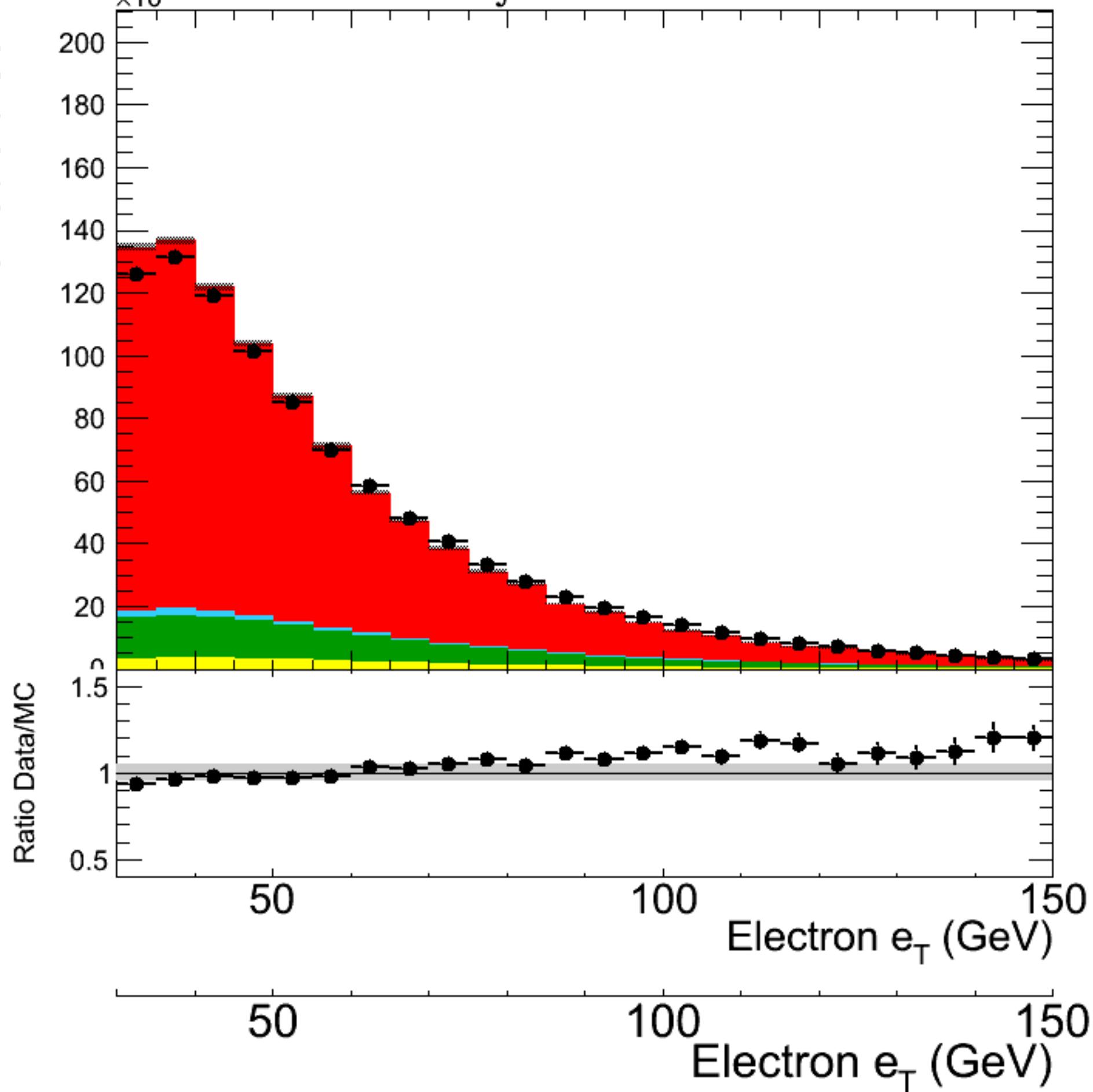


CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events / 5.0 GeV

 $\times 10^3$ 

CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/0.5

 $\times 10^3$ 

Ratio Data/MC

-2

0

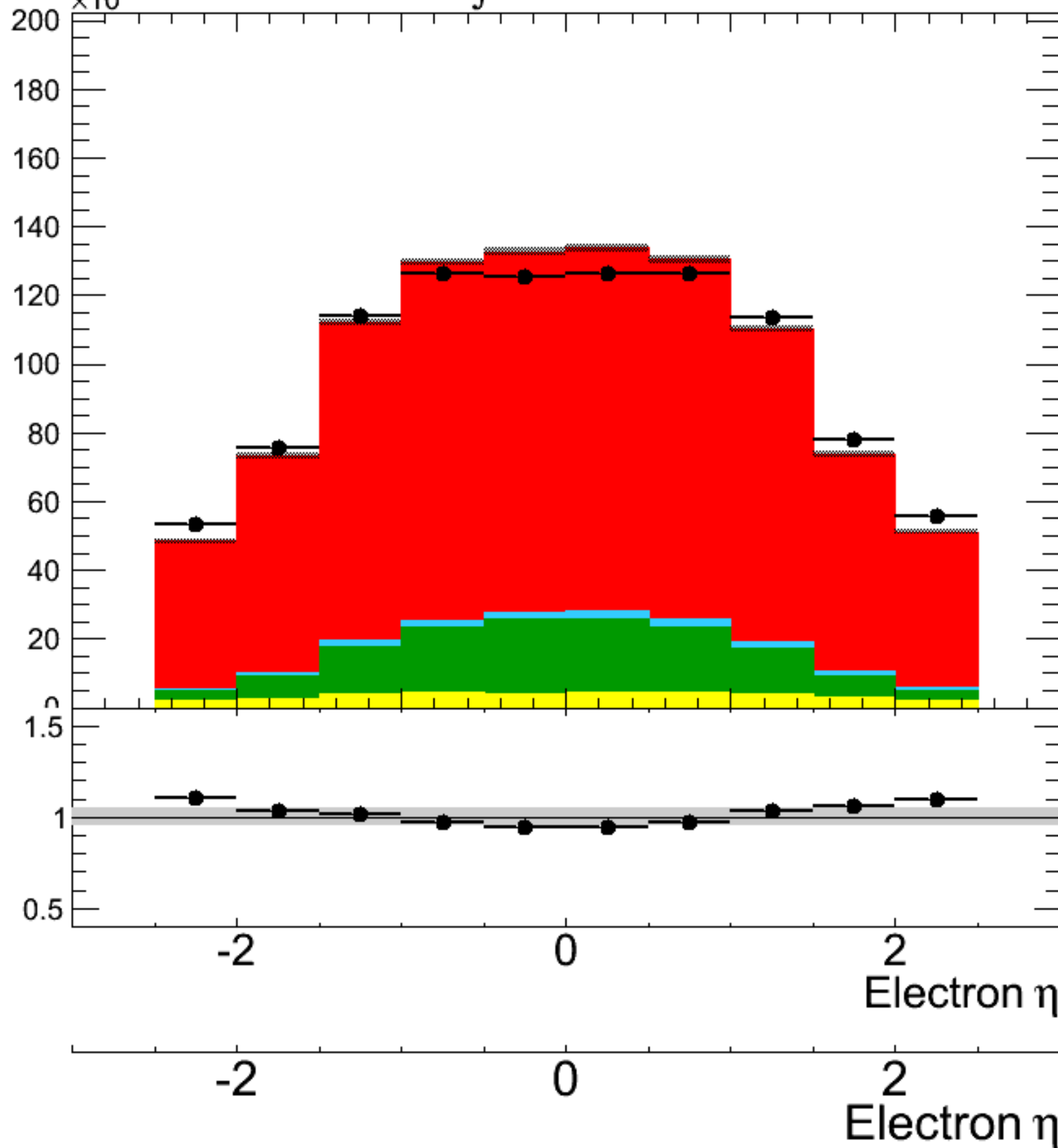
2

Electron  $\eta$ 

-2

0

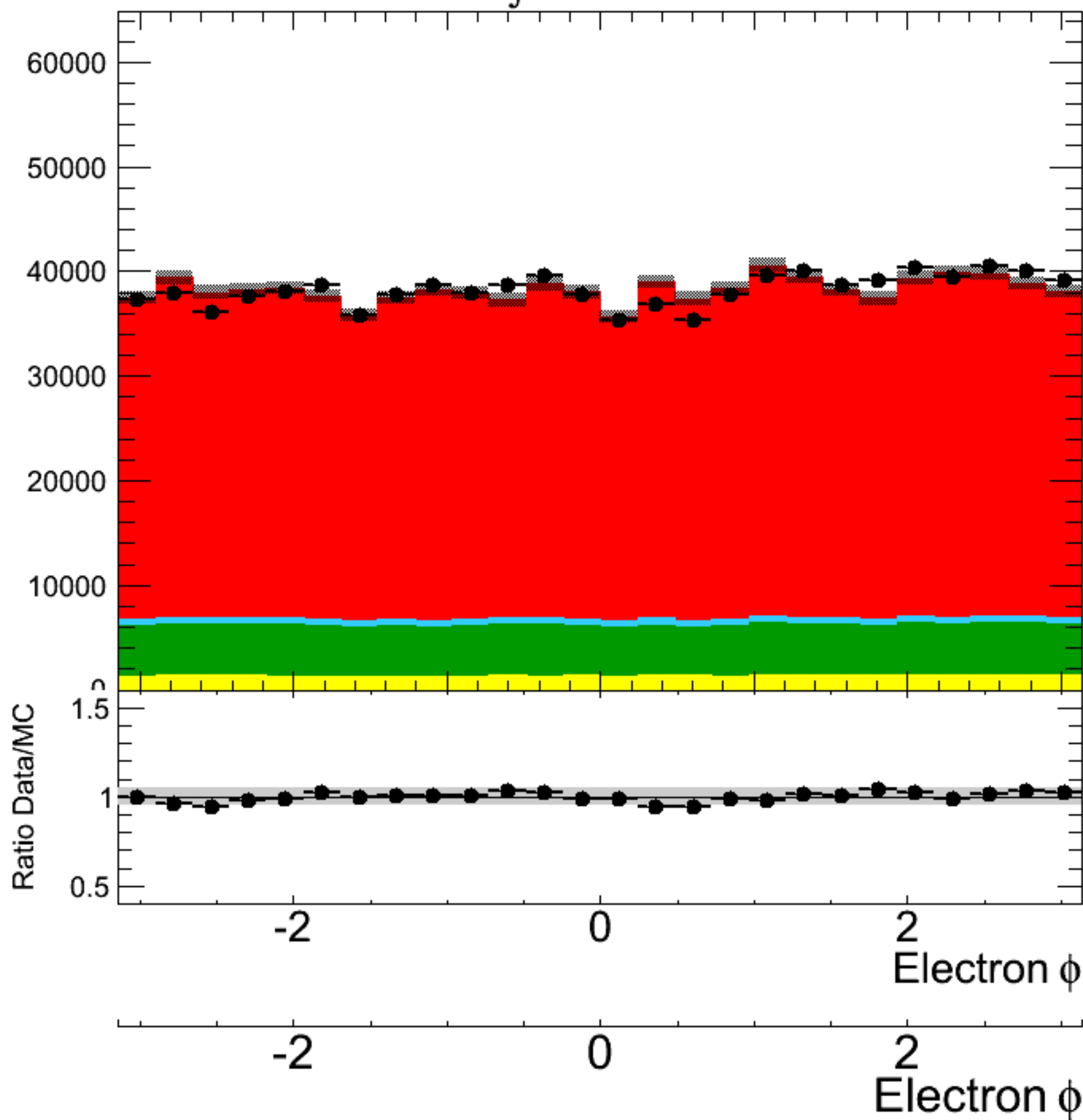
2

Electron  $\eta$ 

CMS preliminary

 $\int L \, dt = 19.2 \, \text{fb}^{-1}$  $\sqrt{s} = 8 \, \text{TeV}$ 

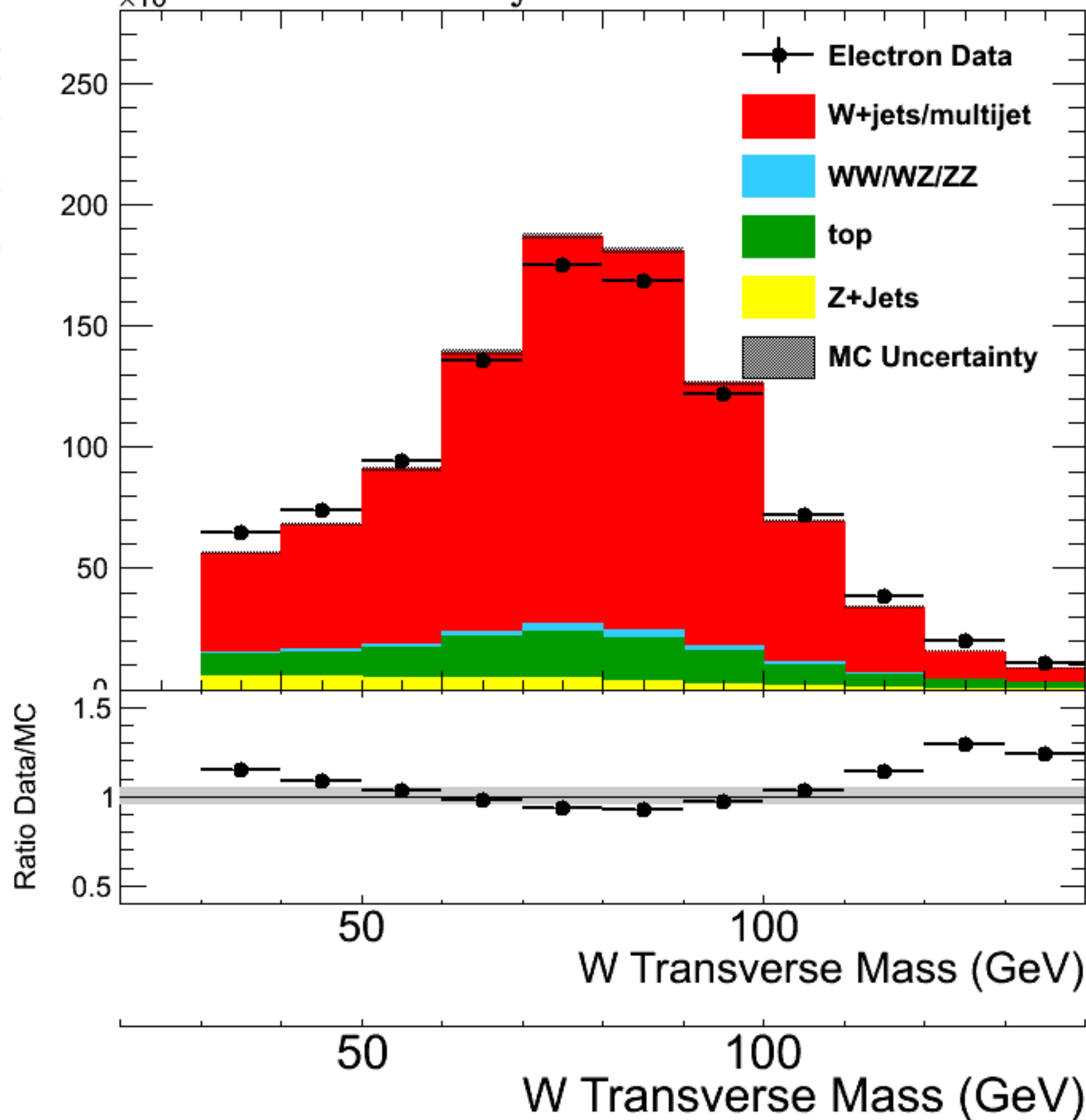
Events/ 0.2



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

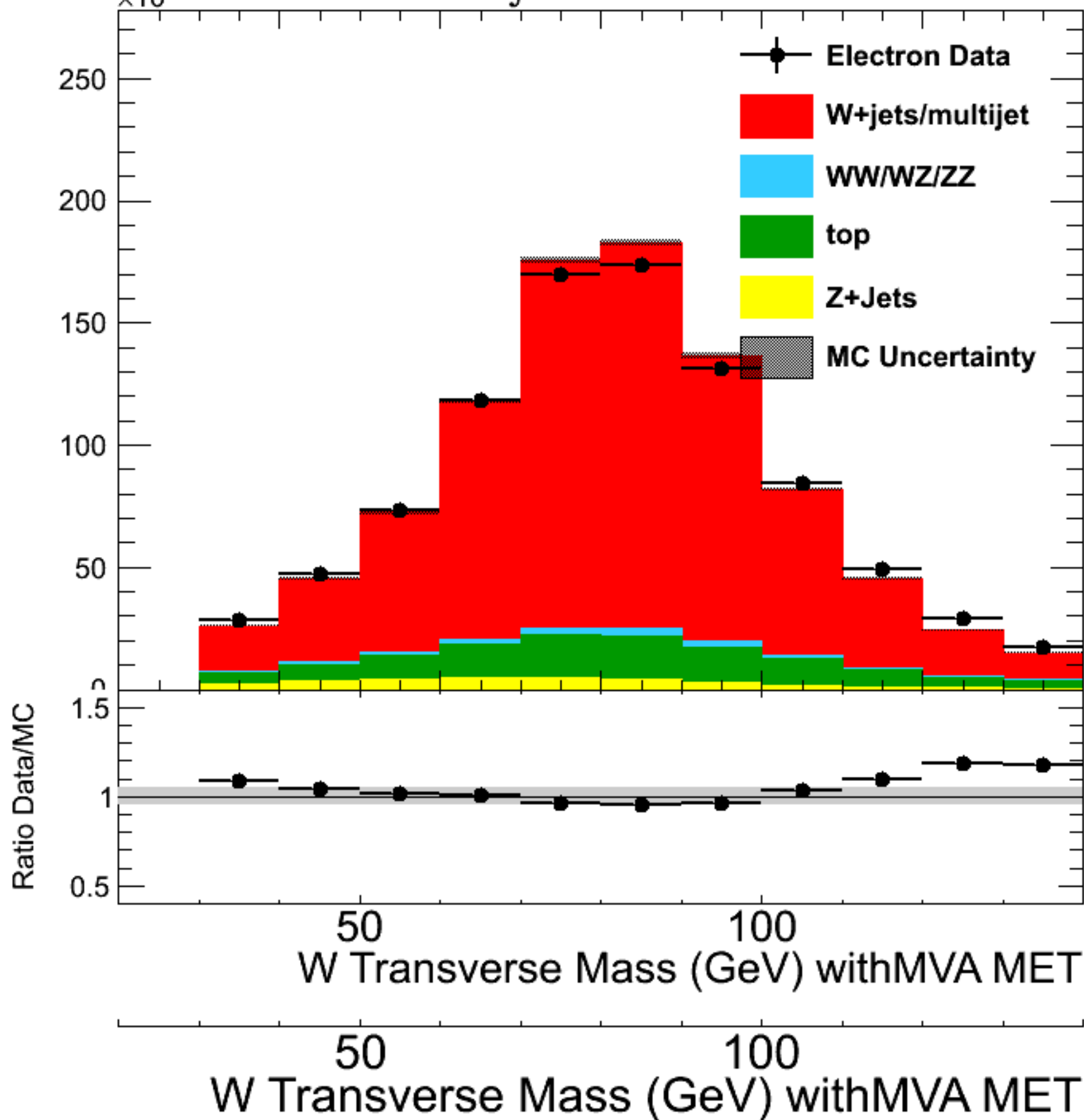
Events/ 10 GeV

 $\times 10^3$ 

CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/ 10 GeV

 $\times 10^3$ 

CMS preliminary

$\int L dt = 19.2 \text{ fb}^{-1}$

$\sqrt{s} = 8 \text{ TeV}$

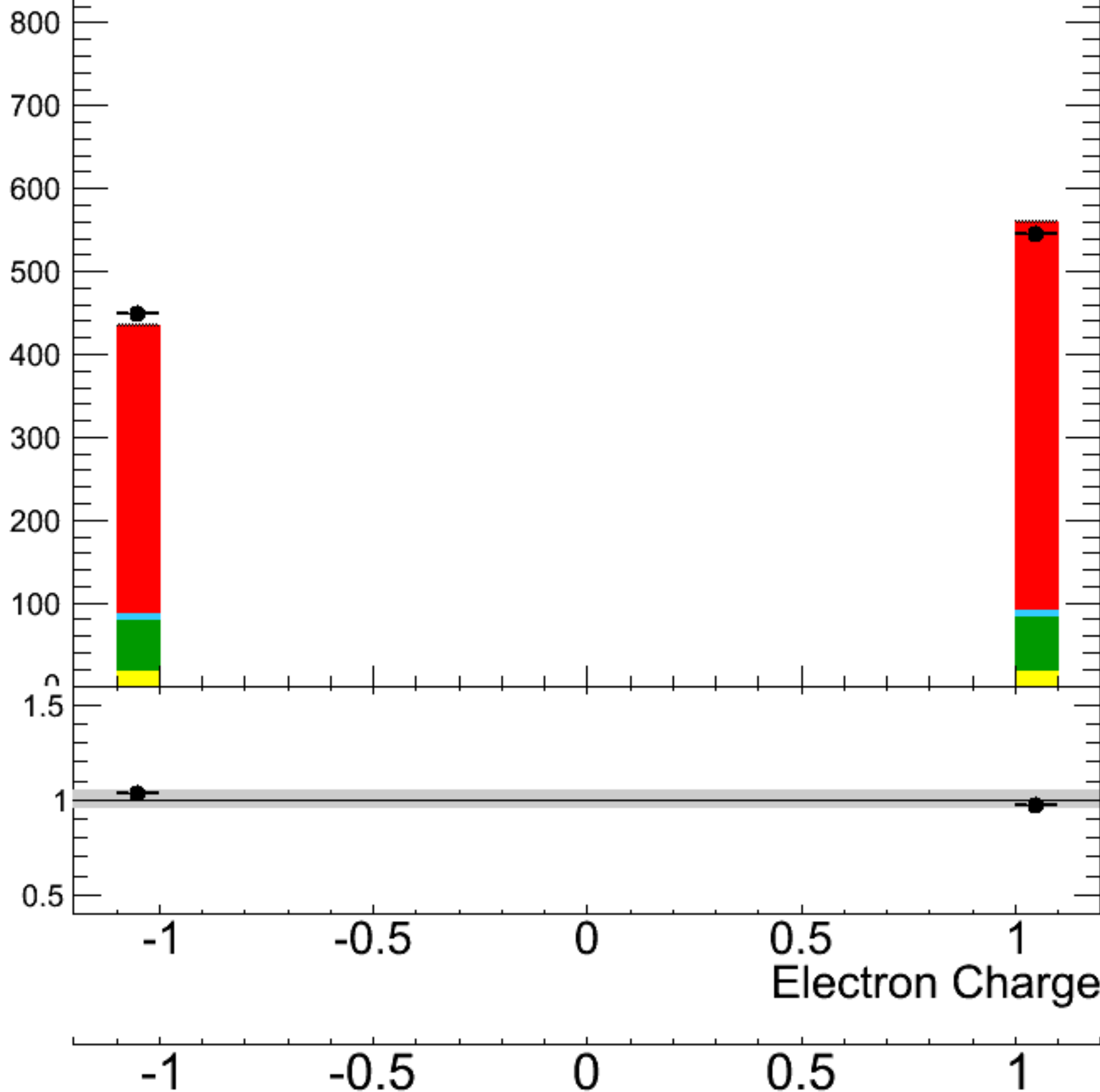
Events/0.1

$\times 10^3$

Ratio Data/MC

Electron Charge

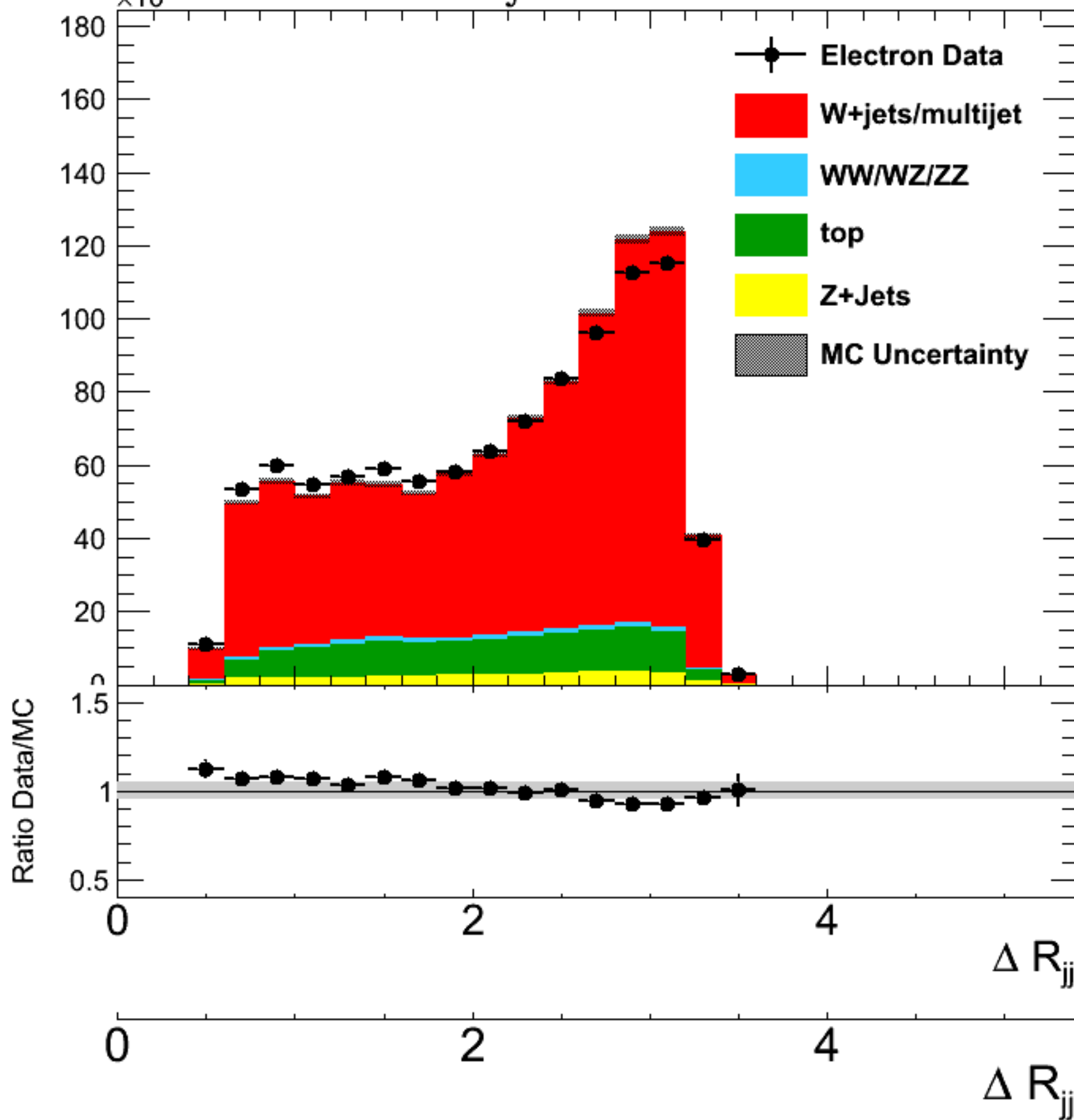
Electron Charge



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/0.2

 $\times 10^3$ 

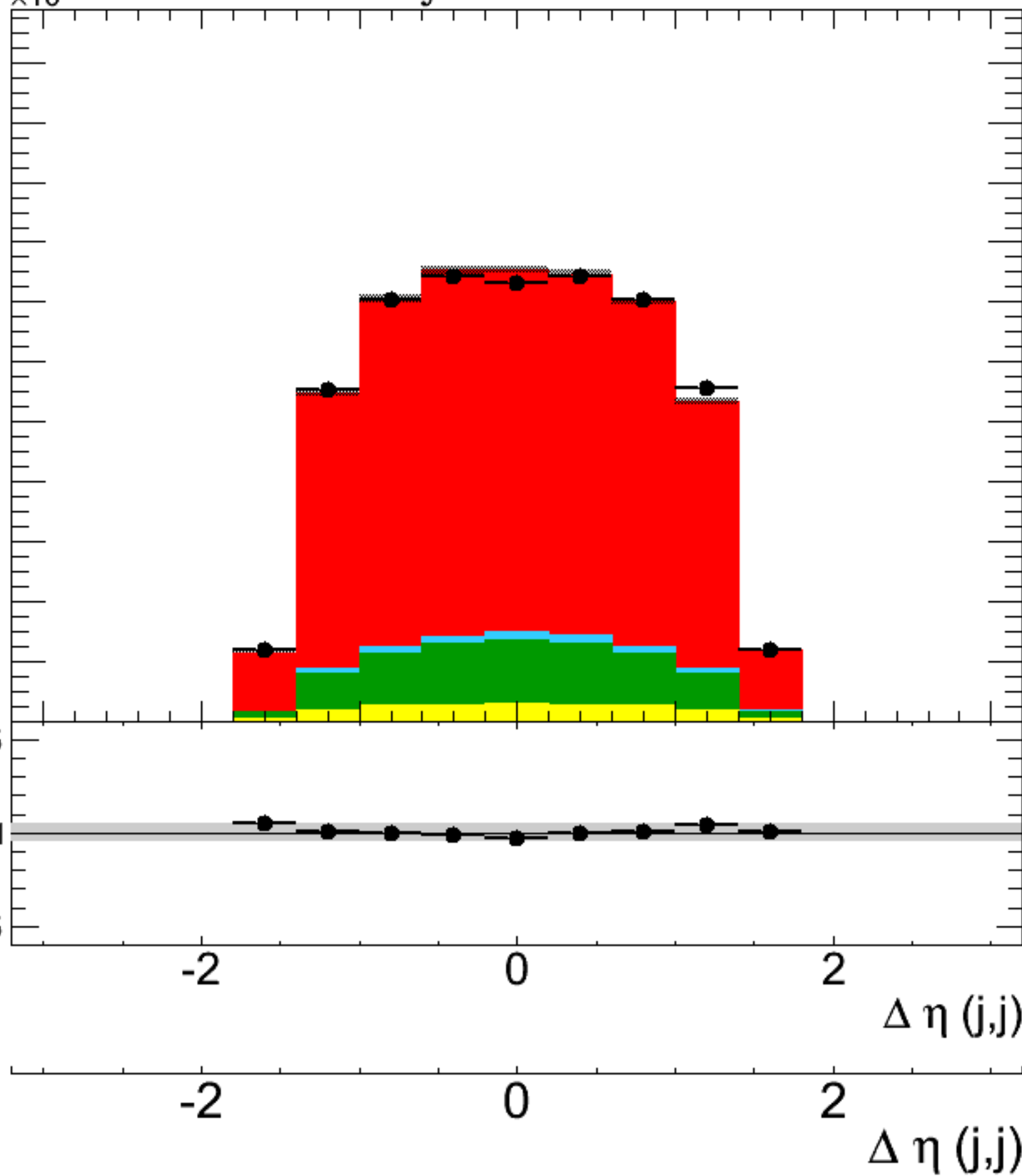
CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/ 0.4

 $\times 10^3$ 

Ratio Data/MC

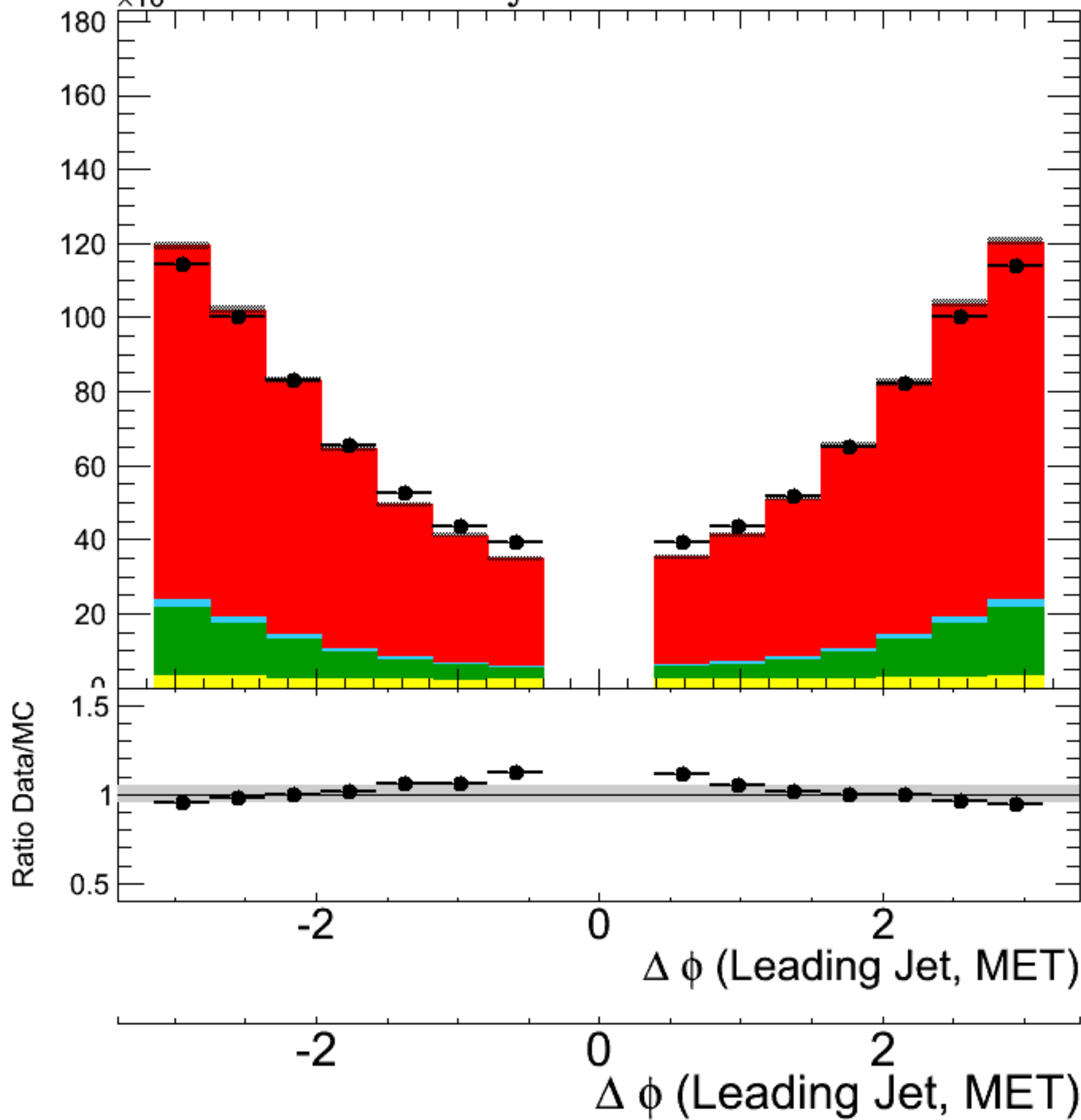




CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

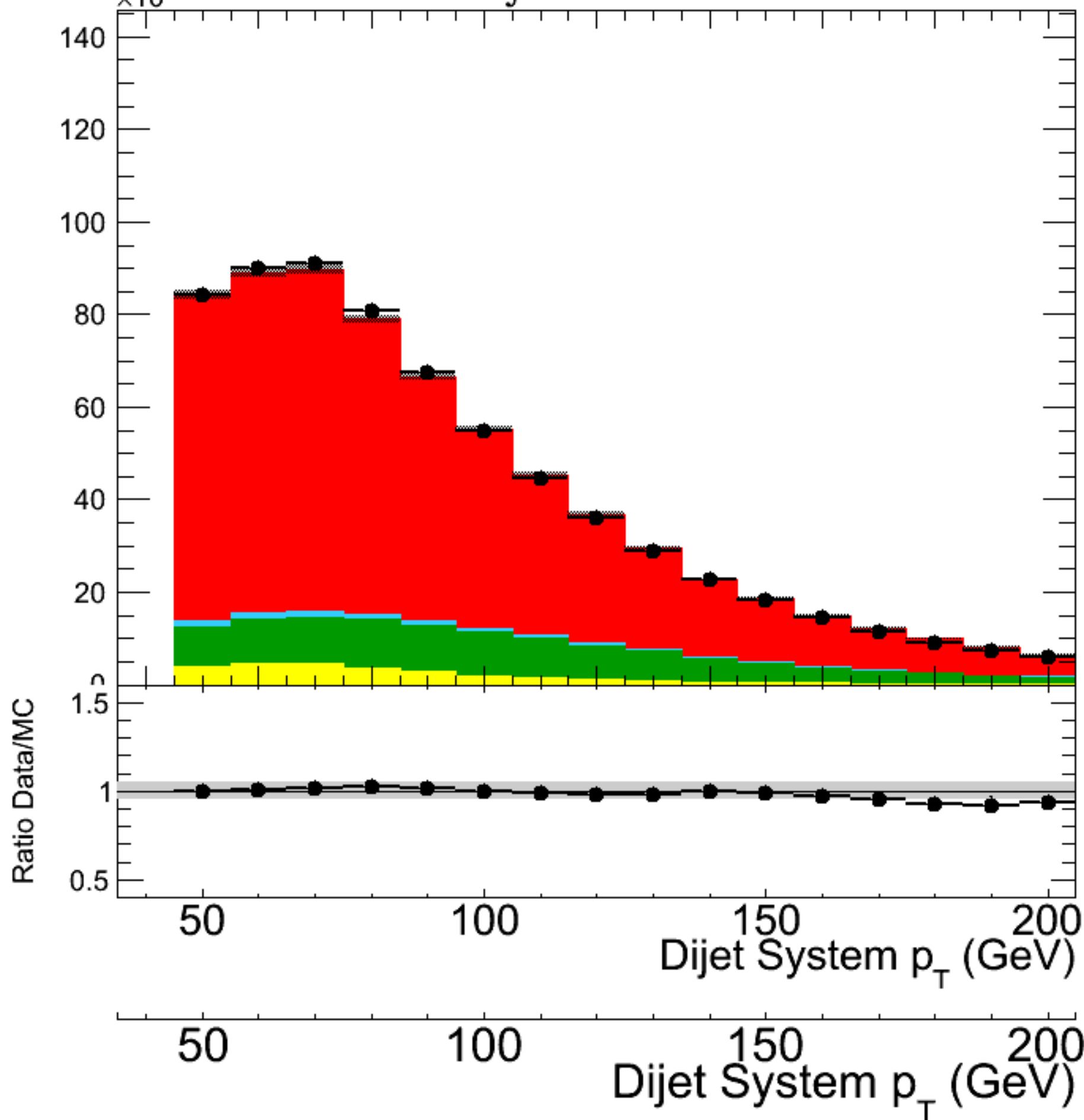
Events/0.4

 $\times 10^3$ 

CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/ 10 GeV

 $\times 10^3$ 

CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$  $\times 10^3$ 

Events/0.2

Ratio Data/MC

-2

0

2

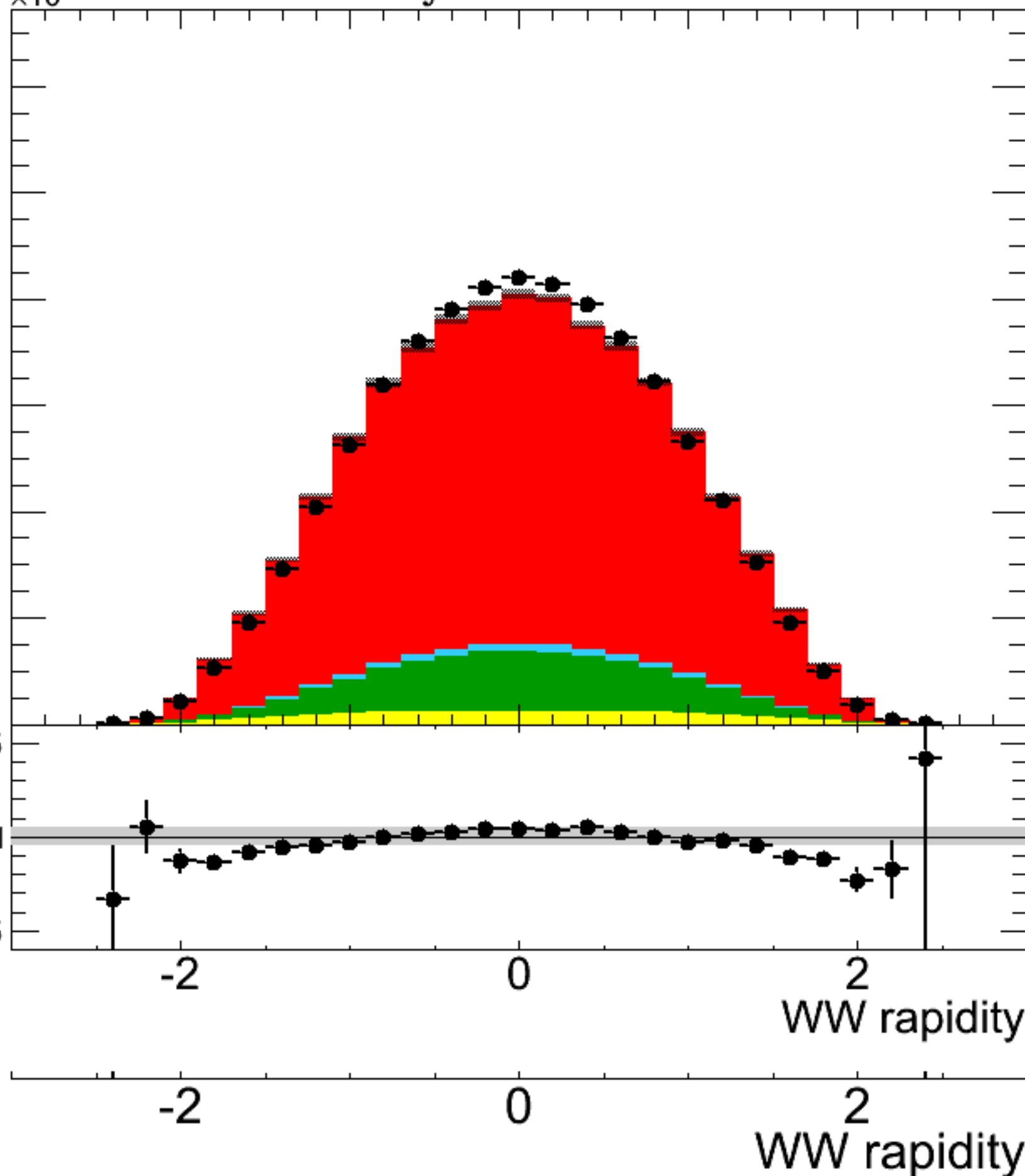
WW rapidity

-2

0

2

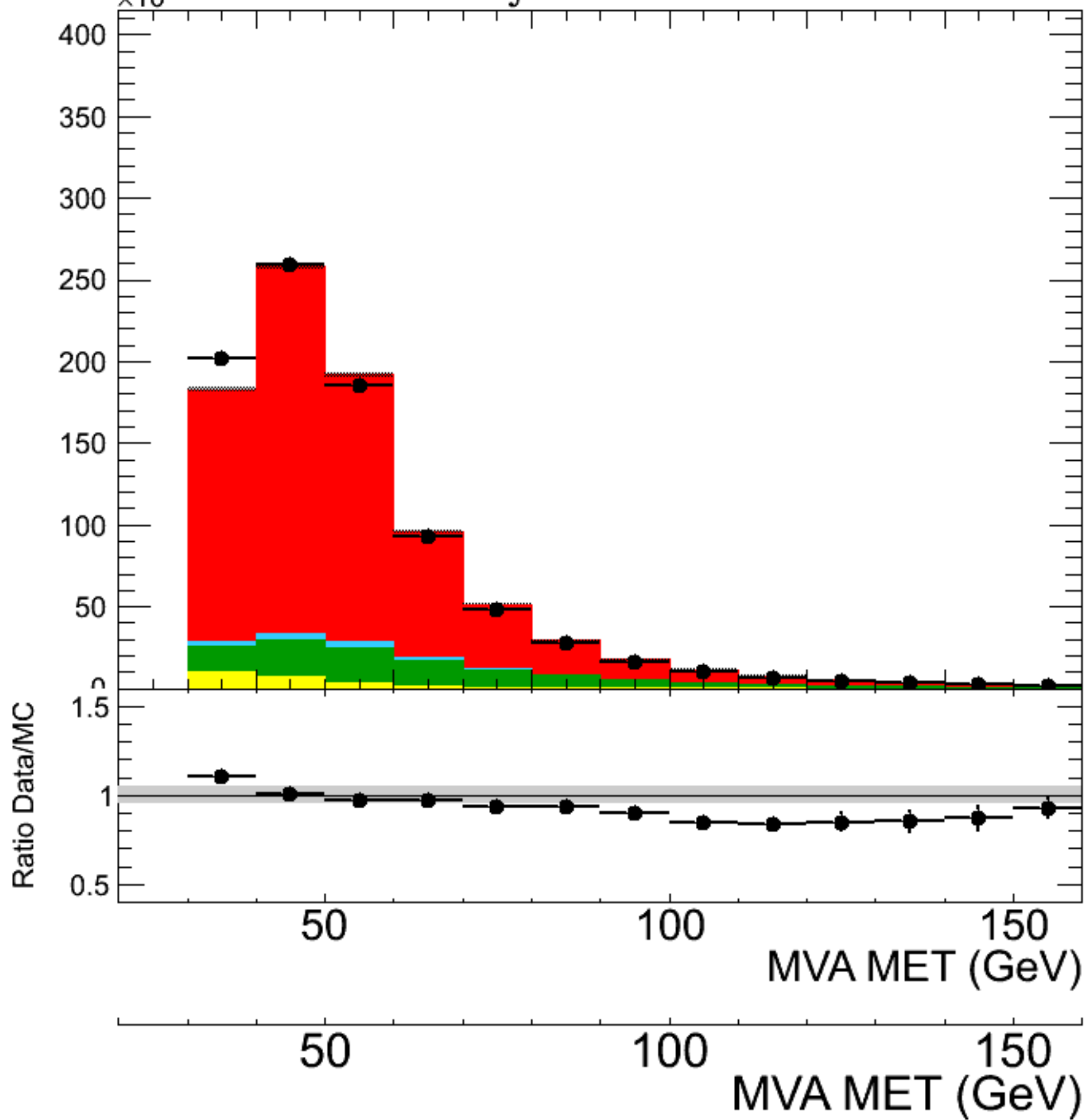
WW rapidity



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

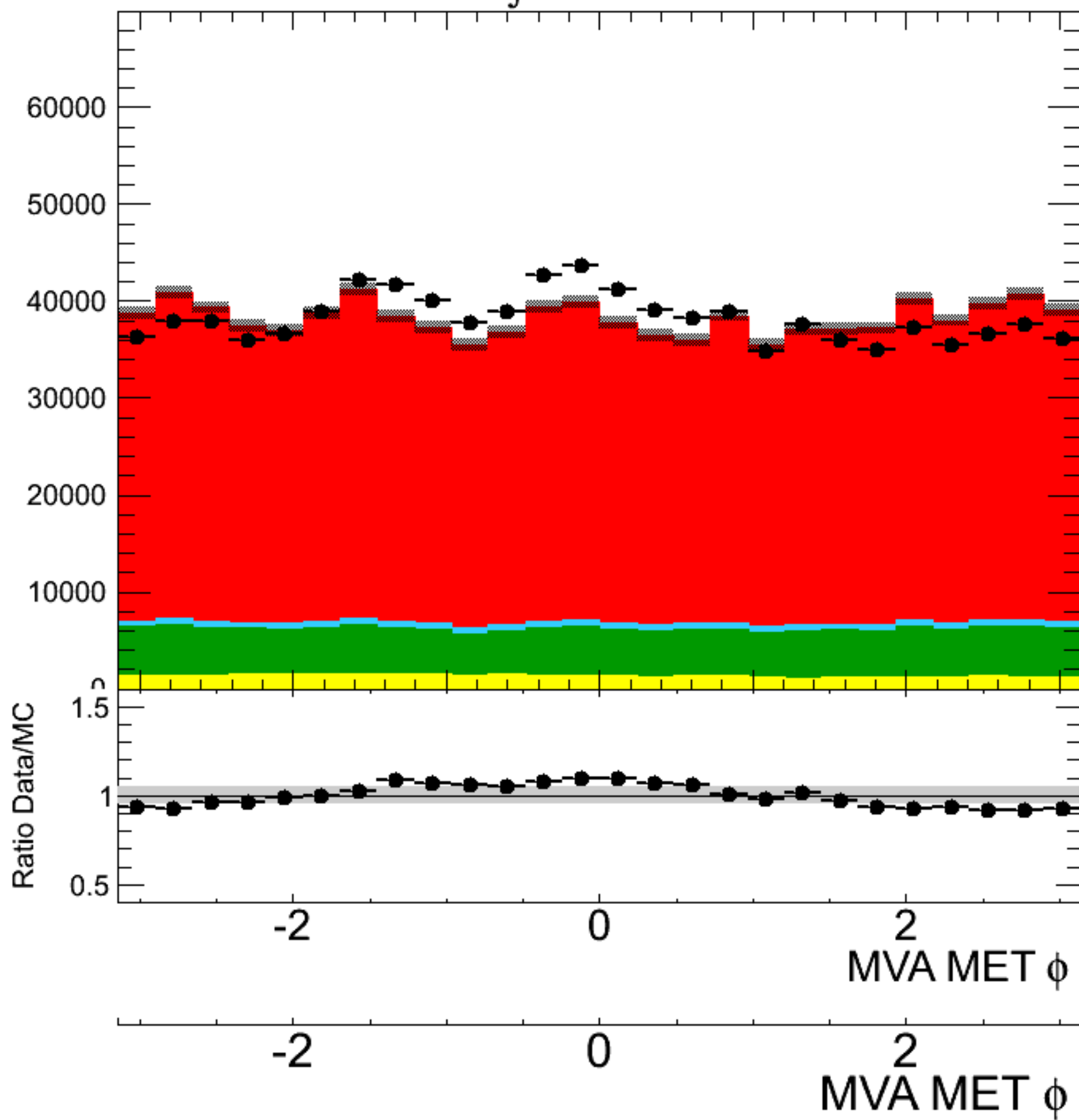
Events/ 10 GeV

 $\times 10^3$ 

CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

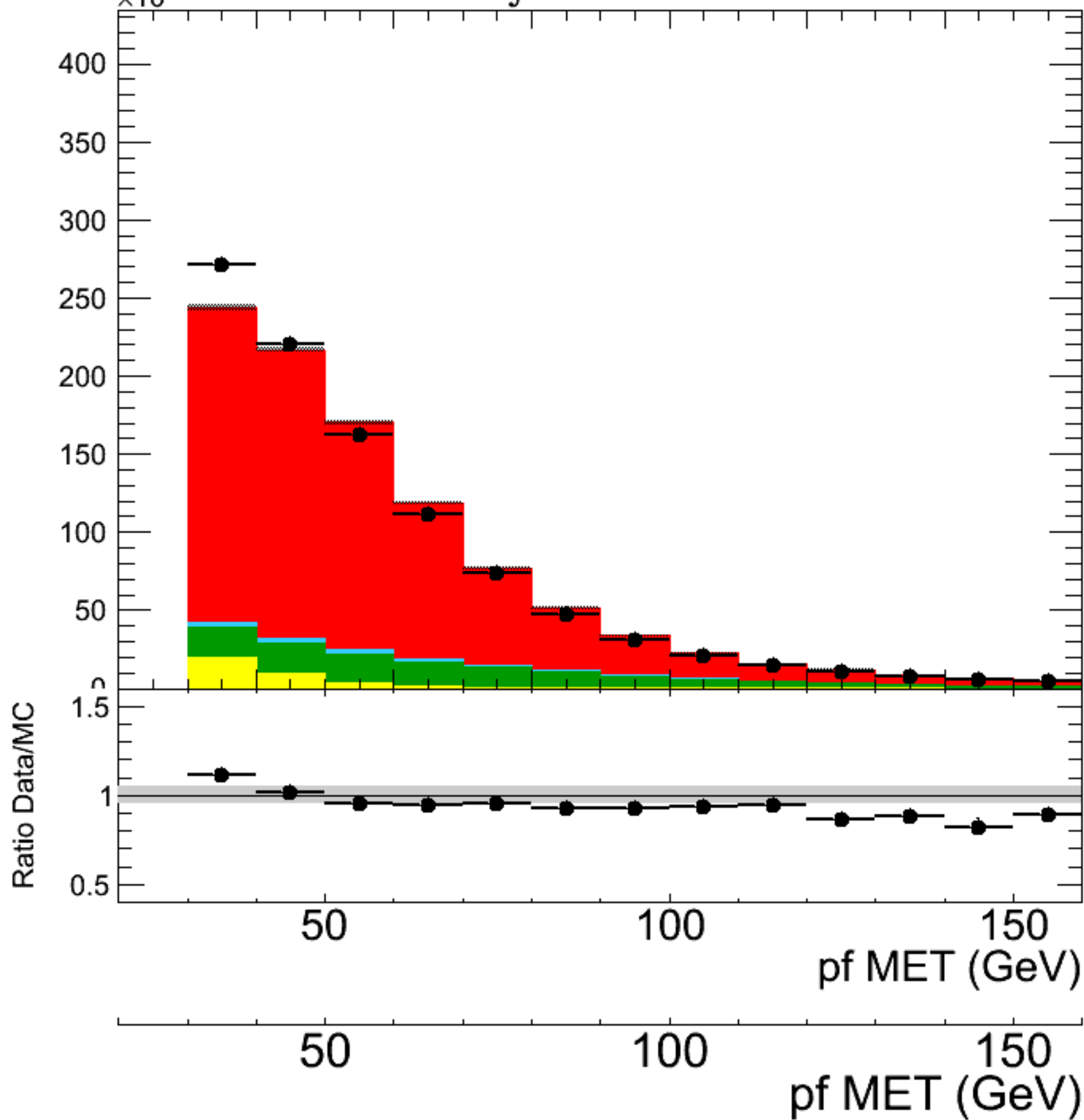
Events/0 GeV



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

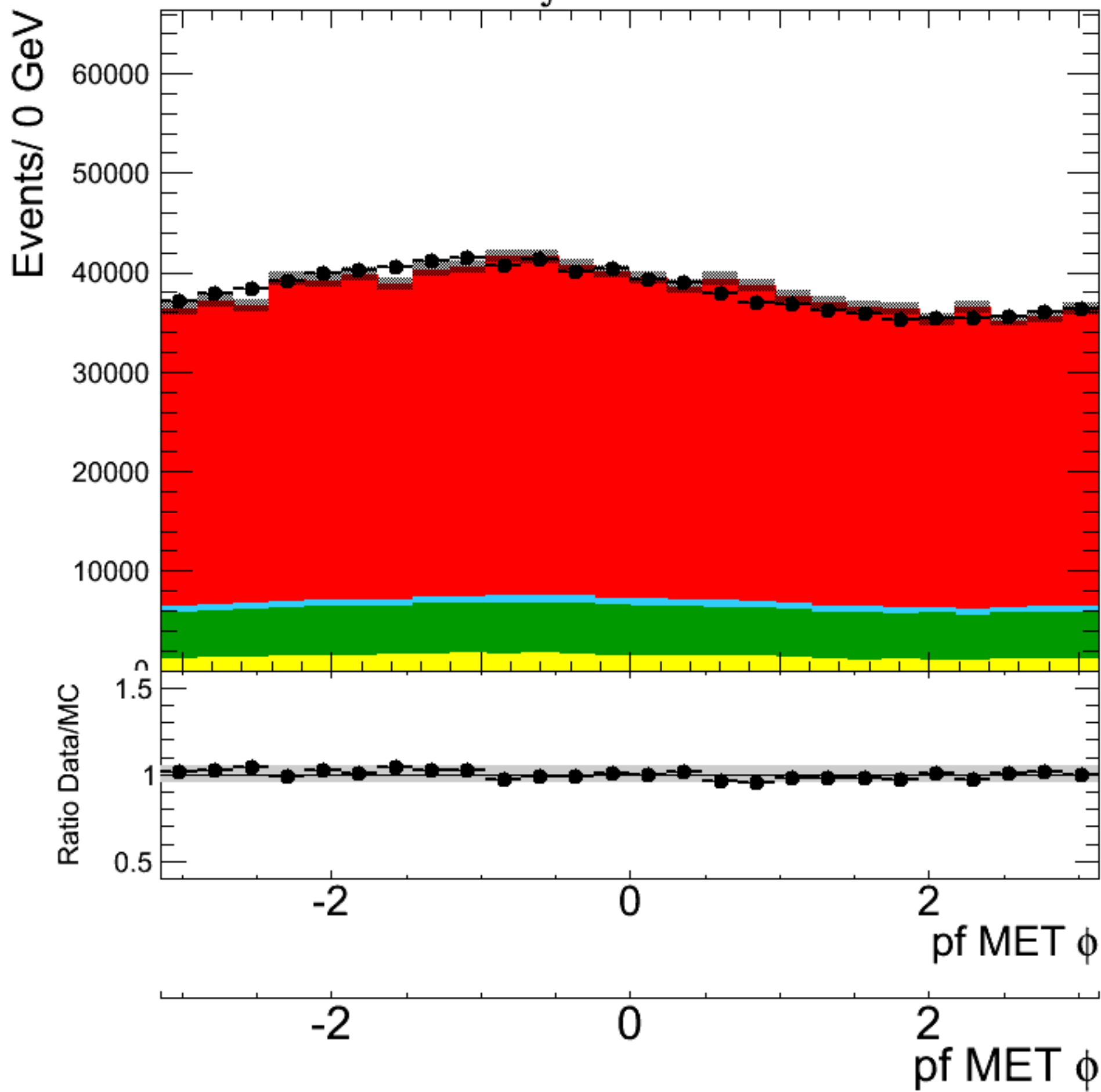
Events/ 10 GeV

 $\times 10^3$ 

CMS preliminary

$\int L dt = 19.2 \text{ fb}^{-1}$

$\sqrt{s} = 8 \text{ TeV}$



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

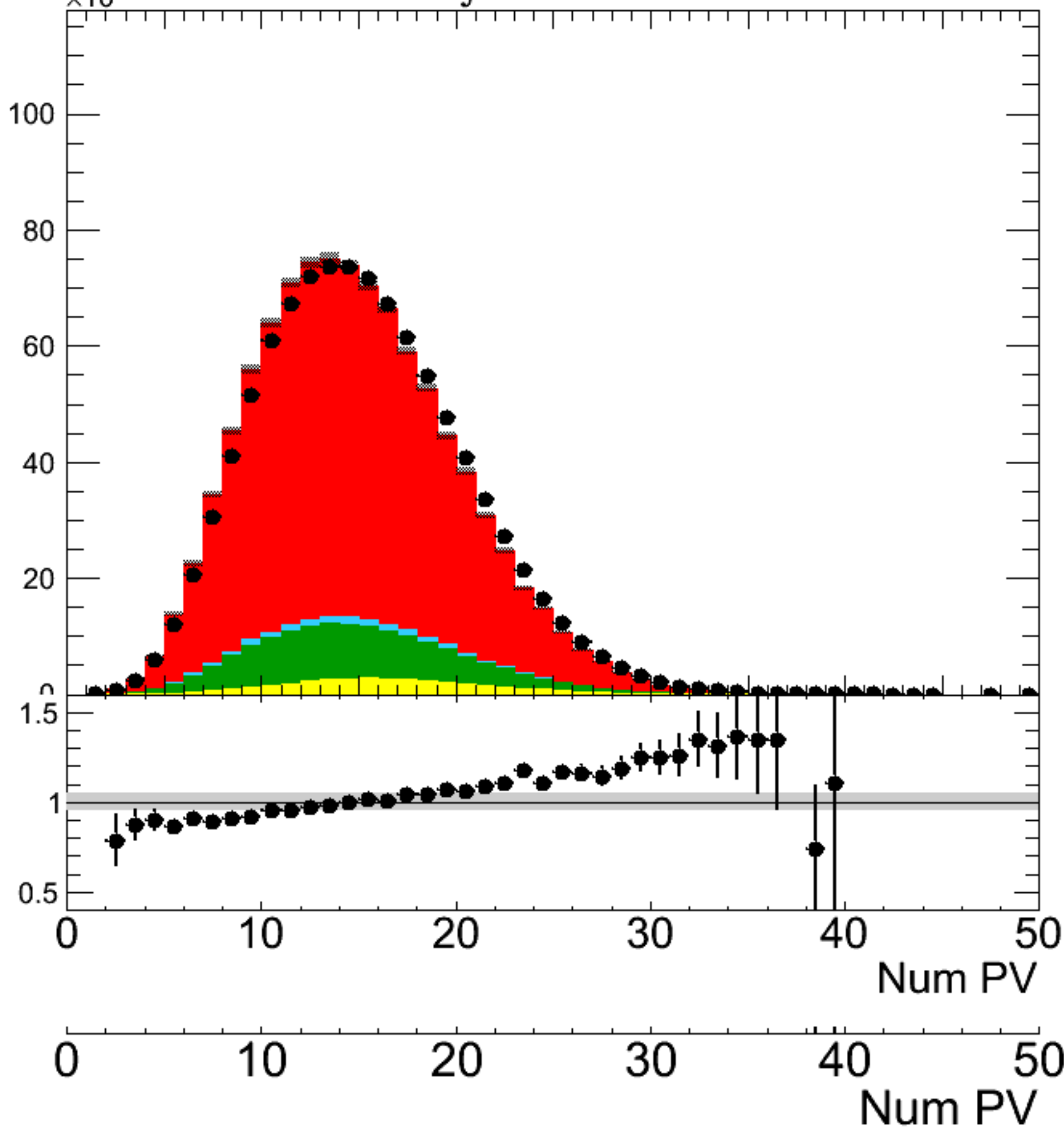
Events/ 1.0

 $\times 10^3$ 

Ratio Data/MC

Num PV

Num PV

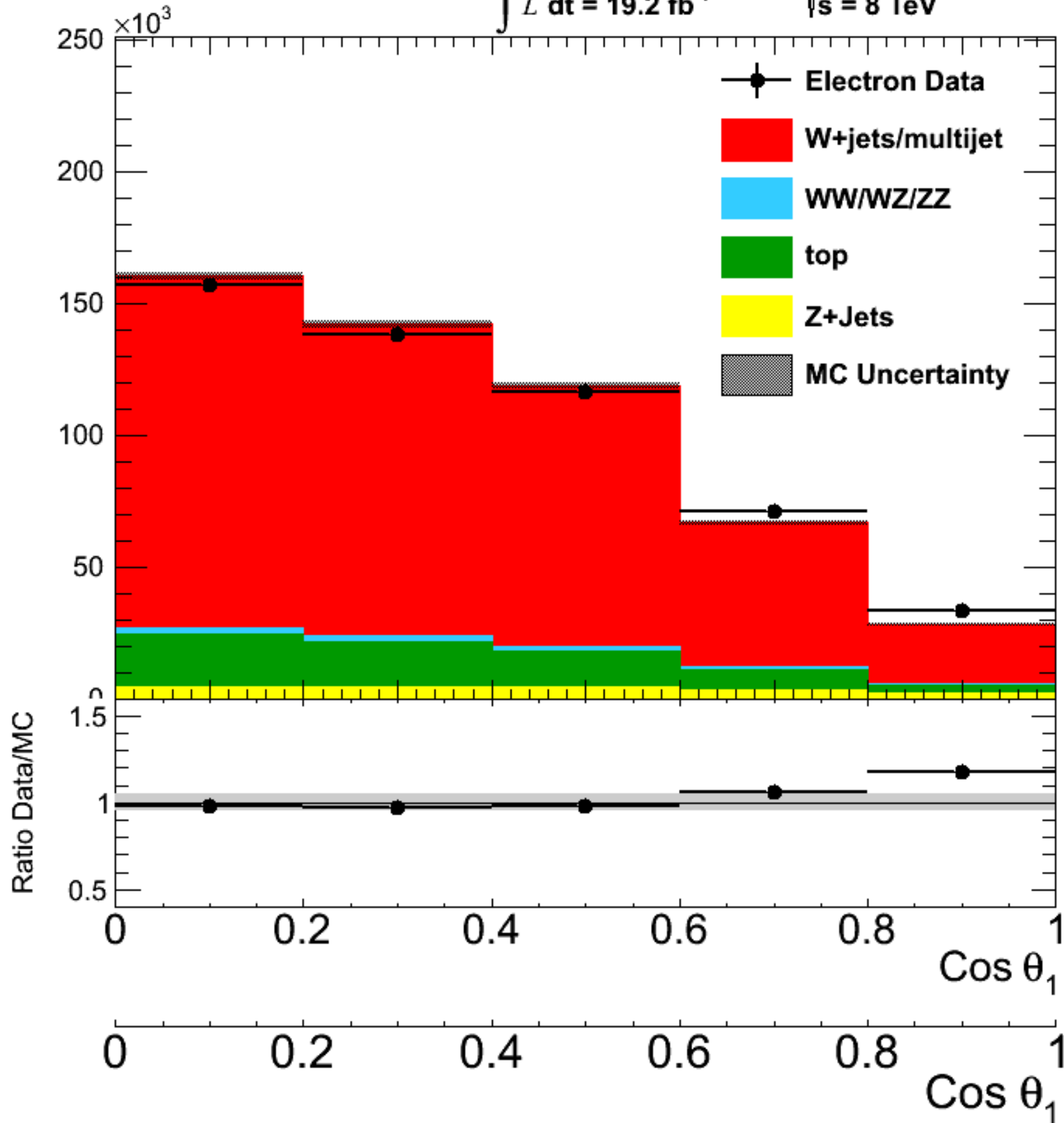




CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/0.2



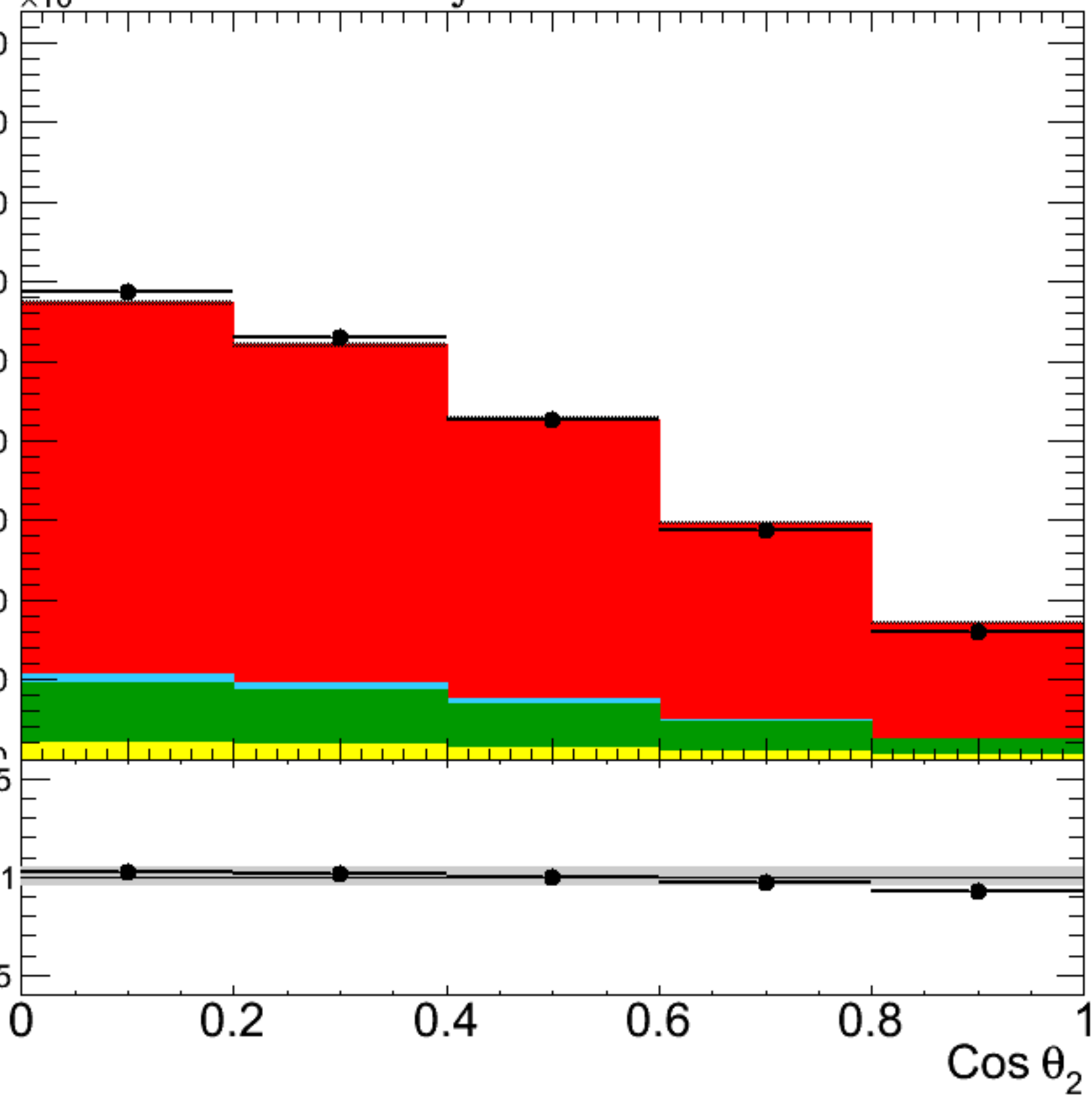
CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/0.2

 $\times 10^3$ 

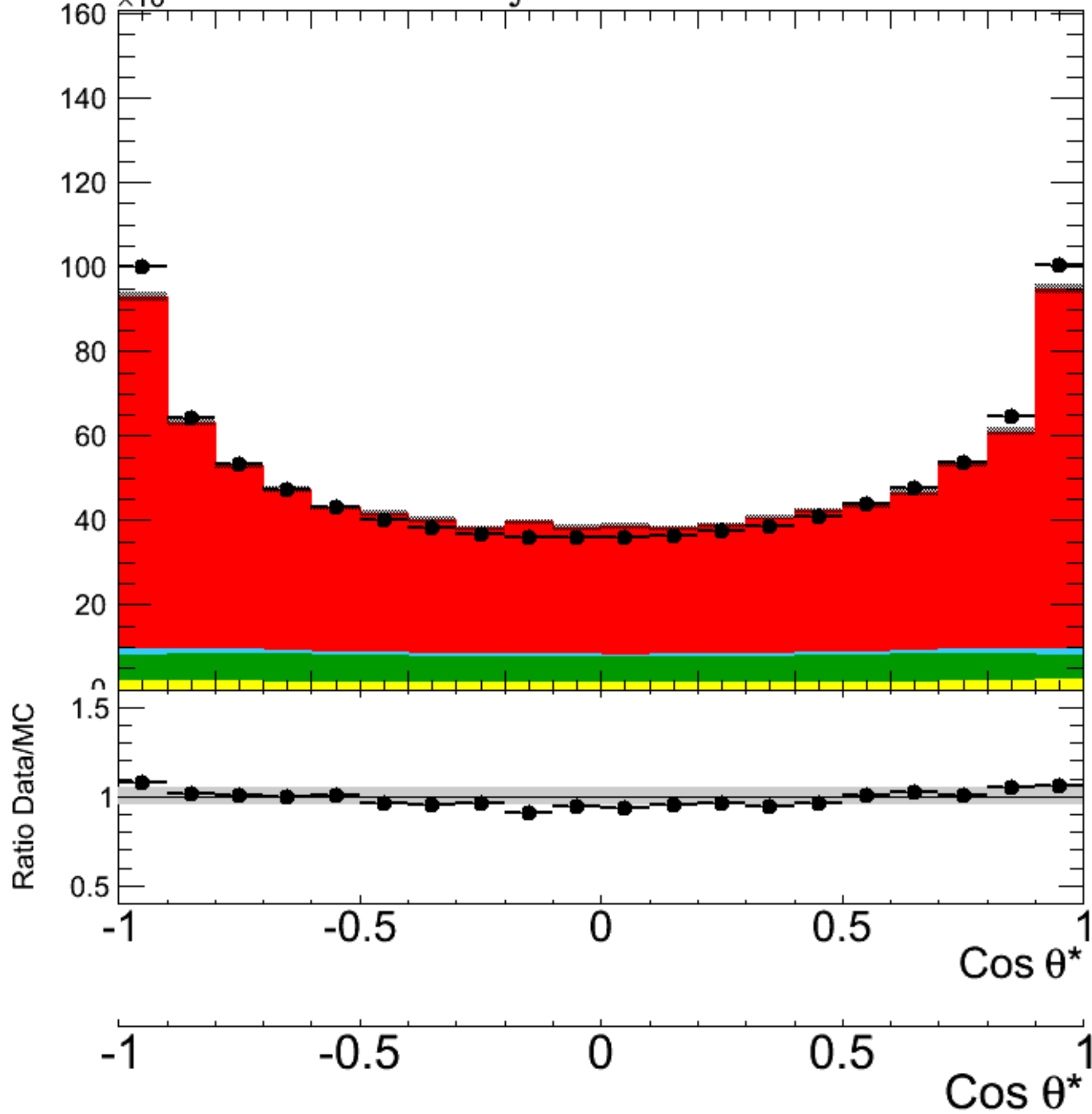
Ratio Data/MC



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

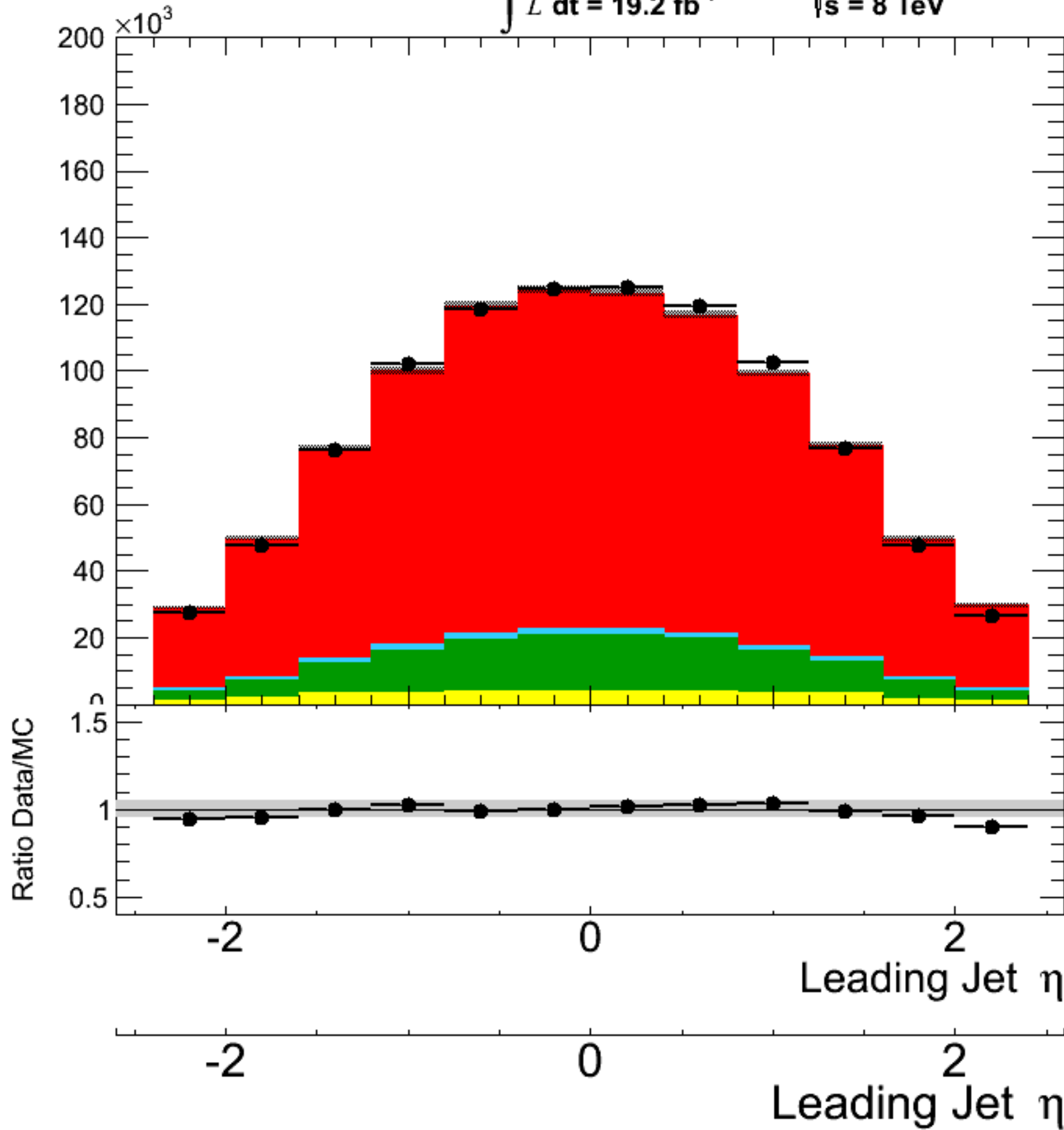
Events/0.1

 $\times 10^3$ 

CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

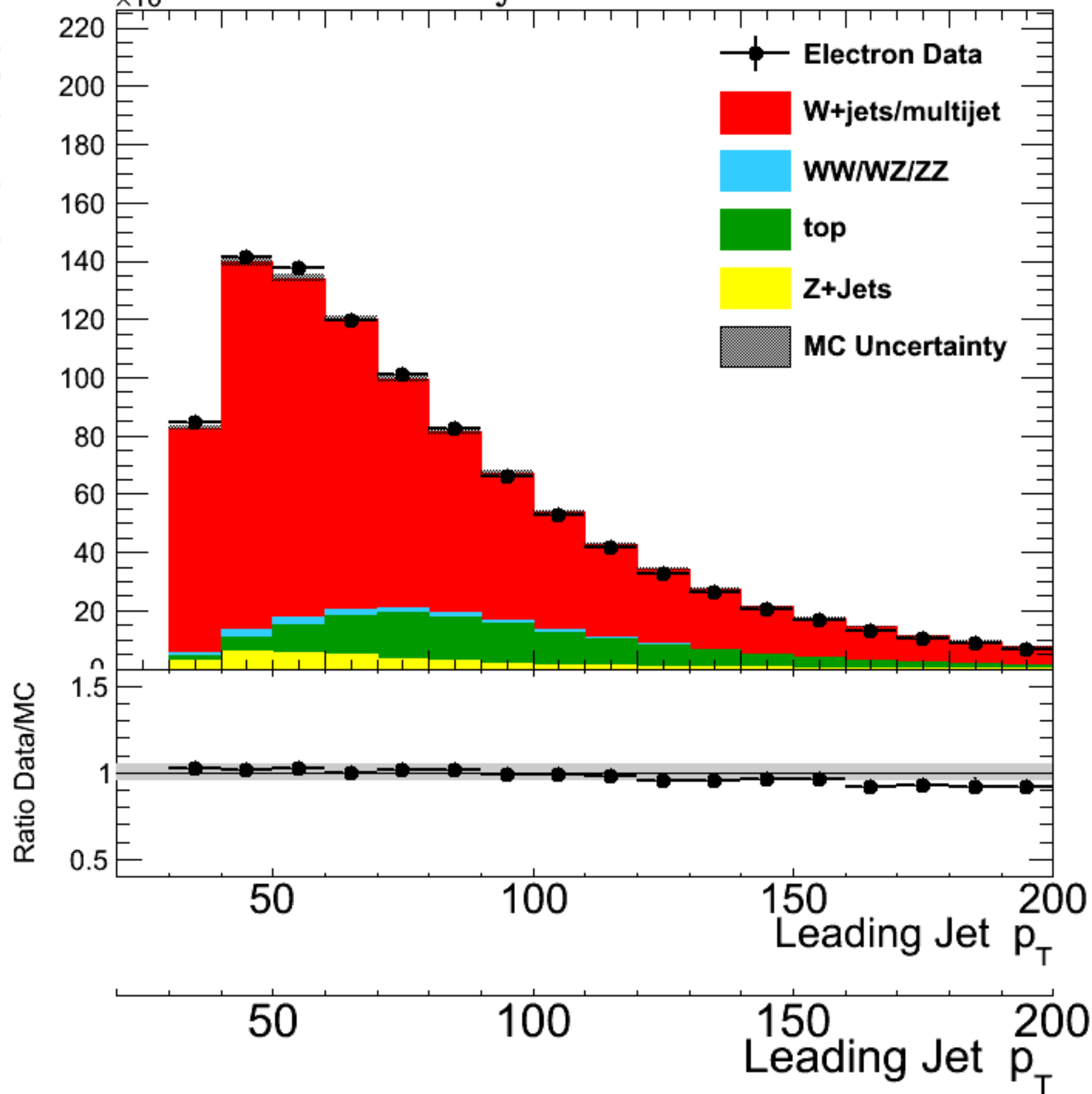
Events/0.4



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/ 10 GeV

 $\times 10^3$ 

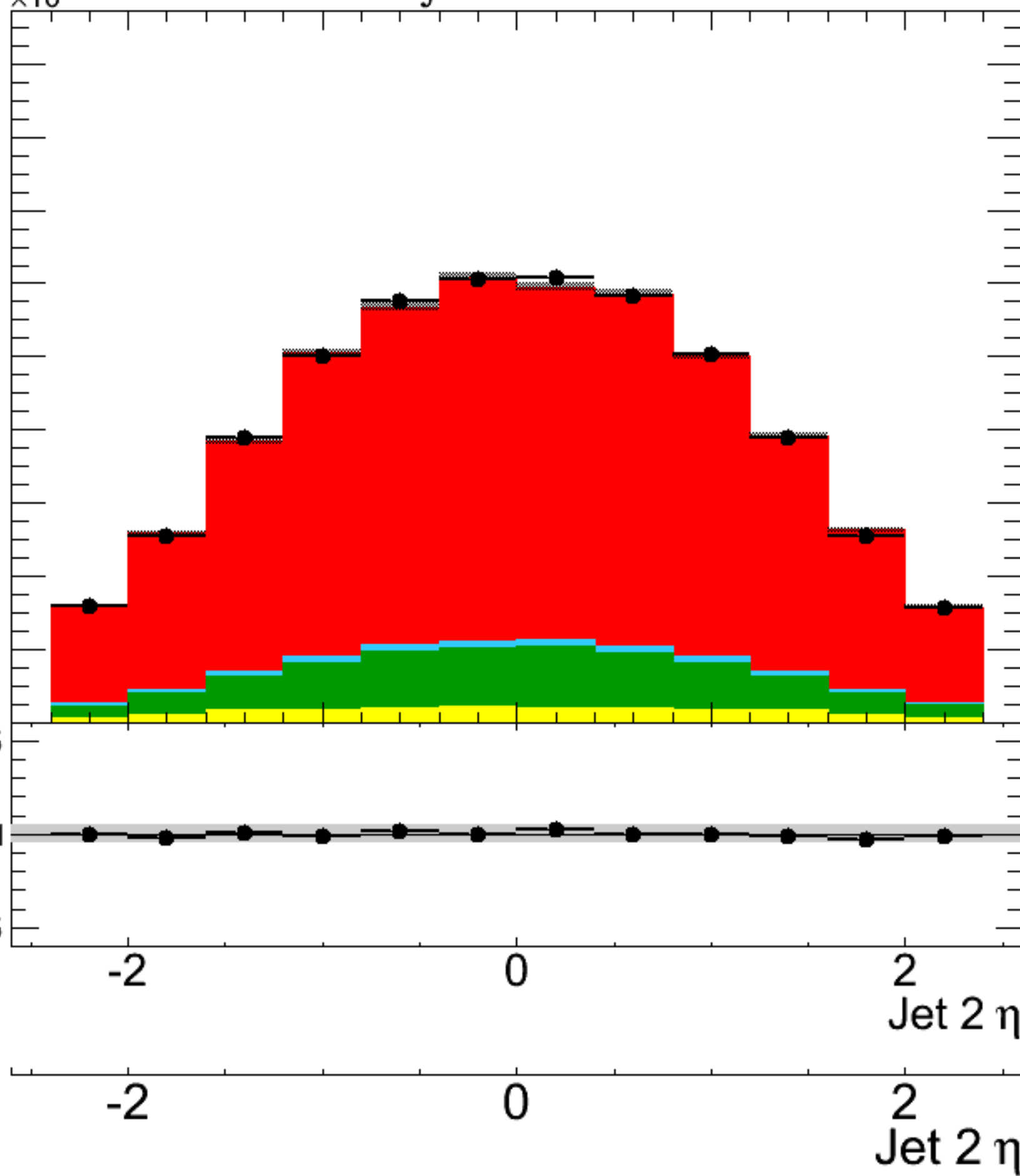
CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/0.4

 $\times 10^3$ 

Ratio Data/MC



CMS preliminary

 $\int L \, dt = 19.2 \, \text{fb}^{-1}$  $\sqrt{s} = 8 \, \text{TeV}$ 

Events/ 10 GeV

 $\times 10^3$ 

Ratio Data/MC

600  
500  
400  
300  
200  
100  
0  
1.5  
1  
0.5

50

100

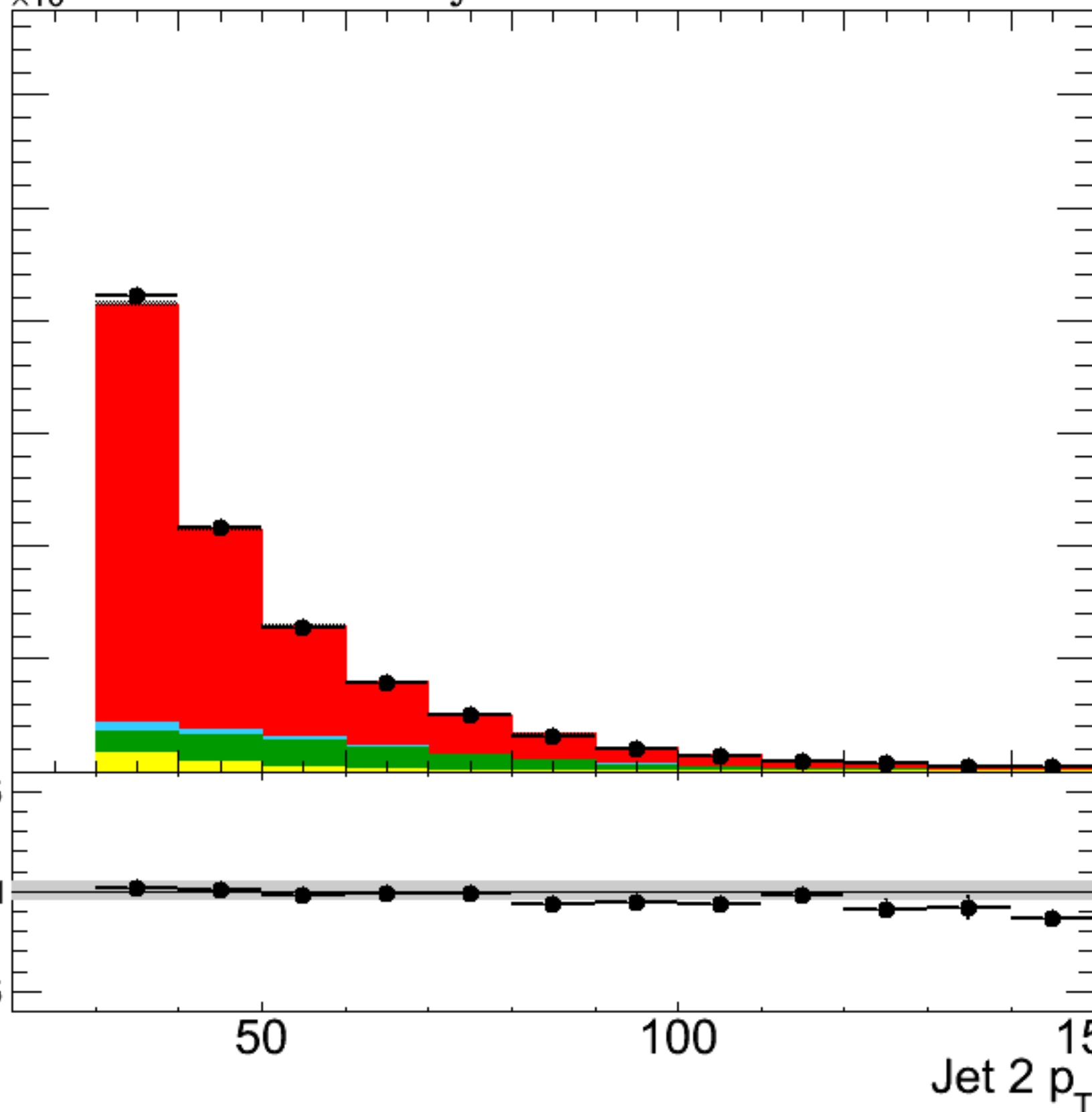
150

Jet 2  $p_T$ 

50

100

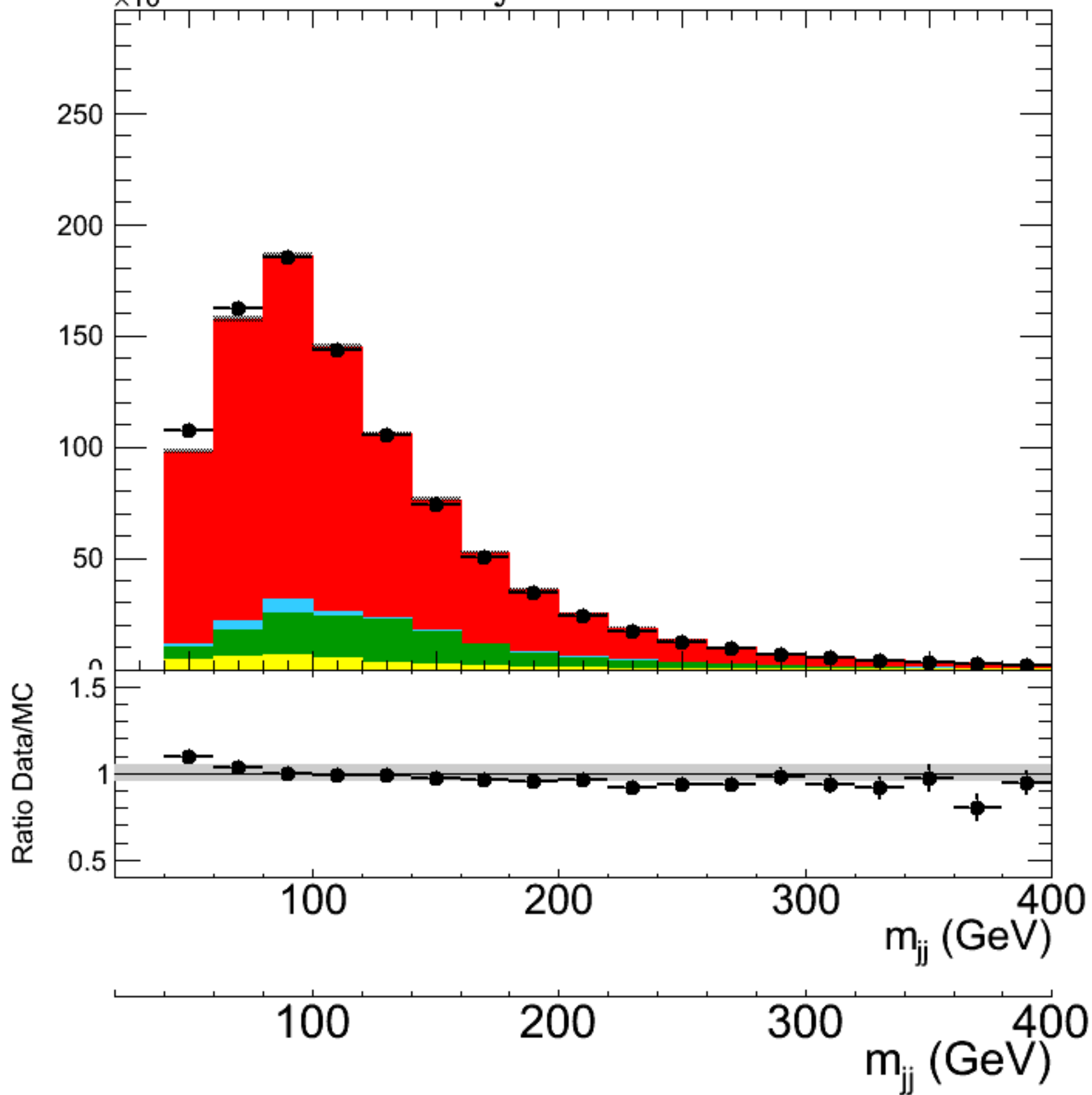
150

Jet 2  $p_T$ 

CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/ 20 GeV

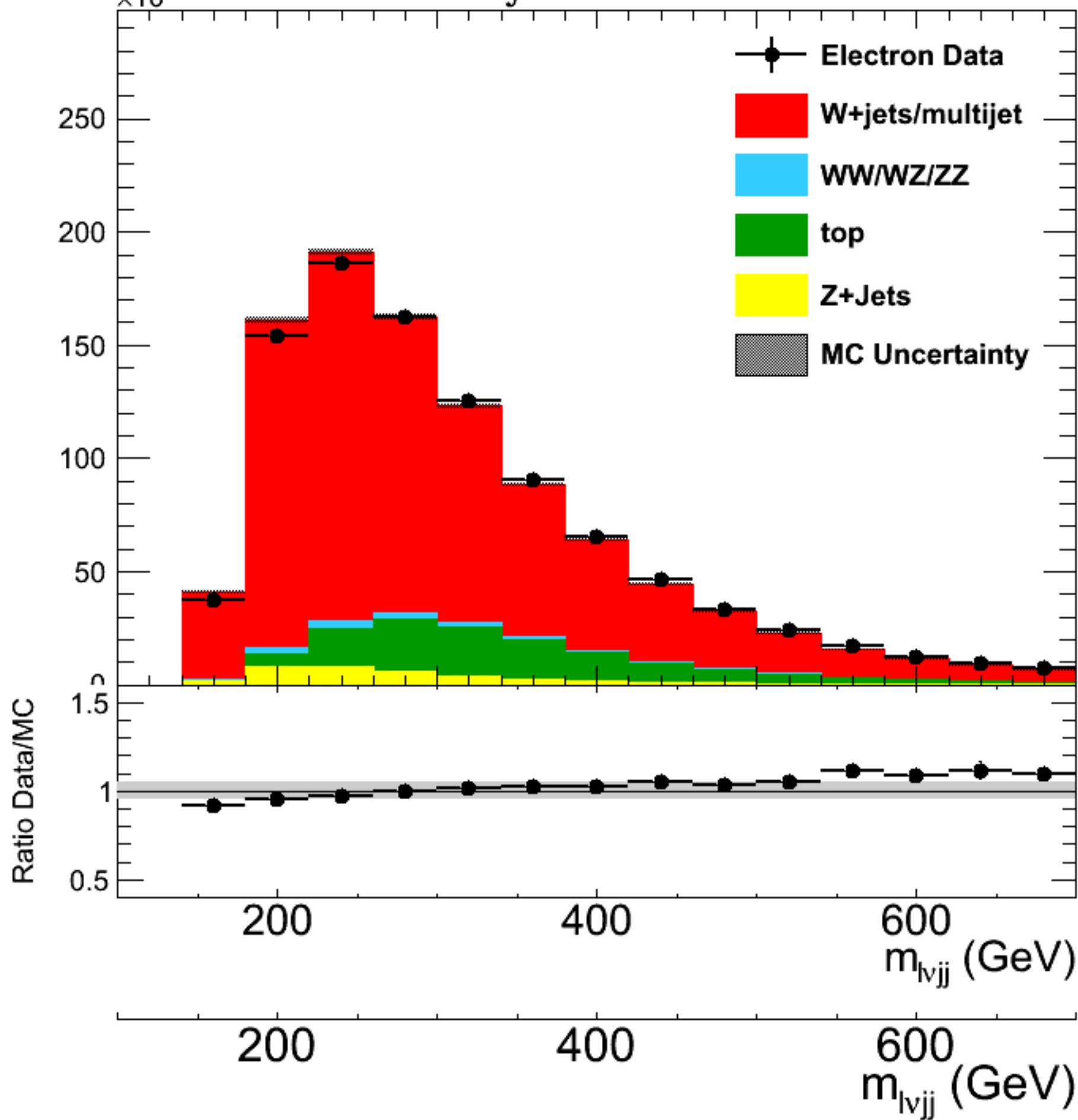
 $\times 10^3$ 



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/ 40 GeV

 $\times 10^3$ 

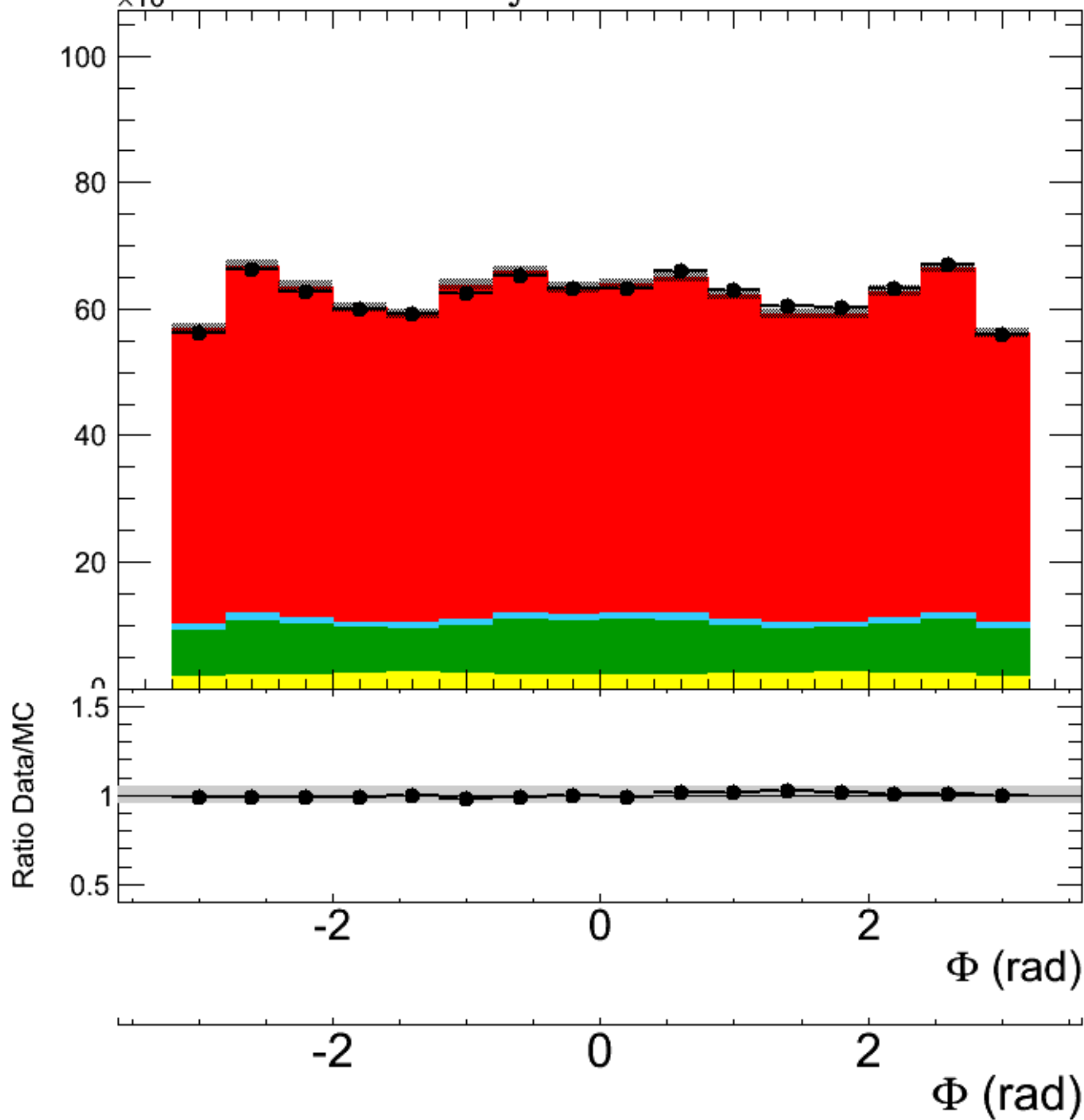
CMS preliminary

$\int L \, dt = 19.2 \, \text{fb}^{-1}$

$\sqrt{s} = 8 \, \text{TeV}$

Events/0.4 rad

$\times 10^3$



CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/0.4 rad

 $\times 10^3$ 

Ratio Data/MC

 $\Phi_1 \text{ (rad)}$  $\Phi_1 \text{ (rad)}$ 120  
100  
80  
60  
40  
20  
0  
1.5  
1  
0.5

-2

0

2

-2

0

2

CMS preliminary

 $\int L dt = 19.2 \text{ fb}^{-1}$  $\sqrt{s} = 8 \text{ TeV}$ 

Events/ 10 GeV

 $\times 10^3$ 