

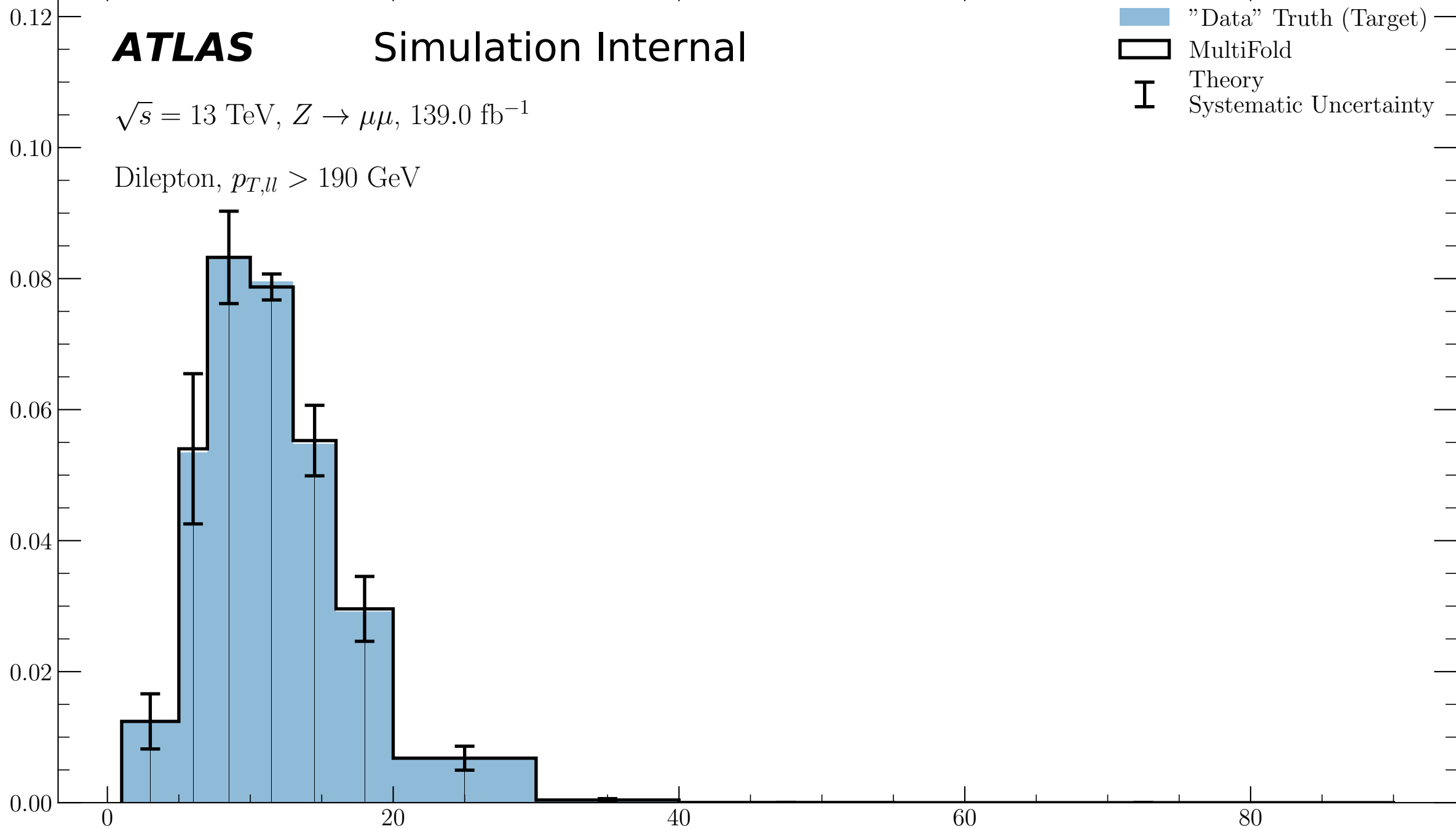
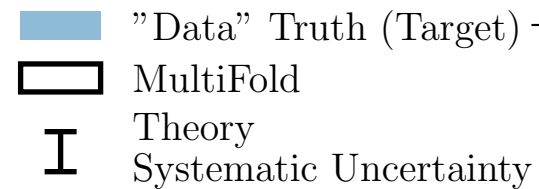
Events per bin (normalized)

**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,l} > 190 \text{ GeV}$



Events per bin (normalized)

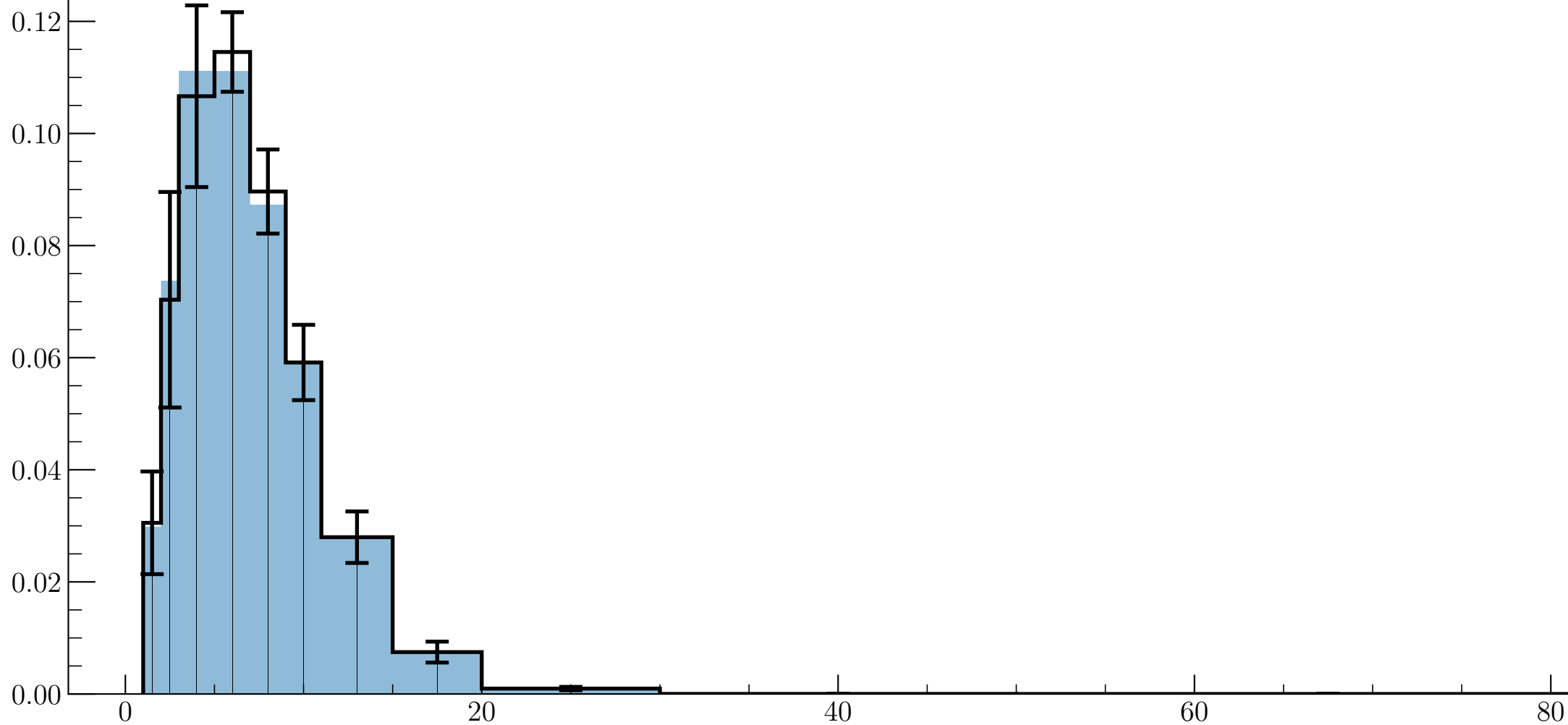
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,l} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
I Systematic Uncertainty



Subleading track jet  $n_{ch}$

Events per bin (normalized)

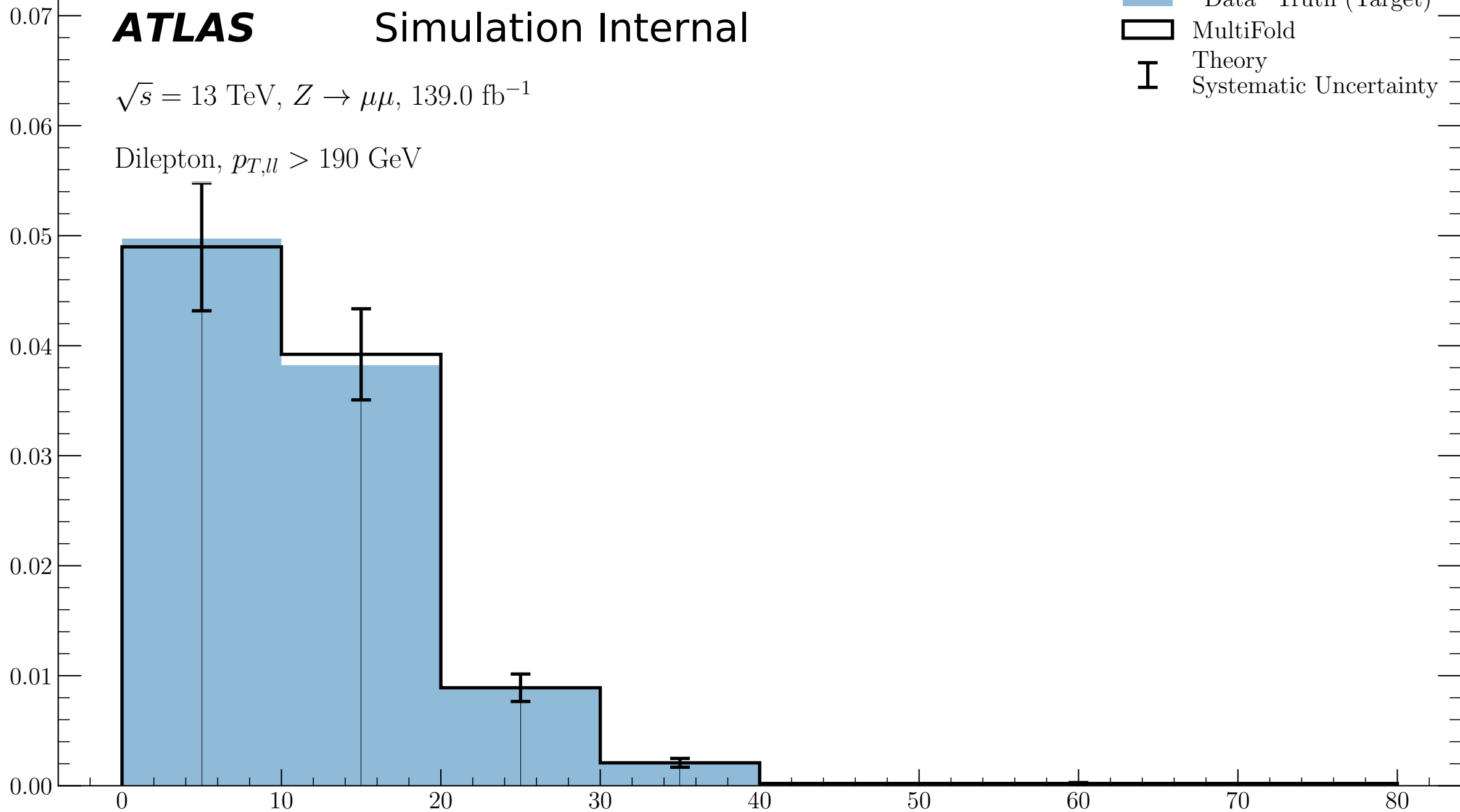
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

- "Data" Truth (Target)
- MultiFold
- Theory
- Systematic Uncertainty



Leading track jet  $m$  [GeV]

Events per bin (normalized)

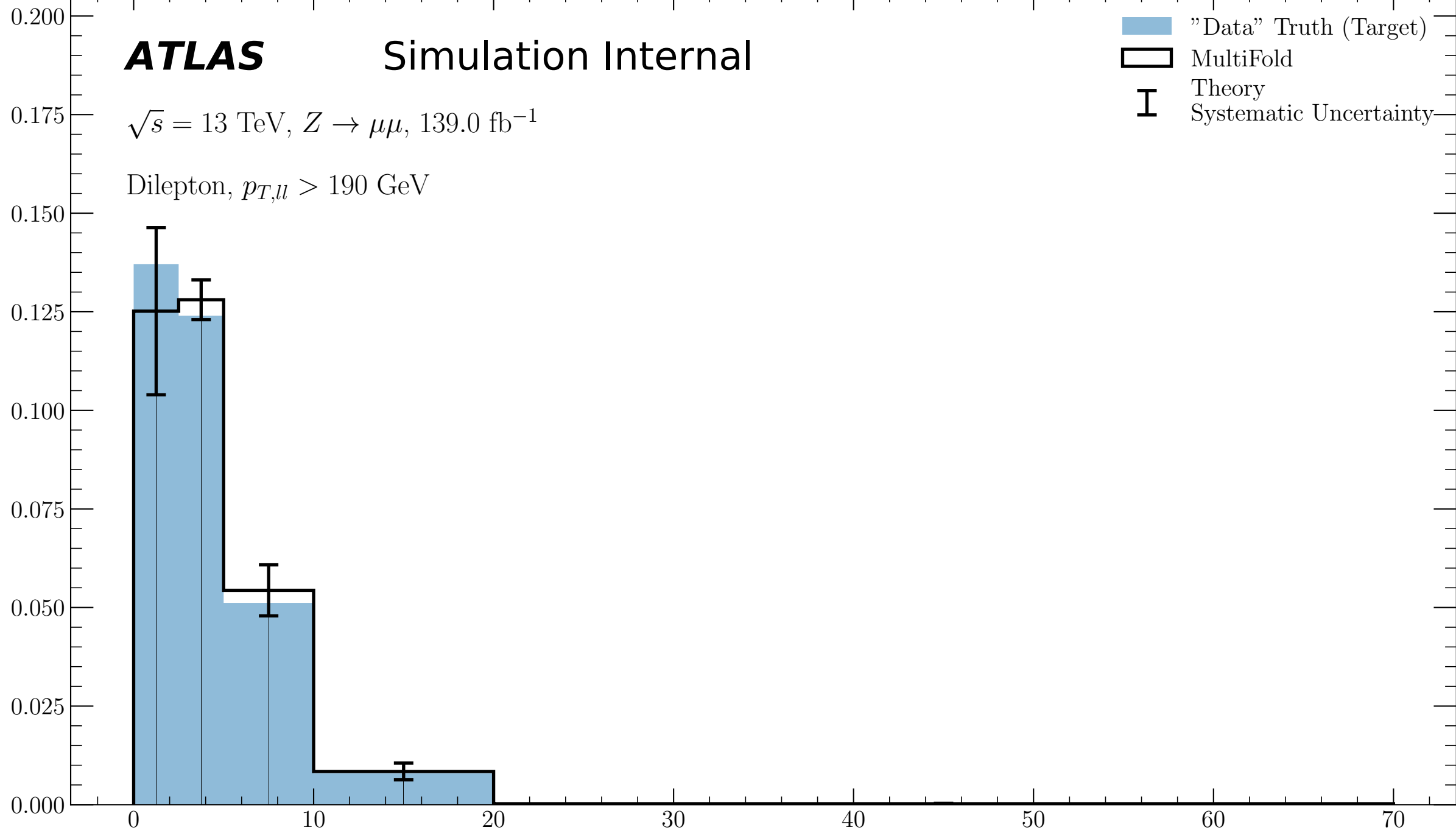
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
Systematic Uncertainty



Subleading track jet  $m$  [GeV]

Events per bin (normalized)

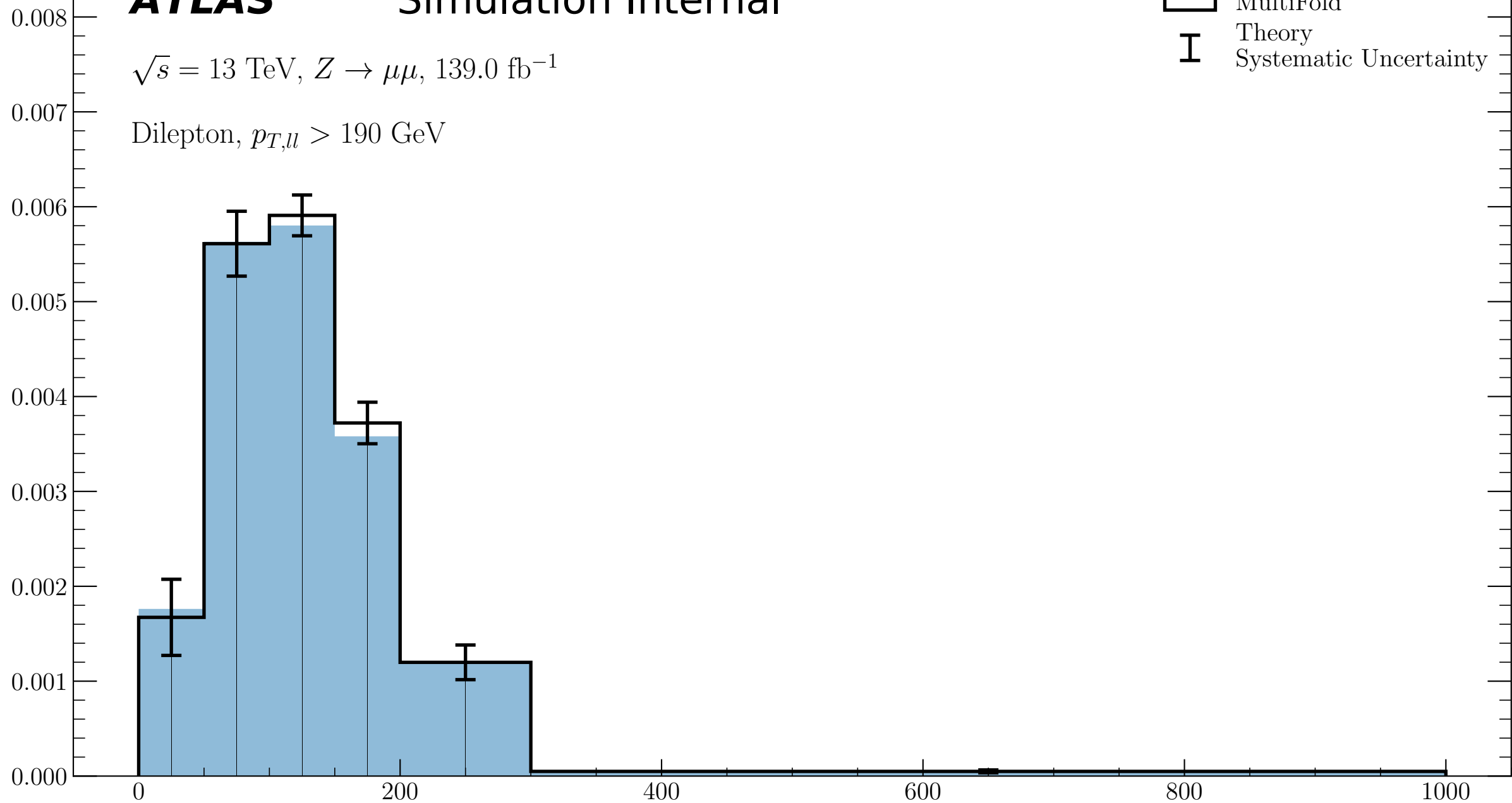
**ATLAS**

Simulation Internal

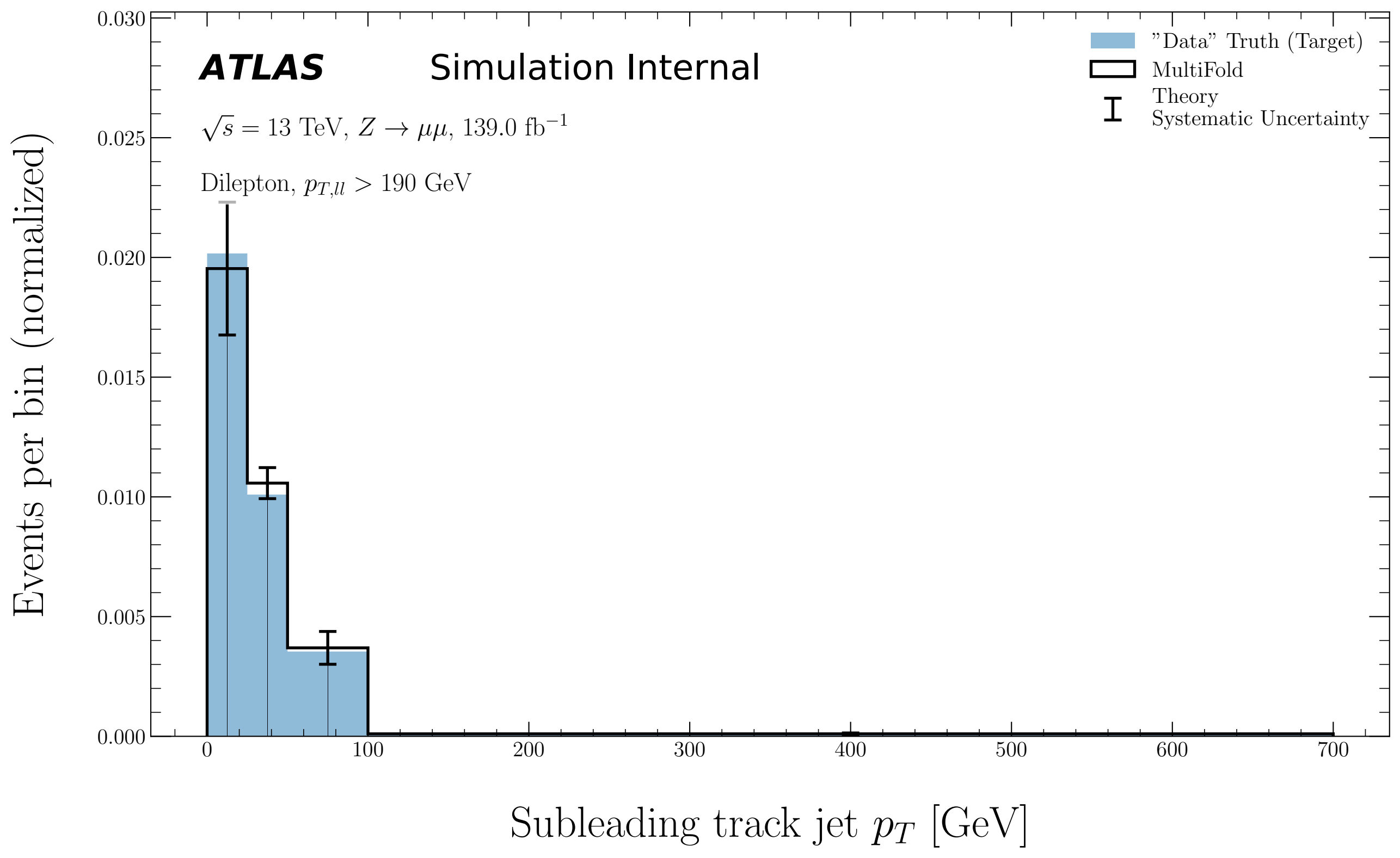
$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

- "Data" Truth (Target)
- MultiFold
- Theory
- Systematic Uncertainty



Leading track jet  $p_T$  [GeV]



Events per bin (normalized)

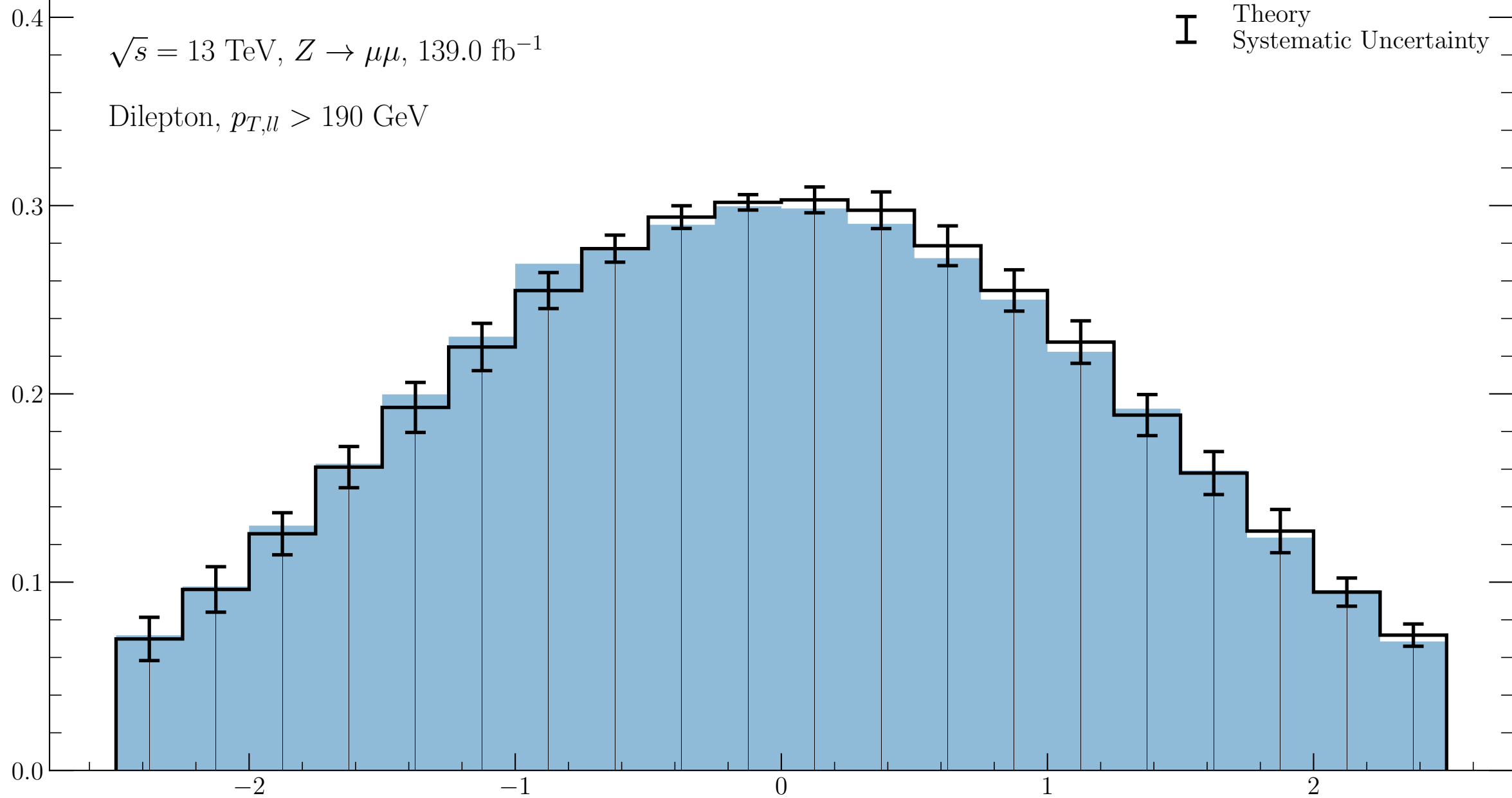
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,l} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
I Systematic Uncertainty



Leading track jet  $y$

Events per bin (normalized)

**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
I Systematic Uncertainty

0.35  
0.30  
0.25  
0.20  
0.15  
0.10  
0.05  
0.00

-2

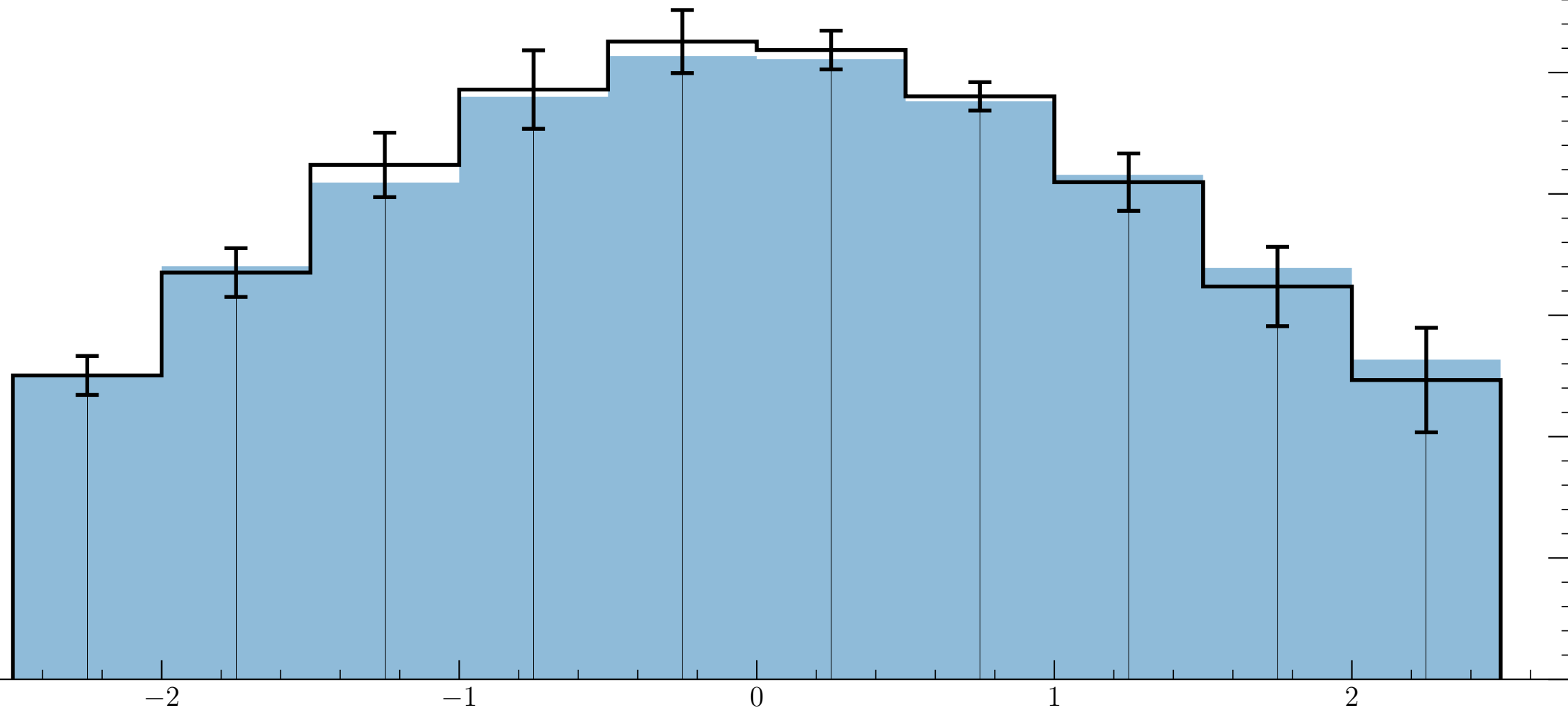
-1

0

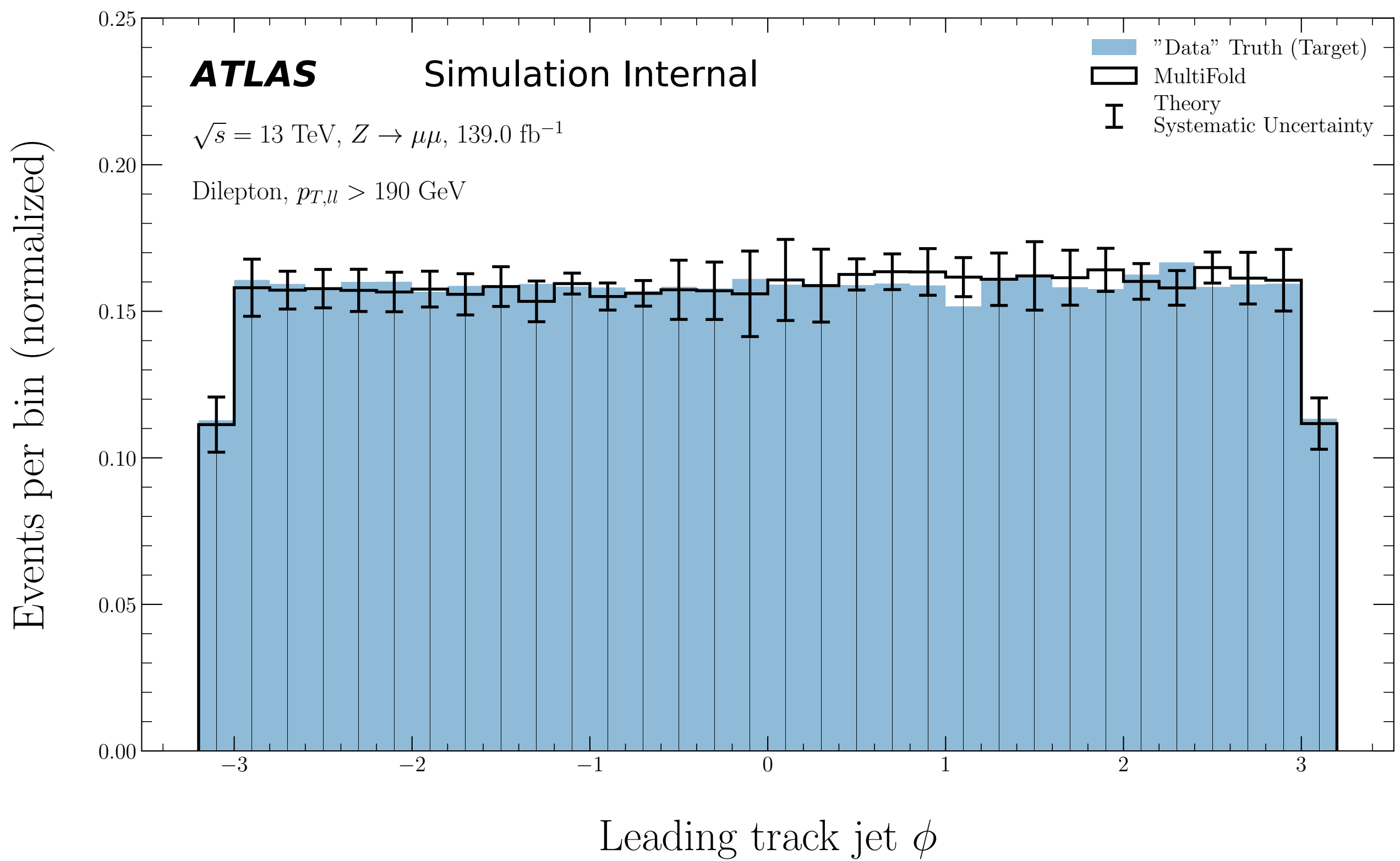
1

2

Subleading track jet  $y$







Events per bin (normalized)

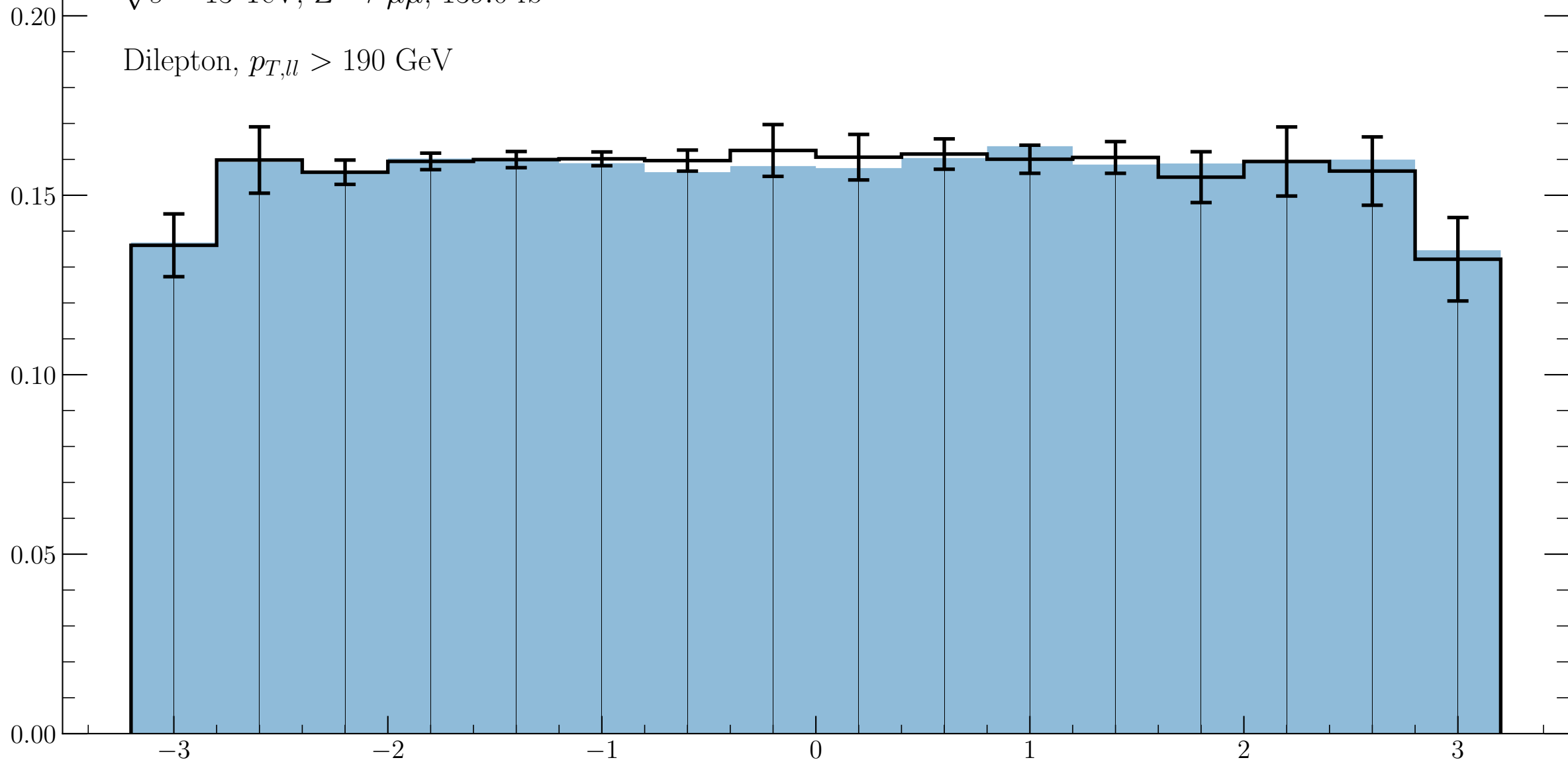
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
I Systematic Uncertainty



Subleading track jet  $\phi$

Events per bin (normalized)

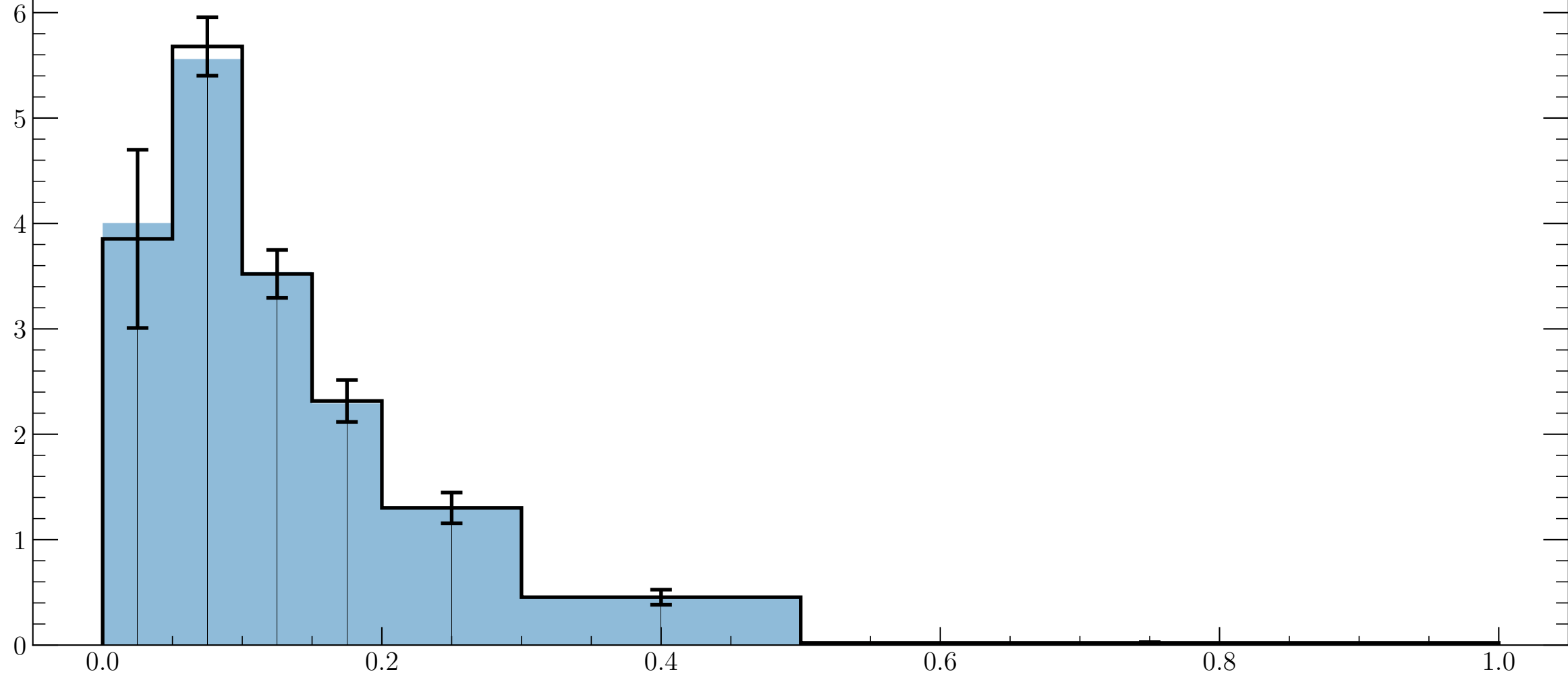
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
Systematic Uncertainty



Leading track jet  $\tau_1$

Events per bin (normalized)

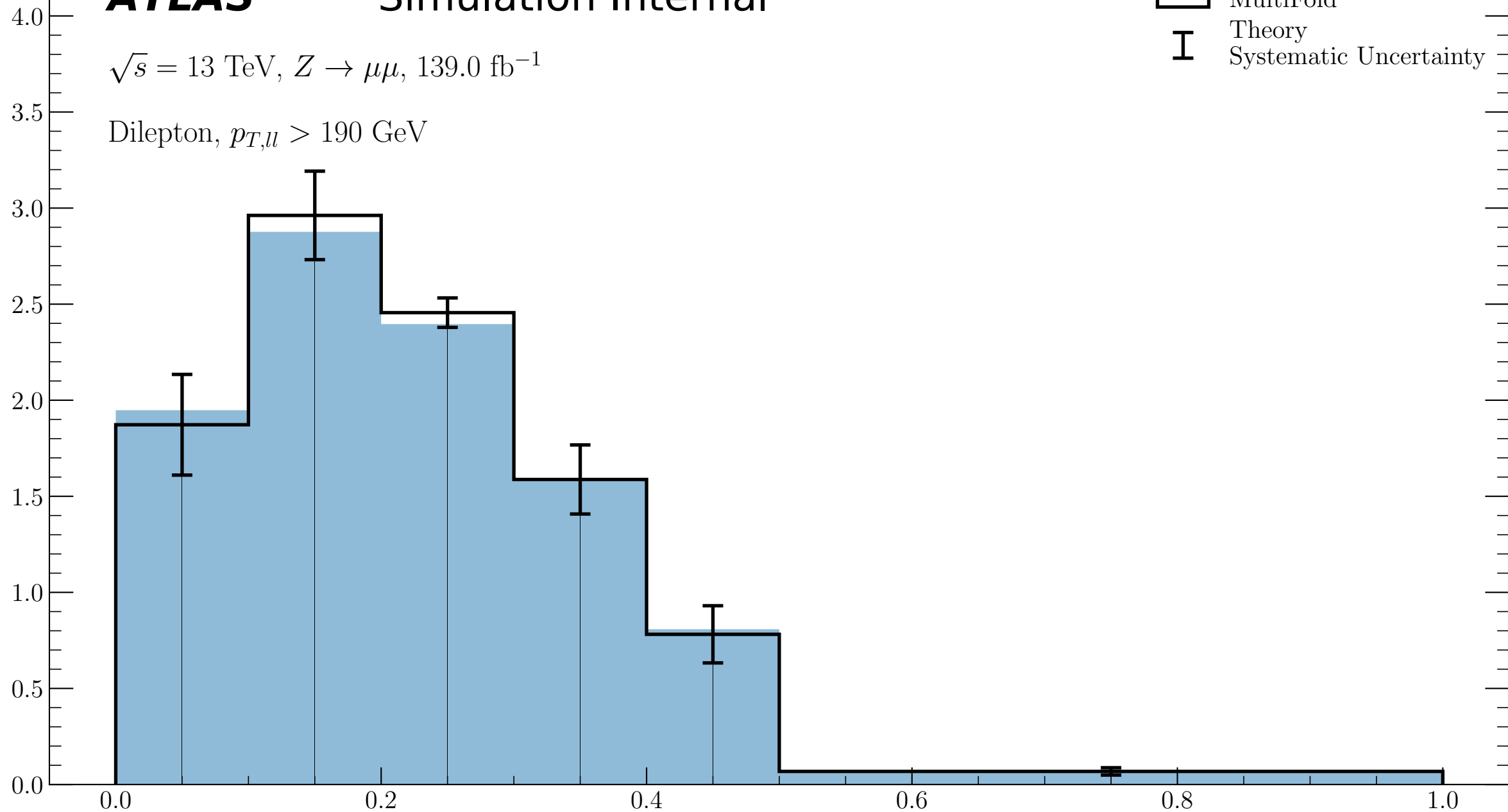
**ATLAS**

Simulation Internal

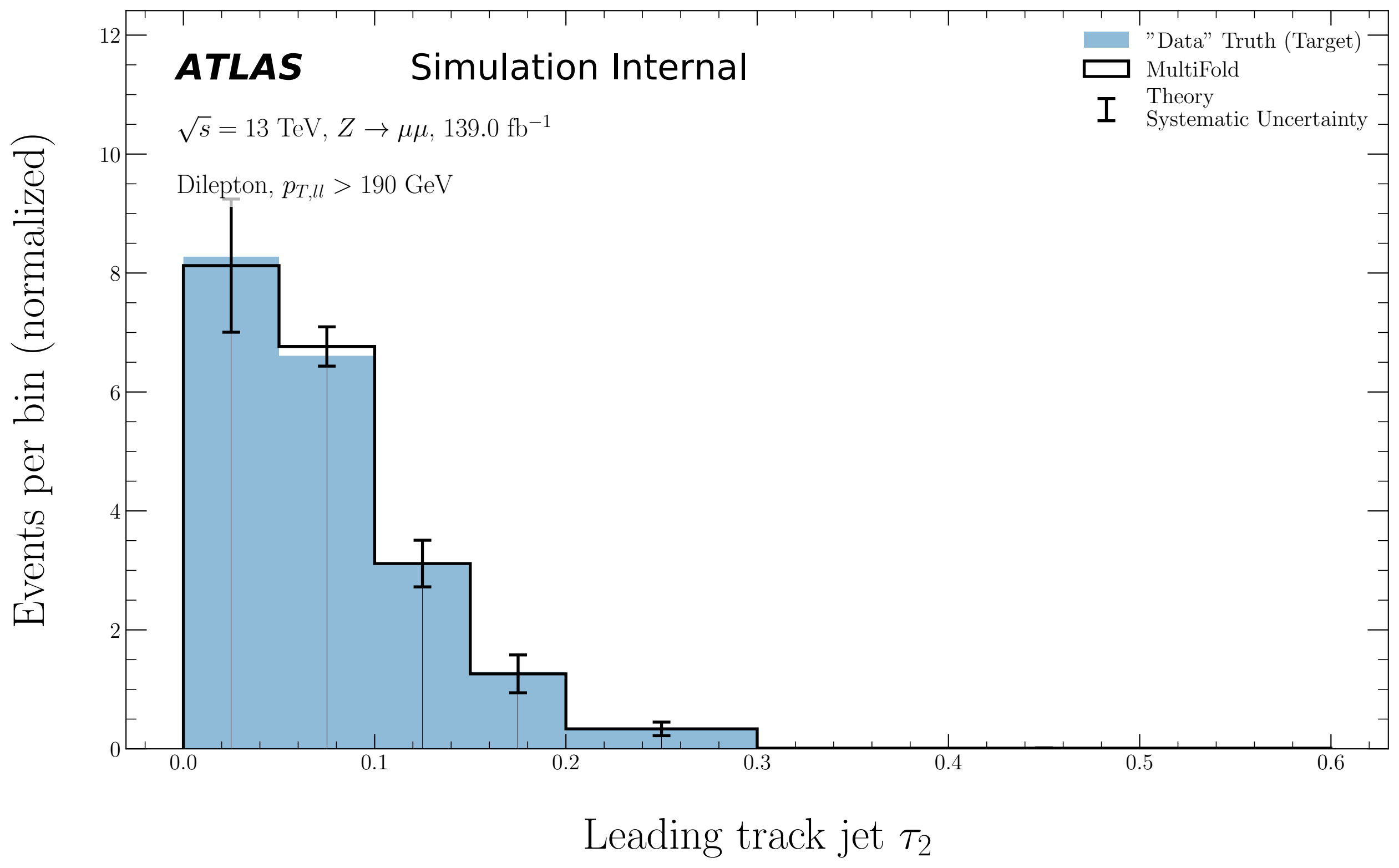
$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,l} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
I Systematic Uncertainty



Subleading track jet  $\tau_1$



Events per bin (normalized)

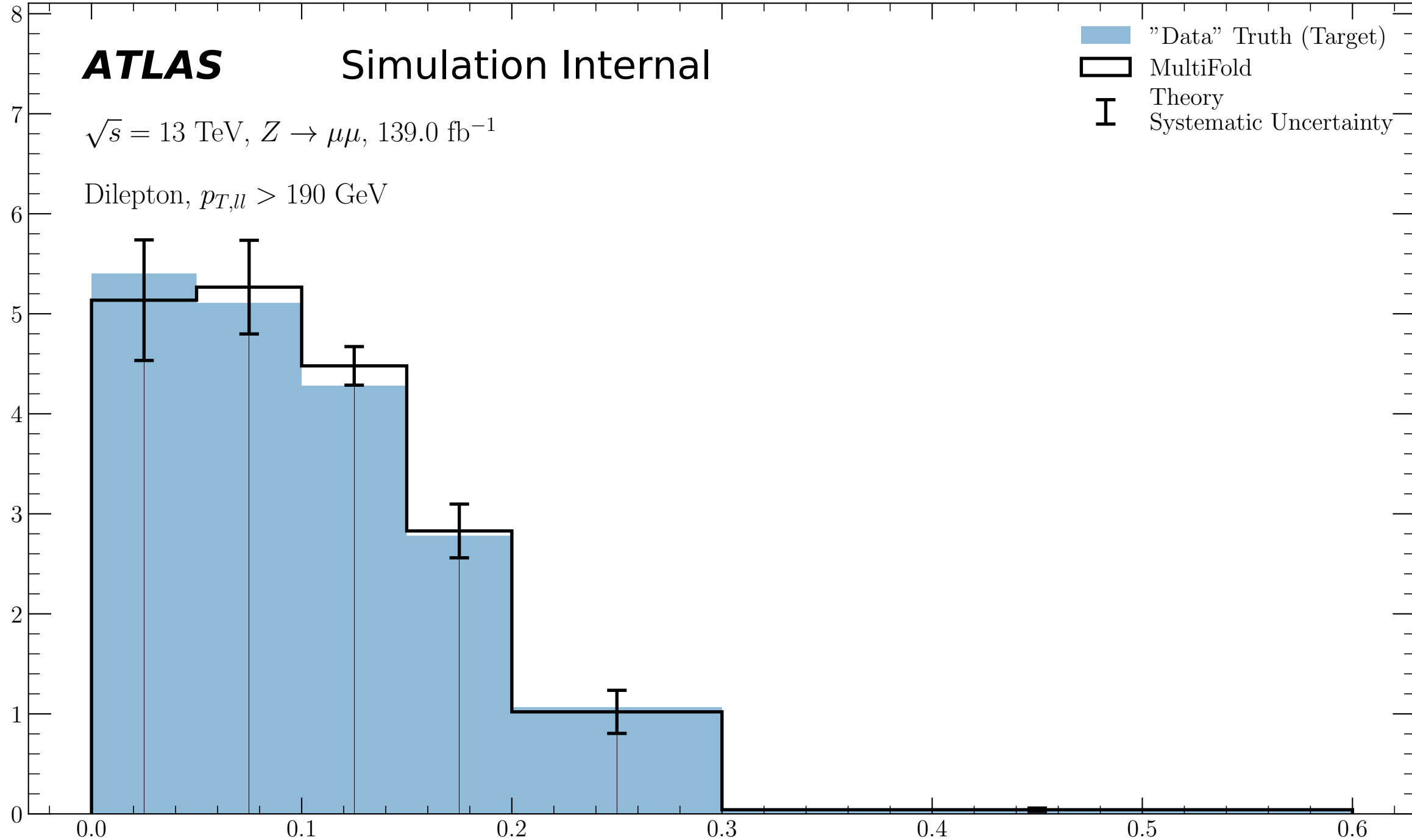
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

- "Data" Truth (Target)
- MultiFold
- Theory
- Systematic Uncertainty



Subleading track jet  $\tau_2$

Events per bin (normalized)

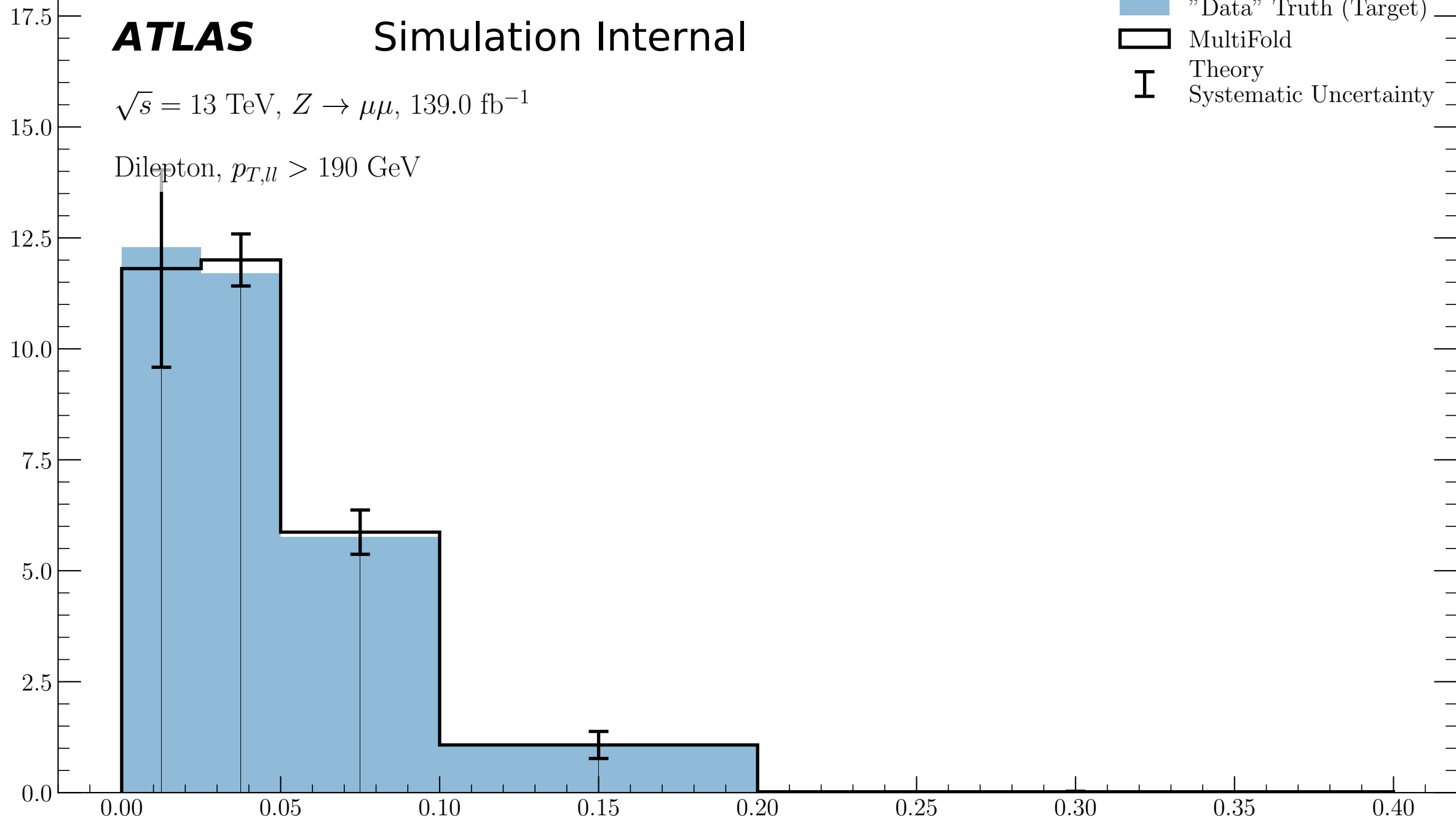
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
Systematic Uncertainty



Leading track jet  $\tau_3$

Events per bin (normalized)

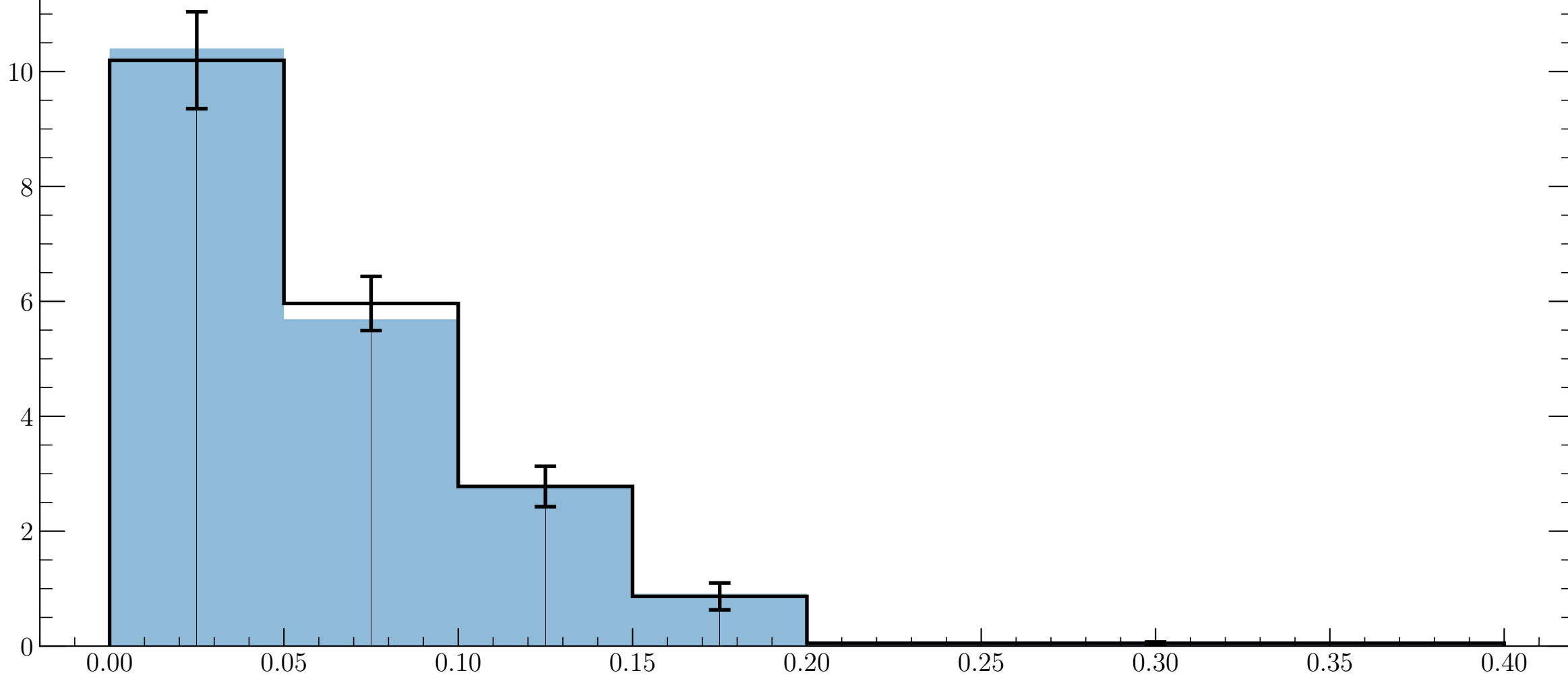
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
Systematic Uncertainty



Subleading track jet  $\tau_3$



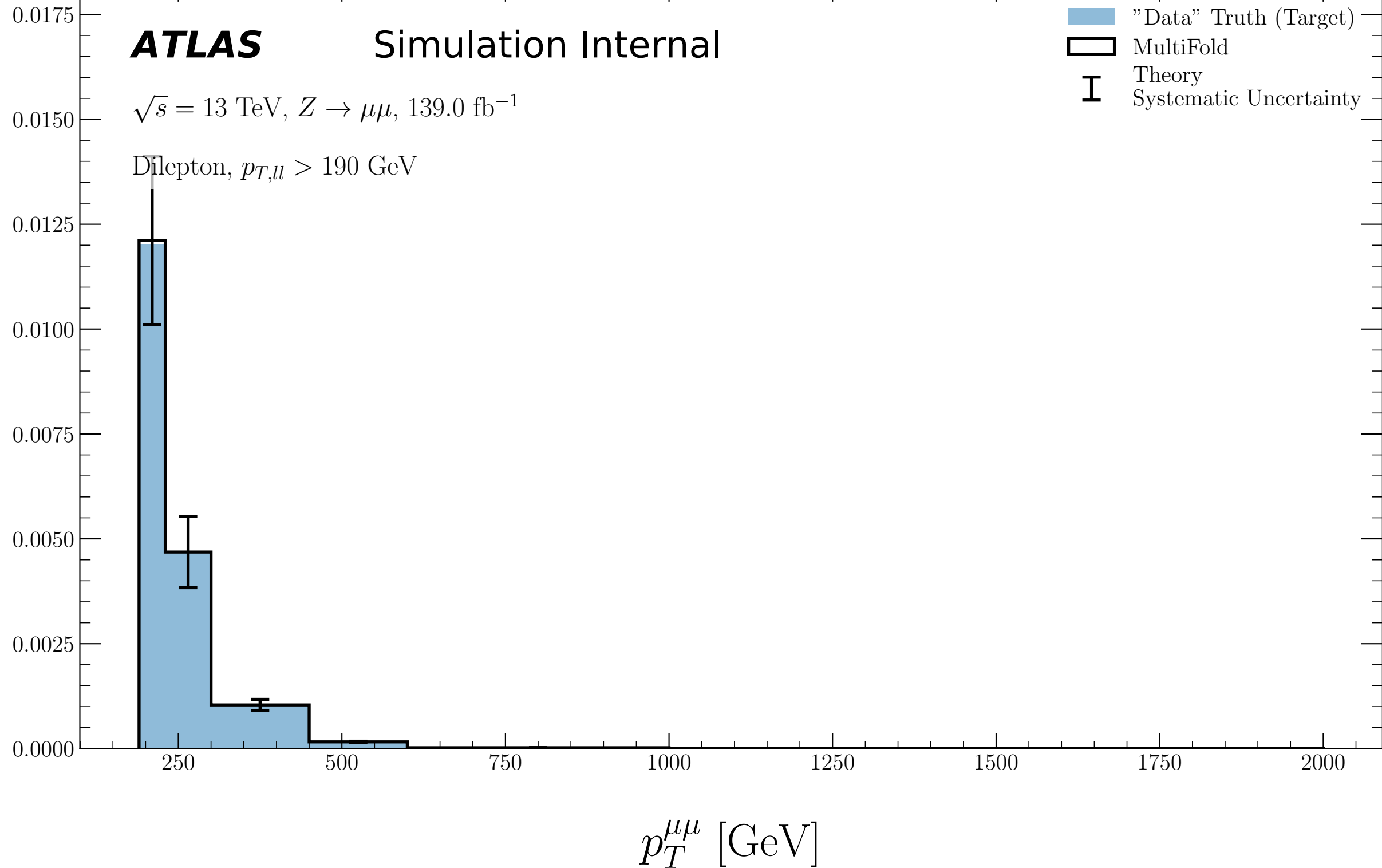
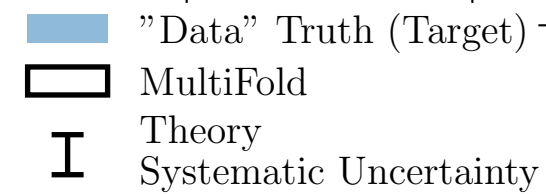
Events per bin (normalized)

**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell\ell} > 190 \text{ GeV}$



Events per bin (normalized)

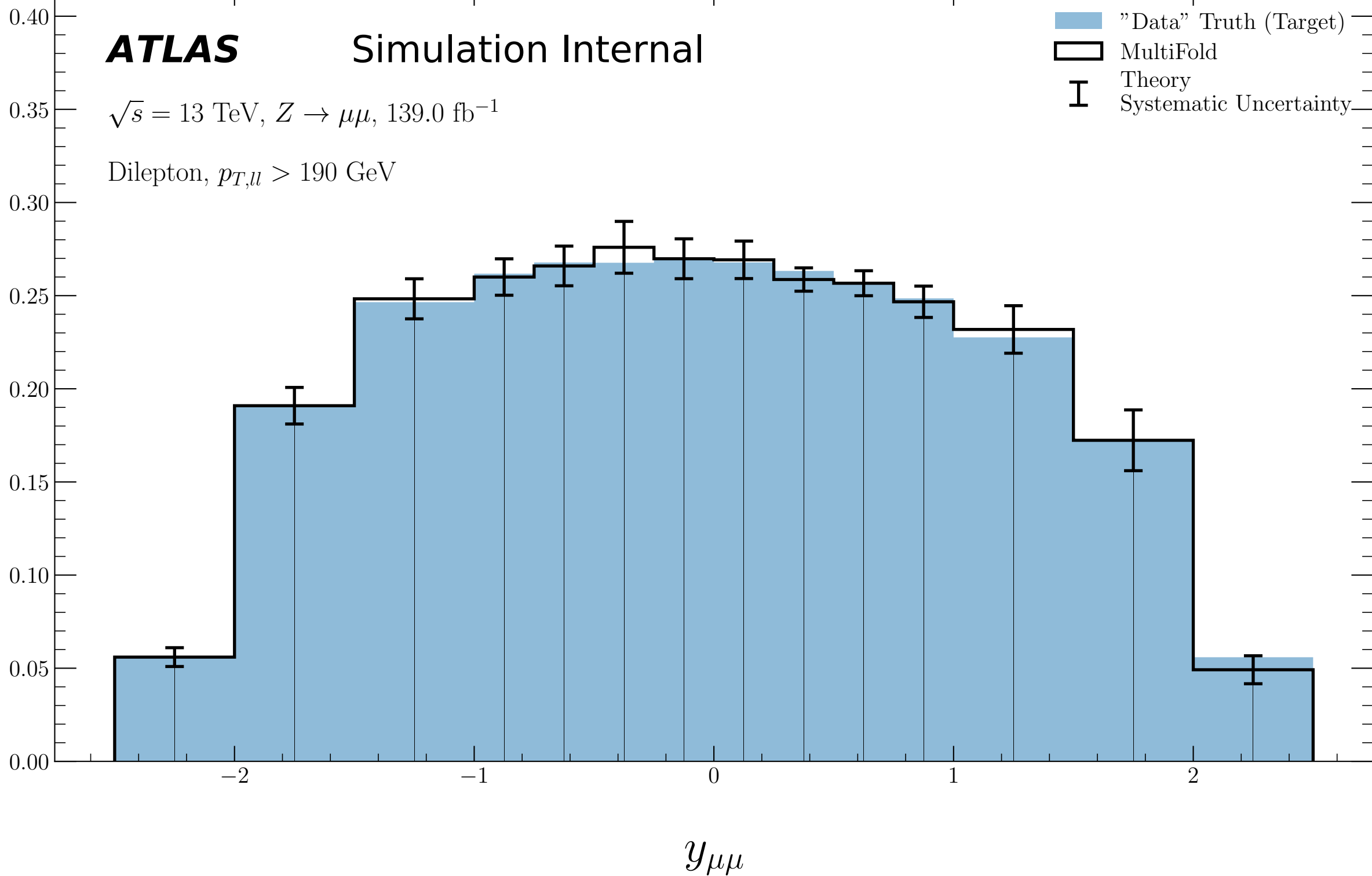
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
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I Theory  
I Systematic Uncertainty



Events per bin (normalized)

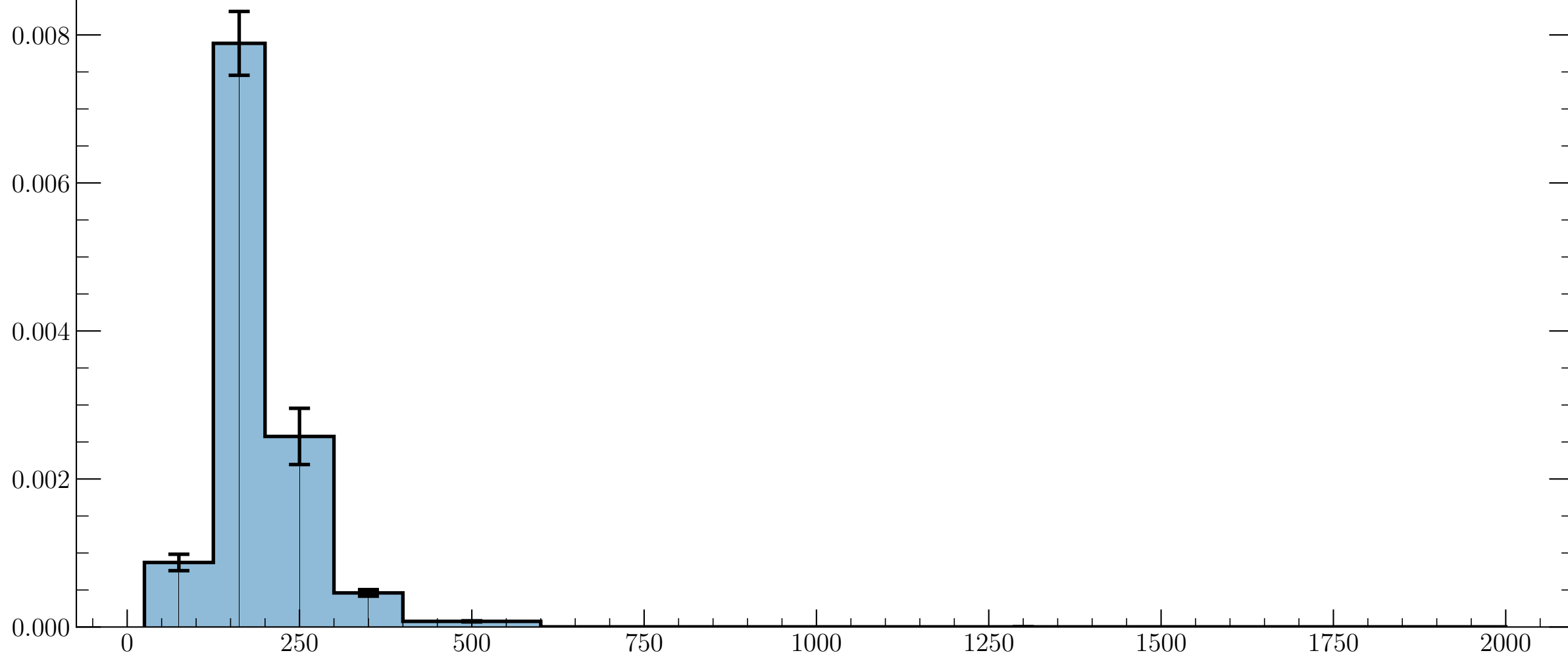
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
□ MultiFold  
I Theory  
Systematic Uncertainty



$p_T^{\mu 1}$  [GeV]

Events per bin (normalized)

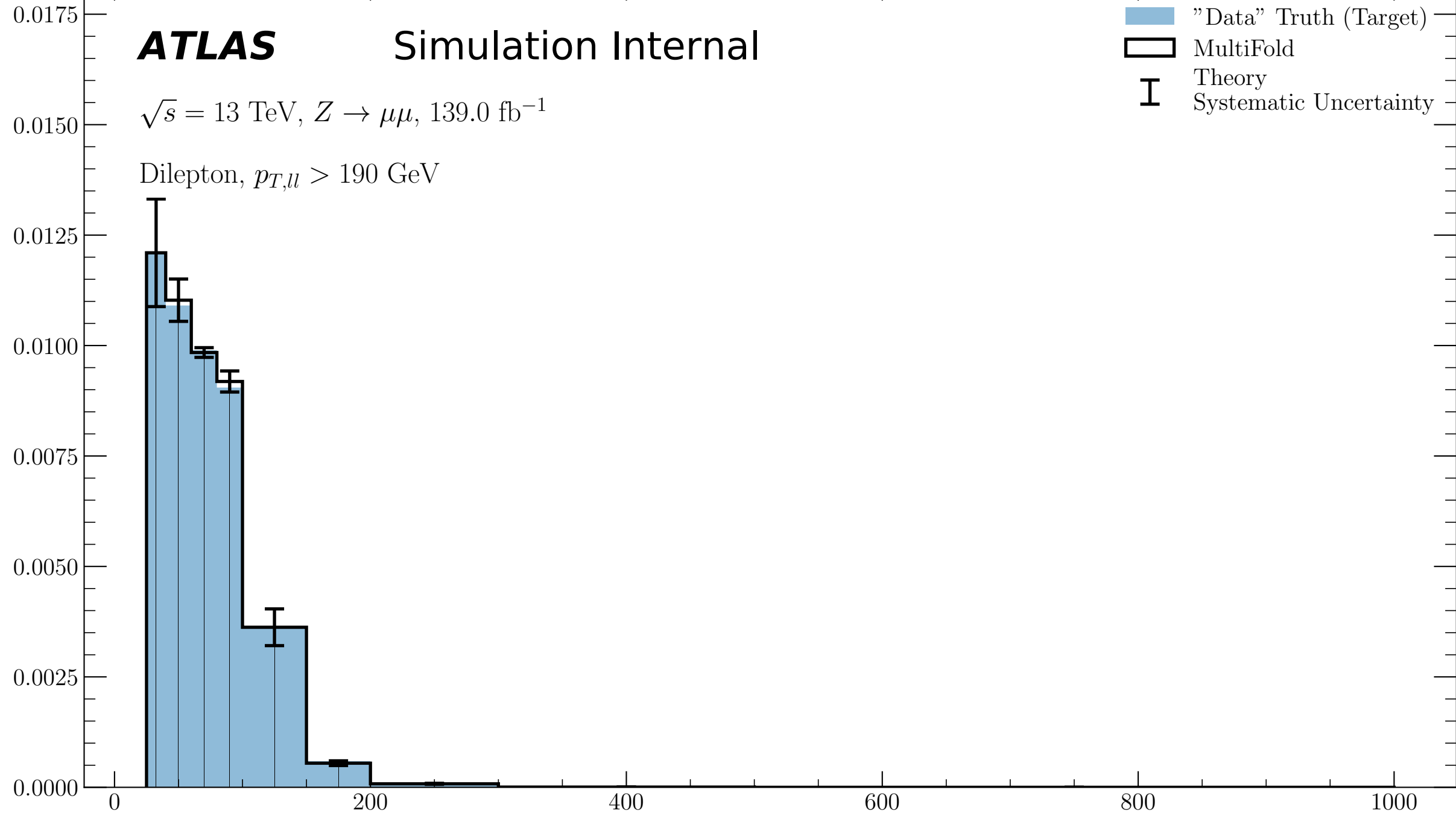
**ATLAS**

Simulation Internal

$\sqrt{s} = 13 \text{ TeV}, Z \rightarrow \mu\mu, 139.0 \text{ fb}^{-1}$

Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
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Systematic Uncertainty



$p_T^{\mu 2}$  [GeV]

Events per bin (normalized)

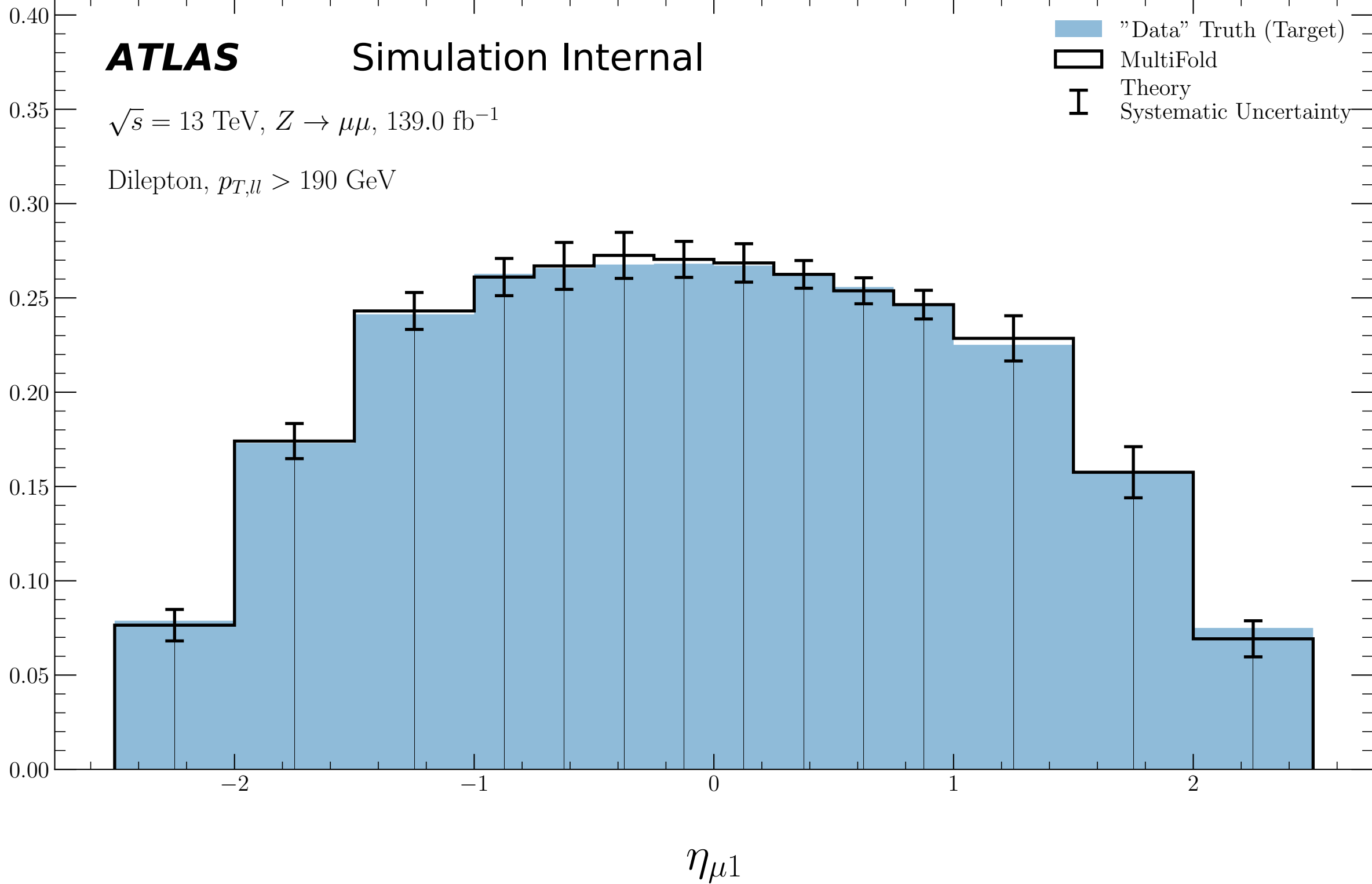
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Simulation Internal

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Dilepton,  $p_{T,\ell} > 190 \text{ GeV}$

■ "Data" Truth (Target)  
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I Theory  
Systematic Uncertainty



Events per bin (normalized)

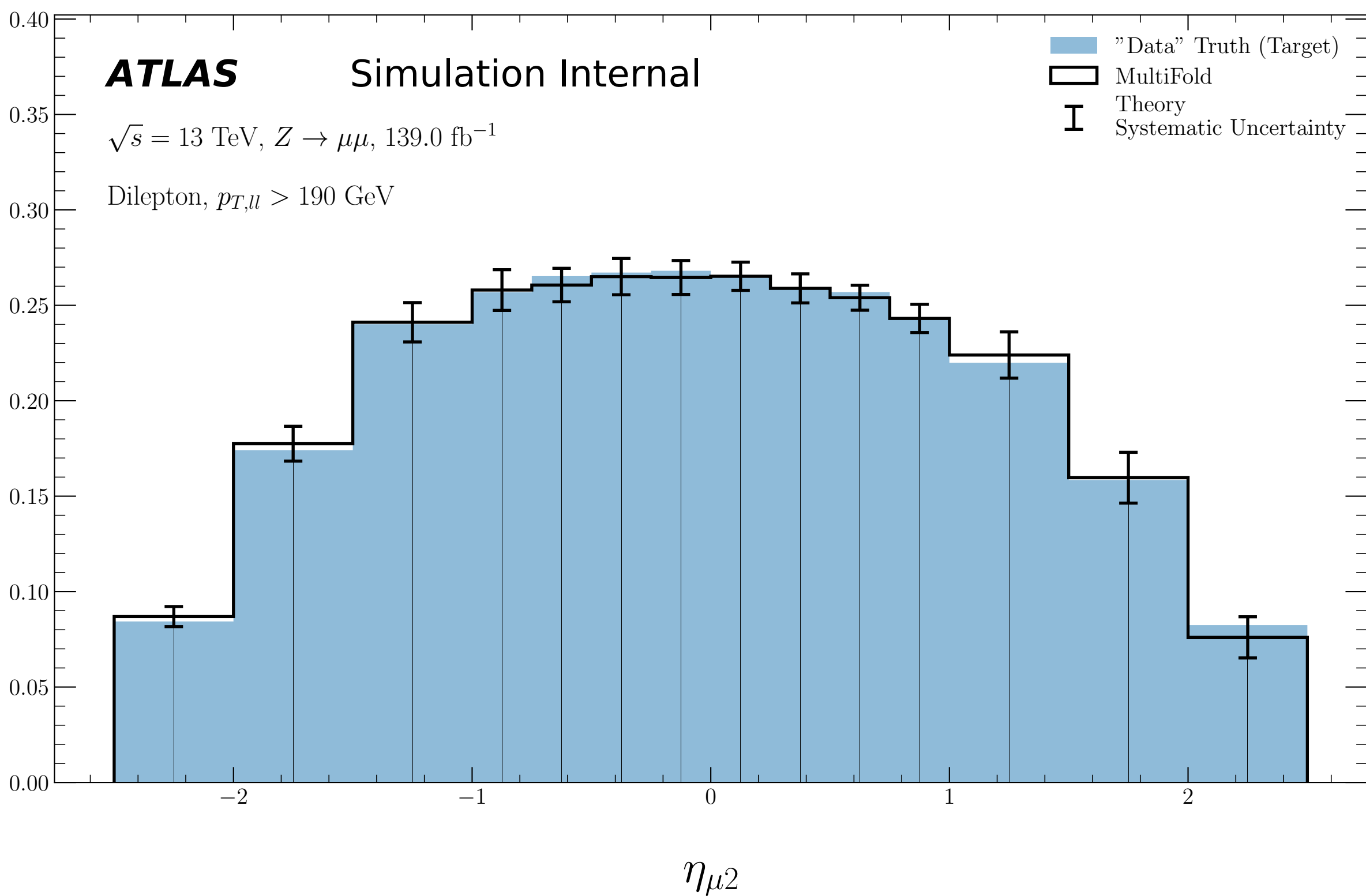
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Events per bin (normalized)

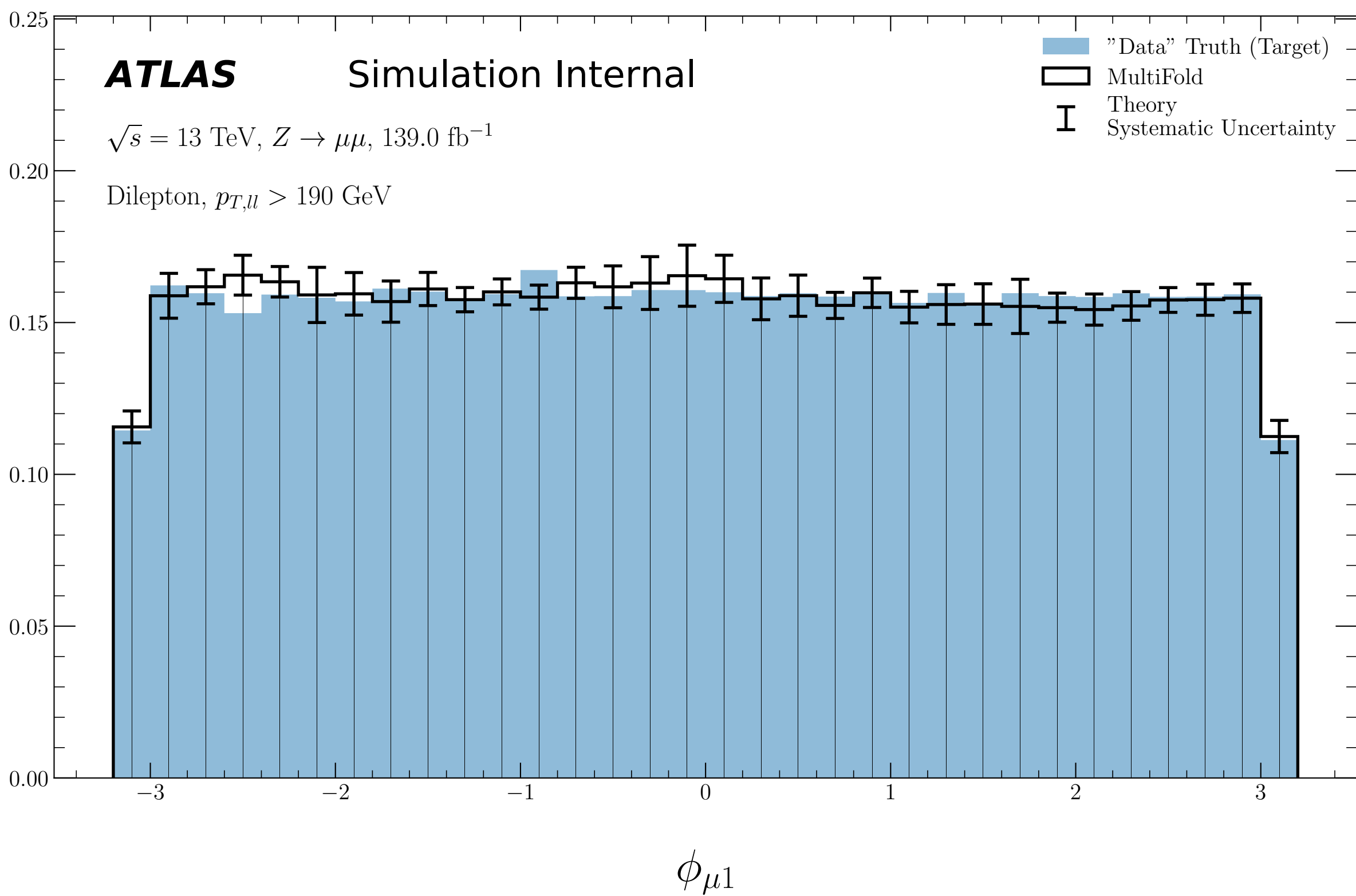
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