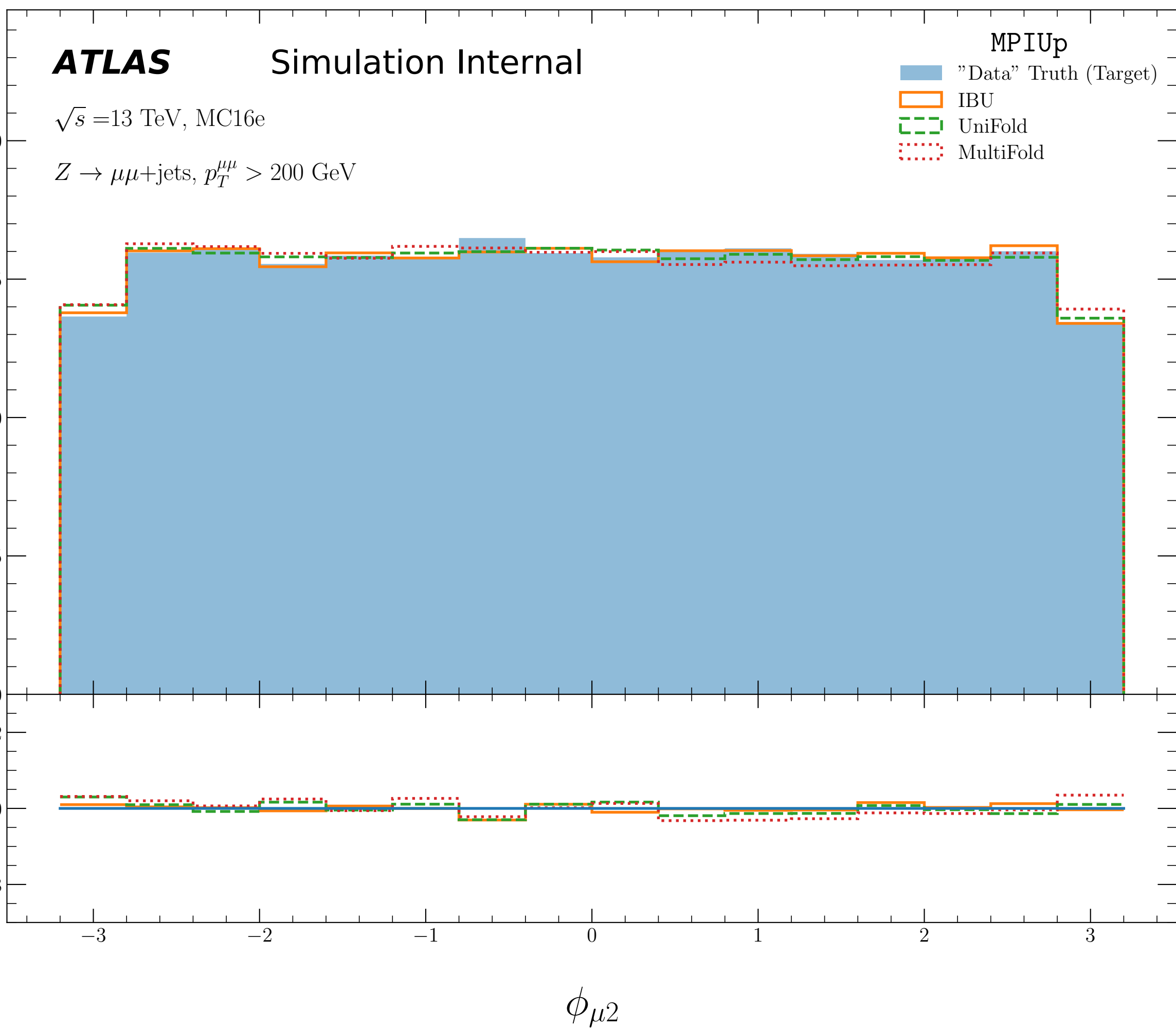
0

1

2

3

$\phi_{\mu 2}$



Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

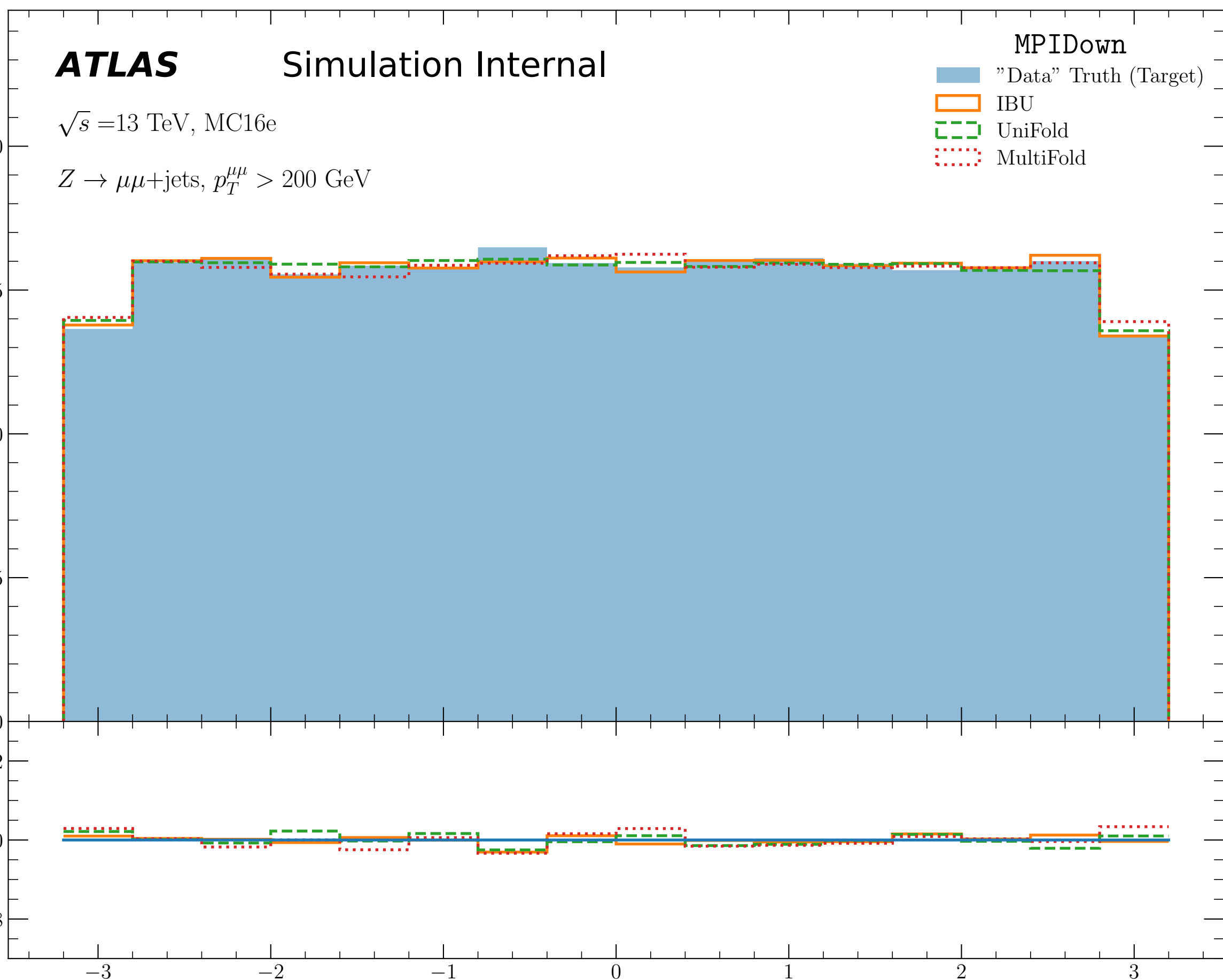
MPIDown

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20
0.15
0.10
0.05
0.00
1.2
1.0
0.8

Ratio to "Data" Truth

$\phi_{\mu 2}$



Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

Var1Up

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

Ratio to "Data" Truth

1.2

1.0

0.8

-3

-2

-1

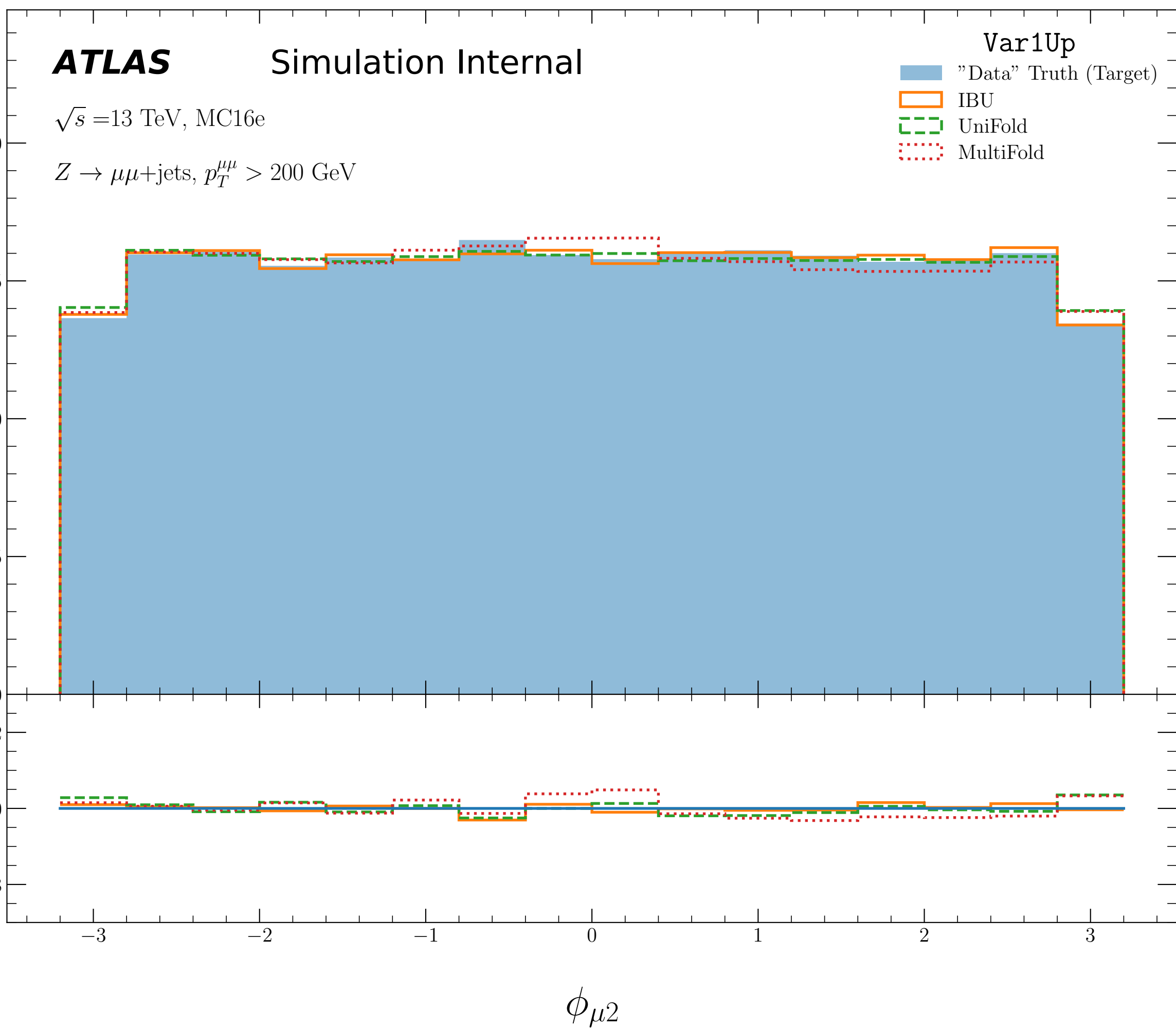
0

1

2

3

$\phi_{\mu 2}$



Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

Var1Down

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

Ratio to "Data" Truth

1.2

1.0

0.8

-3

-2

-1

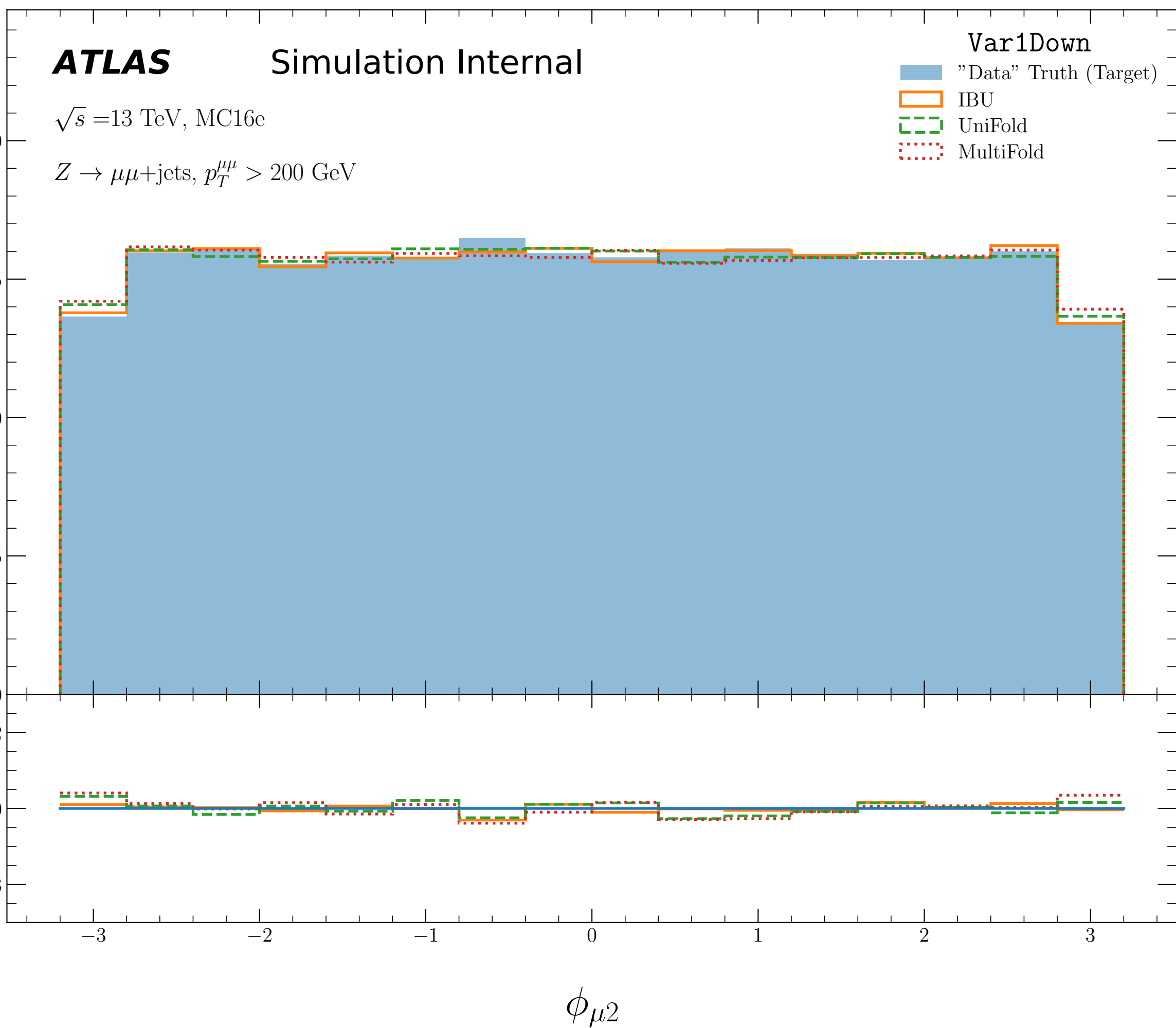
0

1

2

3

$\phi_{\mu 2}$



Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

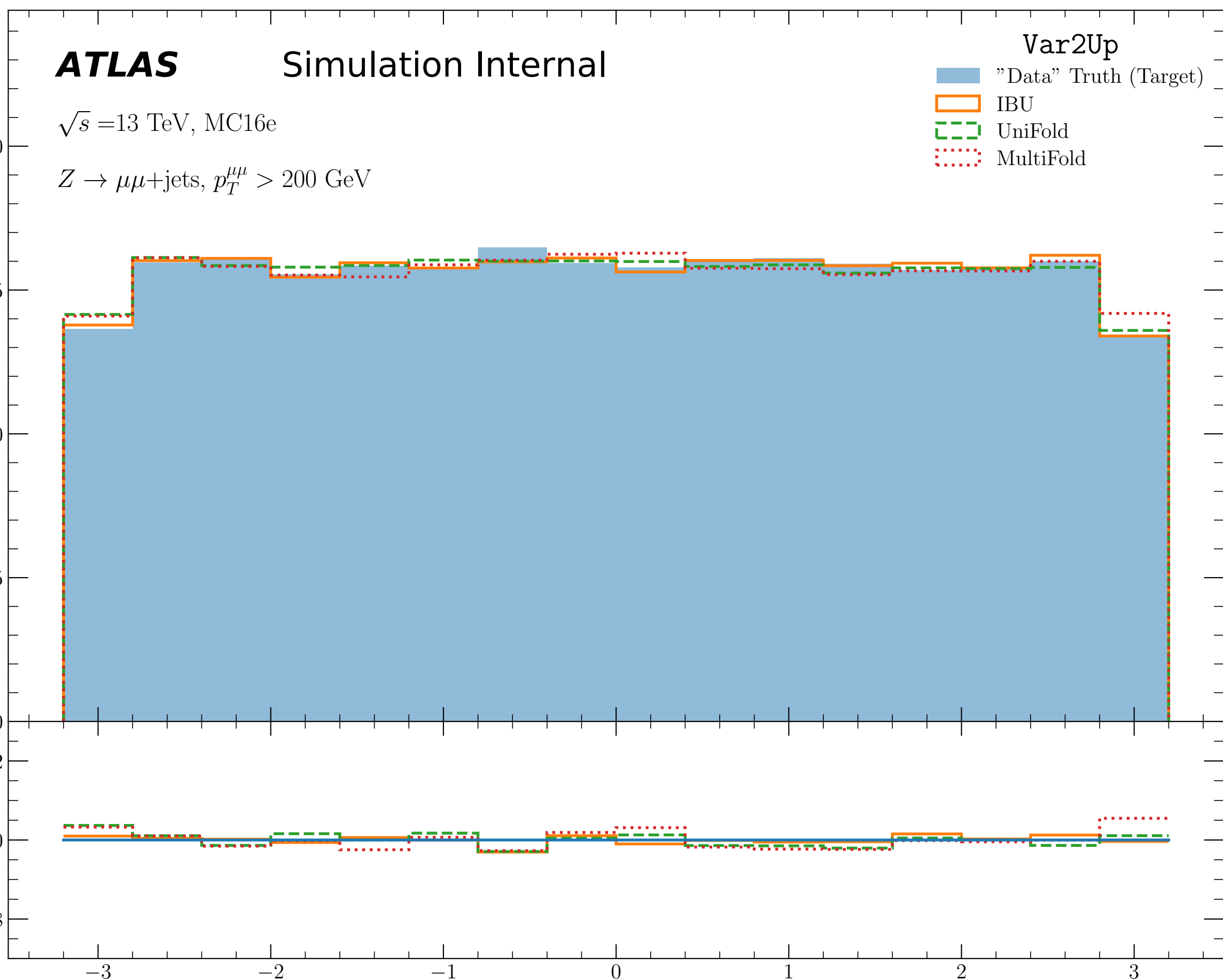
Var2Up

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20
0.15
0.10
0.05
0.00
1.2
1.0
0.8

Ratio to "Data" Truth

$\phi_{\mu 2}$



Events per bin (normalized)

ATLAS

Simulation Internal

$\sqrt{s} = 13$ TeV, MC16e

$Z \rightarrow \mu\mu + \text{jets}, p_T^{\mu\mu} > 200$ GeV

Var2Down

- "Data" Truth (Target)
- IBU
- UniFold
- MultiFold

0.20

0.15

0.10

0.05

0.00

Ratio to "Data" Truth

1.2

1.0

0.8

-3

-2

-1

0

1

2

3

$\phi_{\mu 2}$

