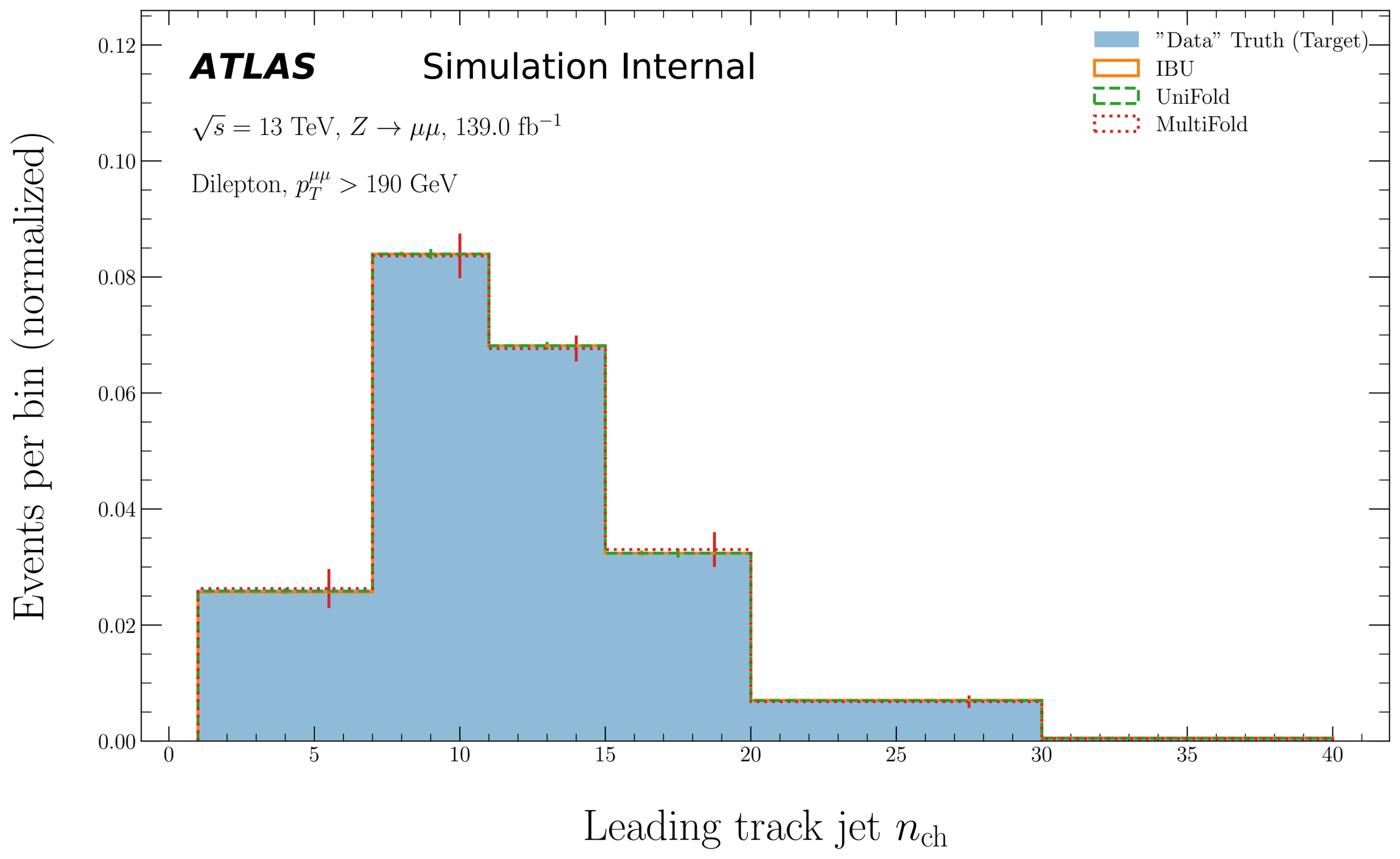
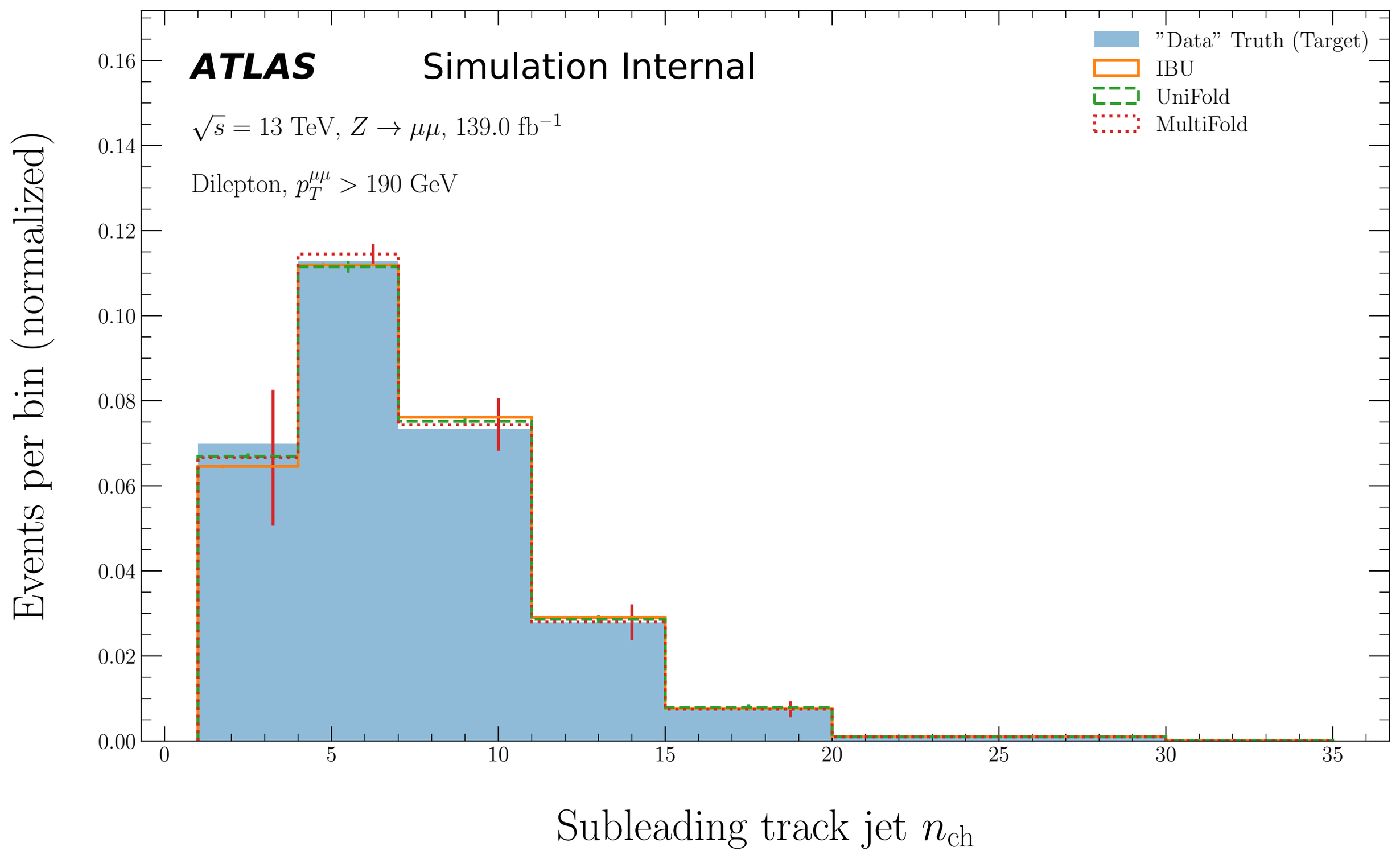
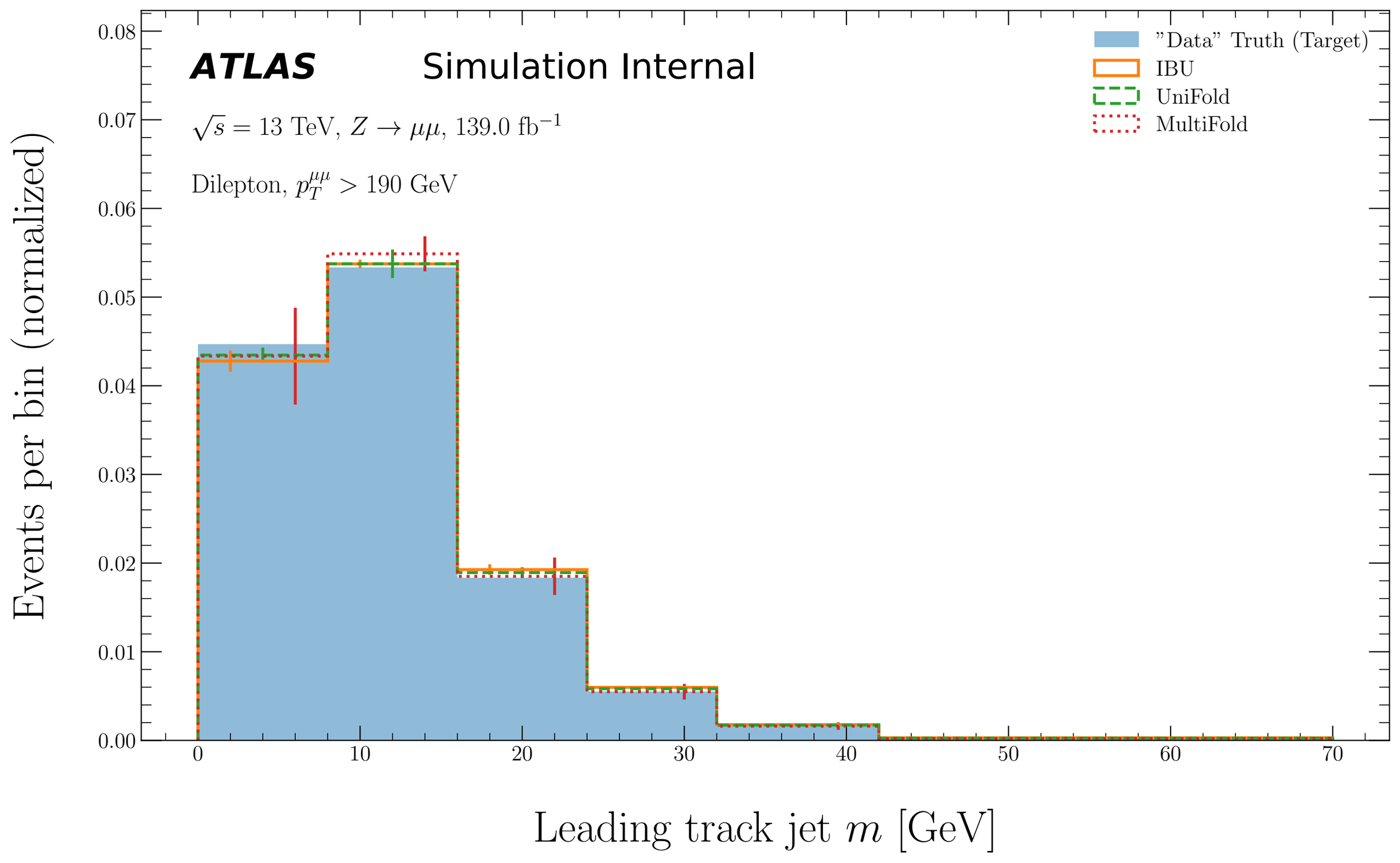
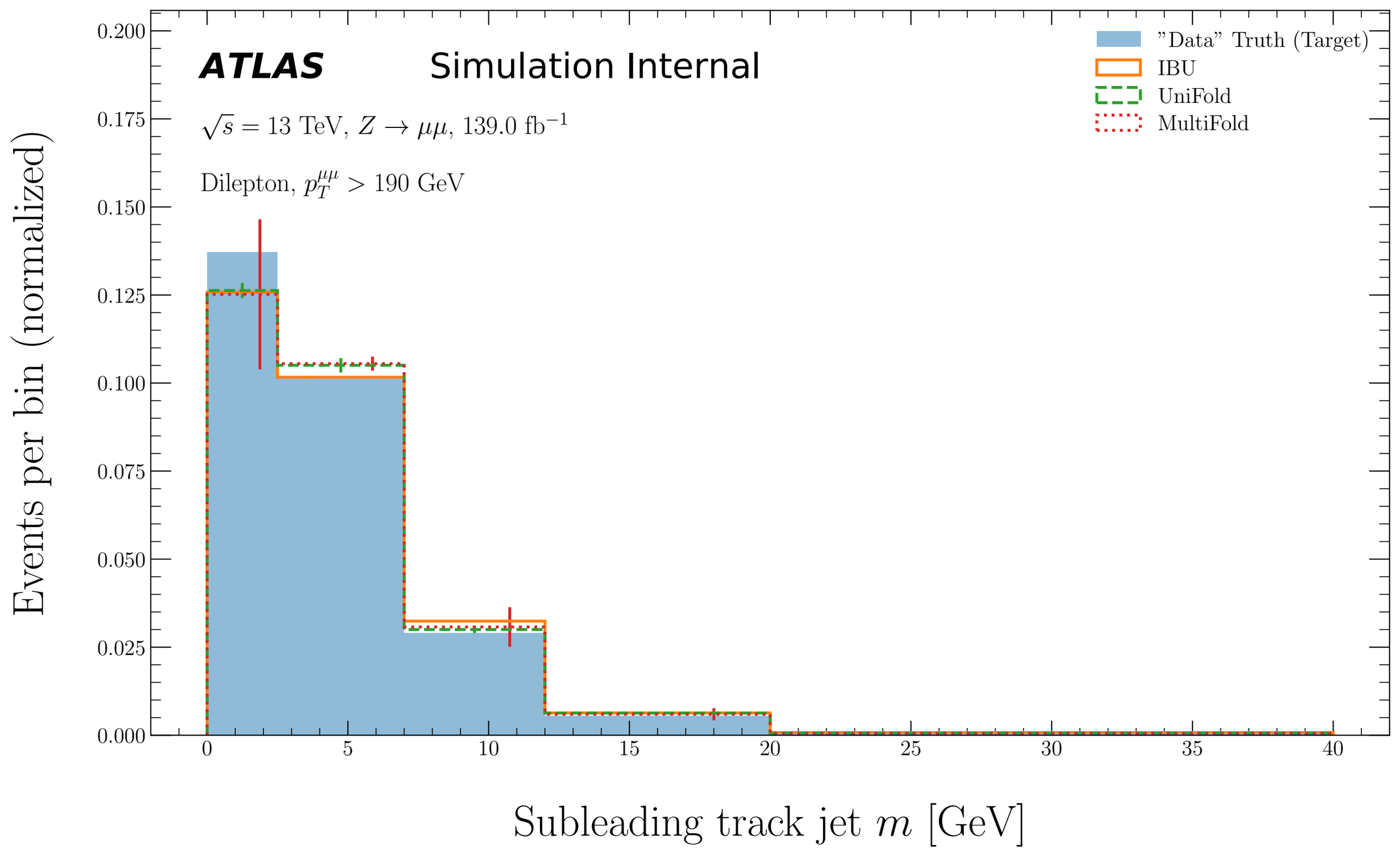
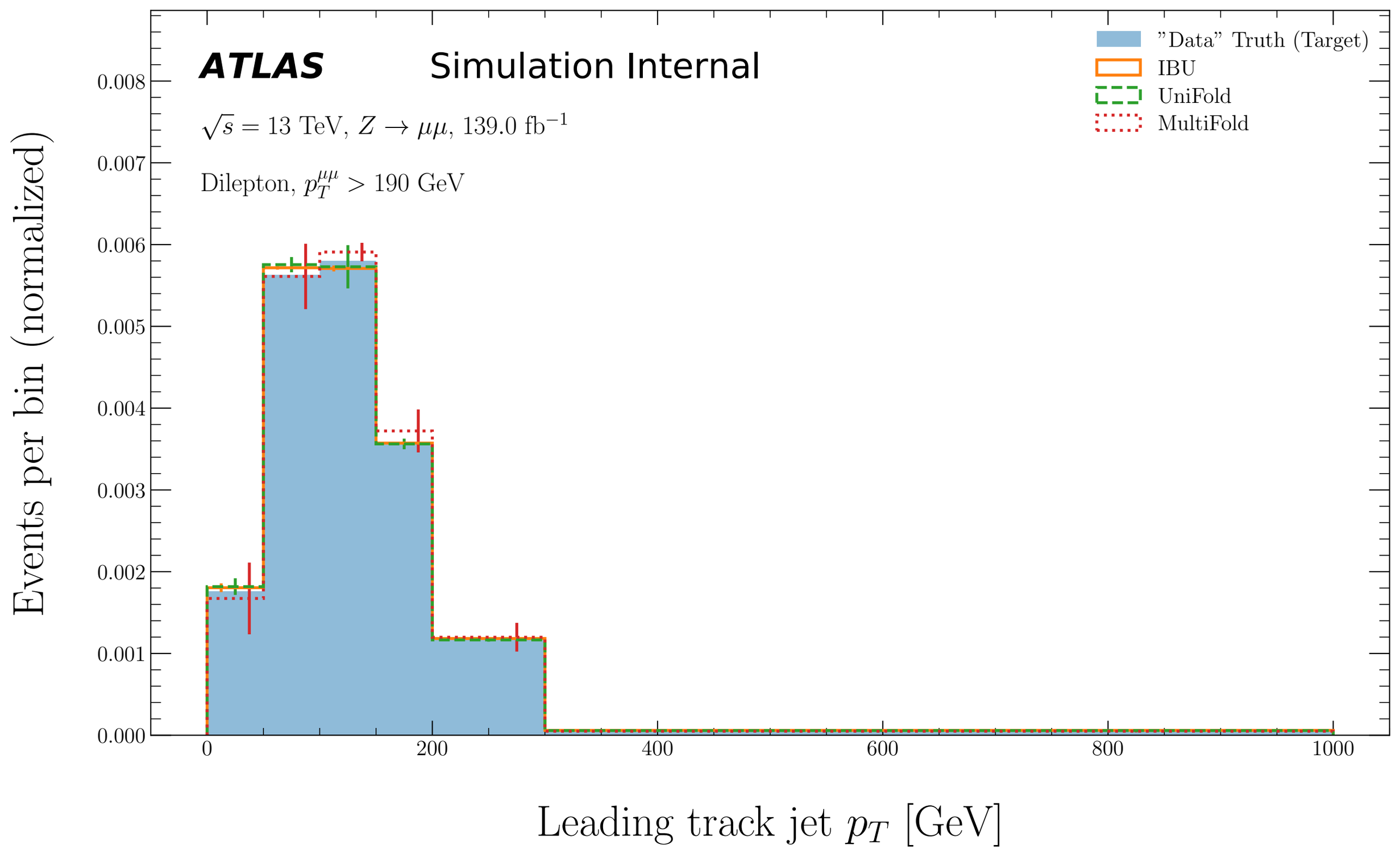
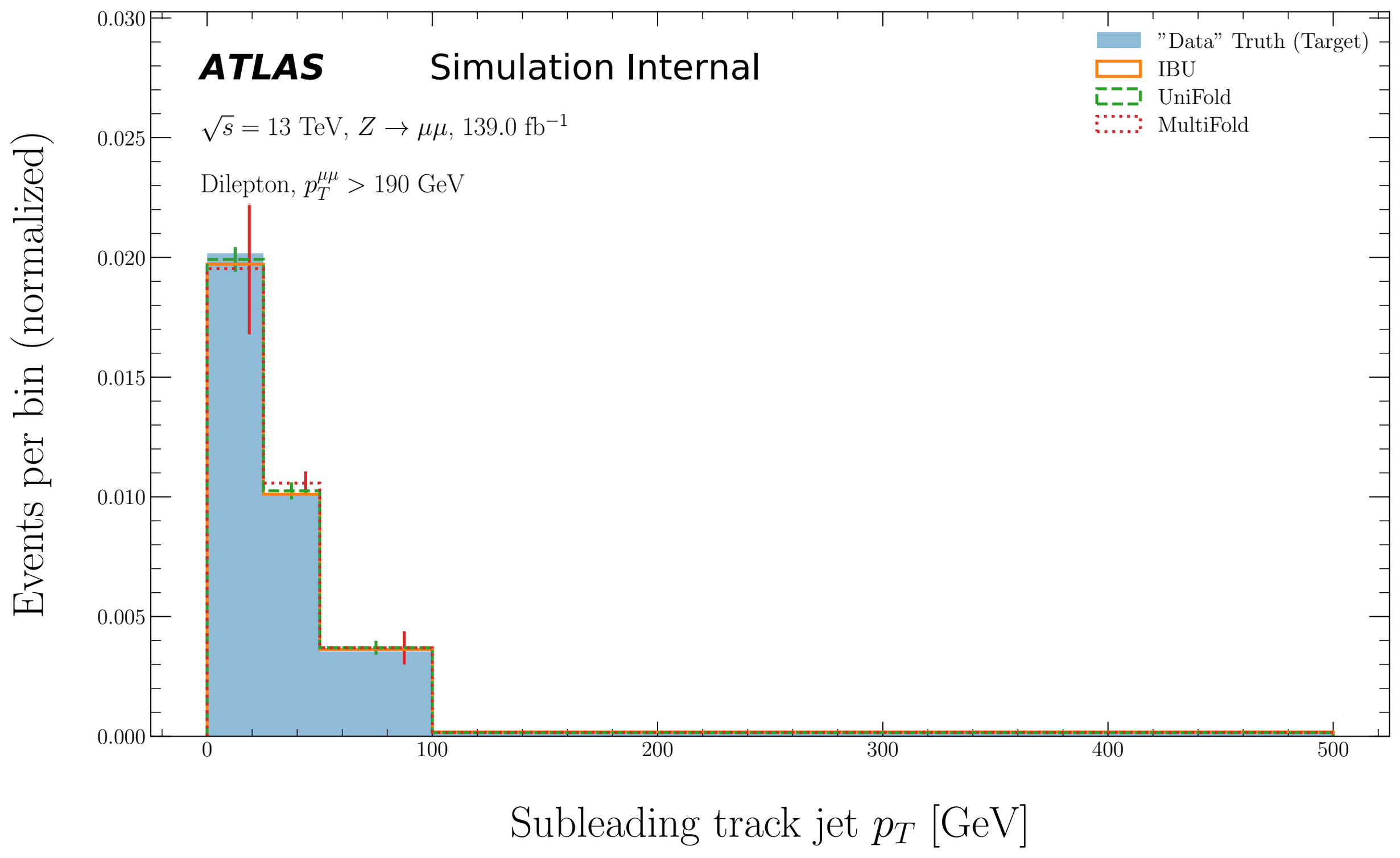

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Leading track jet n_{ch}
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0
5
10
15
20
25
30
35
40

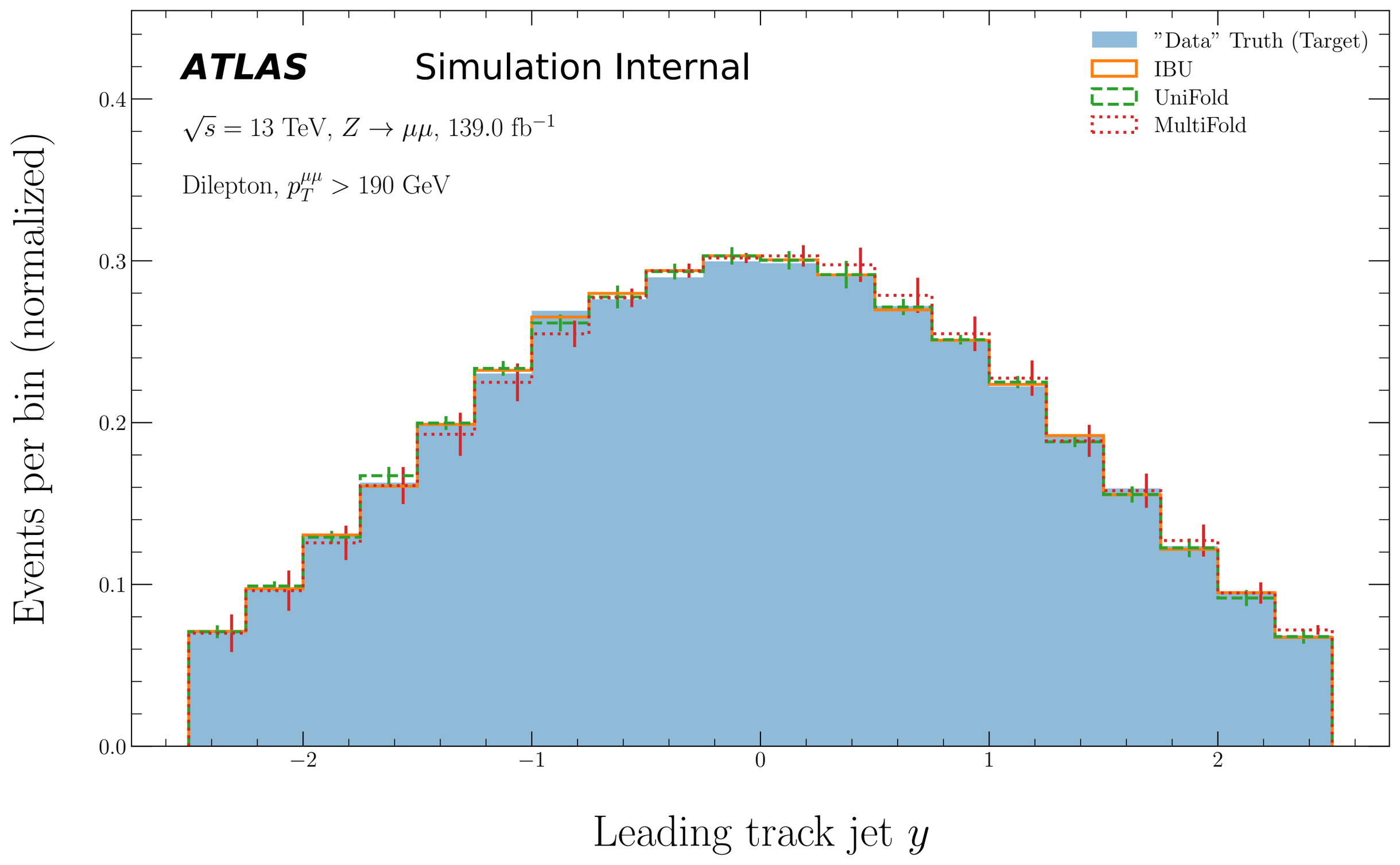

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Subleading track jet n_{ch}
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0
5
10
15
20
25
30
35

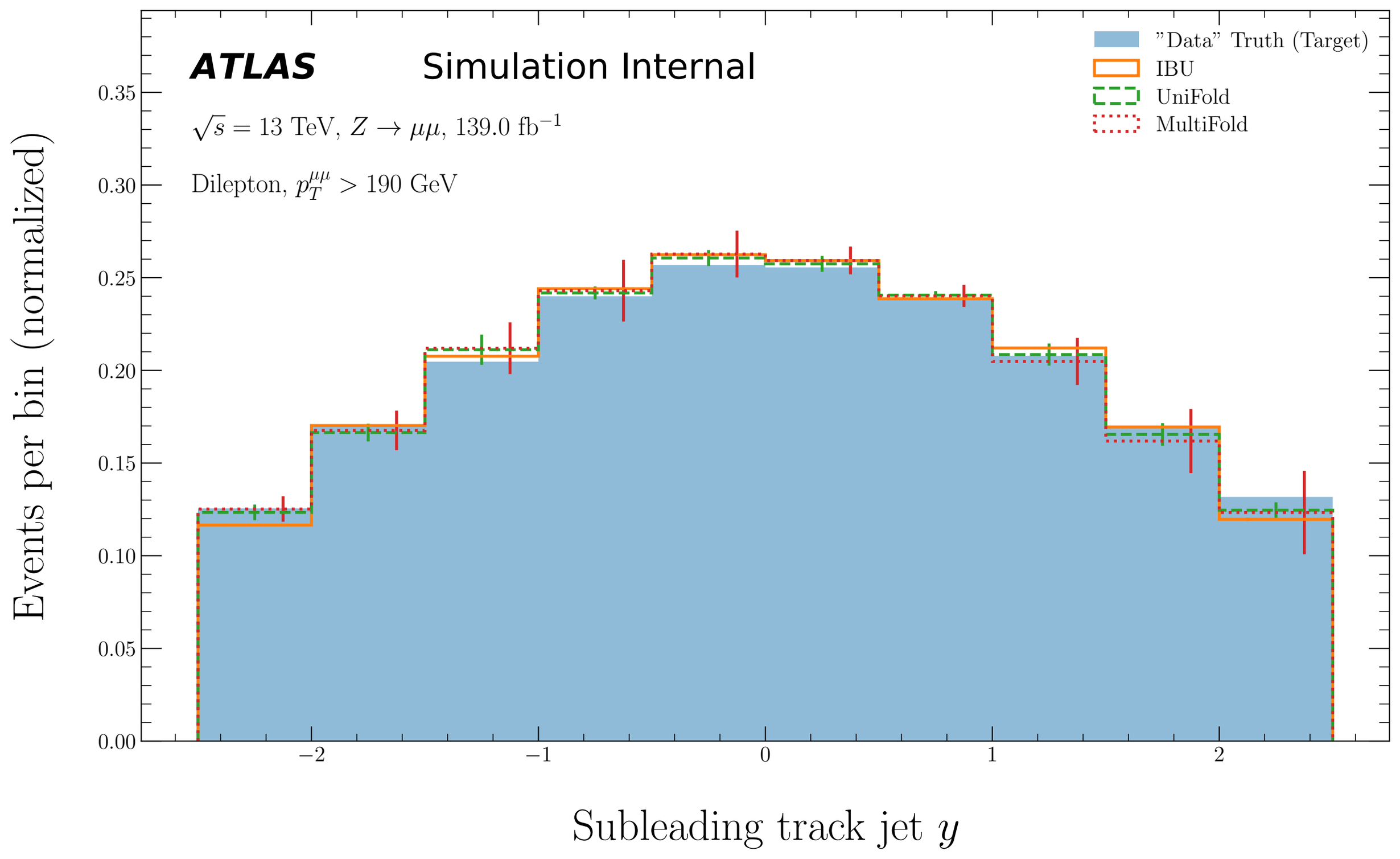

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Leading track jet m [GeV]
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0
10
20
30
40
50
60
70

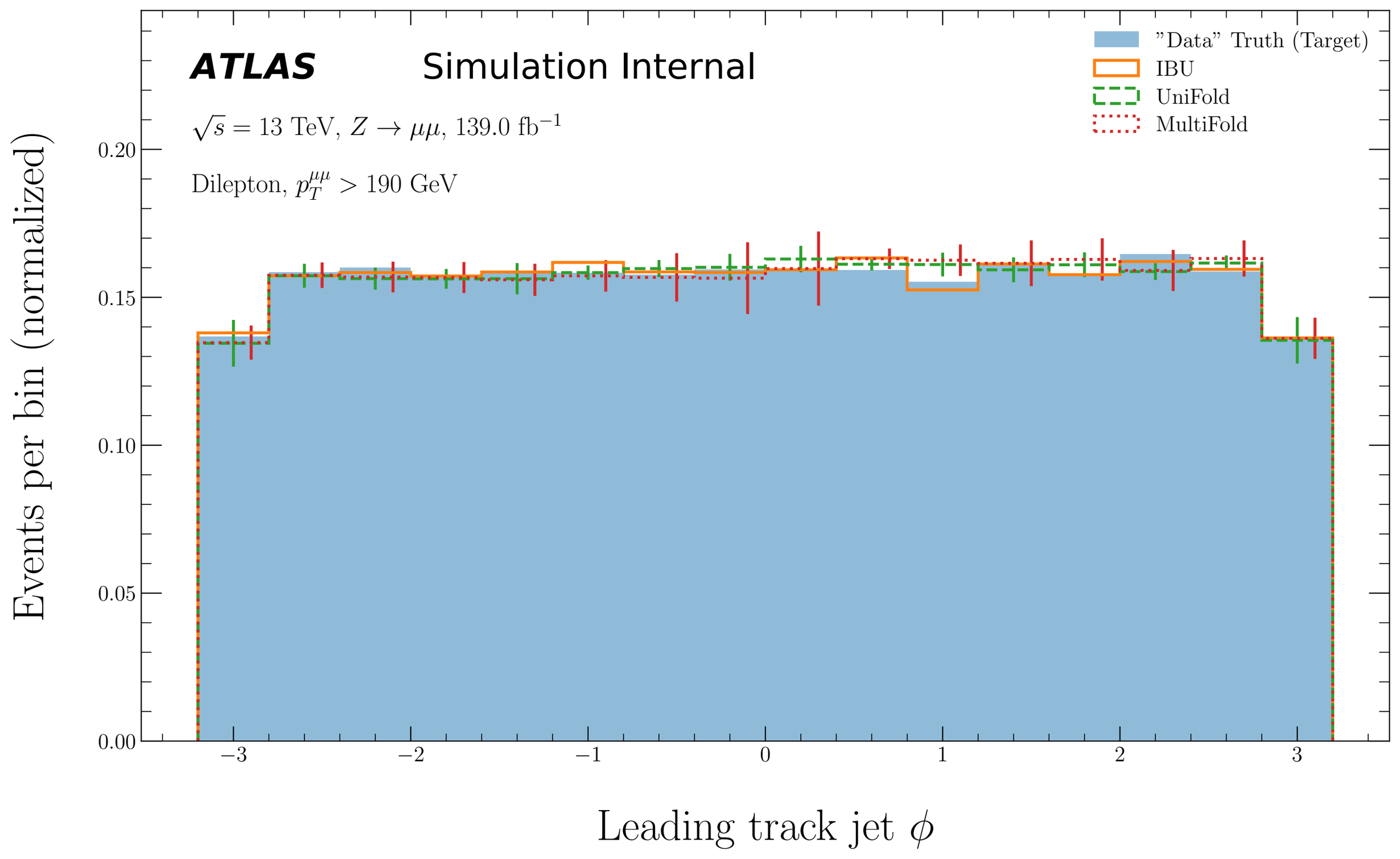

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Subleading track jet m [GeV]
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
0
5
10
15
20
25
30
35
40

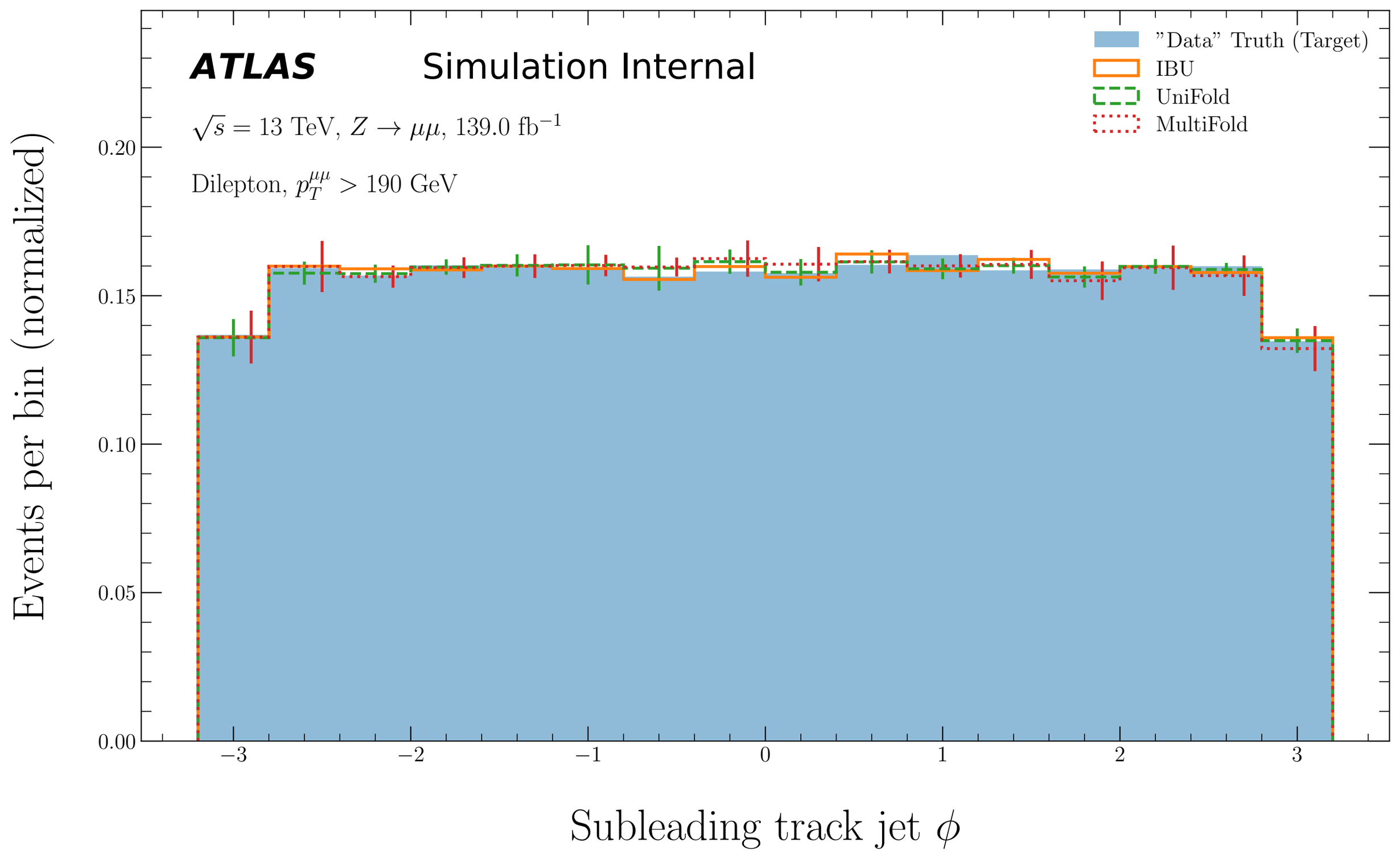

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.000
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0
200
400
600
800
1000
Leading track jet p_T [GeV]

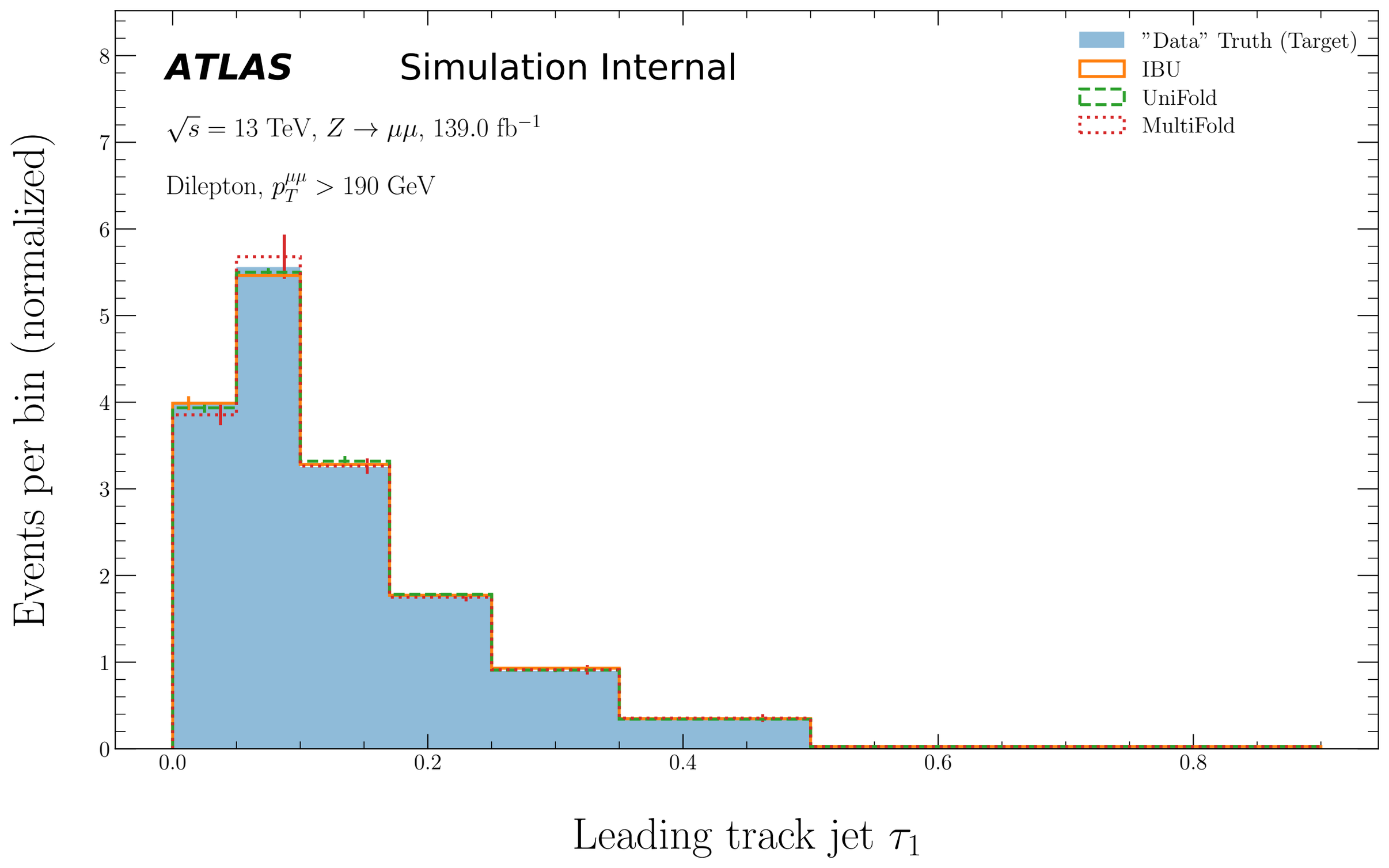

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
100
200
300
400
500
Subleading track jet p_T [GeV]

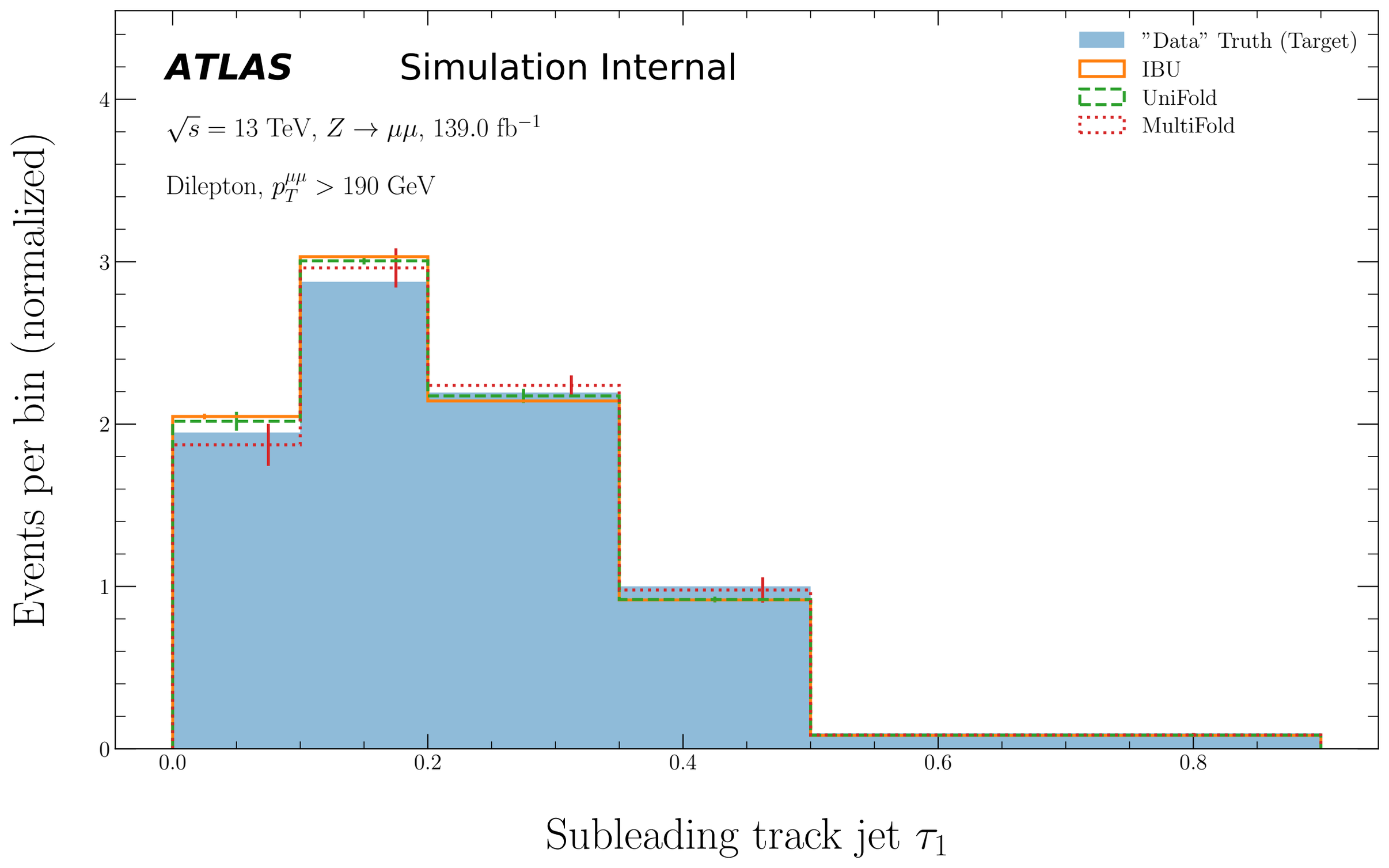

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Leading track jet y
0.0
0.1
0.2
0.3
0.4
−2
−1
0
1
2

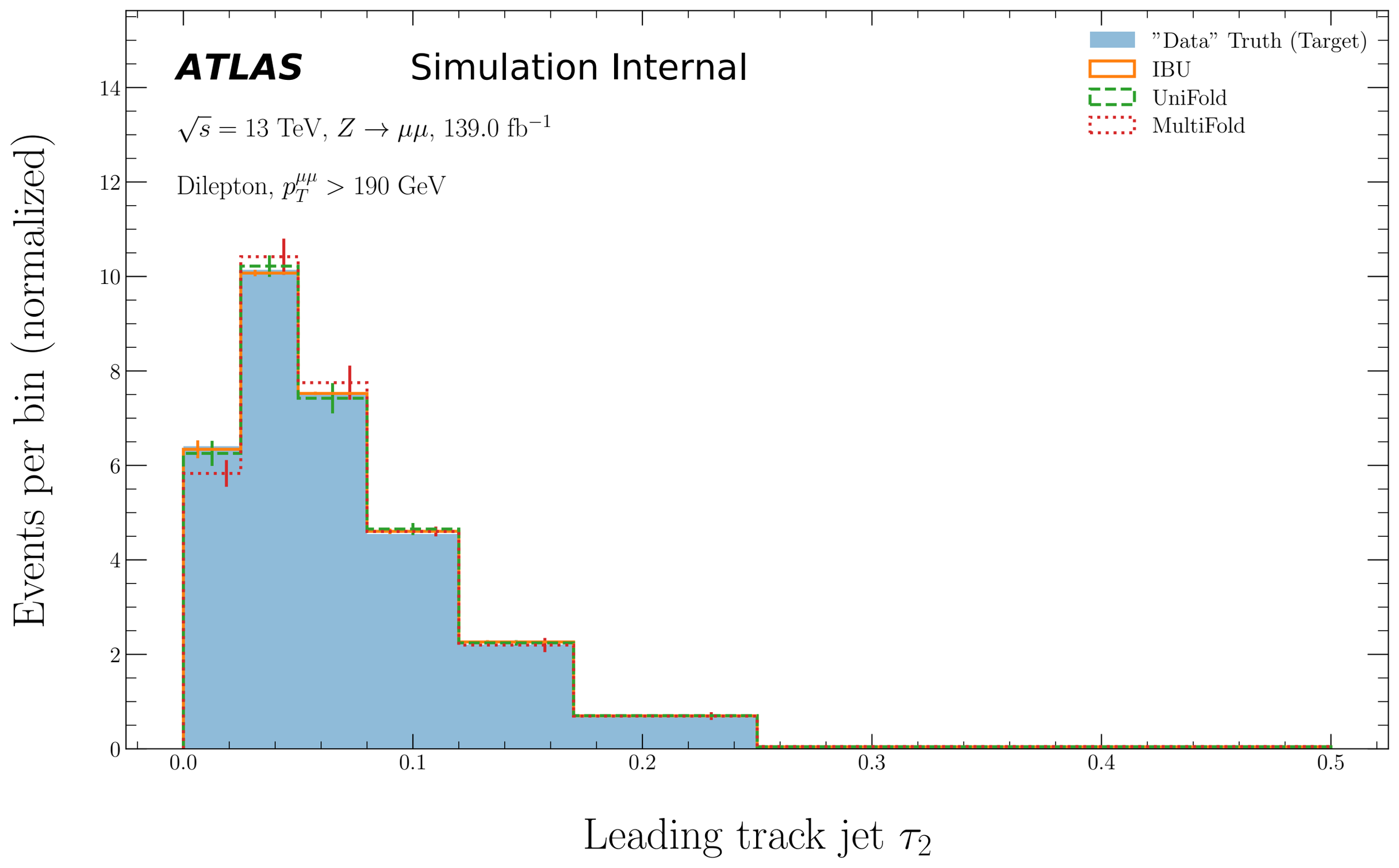

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
−2
−1
0
1
2
Subleading track jet y

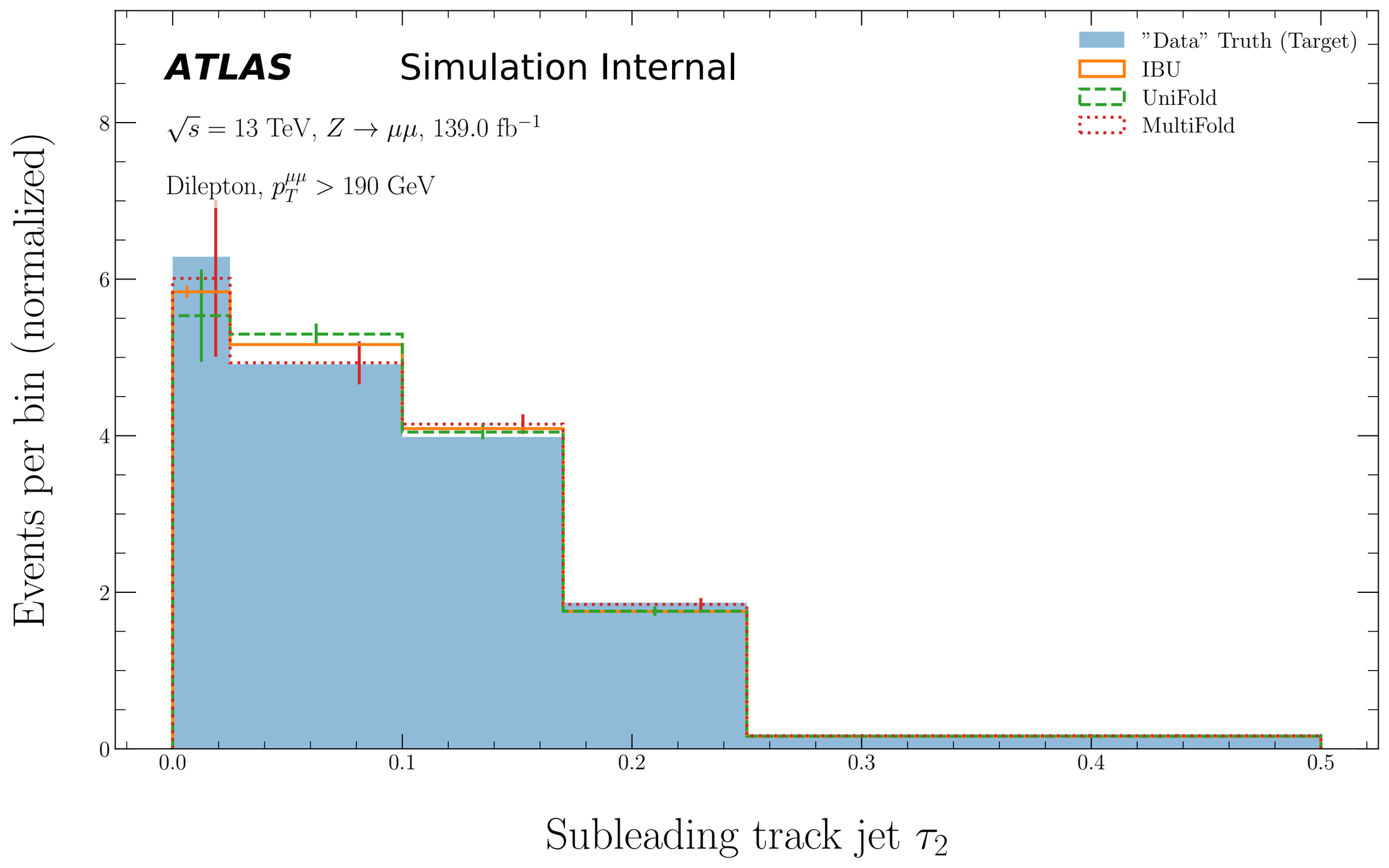

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.00
0.05
0.10
0.15
0.20
−3
−2
−1
0
1
2
3
Leading track jet ϕ

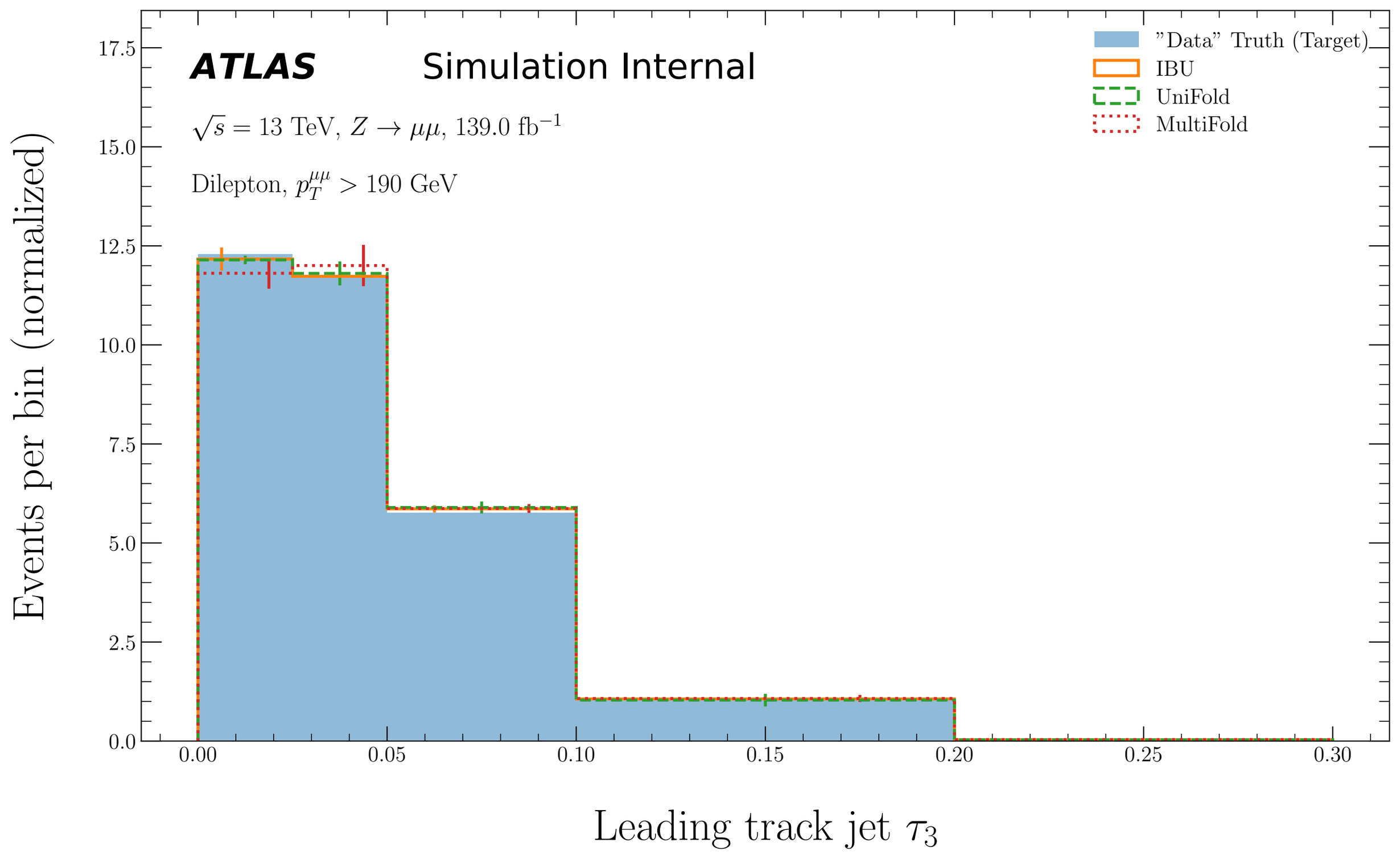

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.00
0.05
0.10
0.15
0.20
−3
−2
−1
0
1
2
3
Subleading track jet ϕ

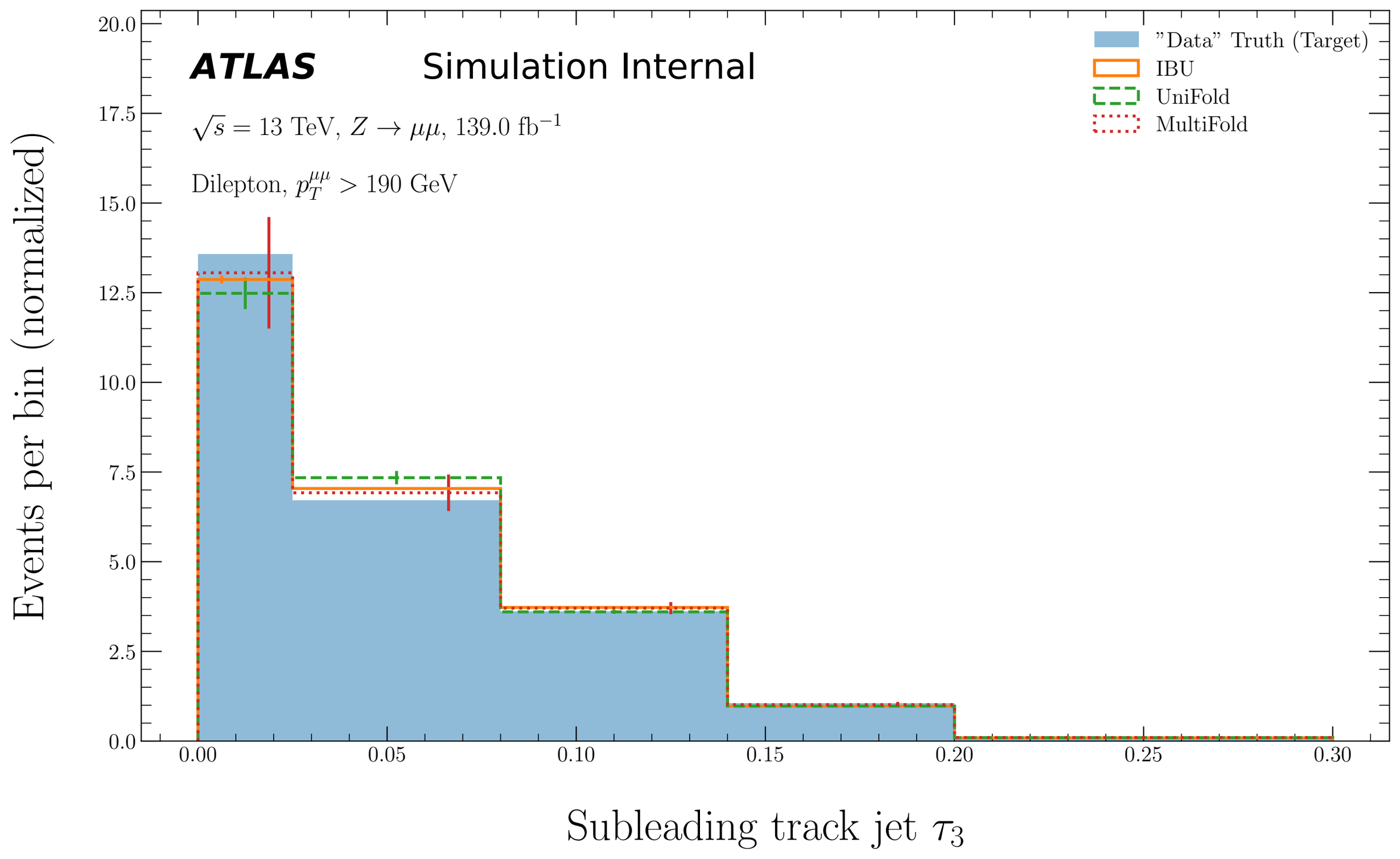

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Leading track jet τ_1
0
1
2
3
4
5
6
7
8
0.0
0.2
0.4
0.6
0.8

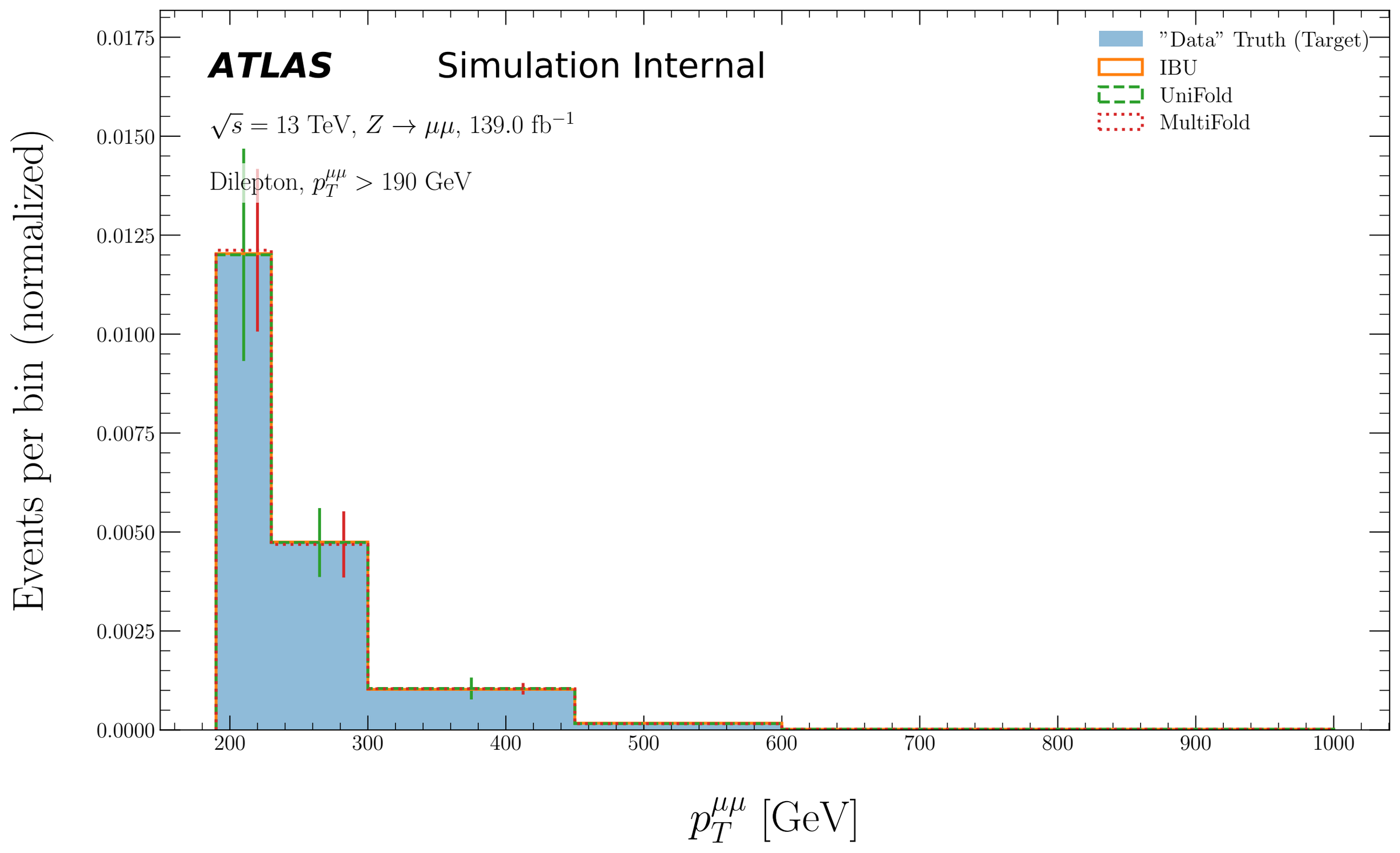

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Subleading track jet τ_1
0
1
2
3
4
0.0
0.2
0.4
0.6
0.8

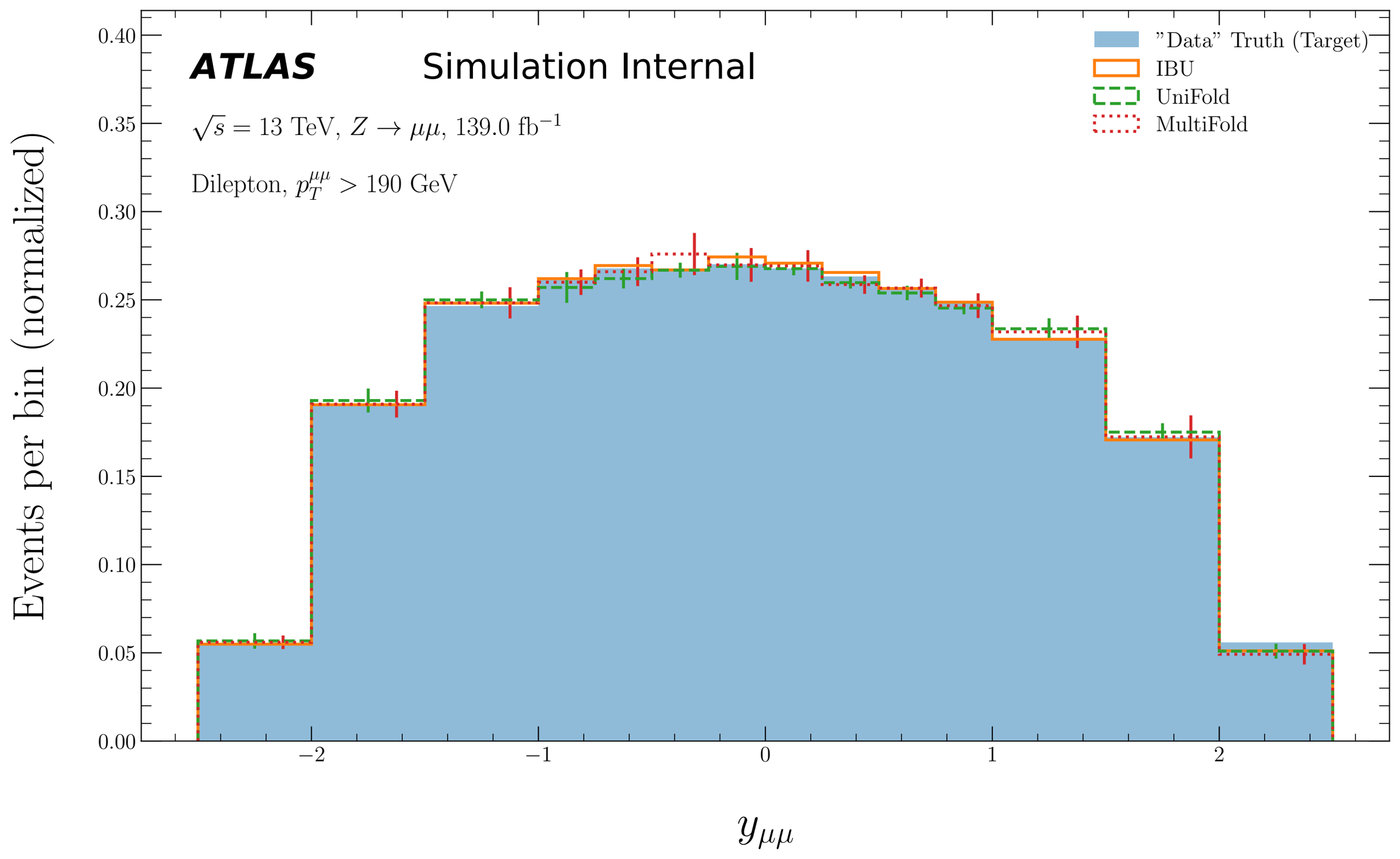

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Leading track jet τ_2
0
2
4
6
8
10
12
14
0.0
0.1
0.2
0.3
0.4
0.5

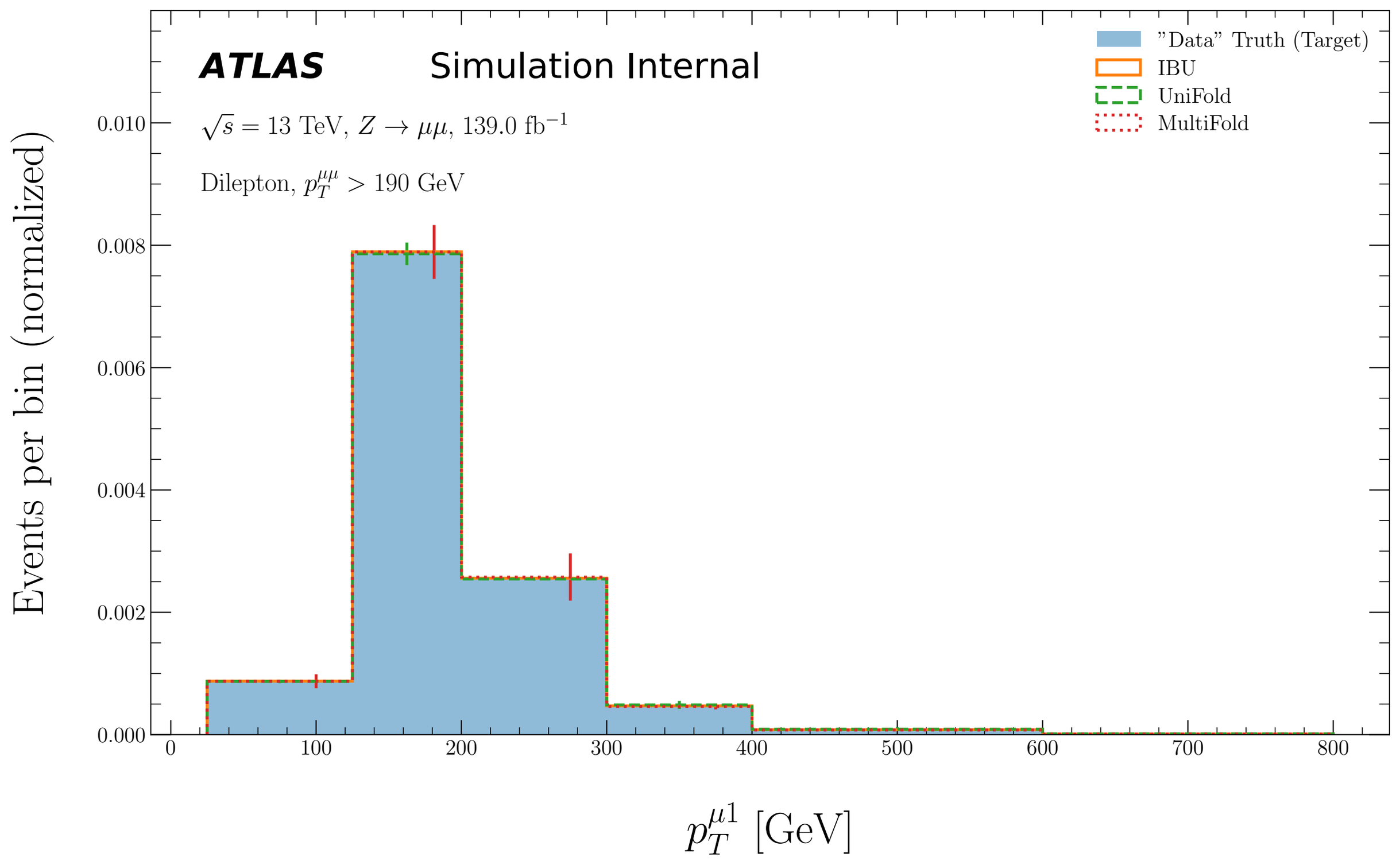

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Subleading track jet τ_2
0
2
4
6
8
0.0
0.1
0.2
0.3
0.4
0.5

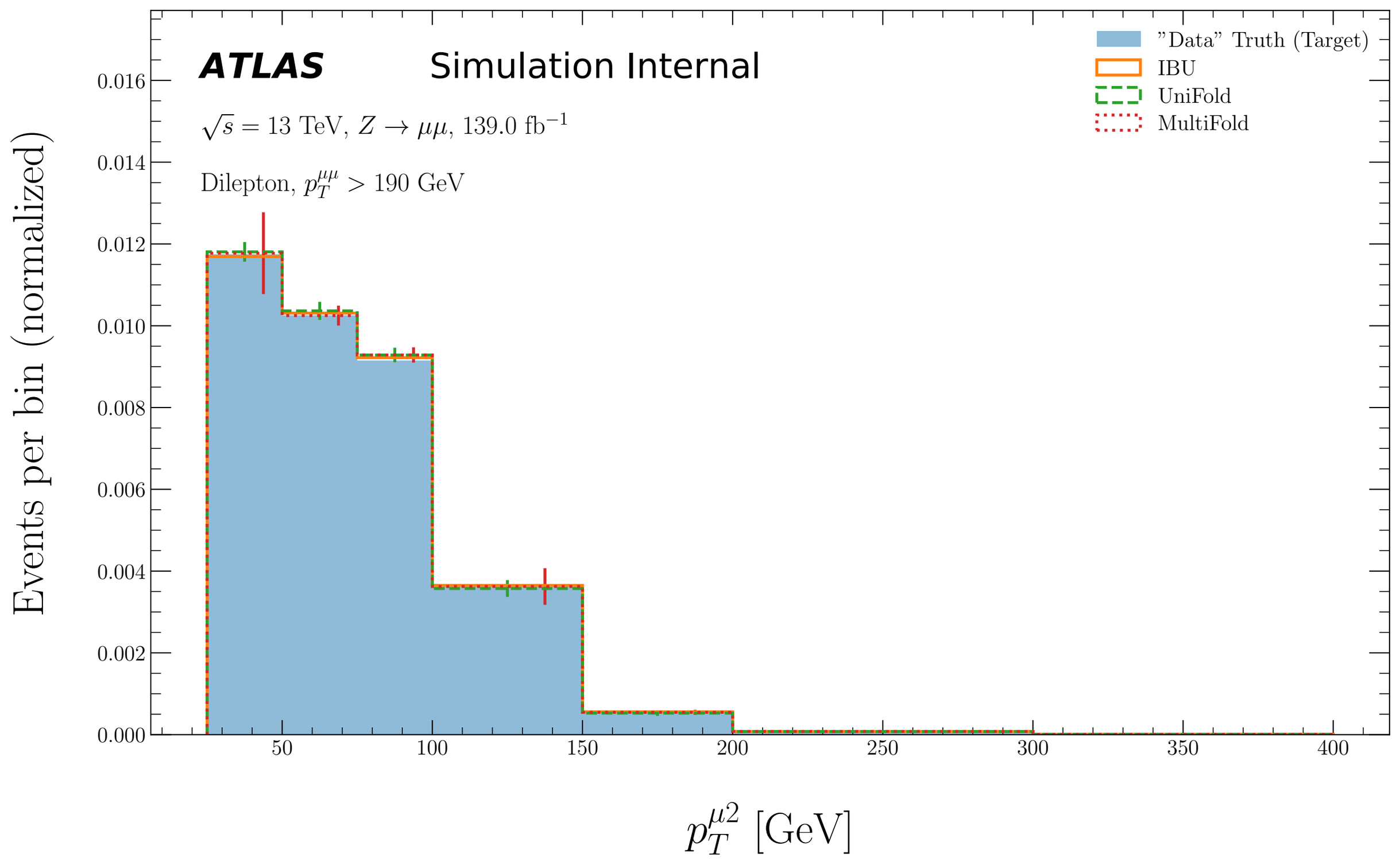

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Leading track jet τ_3
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
0.00
0.05
0.10
0.15
0.20
0.25
0.30

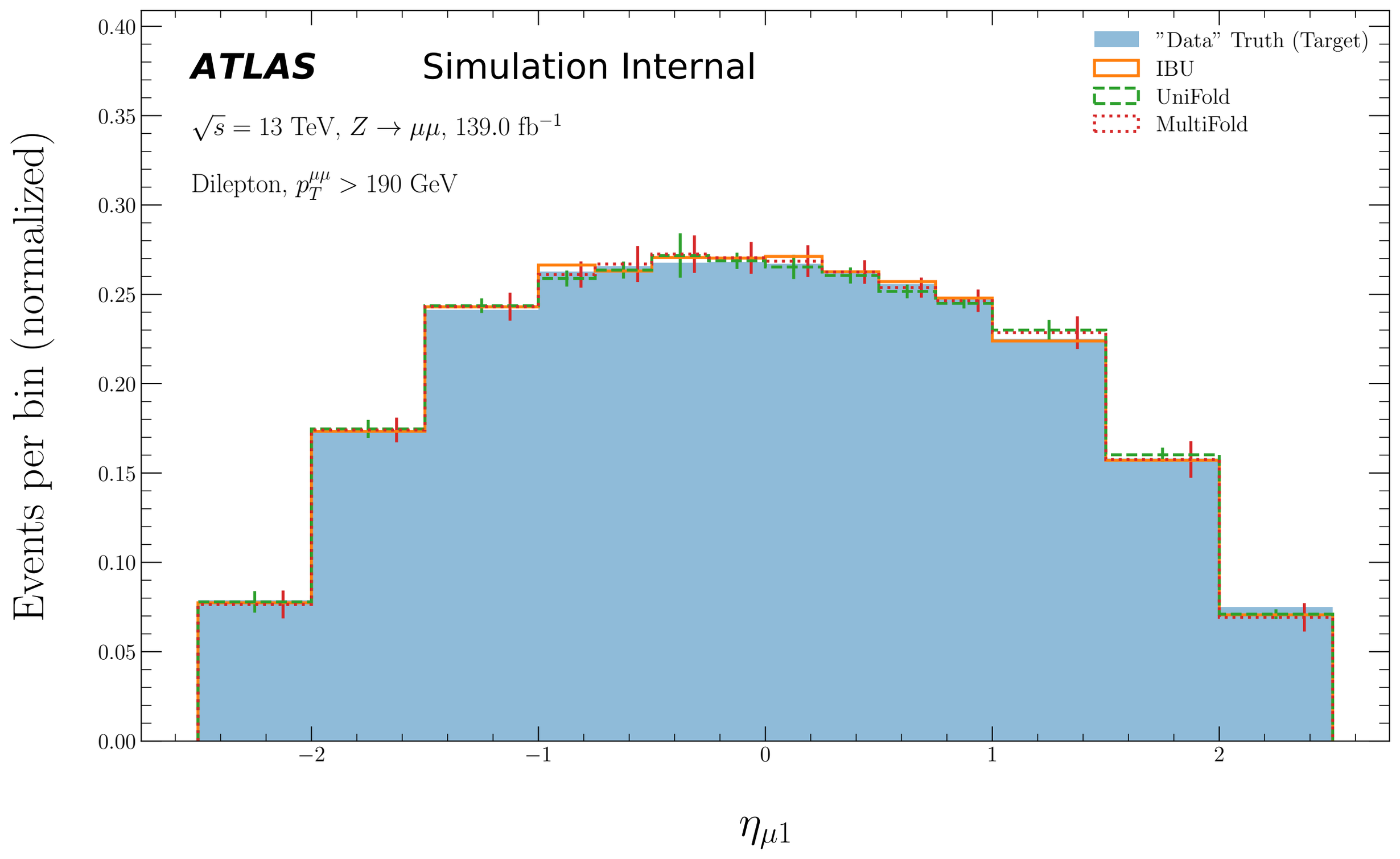

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
Subleading track jet τ_3
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
0.00
0.05
0.10
0.15
0.20
0.25
0.30

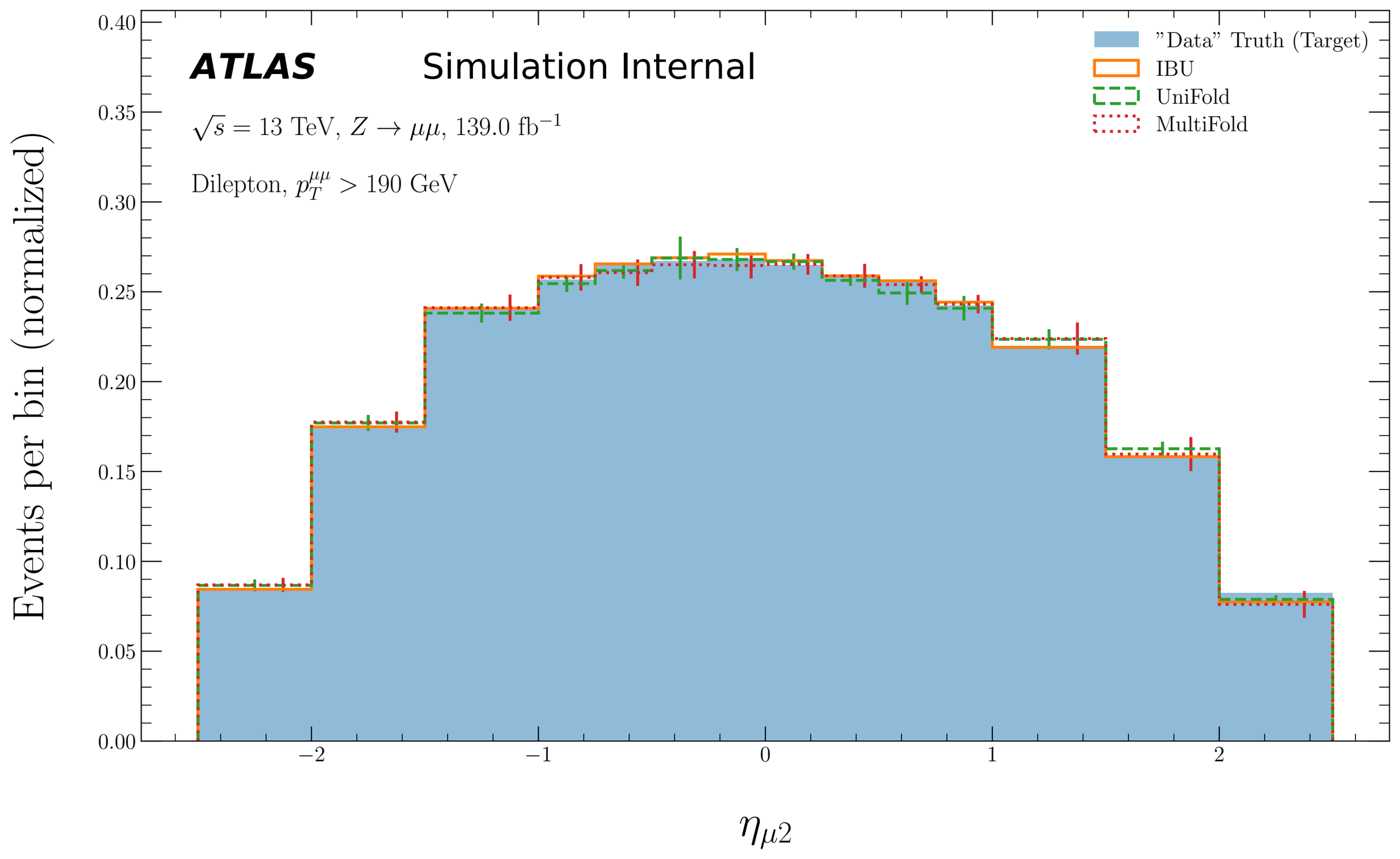

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
200
300
400
500
600
700
800
900
1000
$p_T^{\mu\mu}$ [GeV]

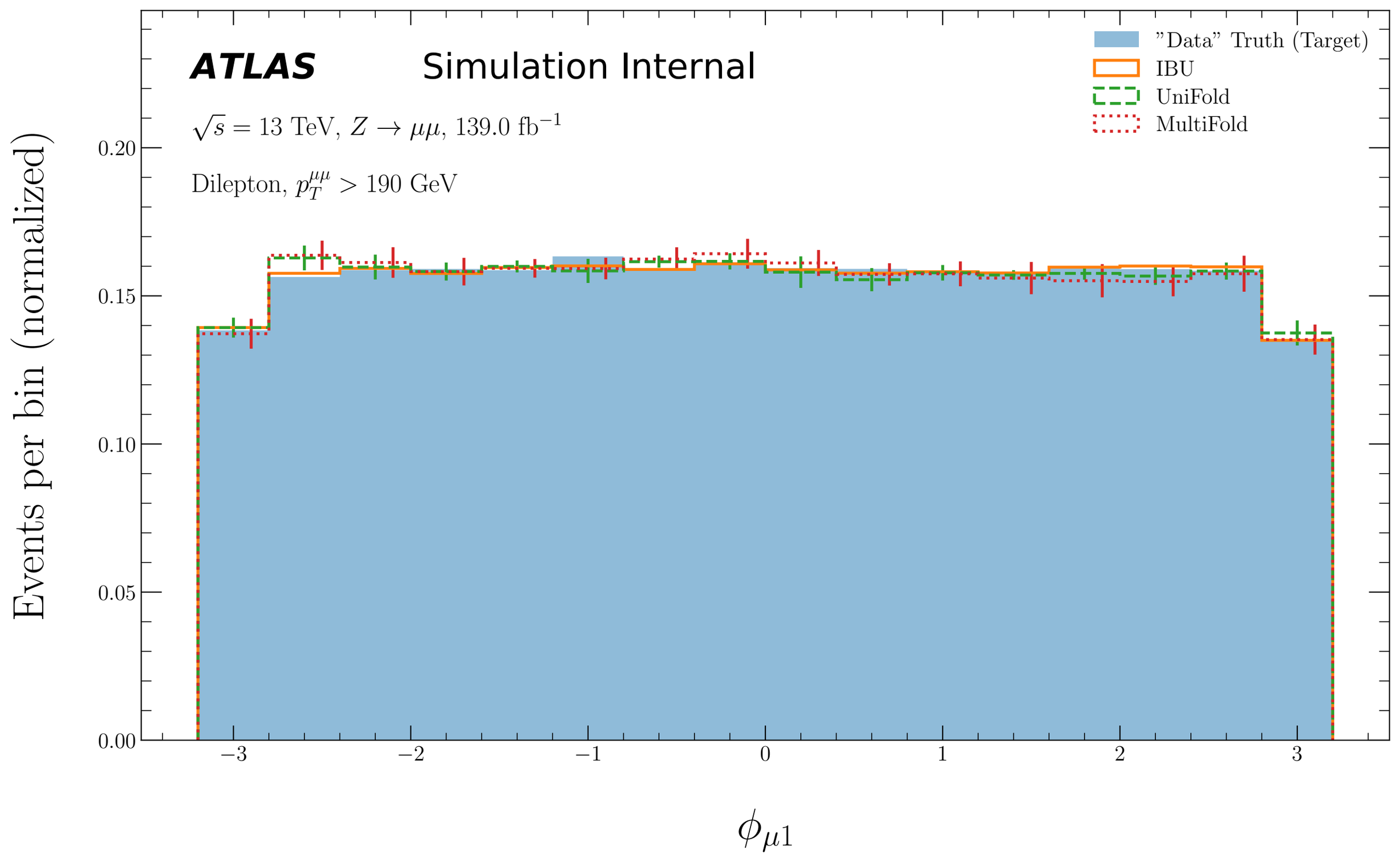

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
$y_{\mu\mu}$
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
−2
−1
0
1
2

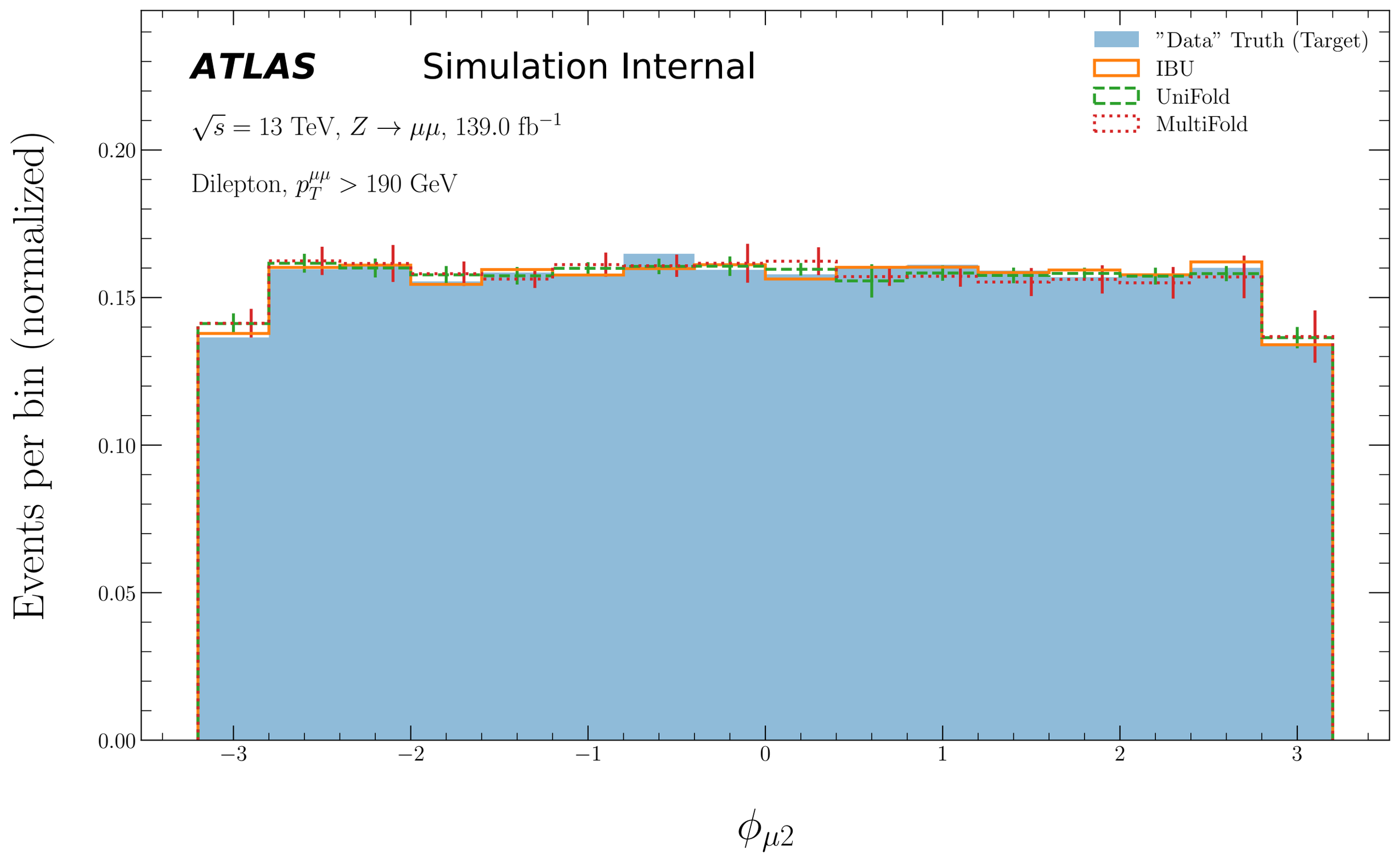

ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.000
0.002
0.004
0.006
0.008
0.010
0
100
200
300
400
500
600
700
800
$p_T^{\mu 1}$ [GeV]


ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.000
0.002
0.004
0.006
0.008
0.010
0.012
0.014
0.016
50
100
150
200
250
300
350
400
$p_T^{\mu 2}$ [GeV]


ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
−2
−1
0
1
2
$\eta_{\mu 1}$


ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
$\eta_{\mu 2}$
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
−2
−1
0
1
2


ATLAS Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.00
0.05
0.10
0.15
0.20
−3
−2
−1
0
1
2
3
$\phi_{\mu 1}$


ATLAS
Simulation Internal
$\sqrt{s} = 13$ TeV, $Z \to \mu\mu$, 139.0 fb^{-1}
Dilepton, $p_T^{\mu\mu} > 190$ GeV
"Data" Truth (Target)
IBU
UniFold
MultiFold
Events per bin (normalized)
0.00
0.05
0.10
0.15
0.20
−3
−2
−1
0
1
2
3
$\phi_{\mu 2}$