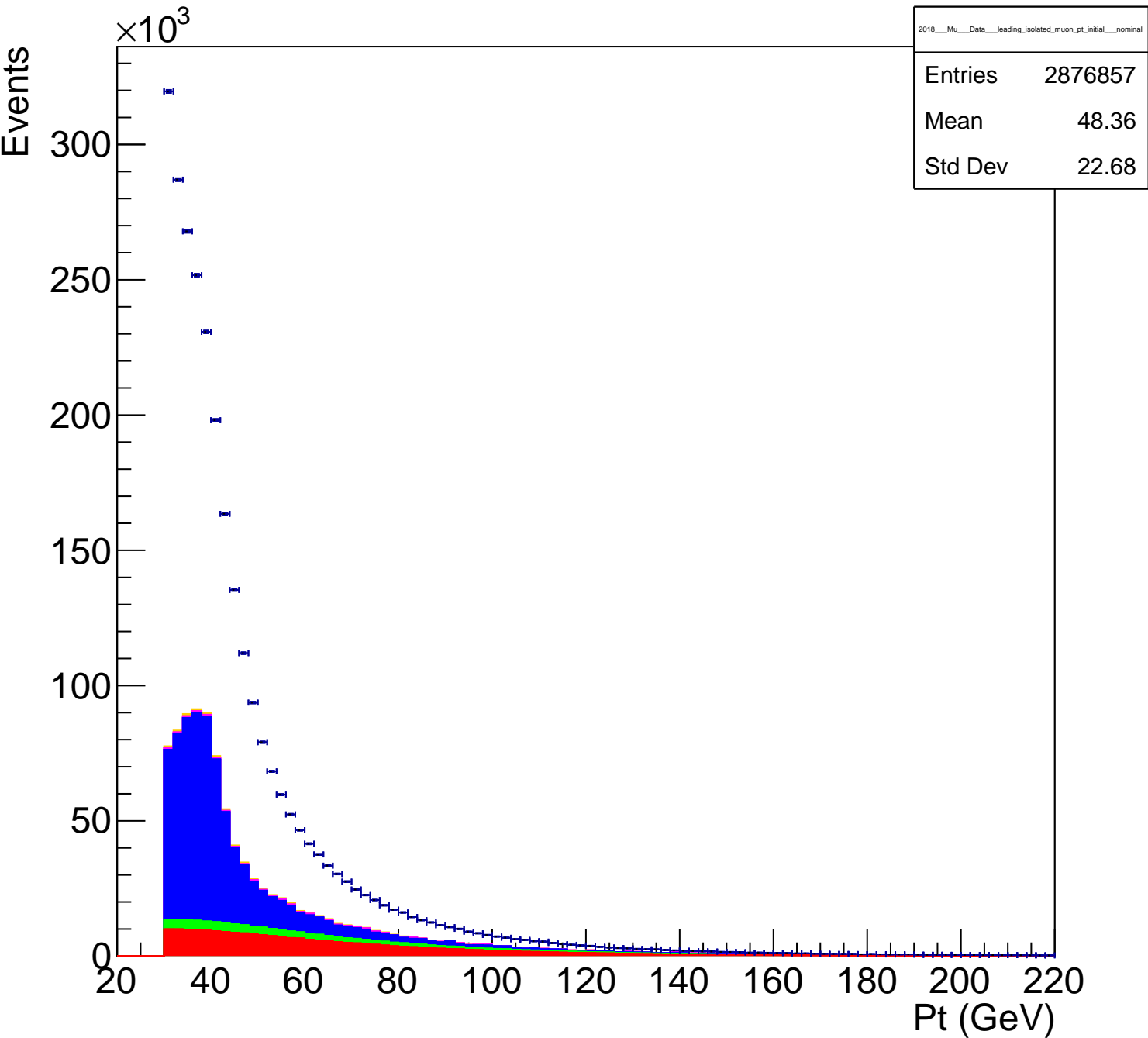
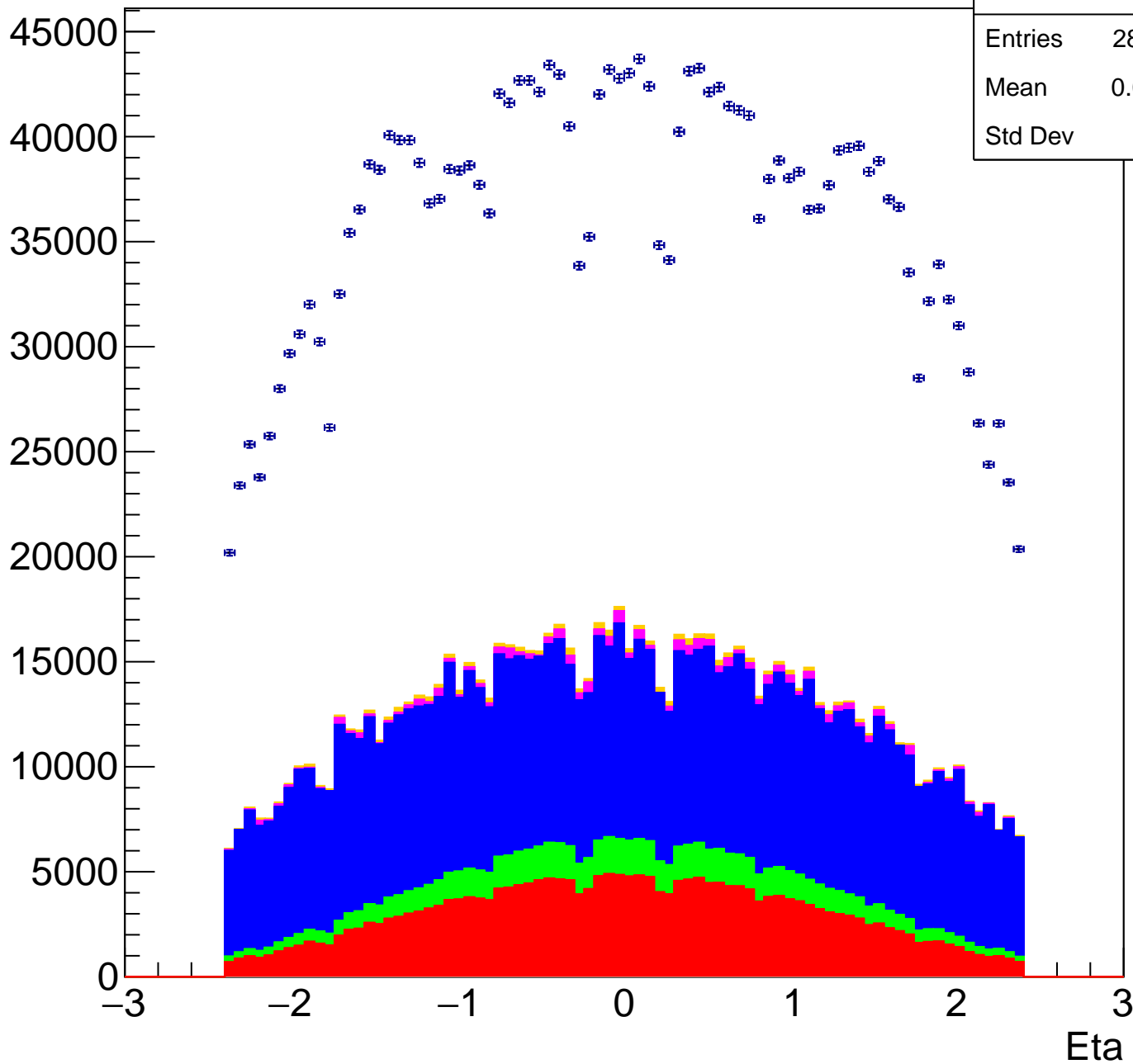


Leading Isolated Muon Transverse Momentum (One Muon, No Electrons)

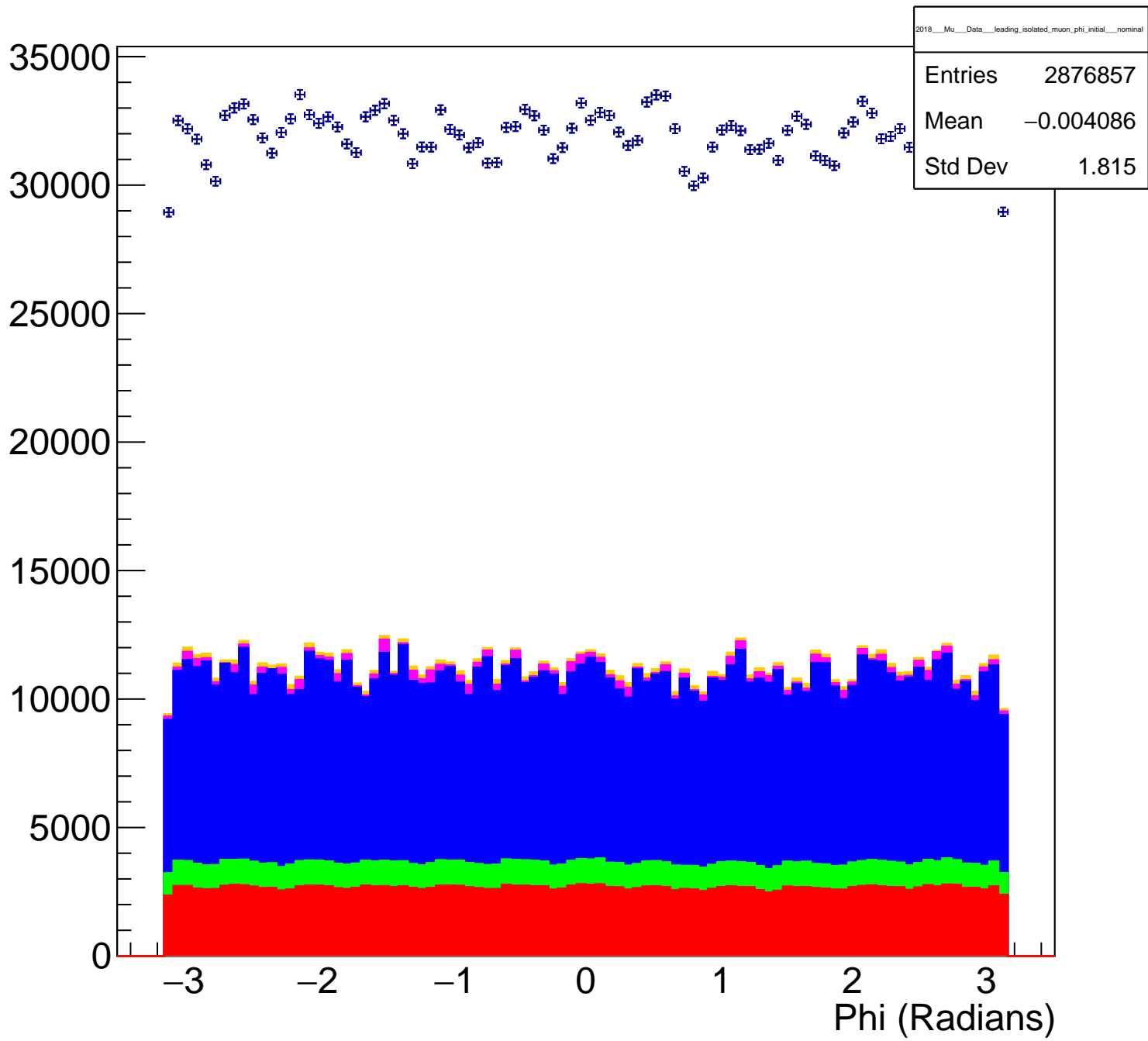


Leading Isolated Muon Pseudorapidity (One Muon, No Electrons)

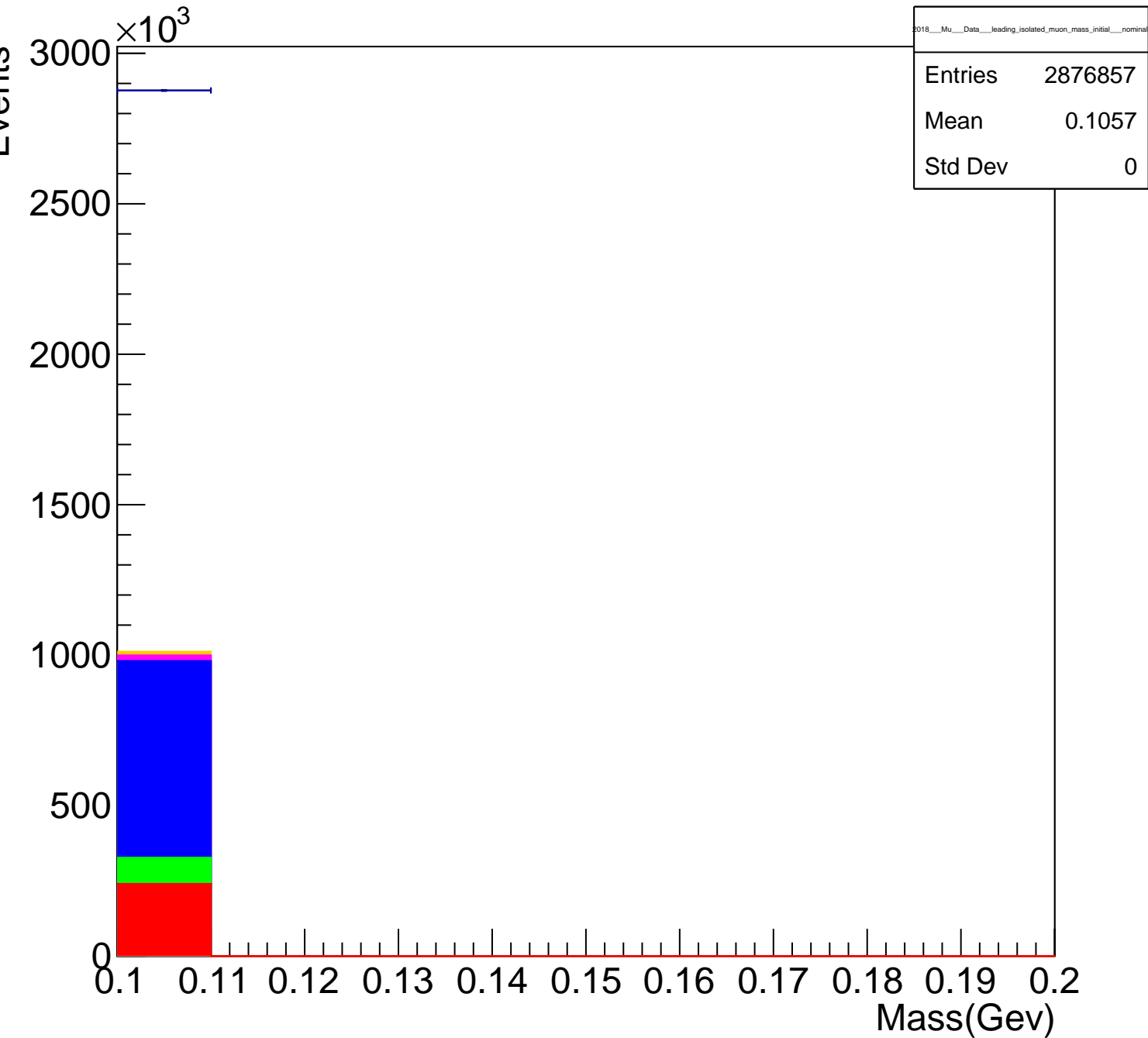
2018_Mu_Data_leading_isolated_muon_eta_initial_nominal	
Entries	2876857
Mean	0.007951
Std Dev	1.287



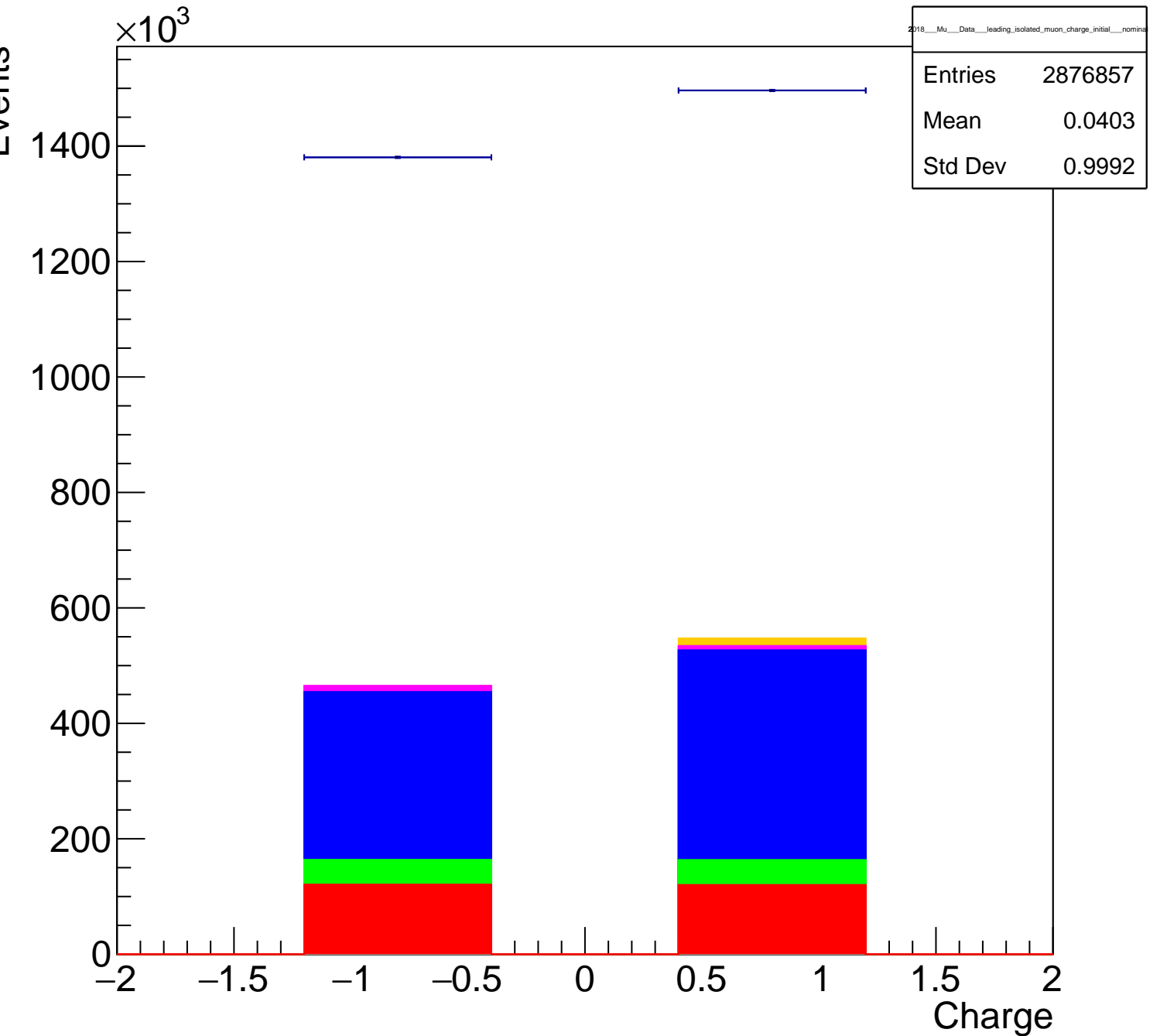
Leading Isolated Muon Angle (One Muon, No Electrons)



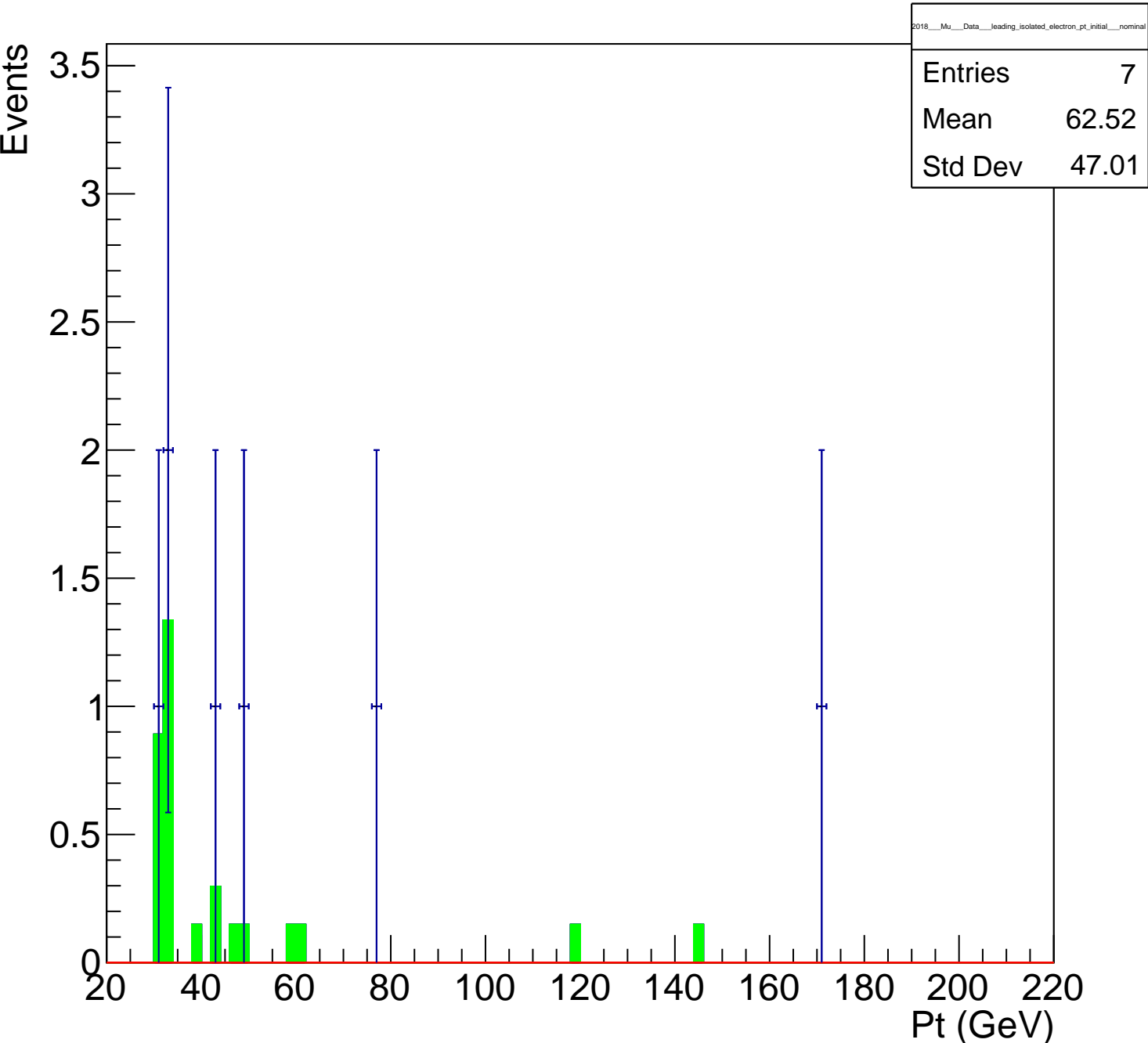
Leading Isolated Muon Mass (One Muon, No Electrons)



Leading Isolated Muon Charge (One Muon, No Electrons)

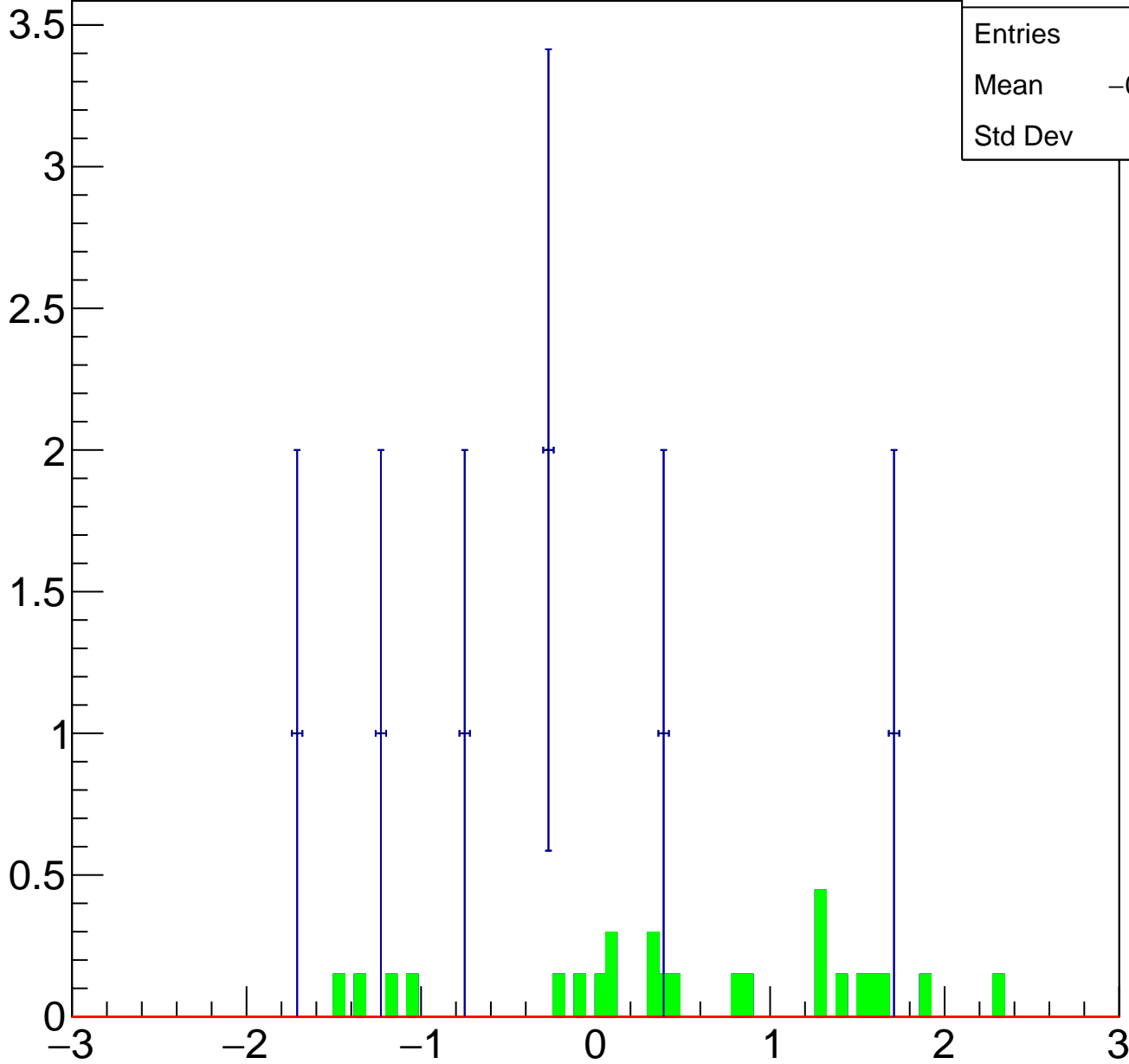


Leading Isolated Electron Transverse Momentum (One Electron, No Muons)



Leading Isolated Electron Pseudorapidity (One Electron, No Muons)

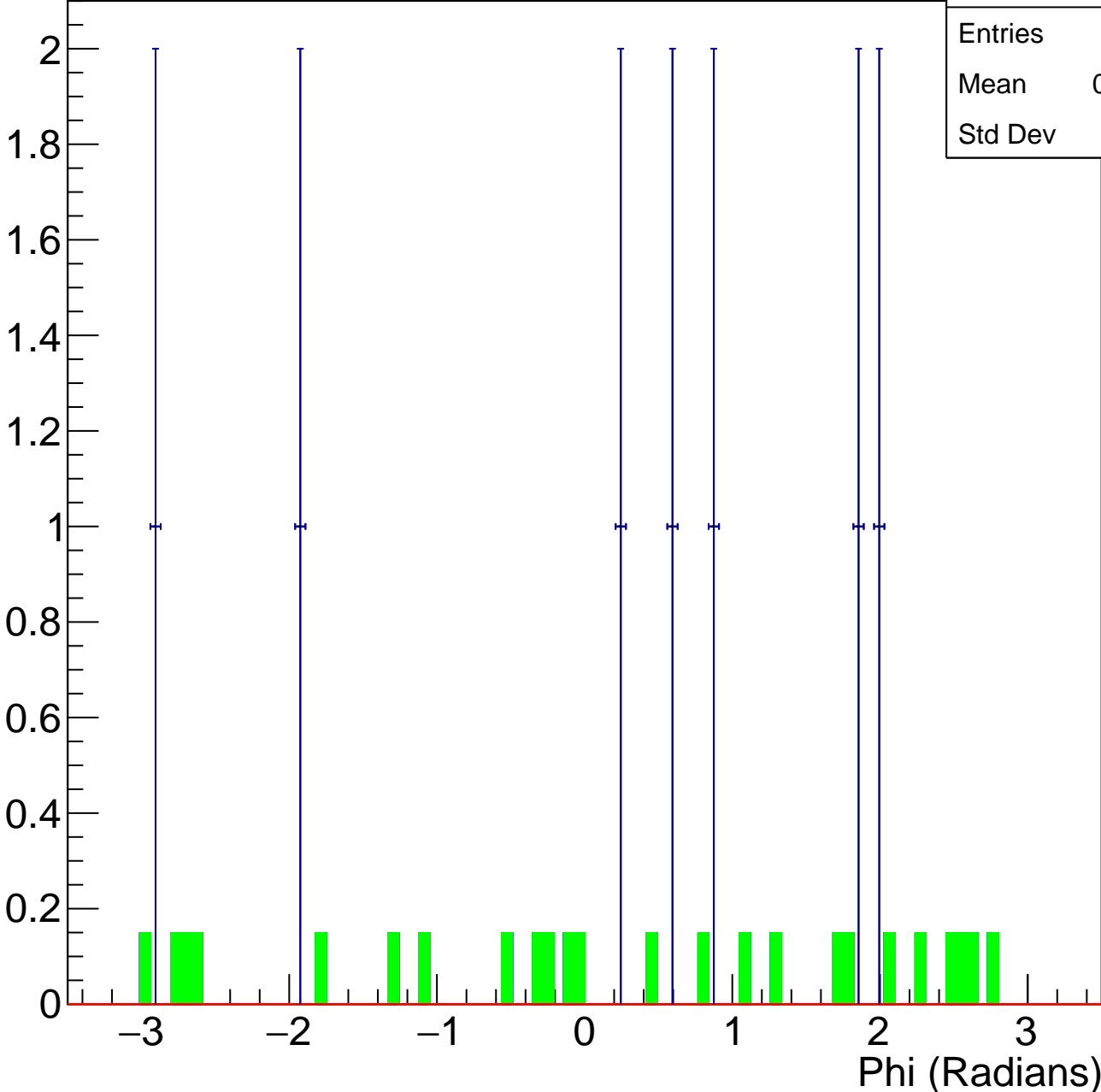
Events



Leading Isolated Electron Angle (One Electron, No Muons)

Events

2018__Mu__Data__leading_isolated_electron_phi_initial__nominal	
Entries	7
Mean	0.08943
Std Dev	1.724



Leading Isolated Electron Mass (One Electron, No Muons)

Events

1

0.8

0.6

0.4

0.2

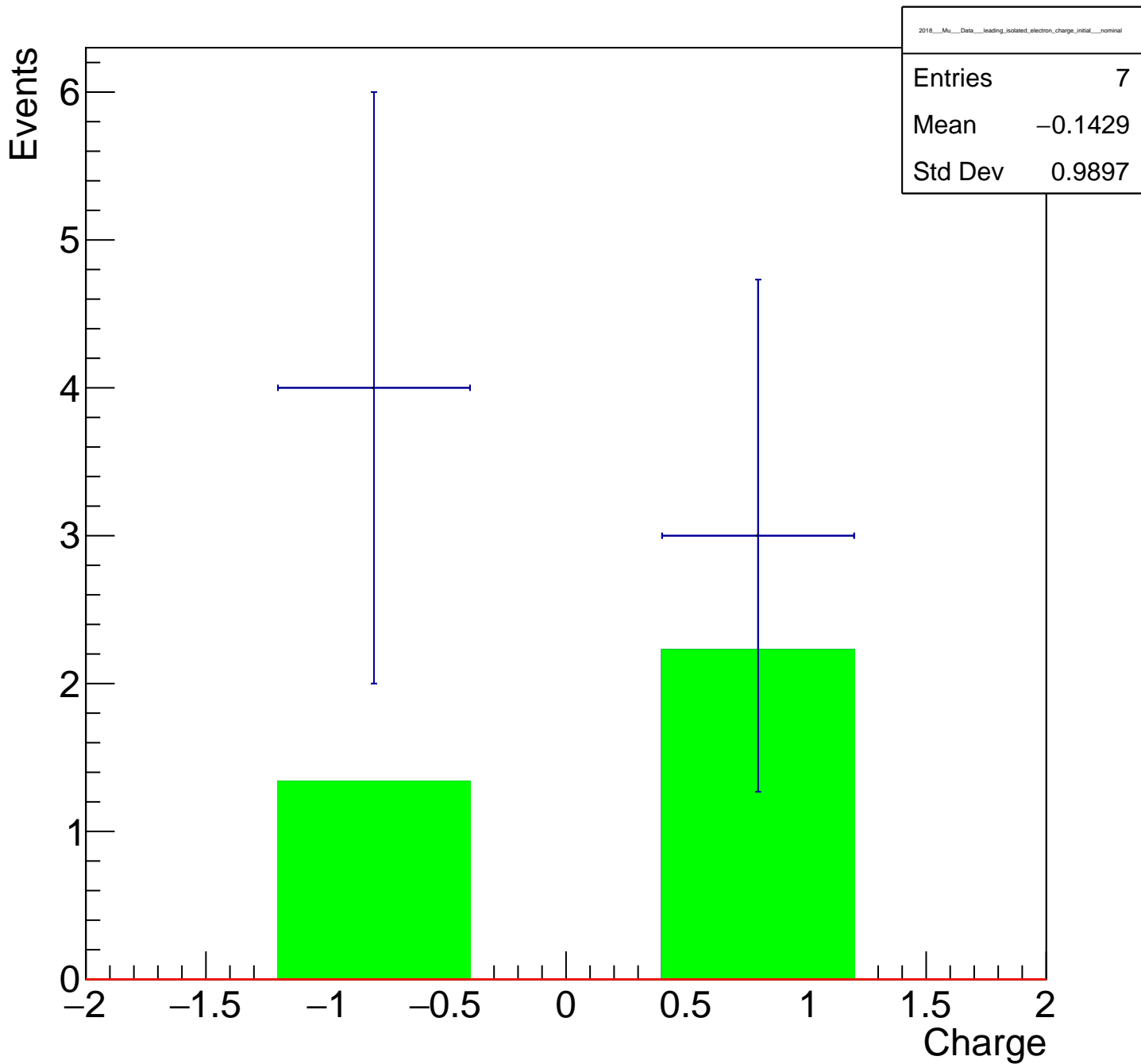
0

0.00010.00020.00030.00040.00050.00060.00070.00080.00090.001

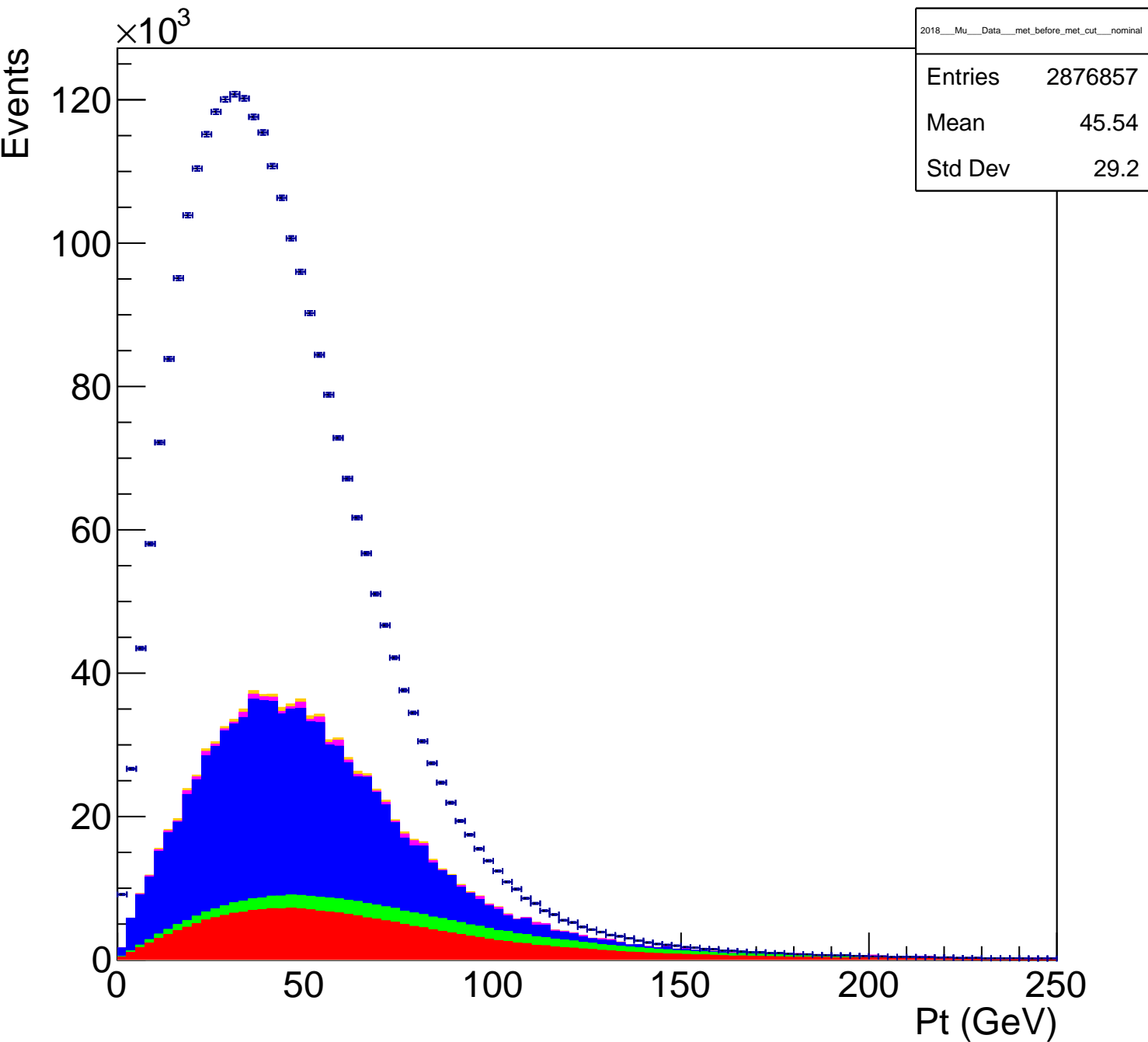
Mass(Gev)

2018_Mu_Data_leading_isolated_electron_mass_initial__nominal	
Entries	7
Mean	0
Std Dev	0

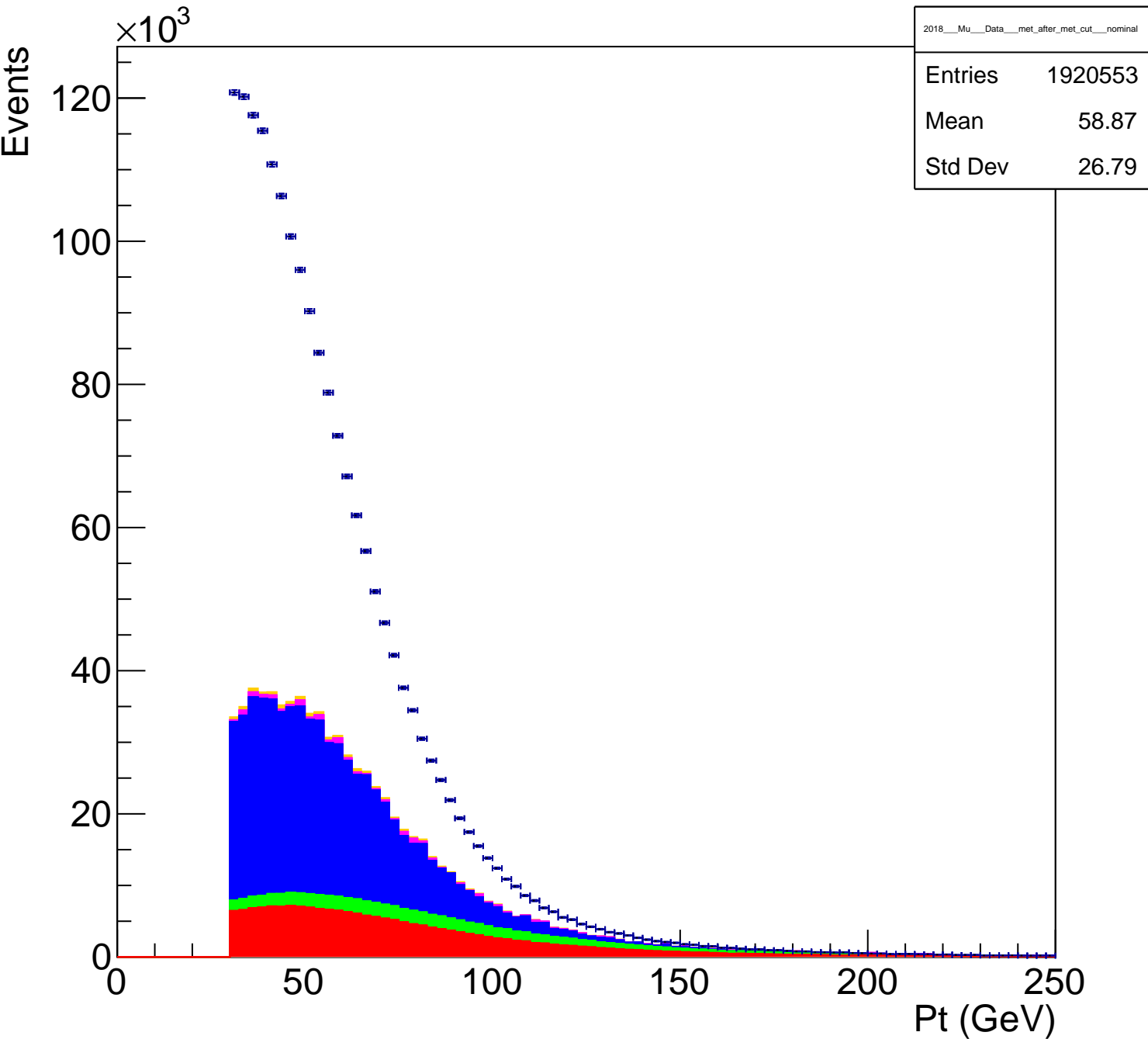
Leading Isolated Electron Charge (One Electron, No Muons)



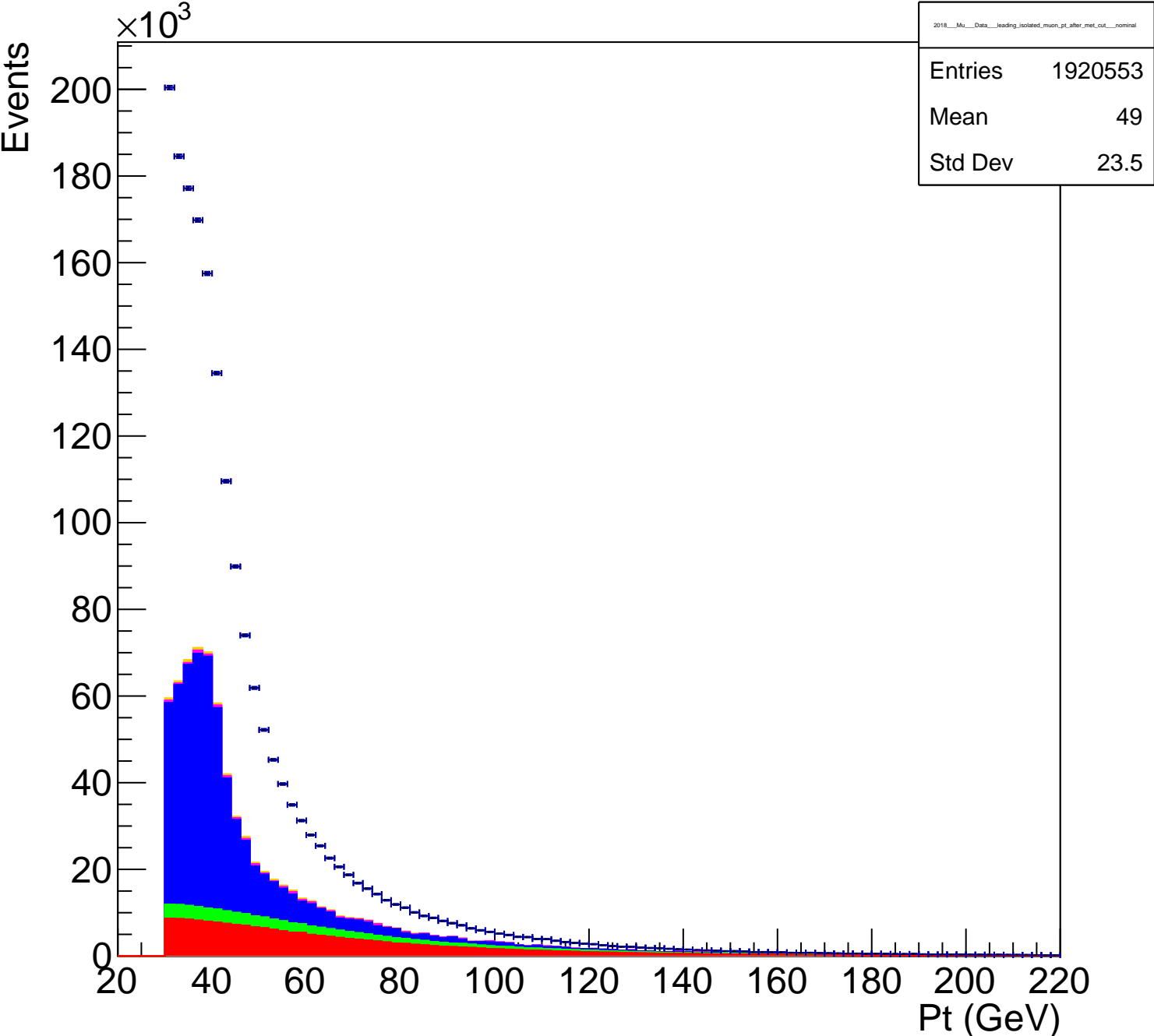
MET Before MET Cut



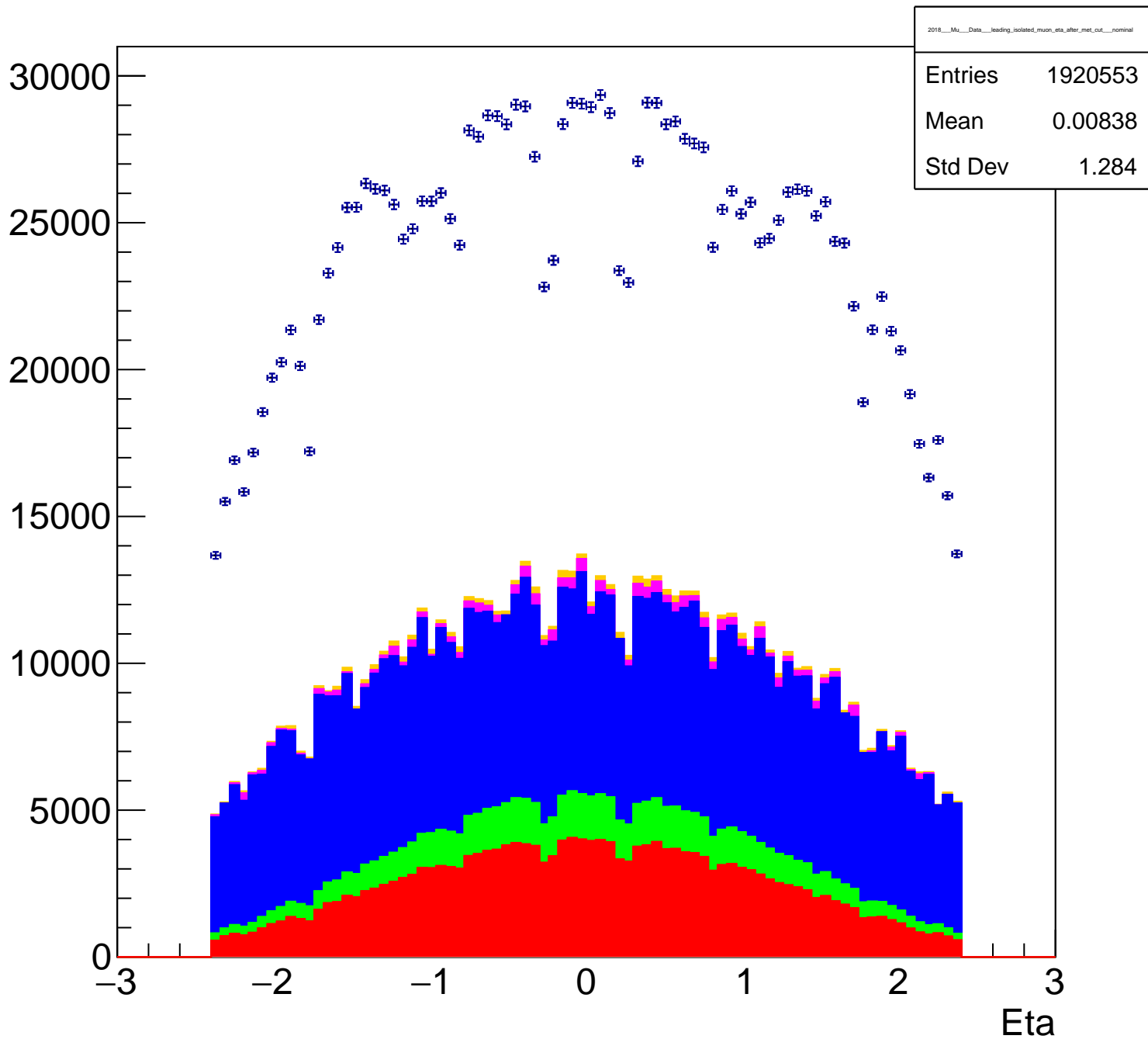
MET After MET Cut



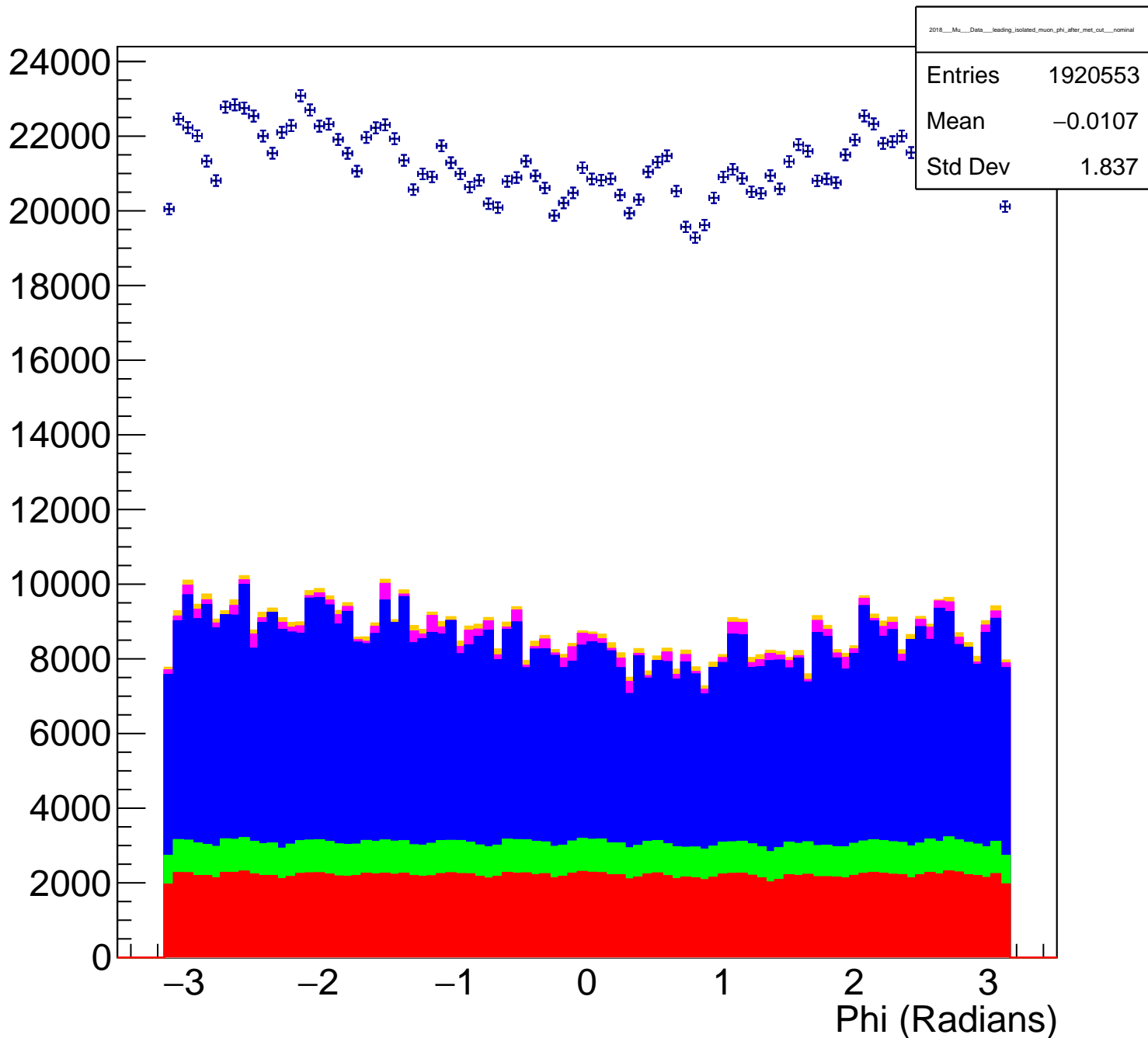
Leading Isolated Muon Transverse Momentum After MET Cut



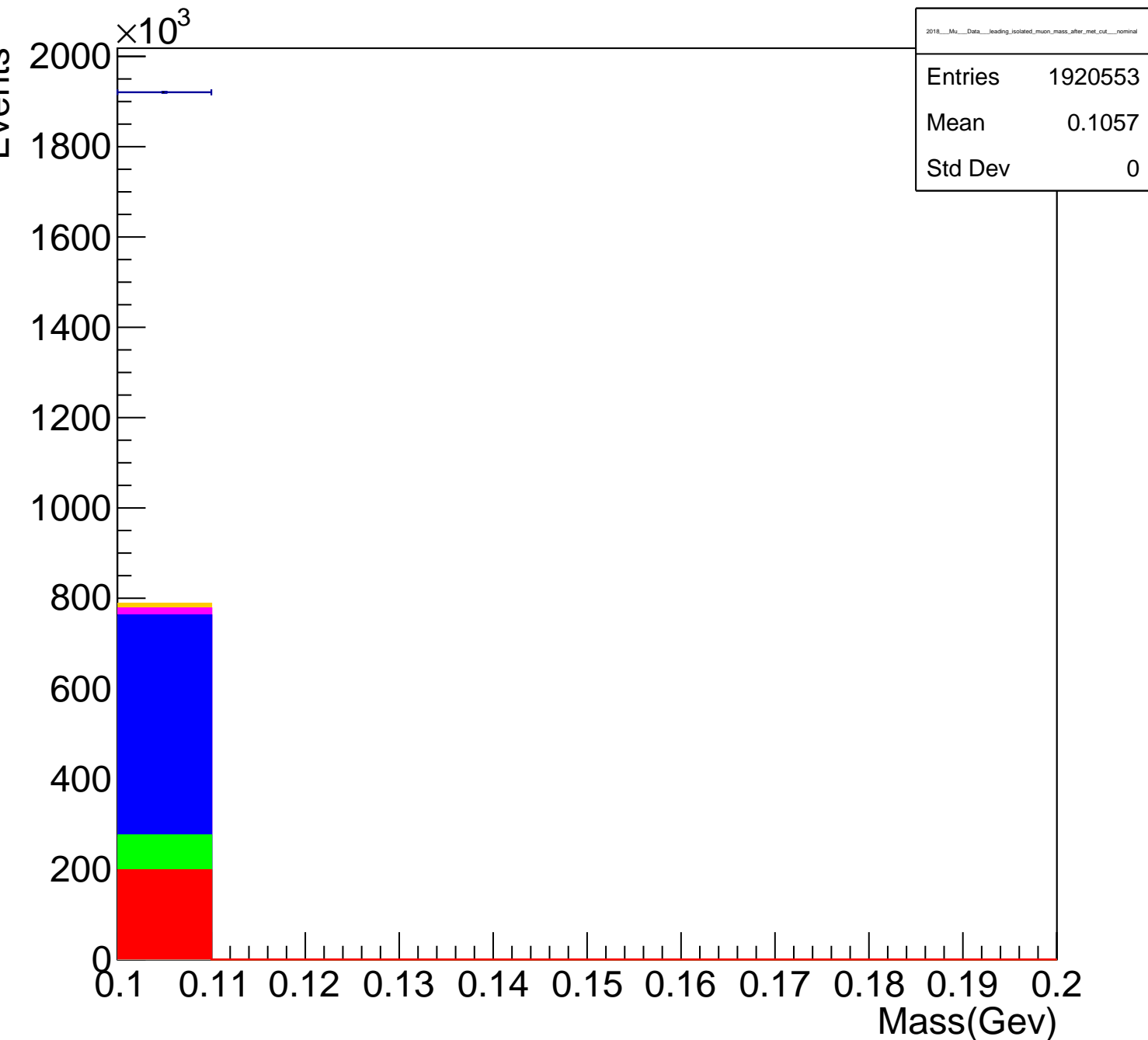
Leading Isolated Muon Pseudorapidity After MET Cut



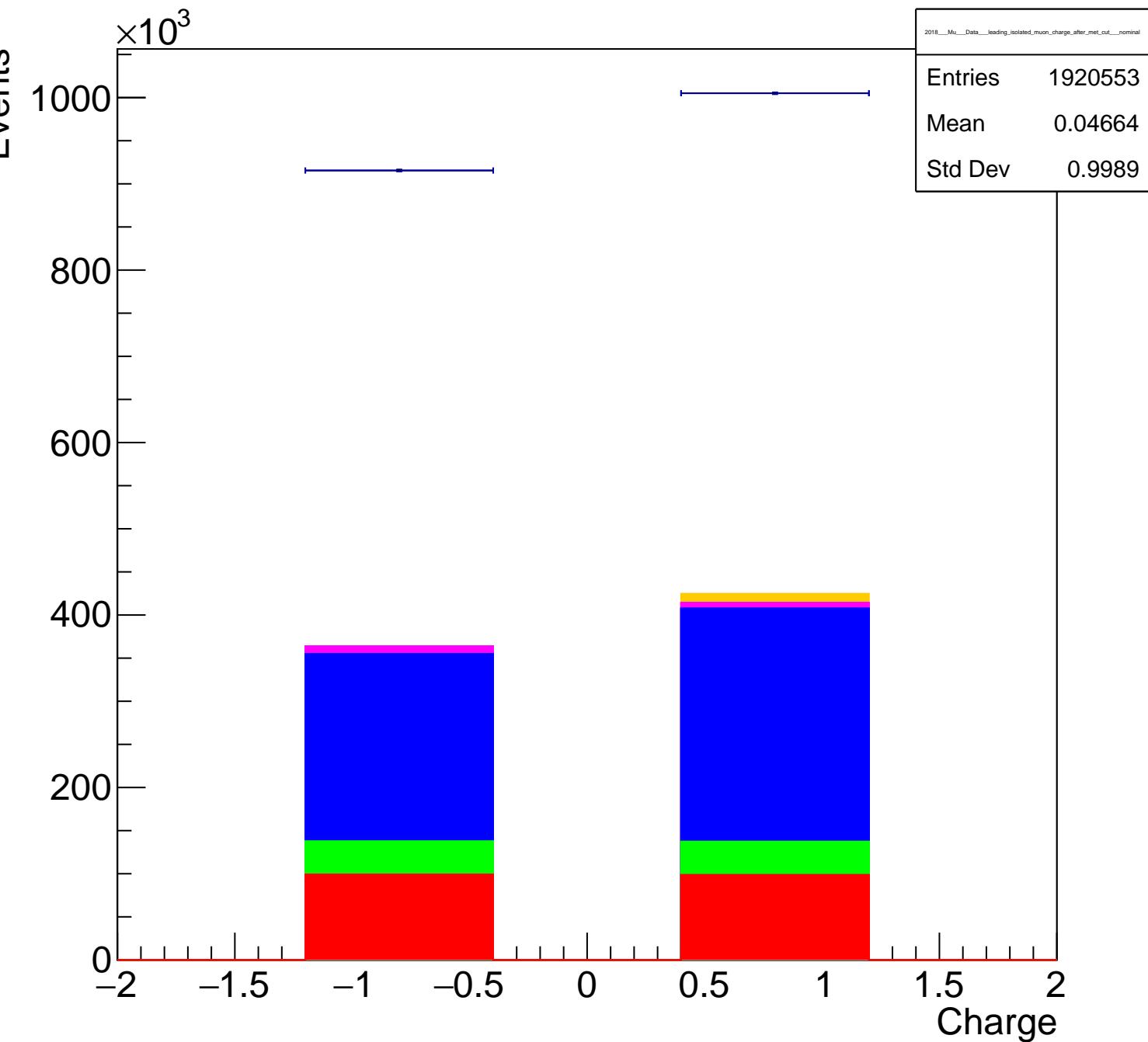
Leading Isolated Muon Angle After MET Cut



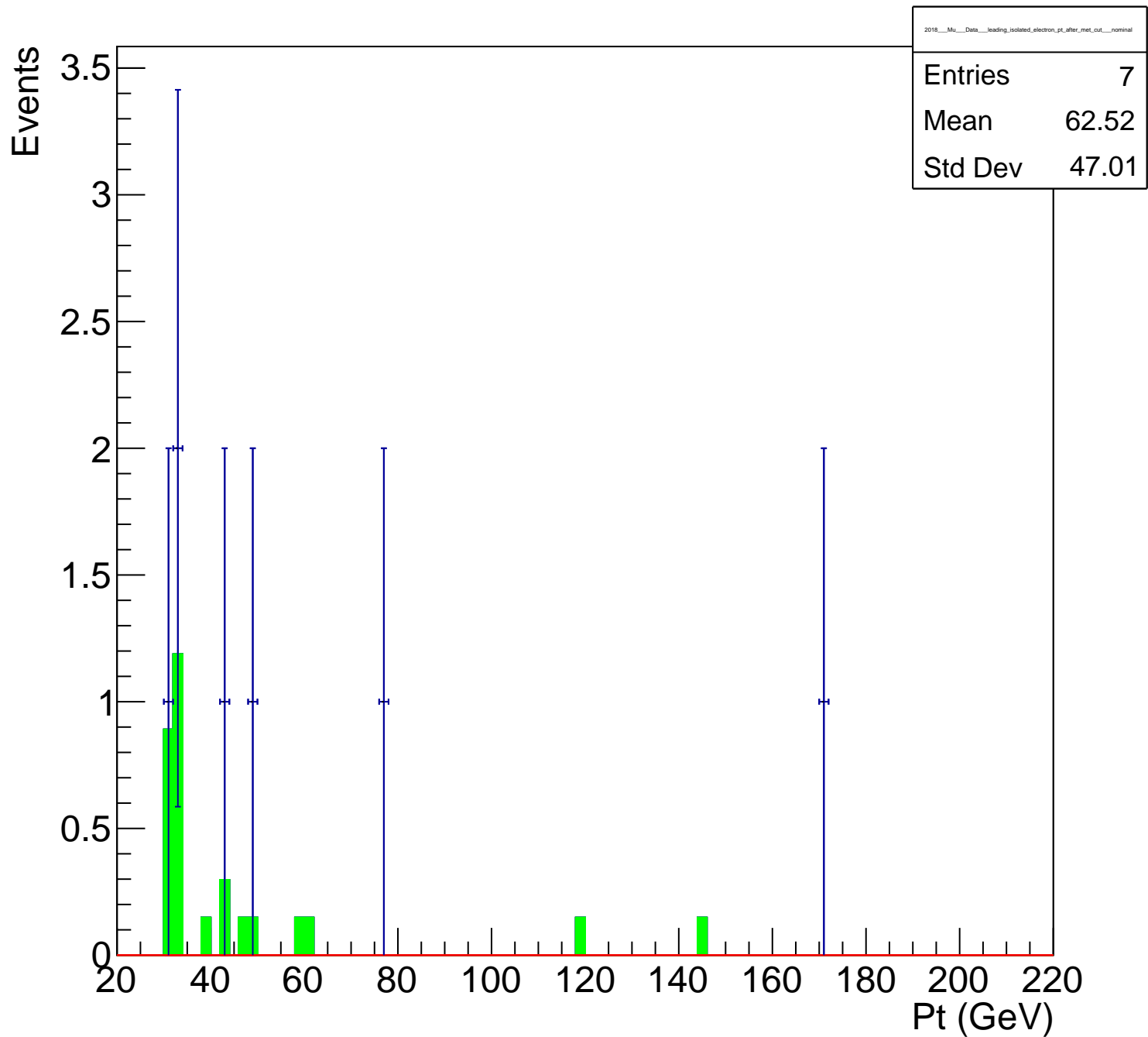
Leading Isolated Muon Mass After MET Cut



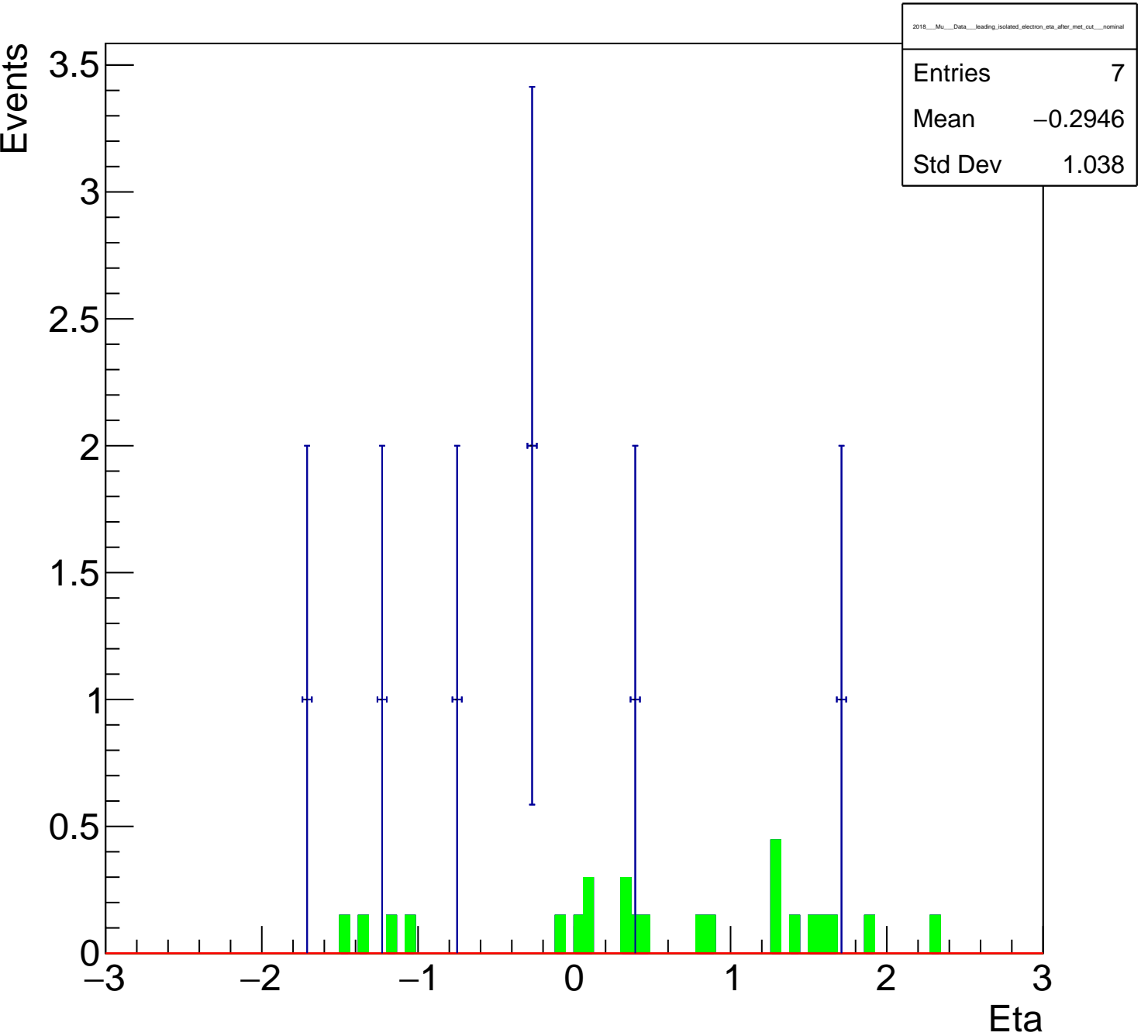
Leading Isolated Muon Charge After MET Cut



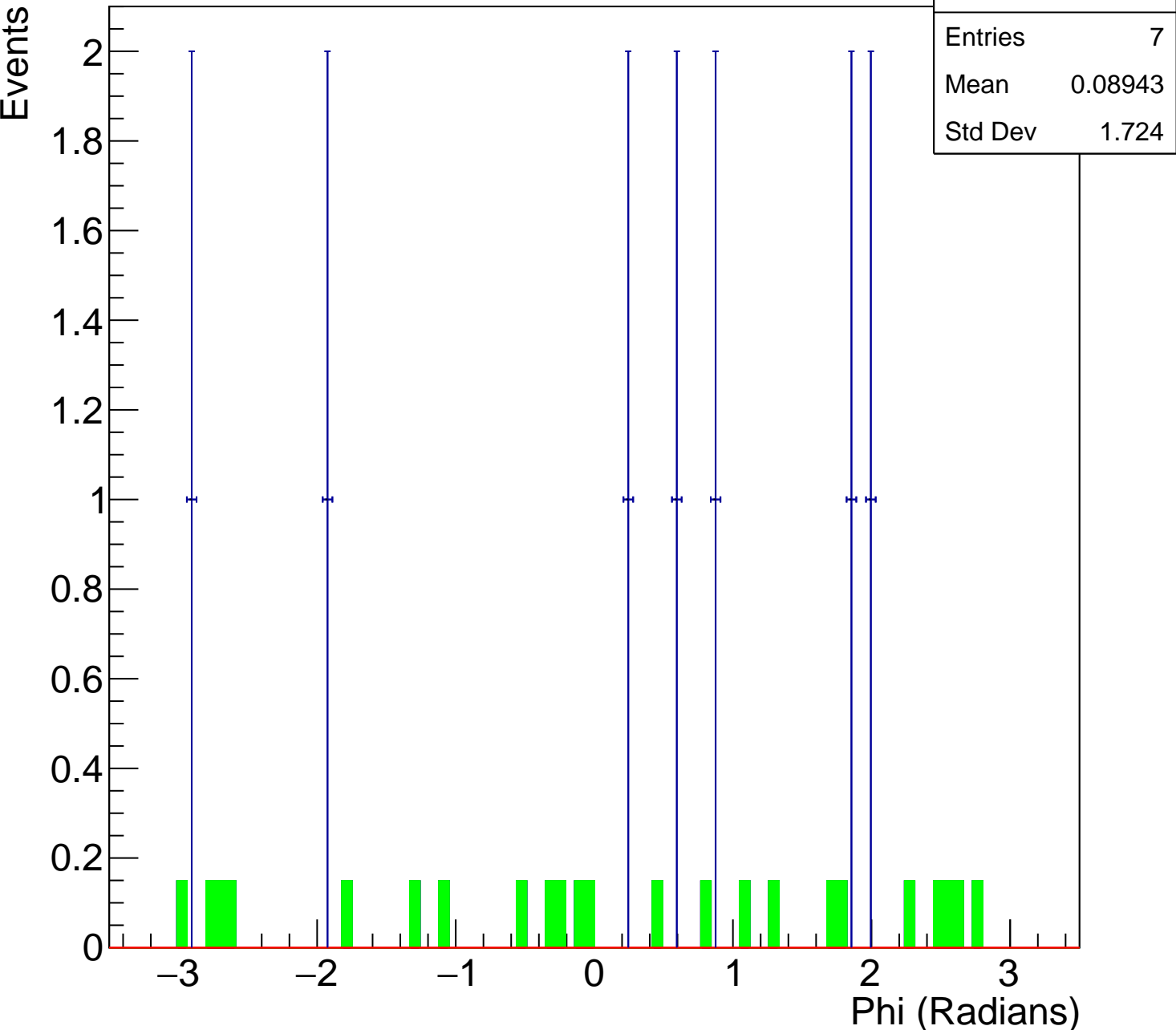
Leading Isolated Electron Transverse Momentum After MET Cut



Leading Isolated Electron Pseudorapidity After MET Cut

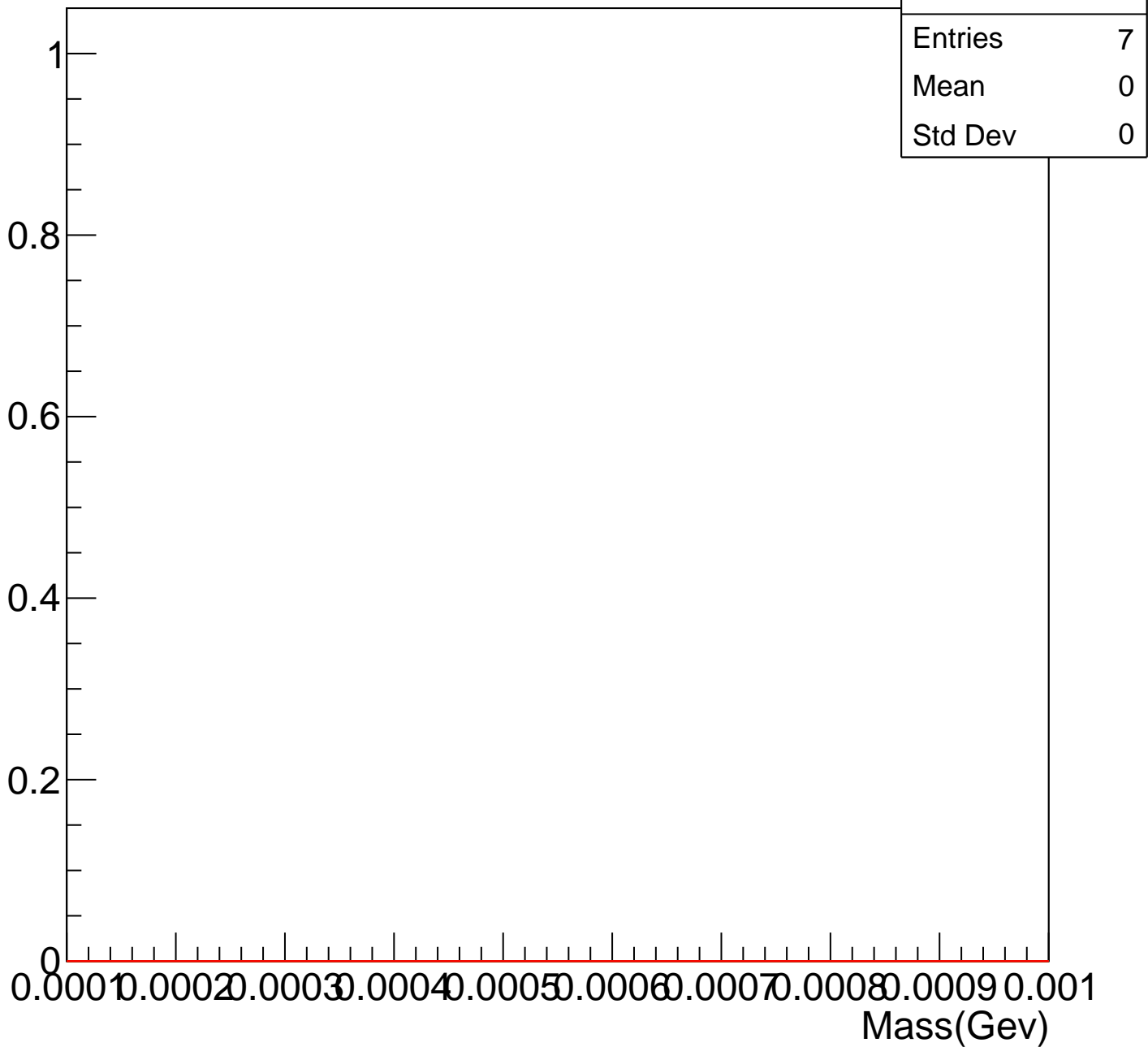


Leading Isolated Electron Angle After MET Cut

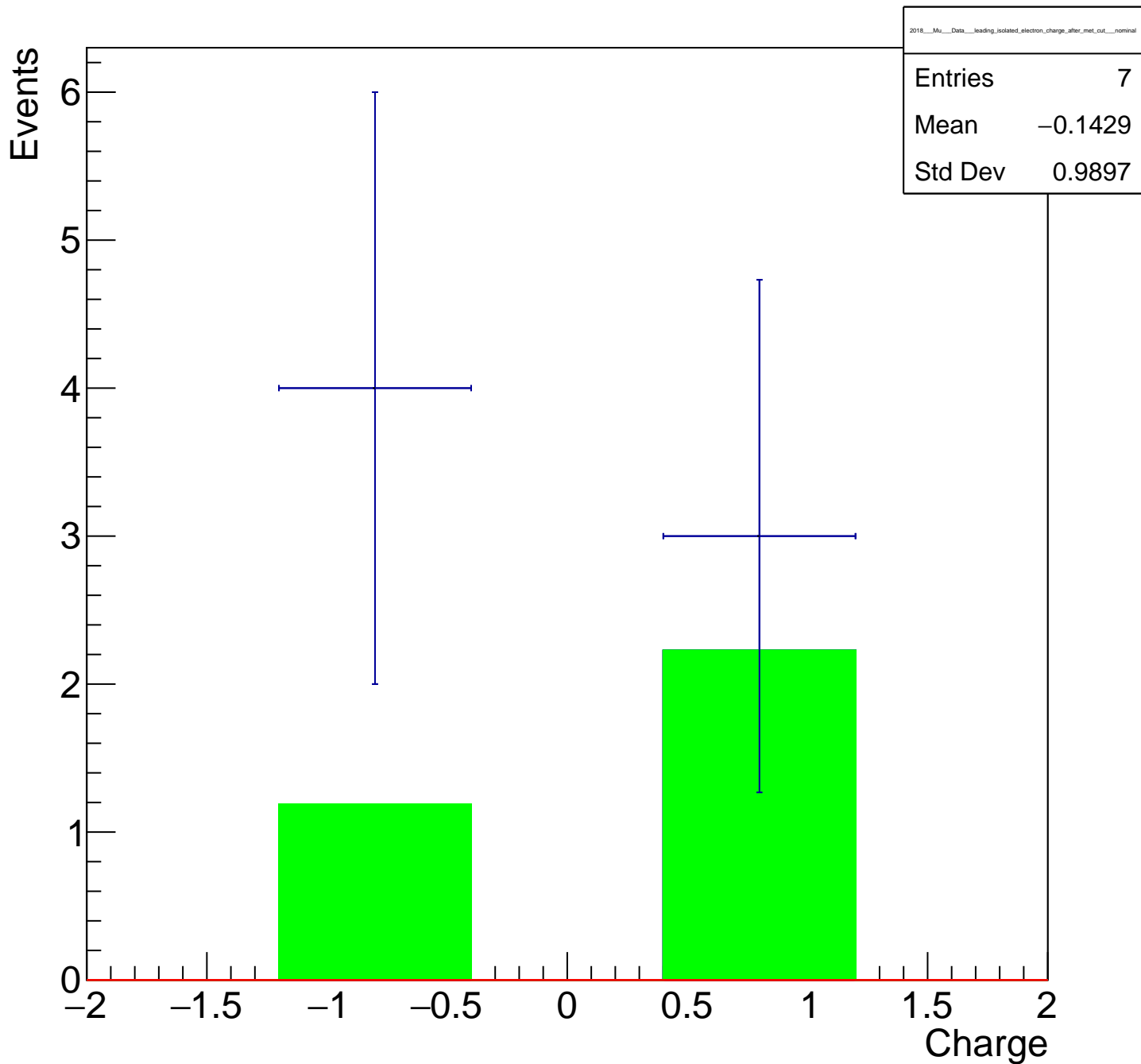


Leading Isolated Electron Mass After MET Cut

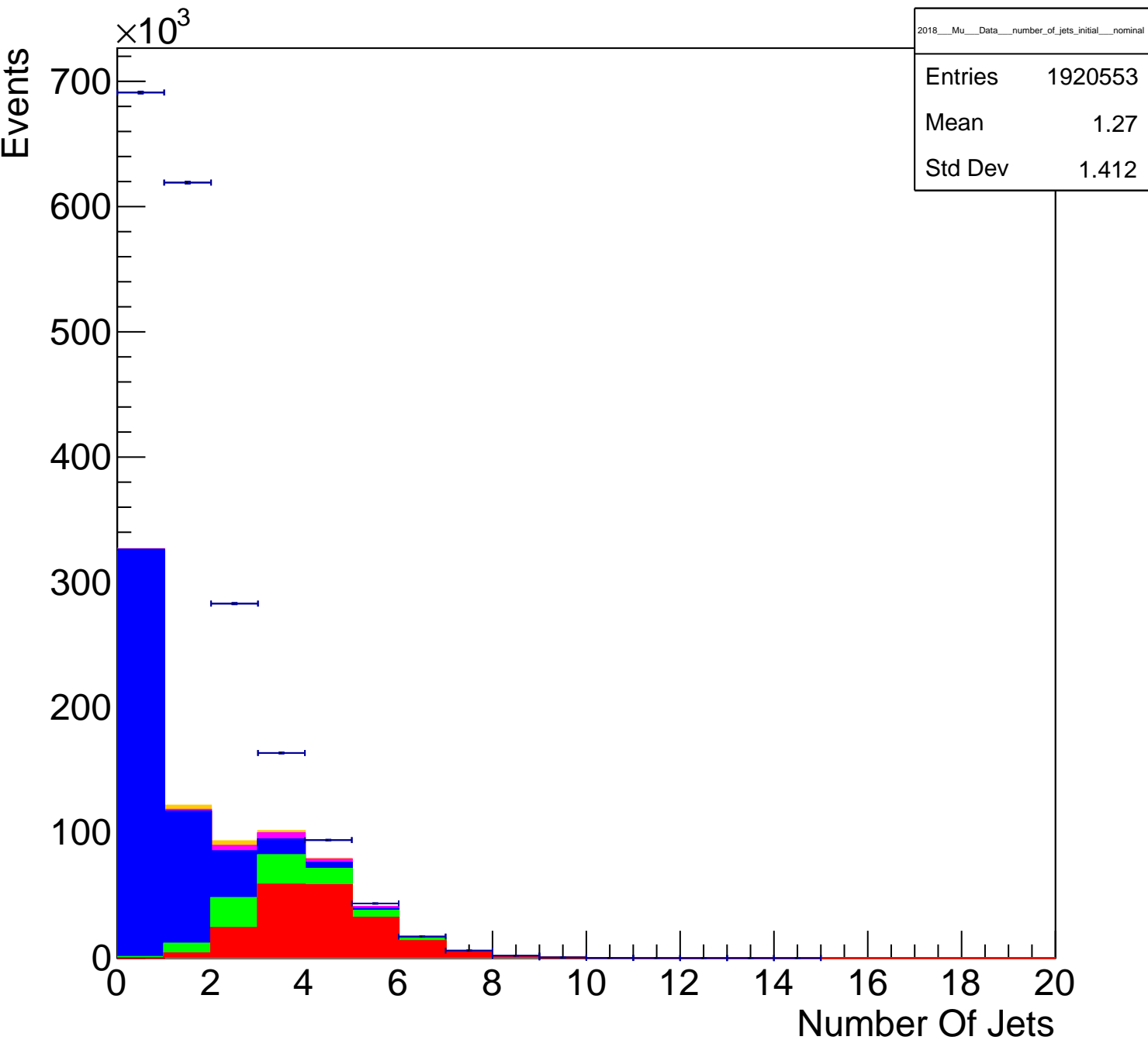
Events



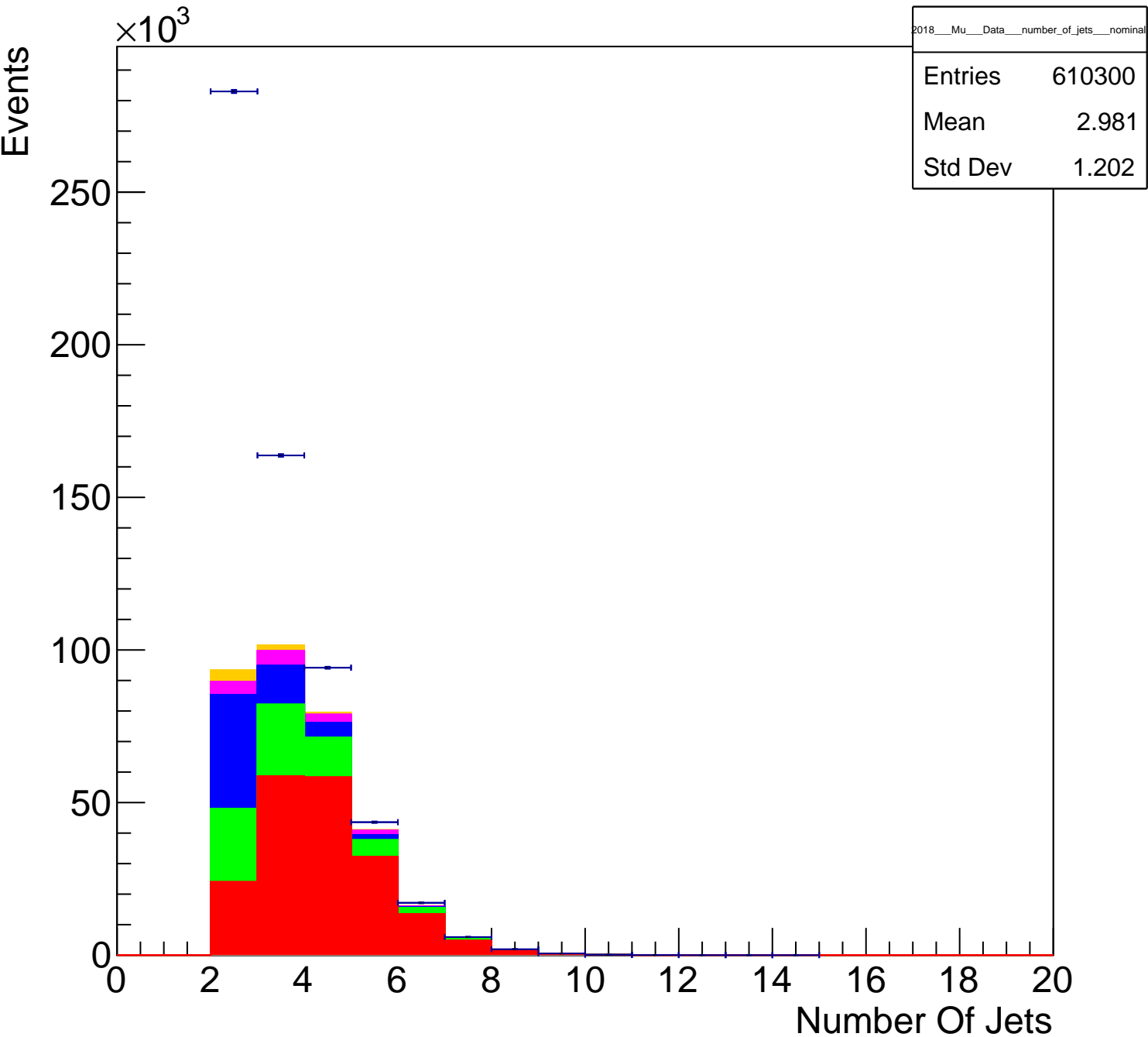
Leading Isolated Electron Charge After MET Cut



Number of Jets Before Jet Cut

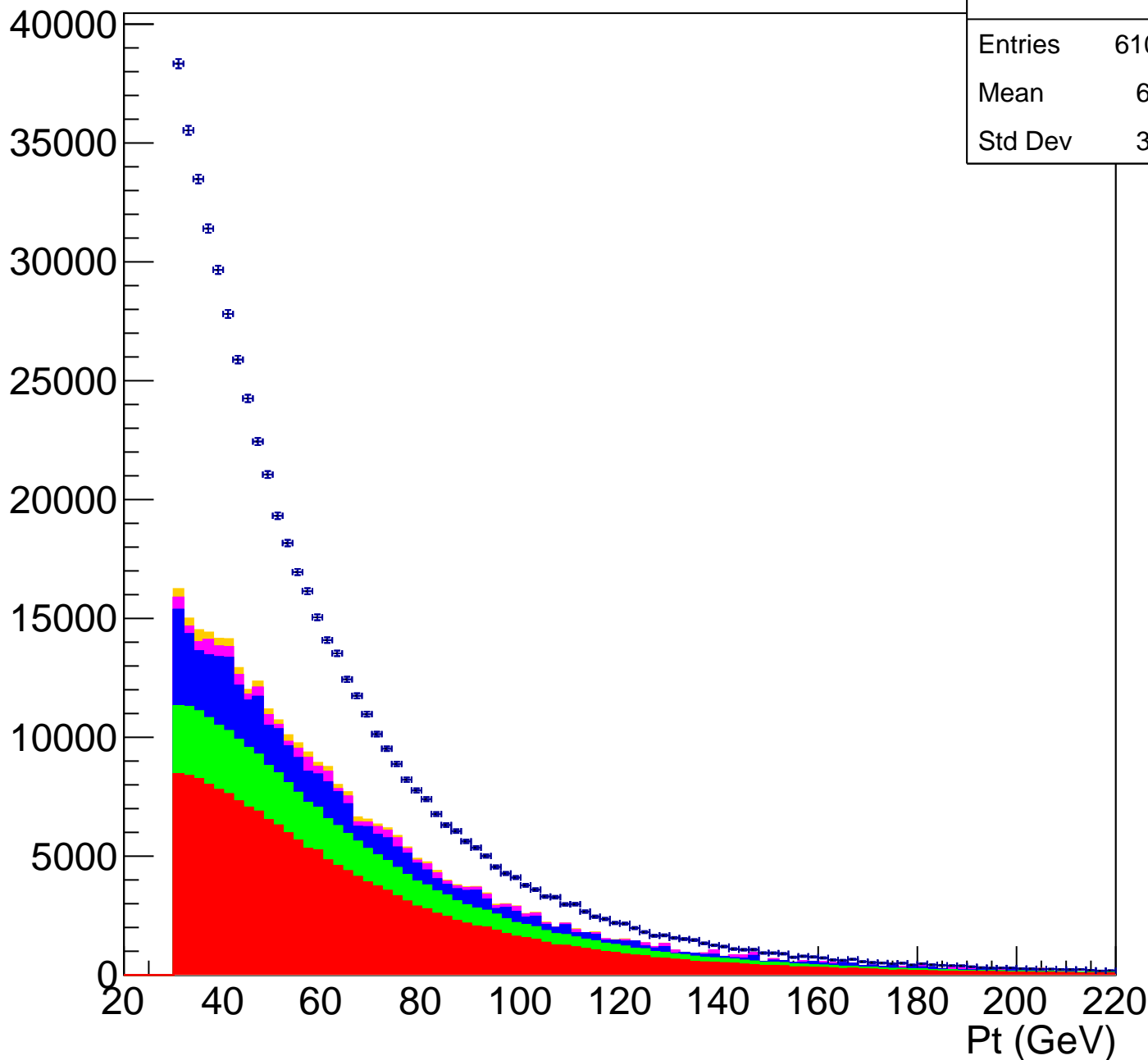


Number Of Jets

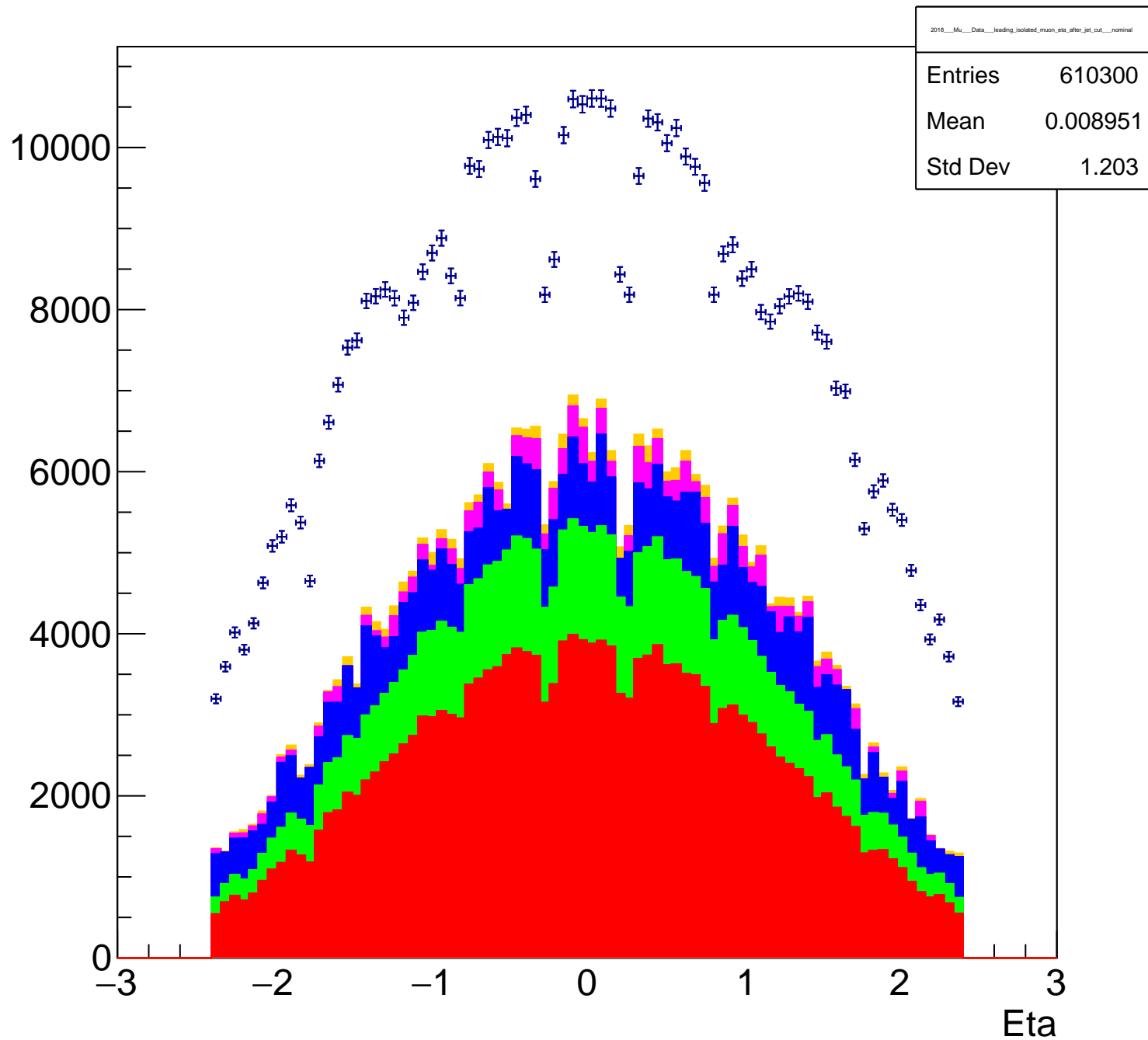


Leading Isolated Muon Transverse Momentum After Jet Cut

2018_Mu_Data_leading_isolated_muon_pt_after_jet_cut_nominal	
Entries	610300
Mean	61.39
Std Dev	31.62

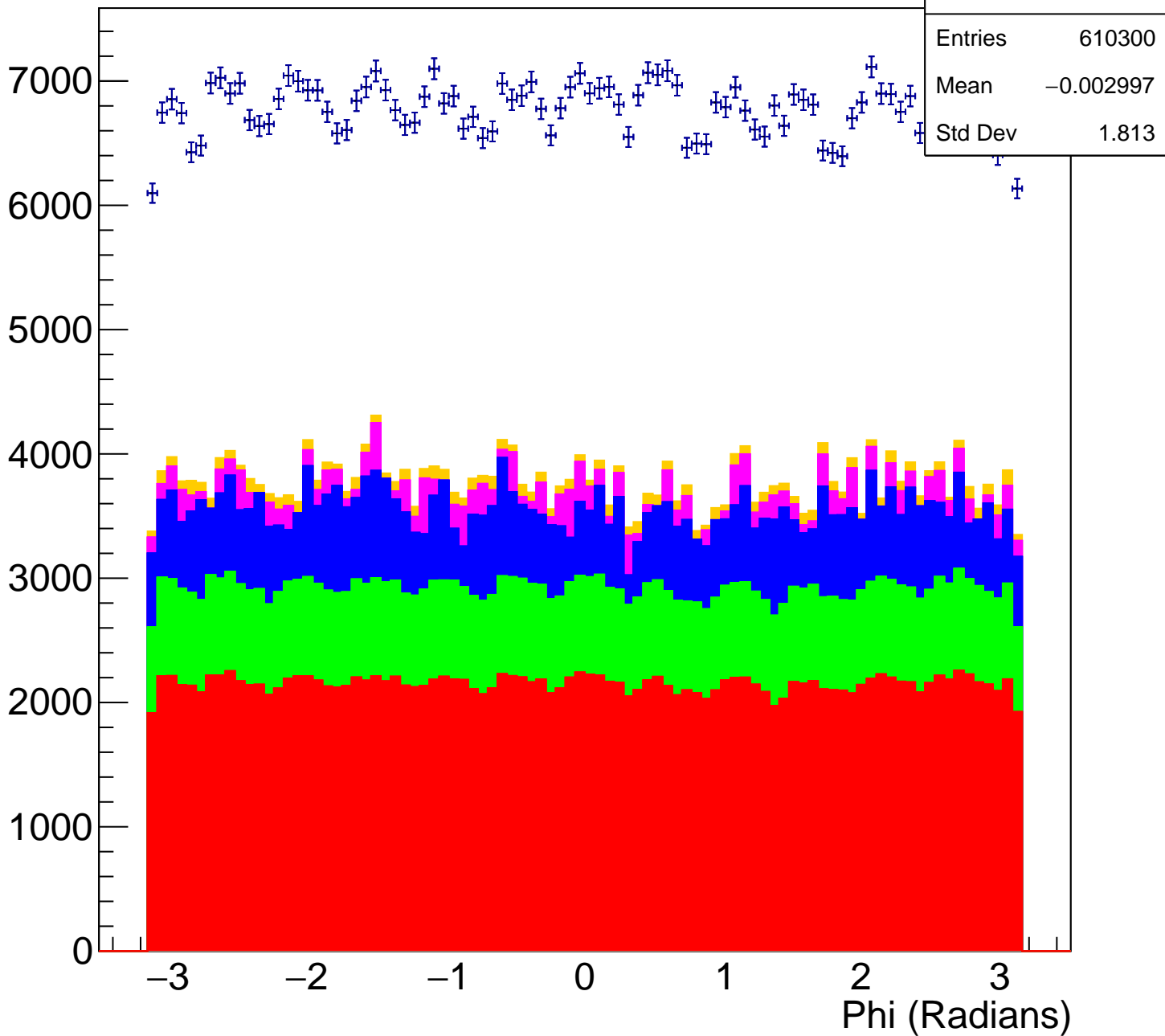


Leading Isolated Muon Pseudorapidity After Jet Cut

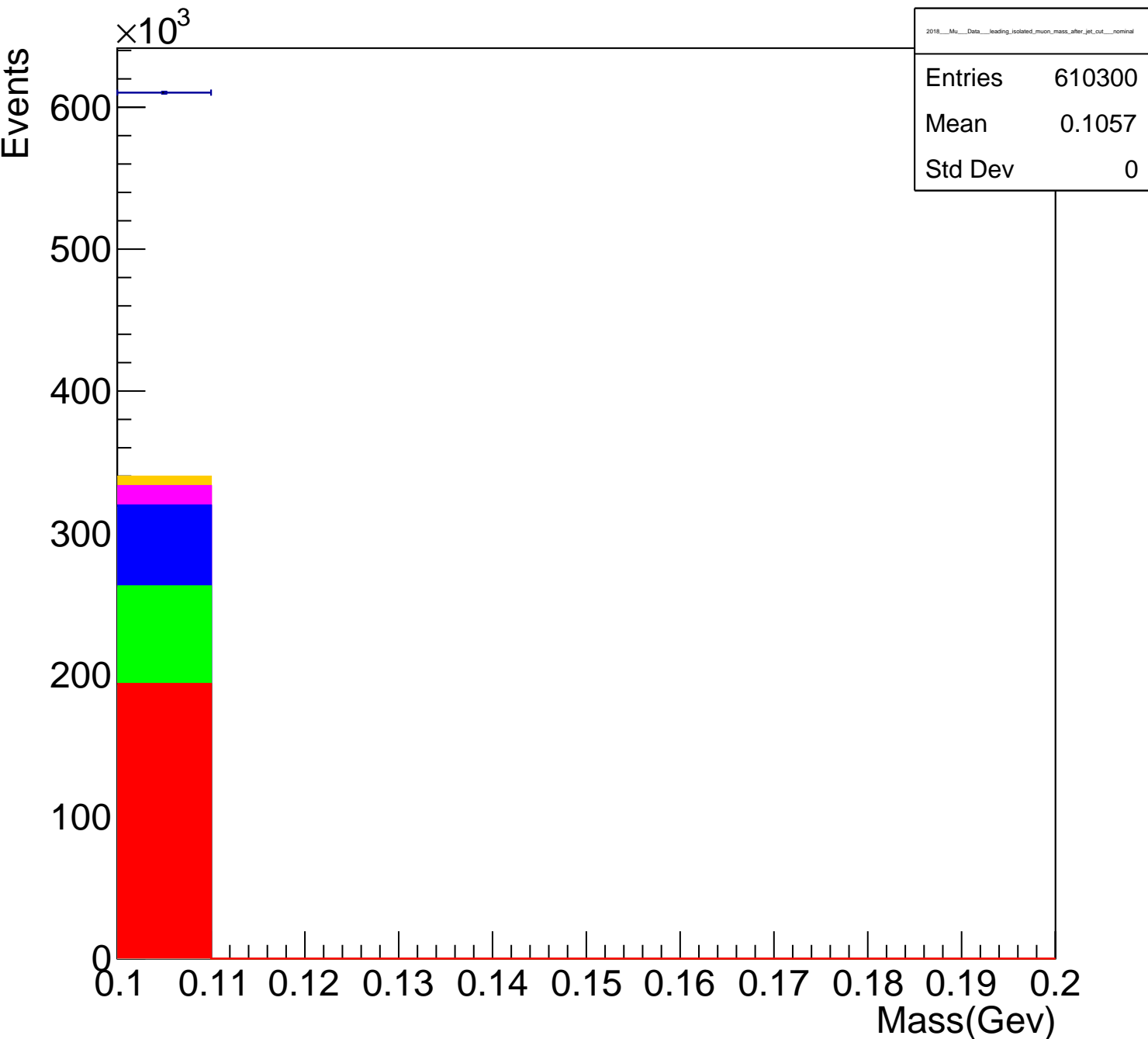


Leading Isolated Muon Angle After Jet Cut

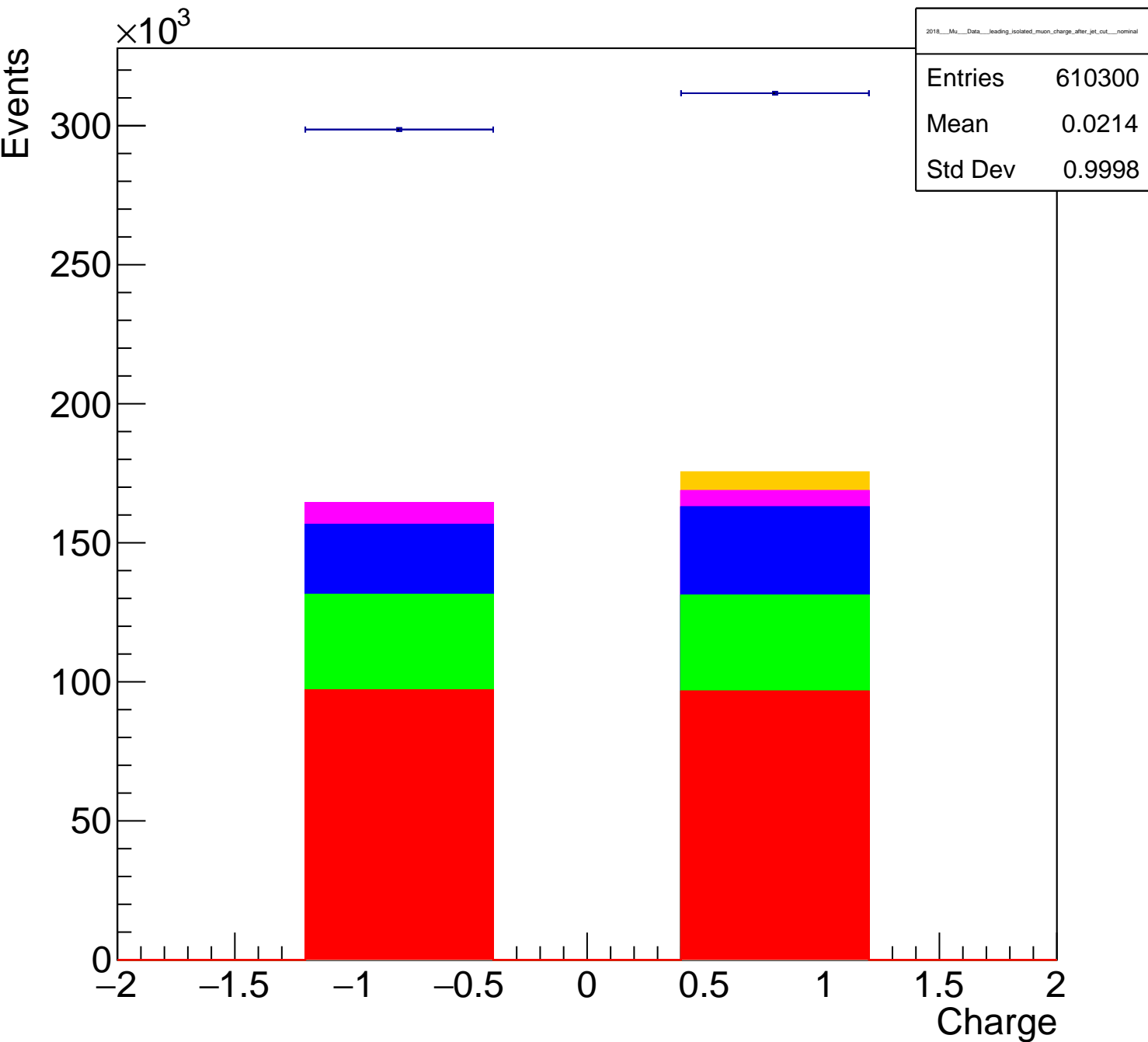
Events



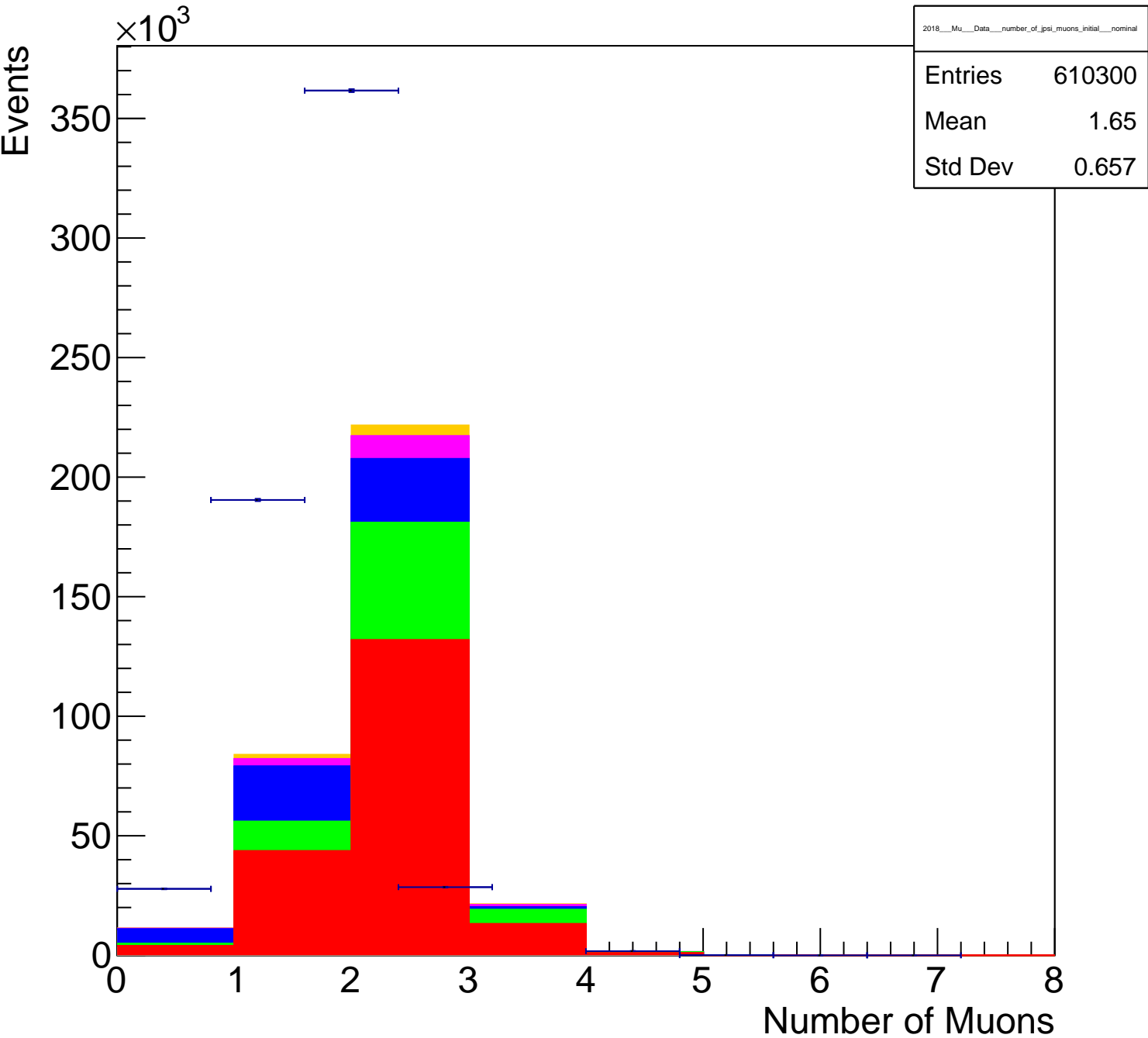
Leading Isolated Muon Mass After Jet Cut



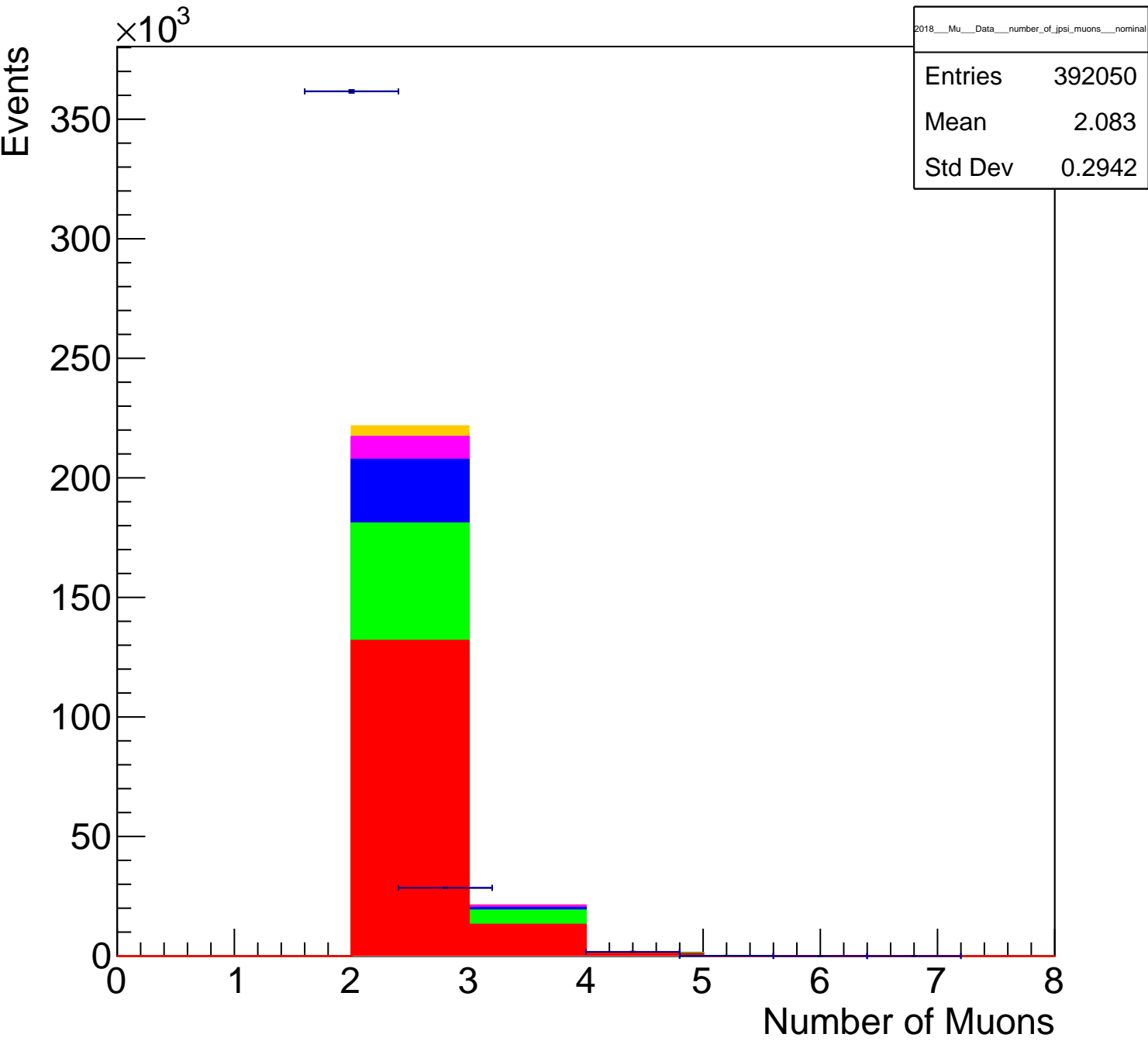
Leading Isolated Muon Charge After Jet Cut



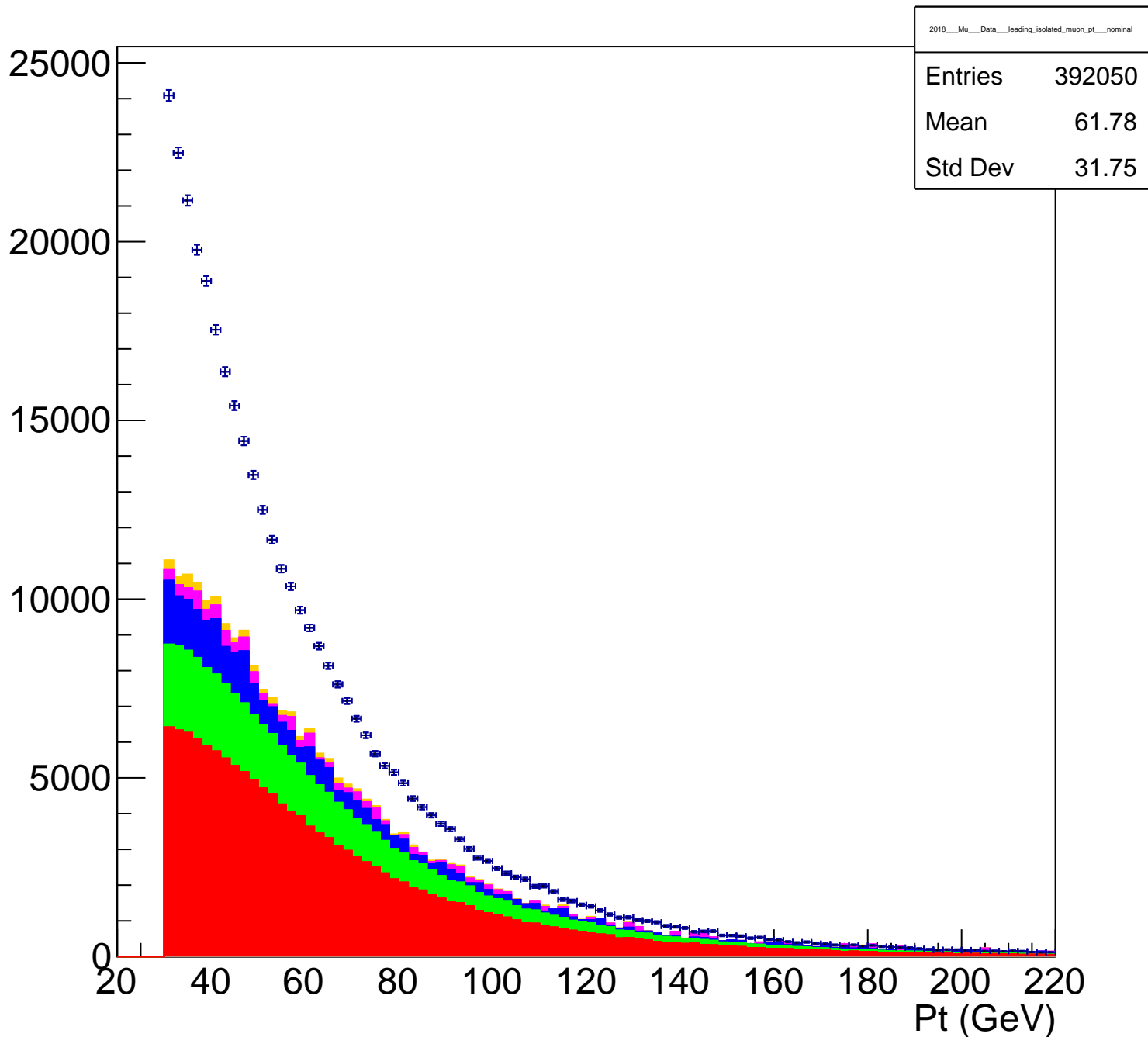
Number of JPsi Muons Before JPsi Muon Cut



Number of JPsi Muons



Leading Isolated Muon Transverse Momentum



Leading Isolated Muon Pseudorapidity

Events

7000
6000
5000
4000
3000
2000
1000
0

-3

-2

-1

0

1

2

3

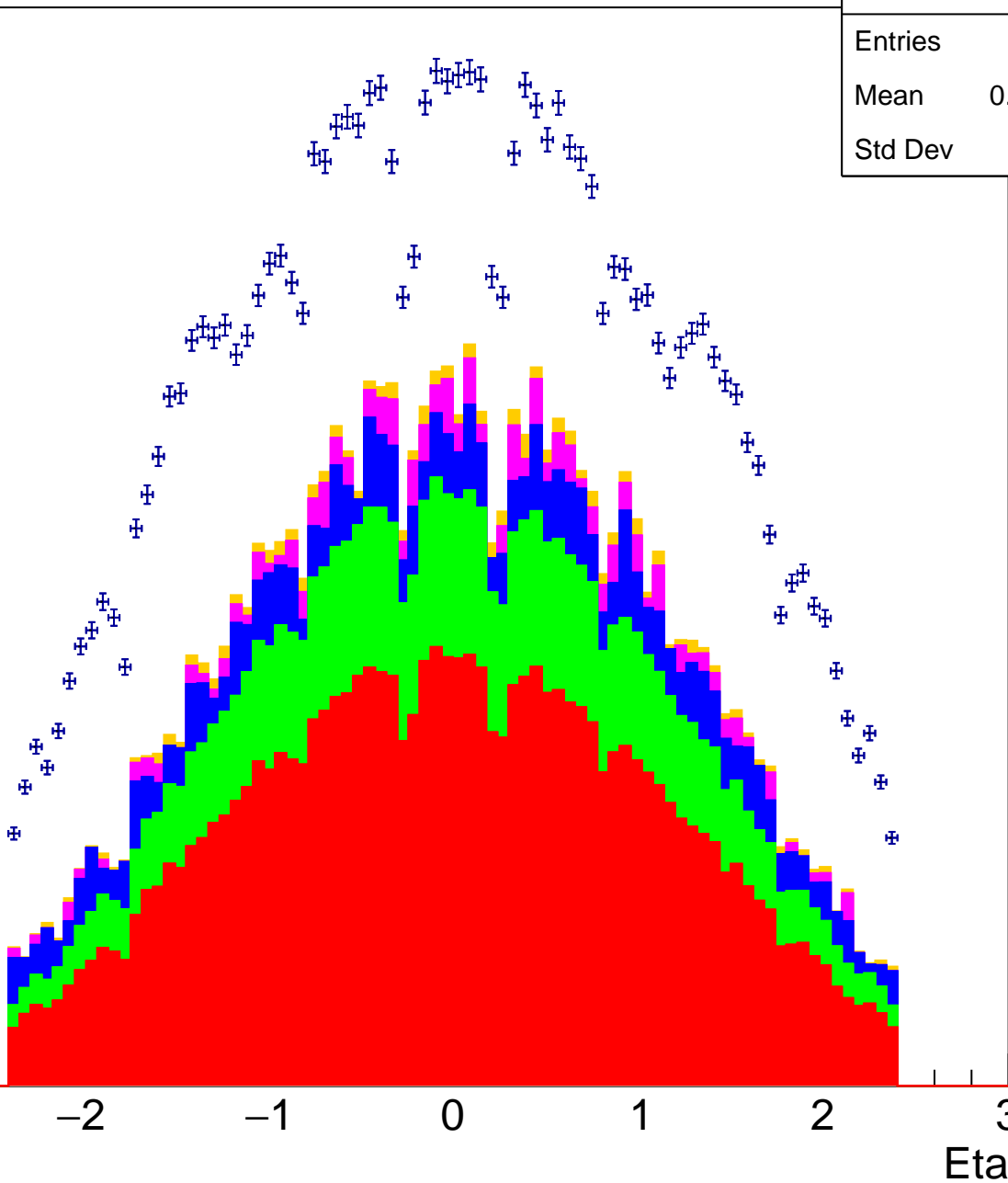
Eta

2018_Mu_Data_leading_isolated_muon_eta_nominal

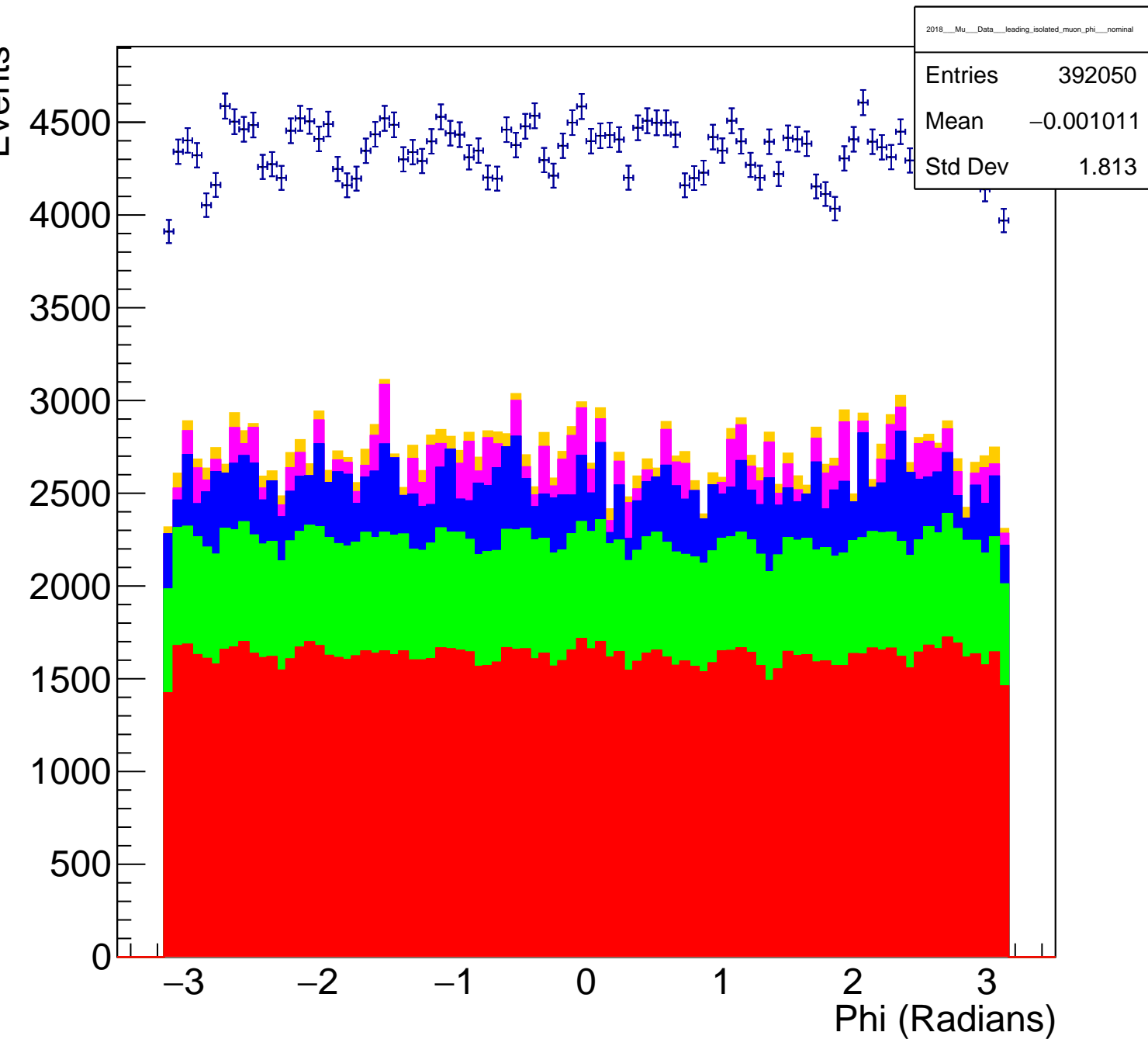
Entries 392050

Mean 0.006202

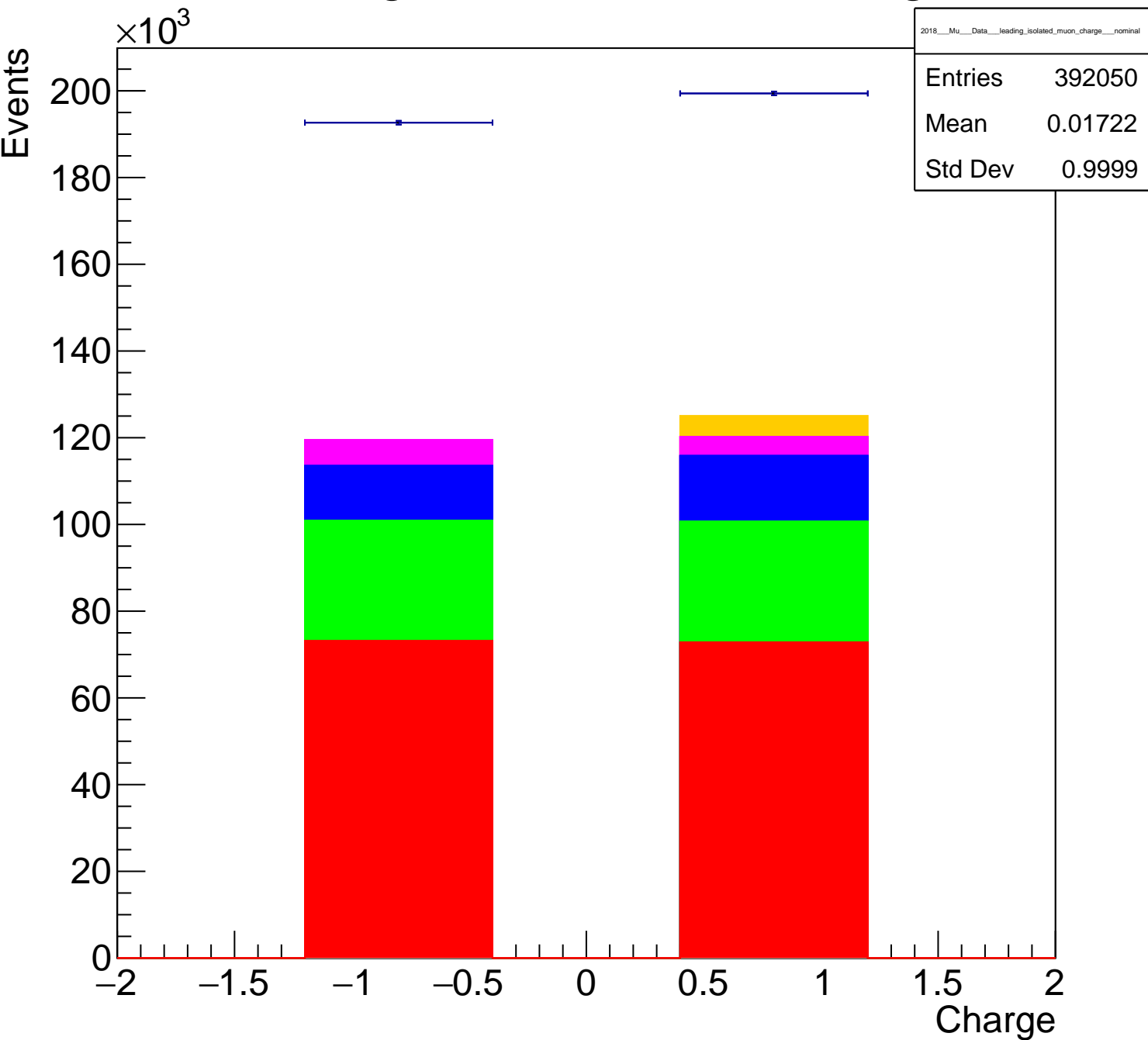
Std Dev 1.178



Leading Isolated Muon Angle



Leading Isolated Muon Charge

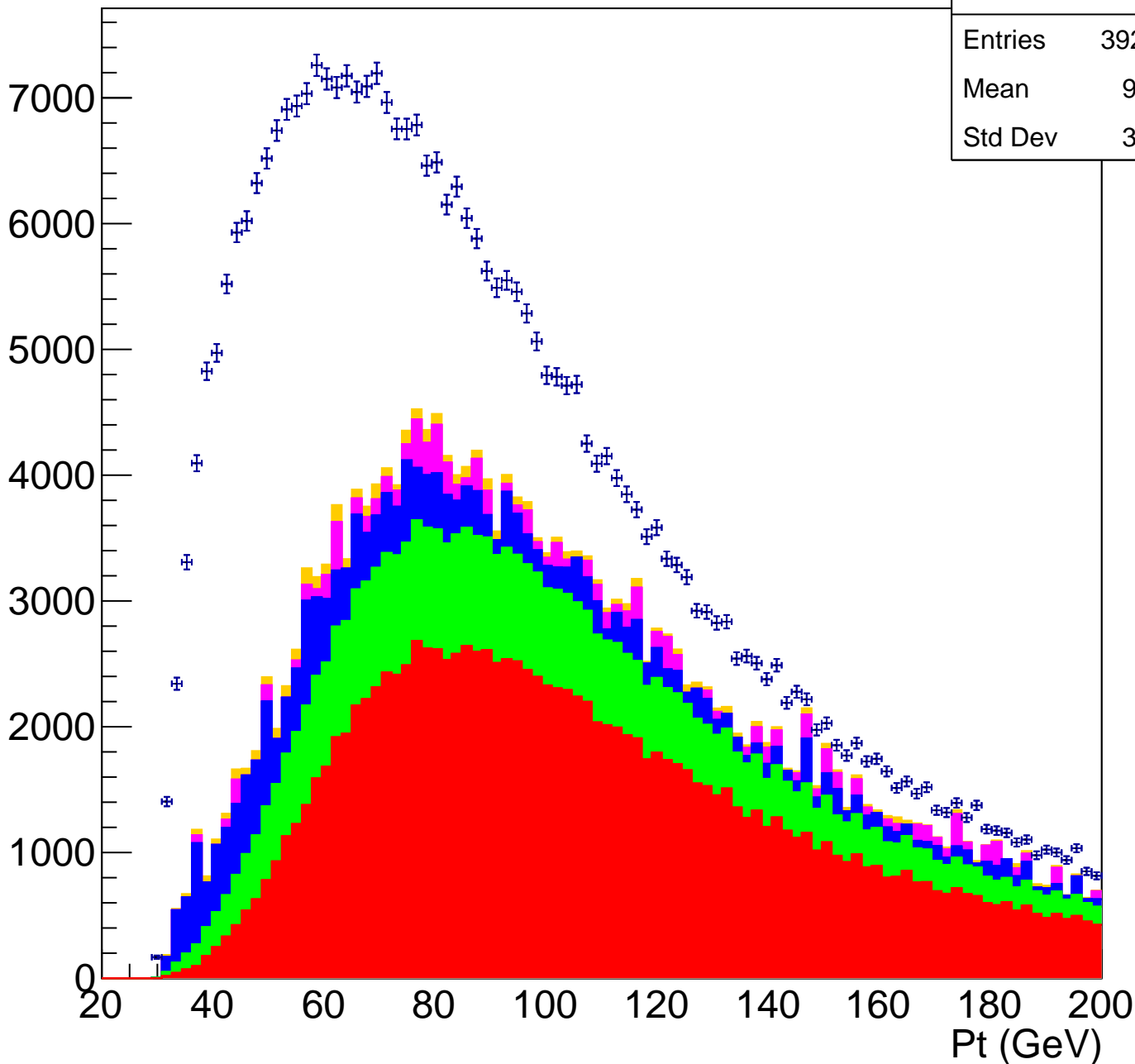


Jet Transverse Momentum for Leading Jet

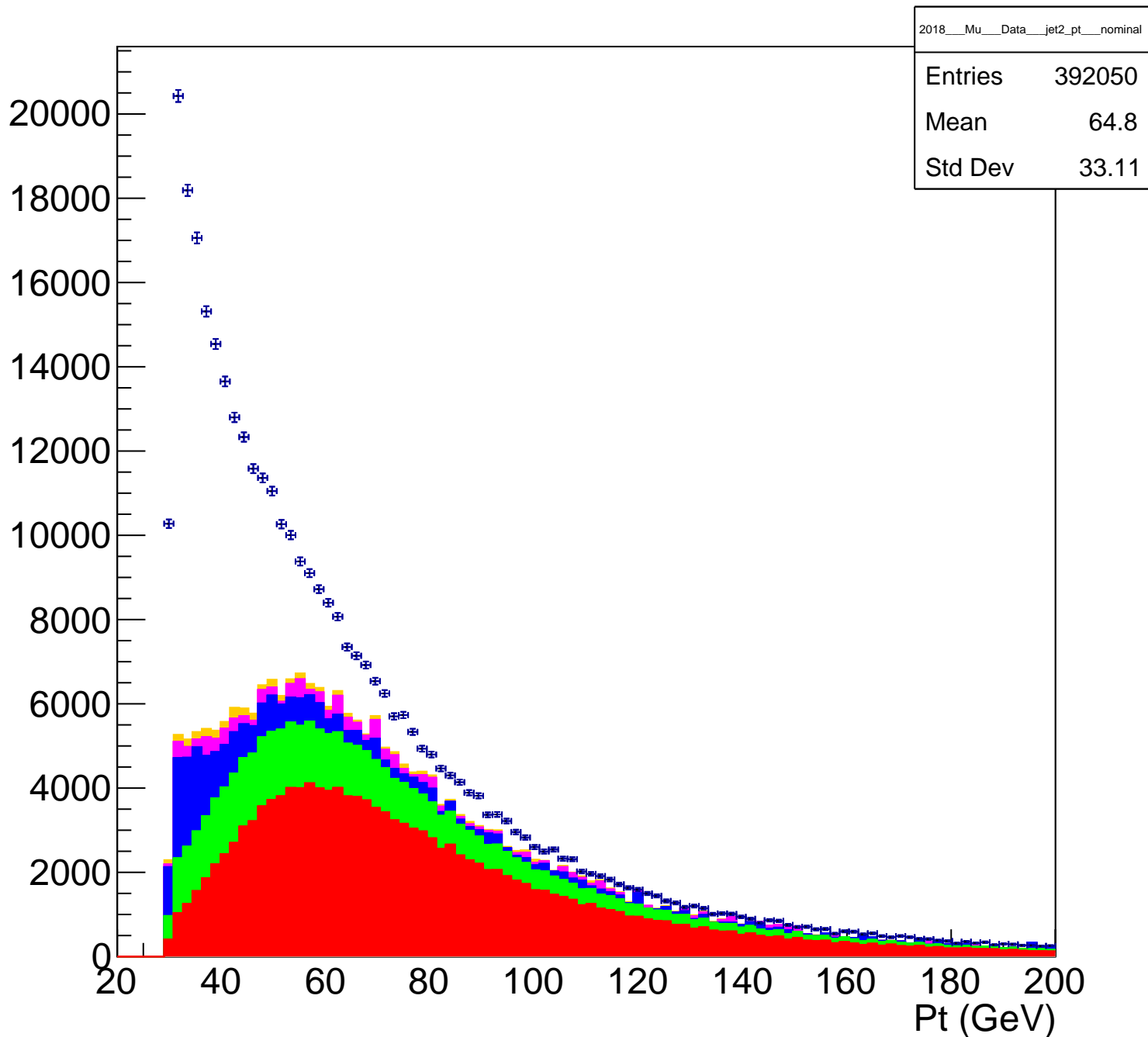
Events

2018__Mu__Data__jet1_pt__nominal

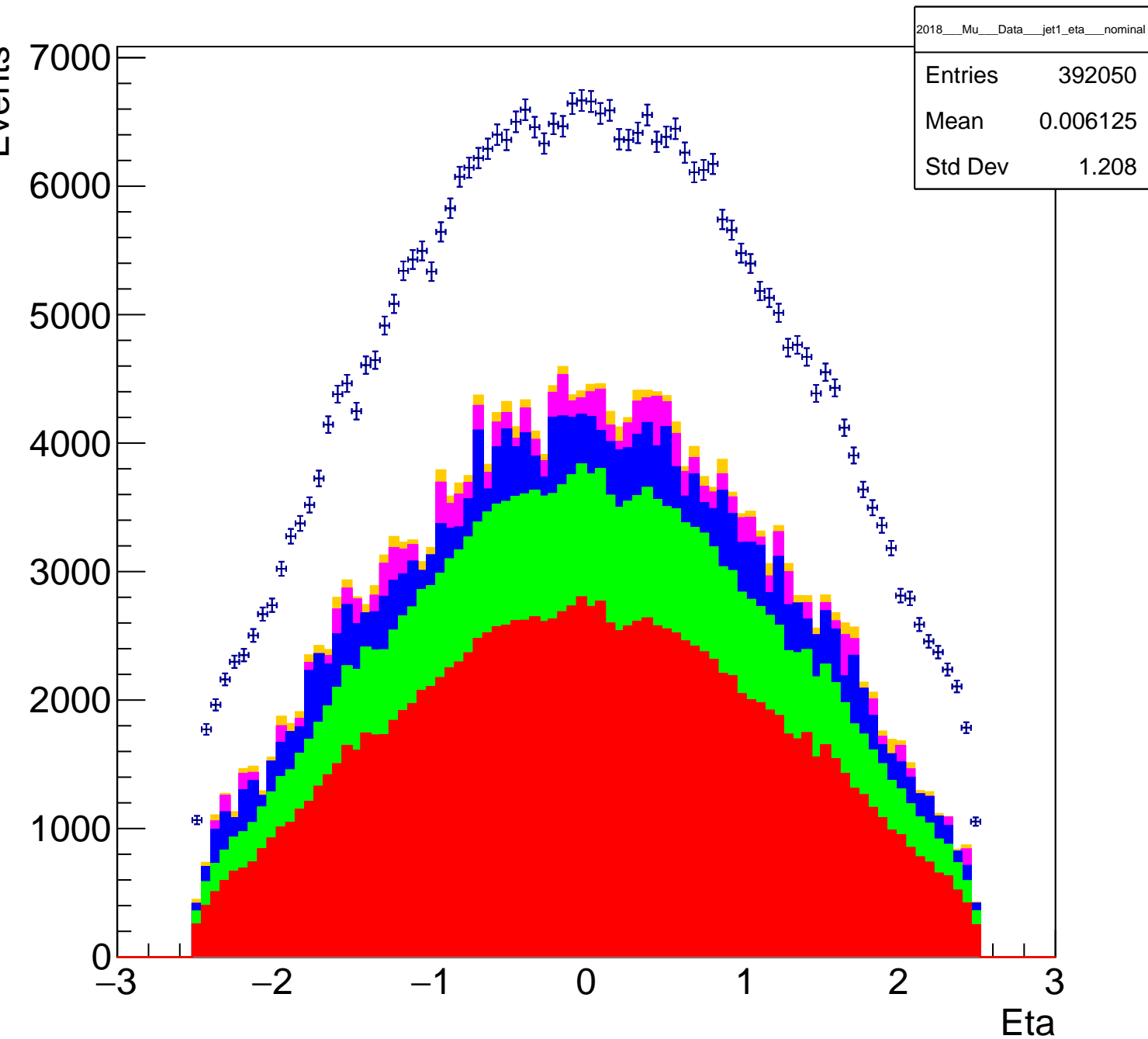
Entries	392050
Mean	91.68
Std Dev	39.59



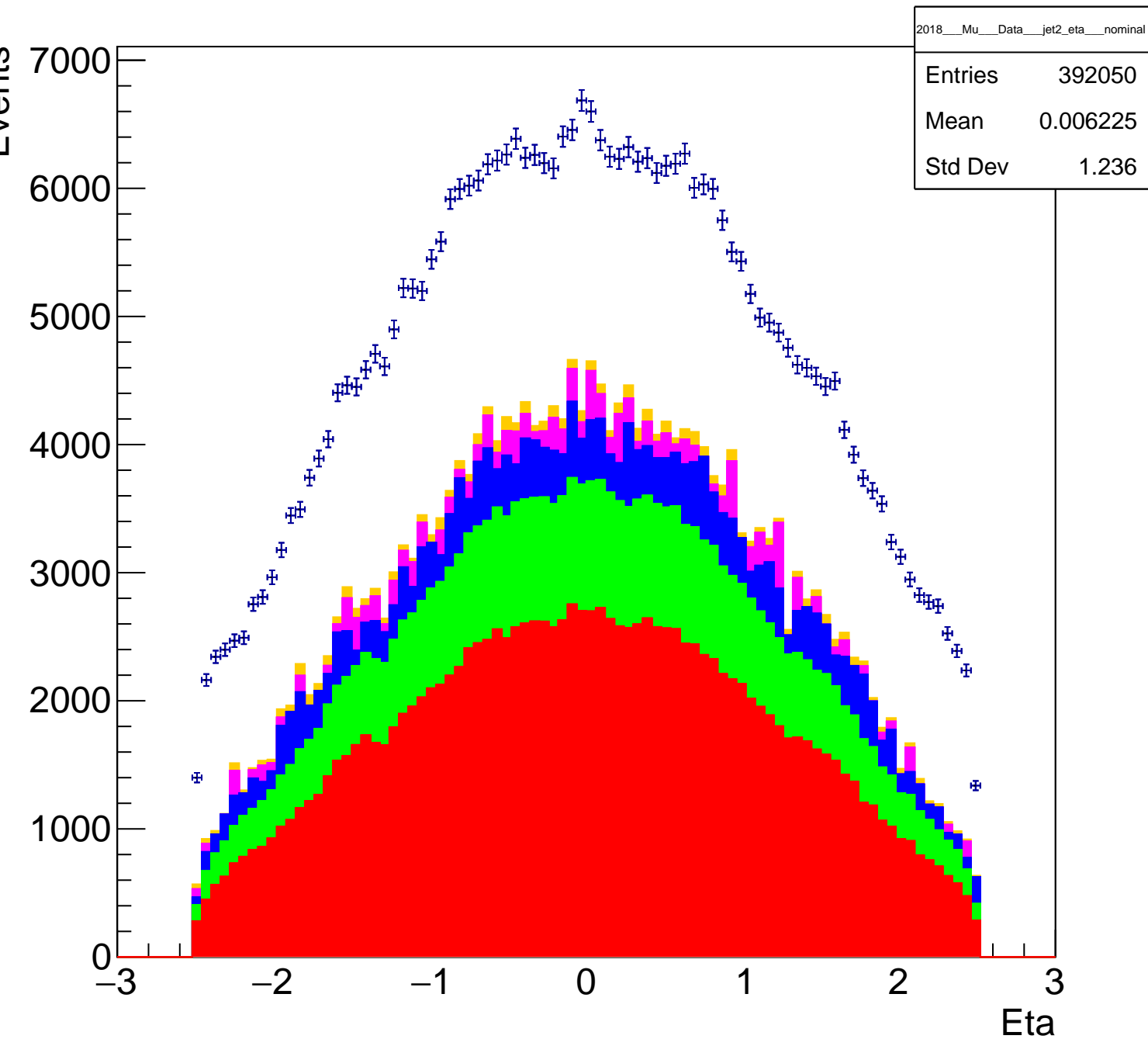
Jet Transverse Momentum for Subleading Jet



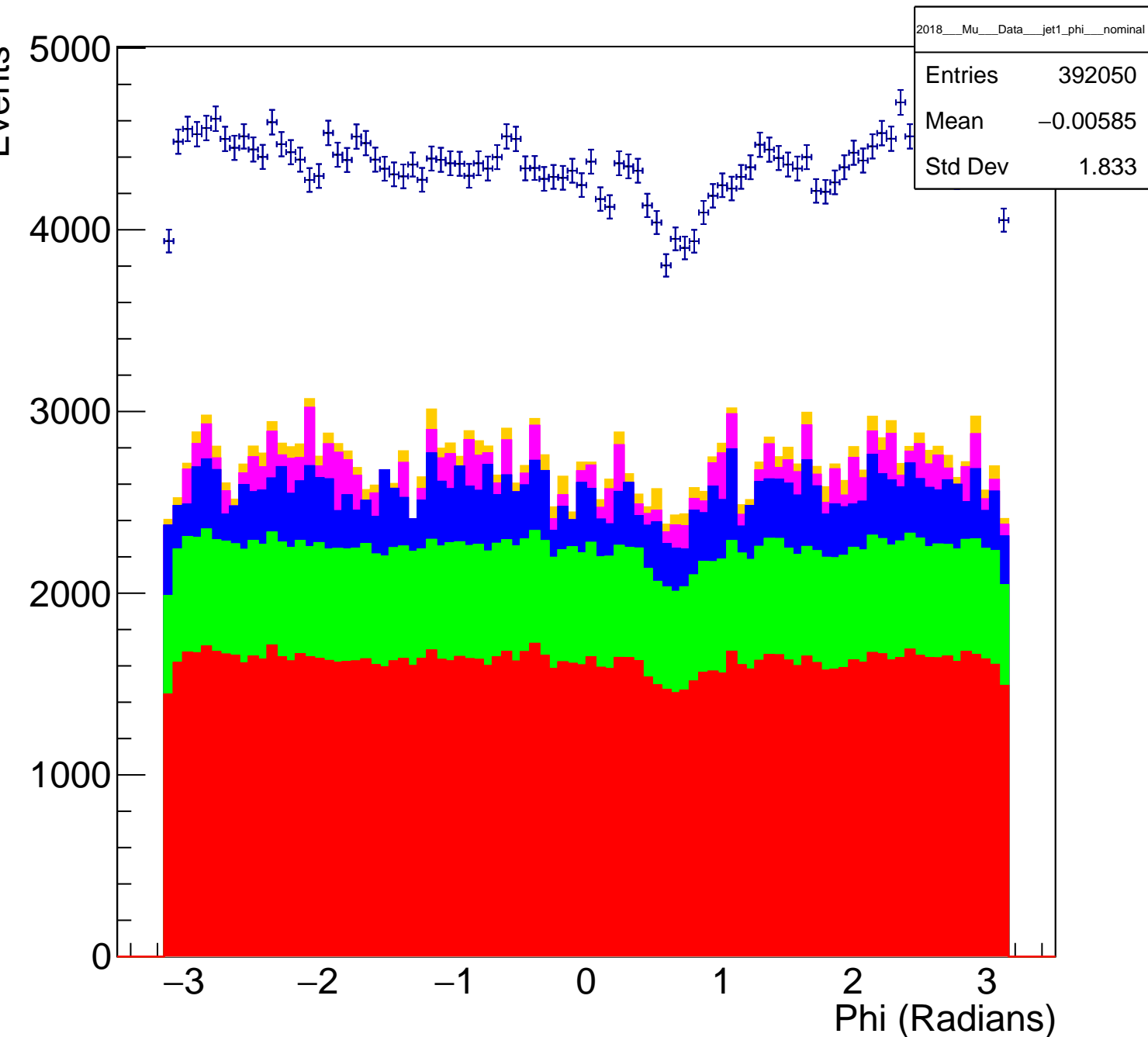
Jet Pseudorapidity for Leading Jet



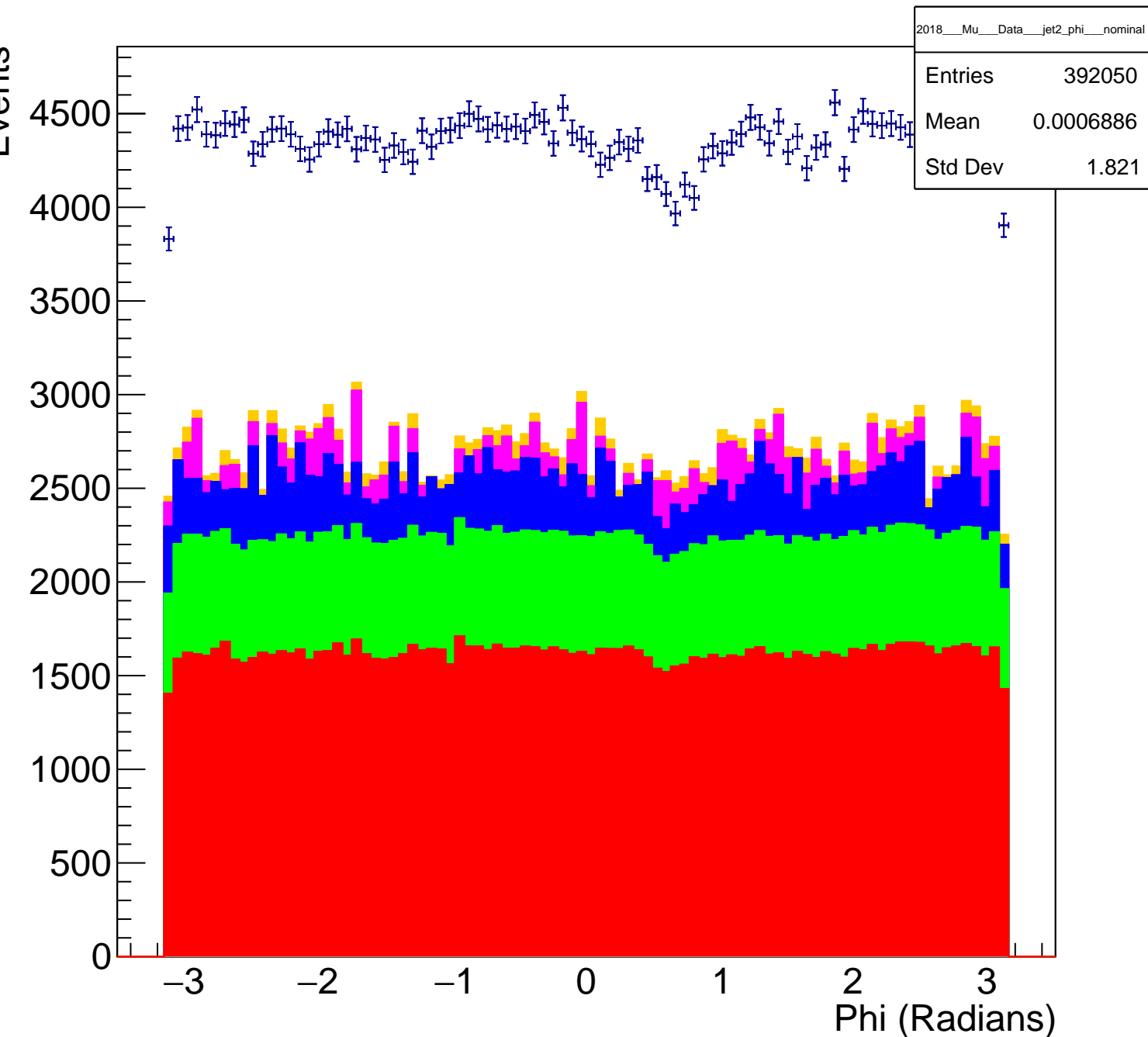
Jet Pseudorapidity for Subleading Jet



Jet Angle for Leading Jet



Jet Angle for Subleading Jet



Transverse Mass

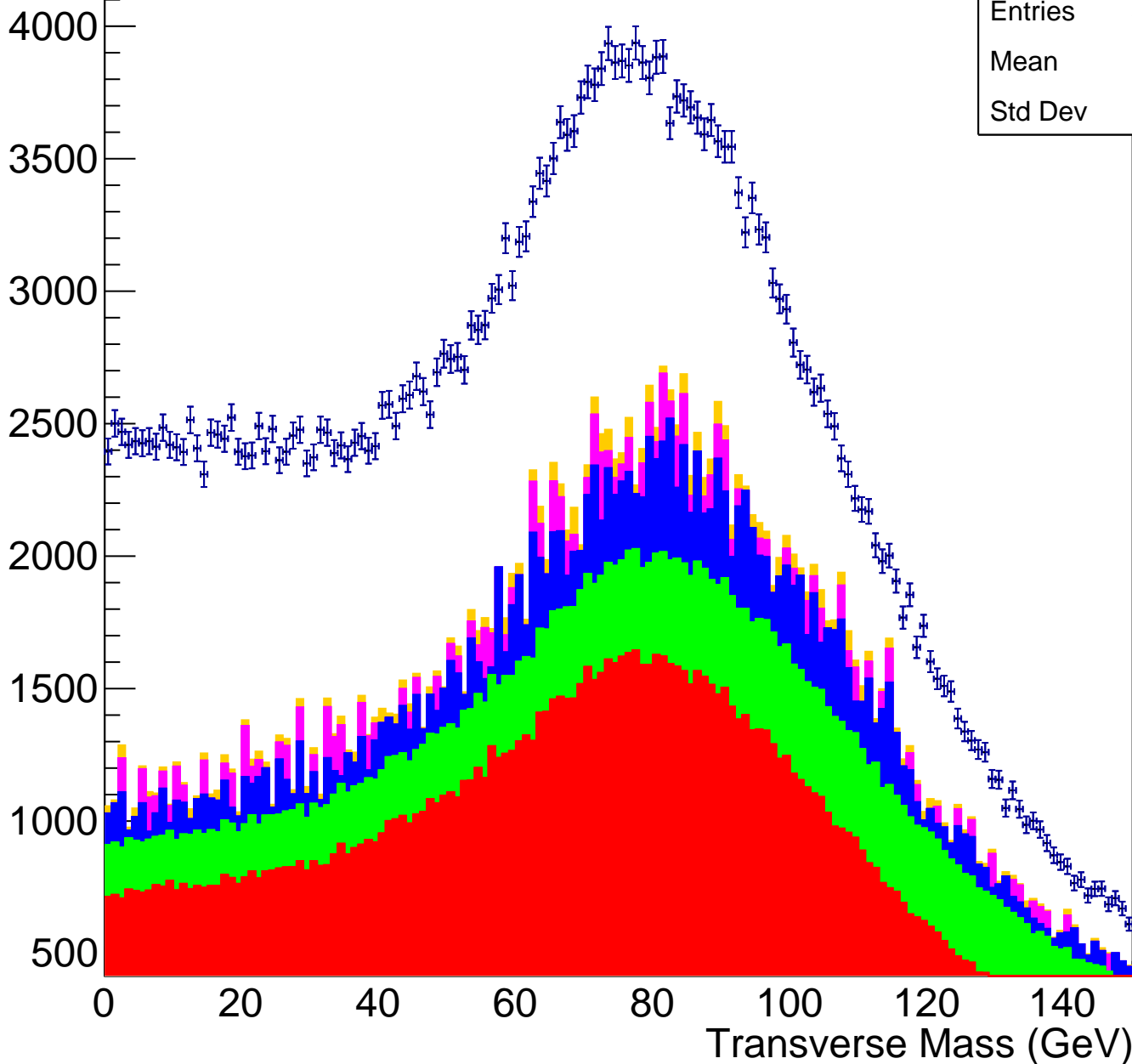
Events

2018__Mu__Data__transverse_mass__nominal

Entries 392050

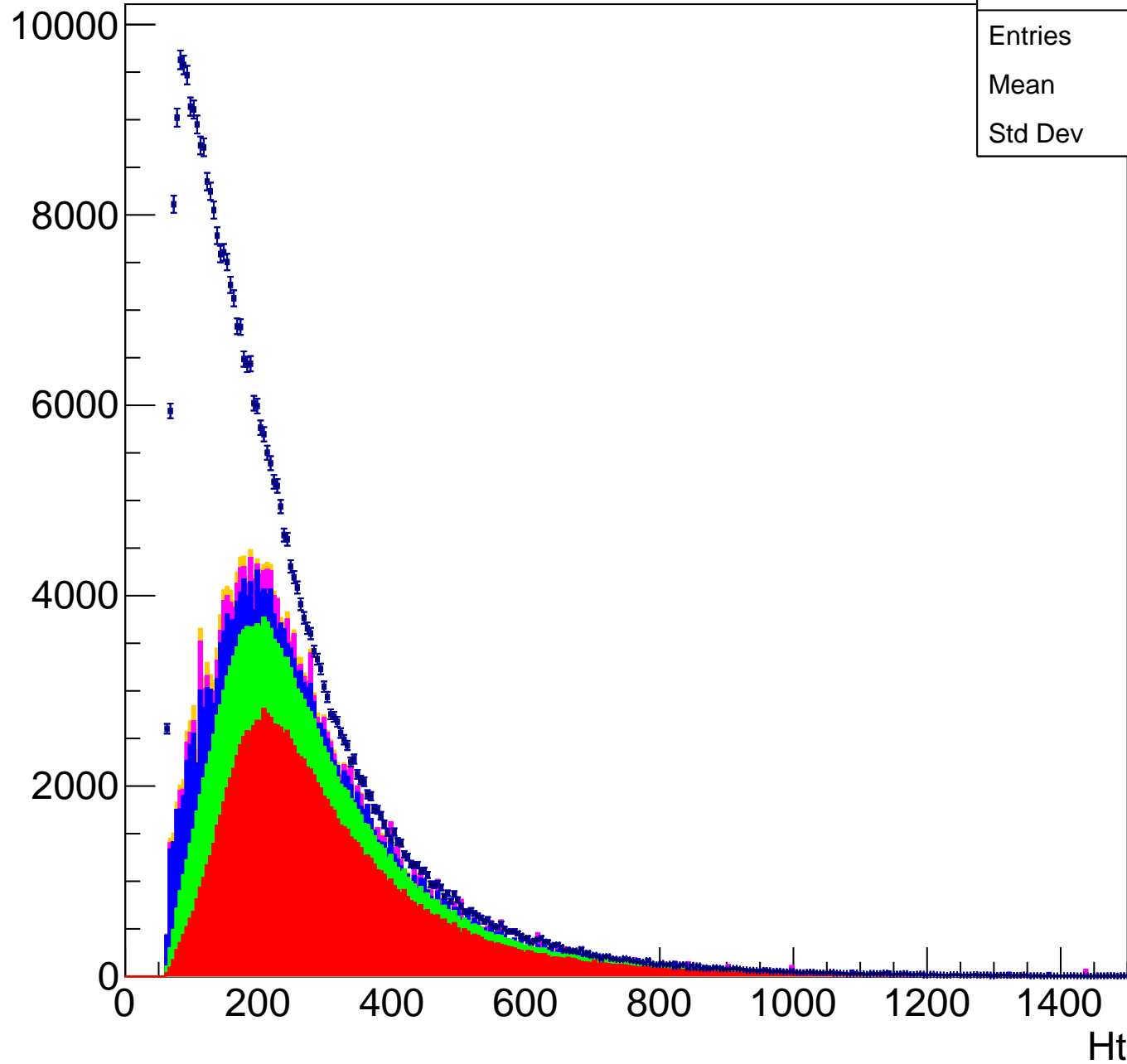
Mean 67.67

Std Dev 36.81

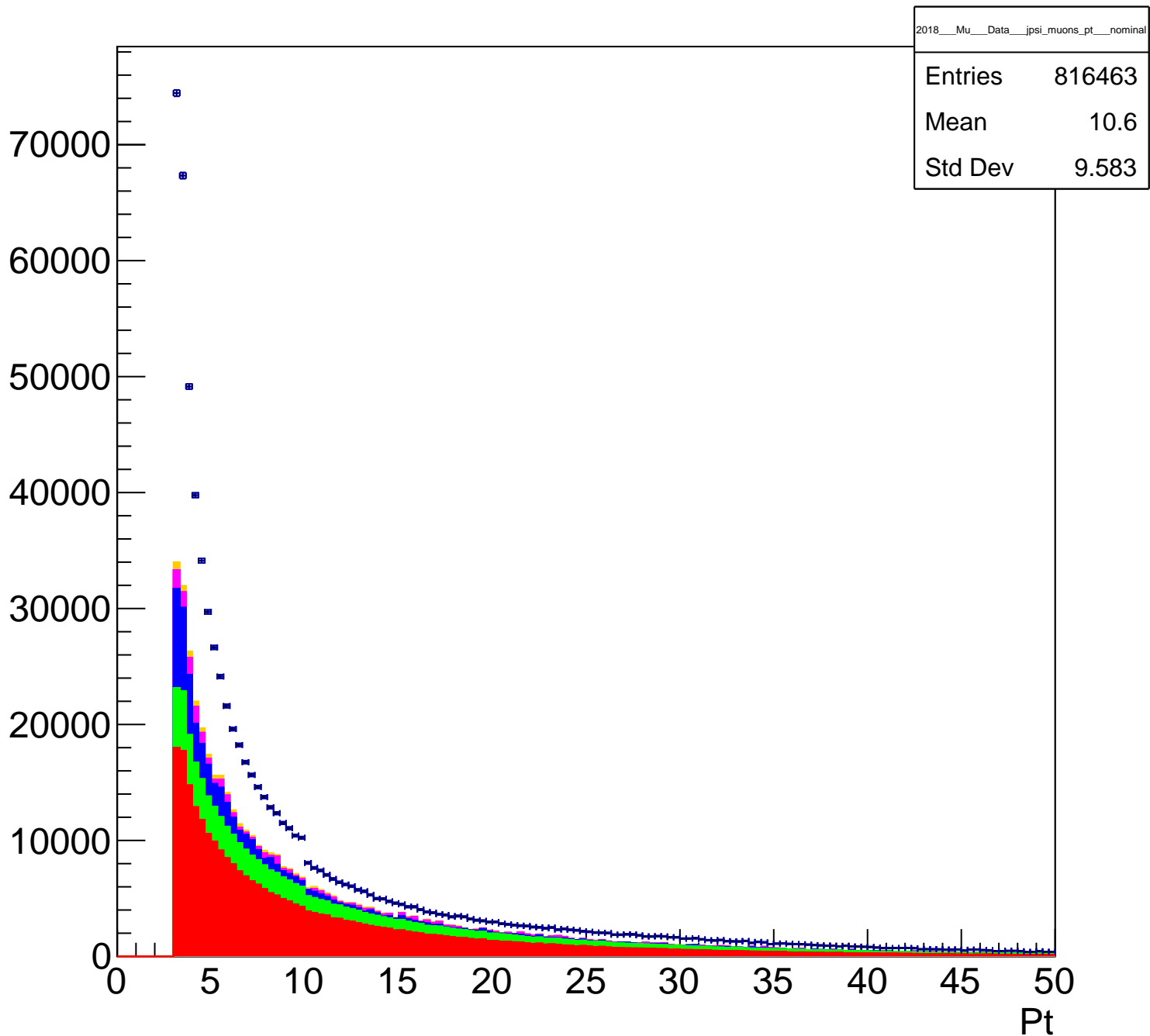


Ht

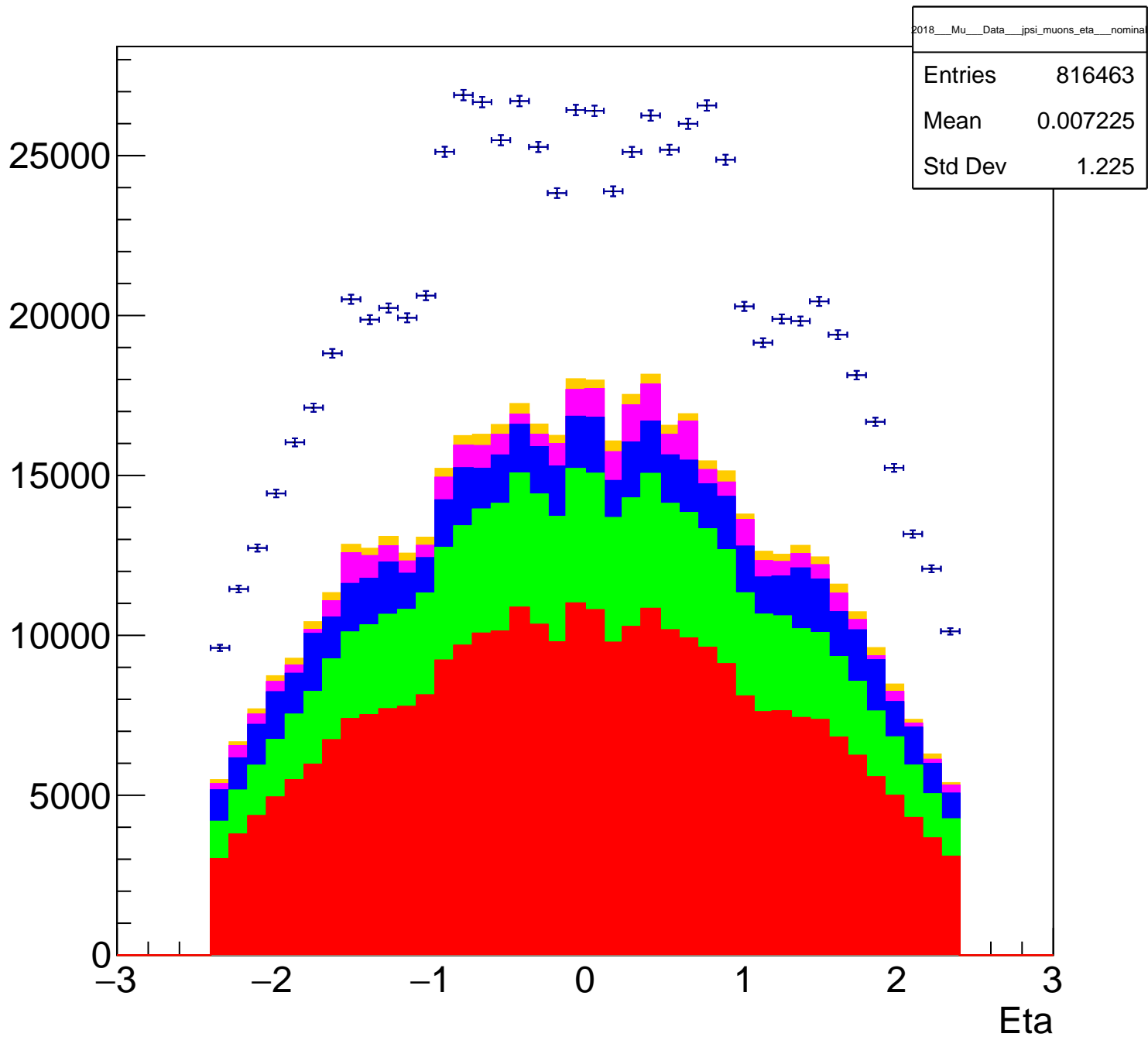
2018__Mu__Data__ht__nominal	
Entries	392050
Mean	231.9
Std Dev	163.9



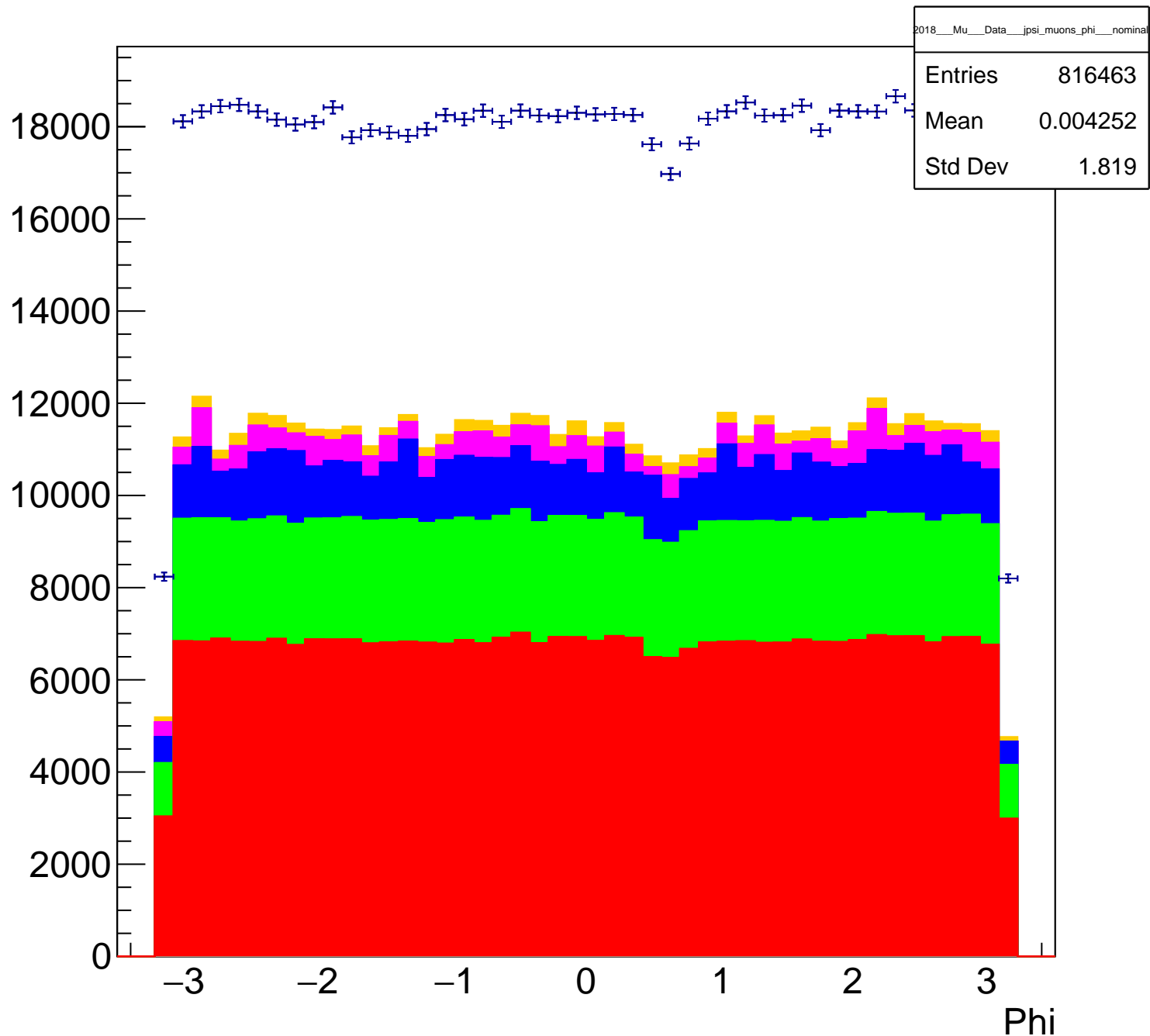
Transverse Momentum for JPsi Muons



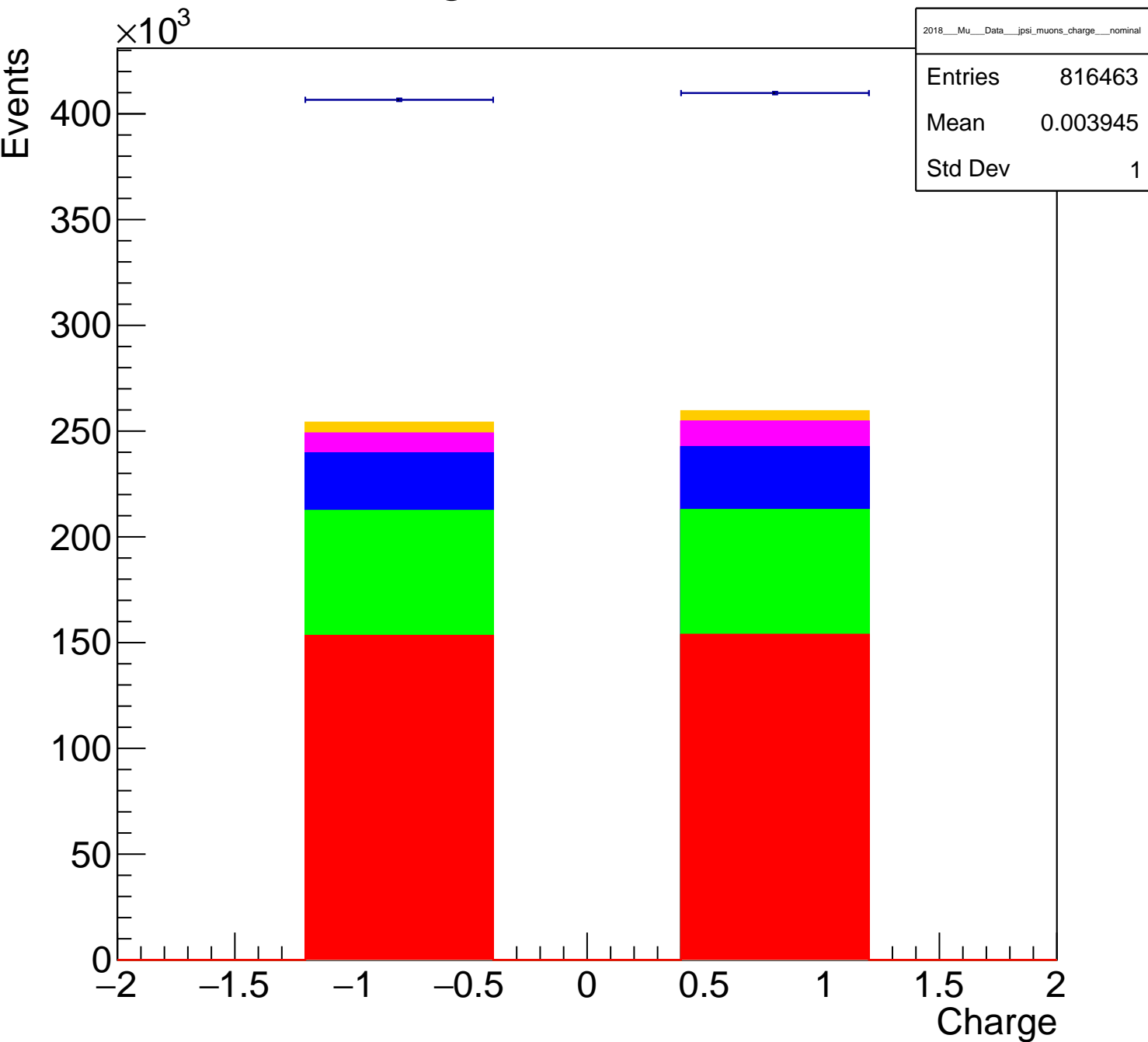
Pseudorapidity for JPsi Muons



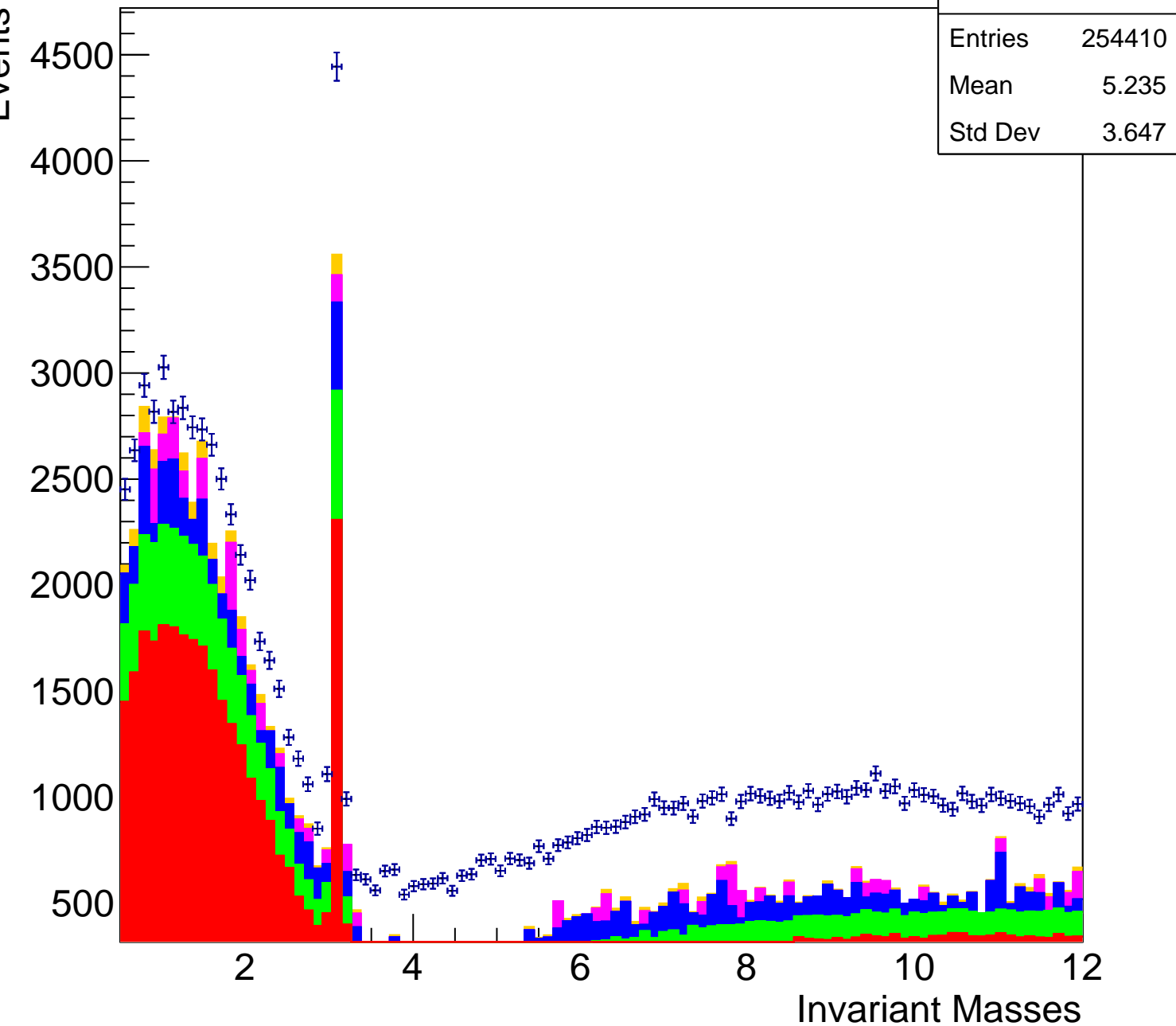
Angle for JPsi Muons



Charge of JPsi Muons

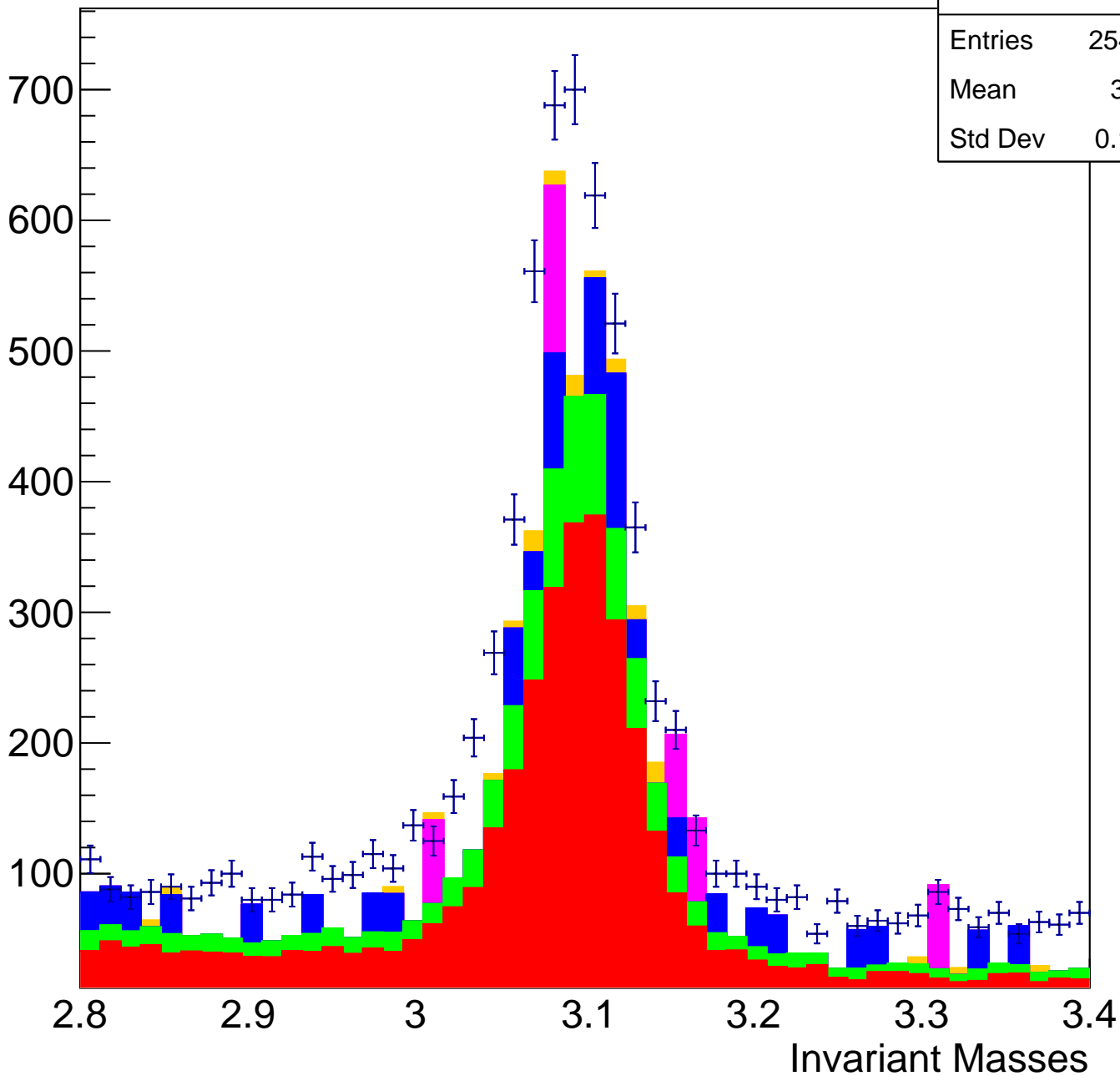


Invariant Masses for J/Psi Candidate Muons (Oppositely Charged)



Invariant Masses for J/Psi Candidate Muons (Oppositely Charged)

Events

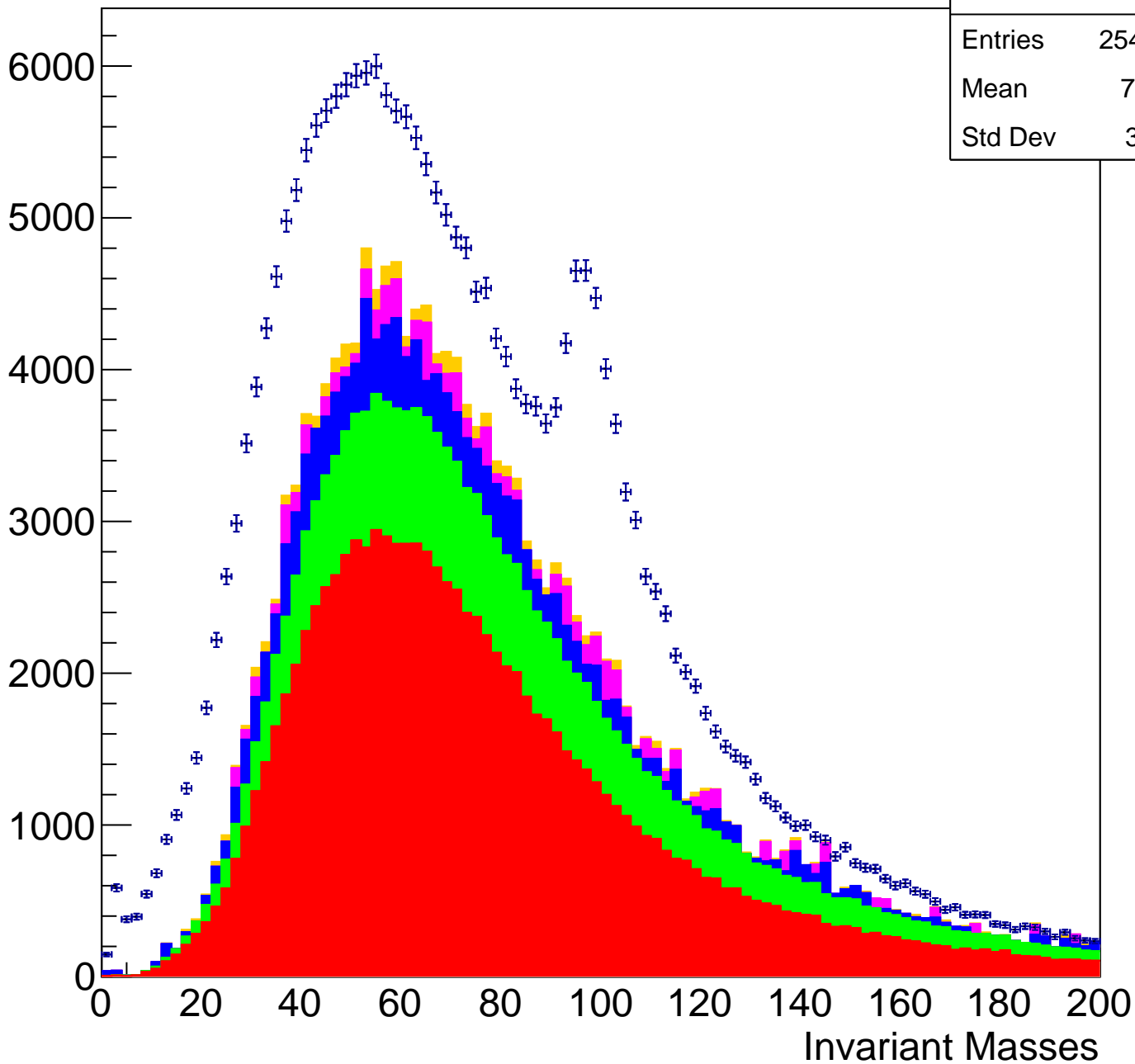


Invariant Masses for J/Psi Candidate And Isolated Muons

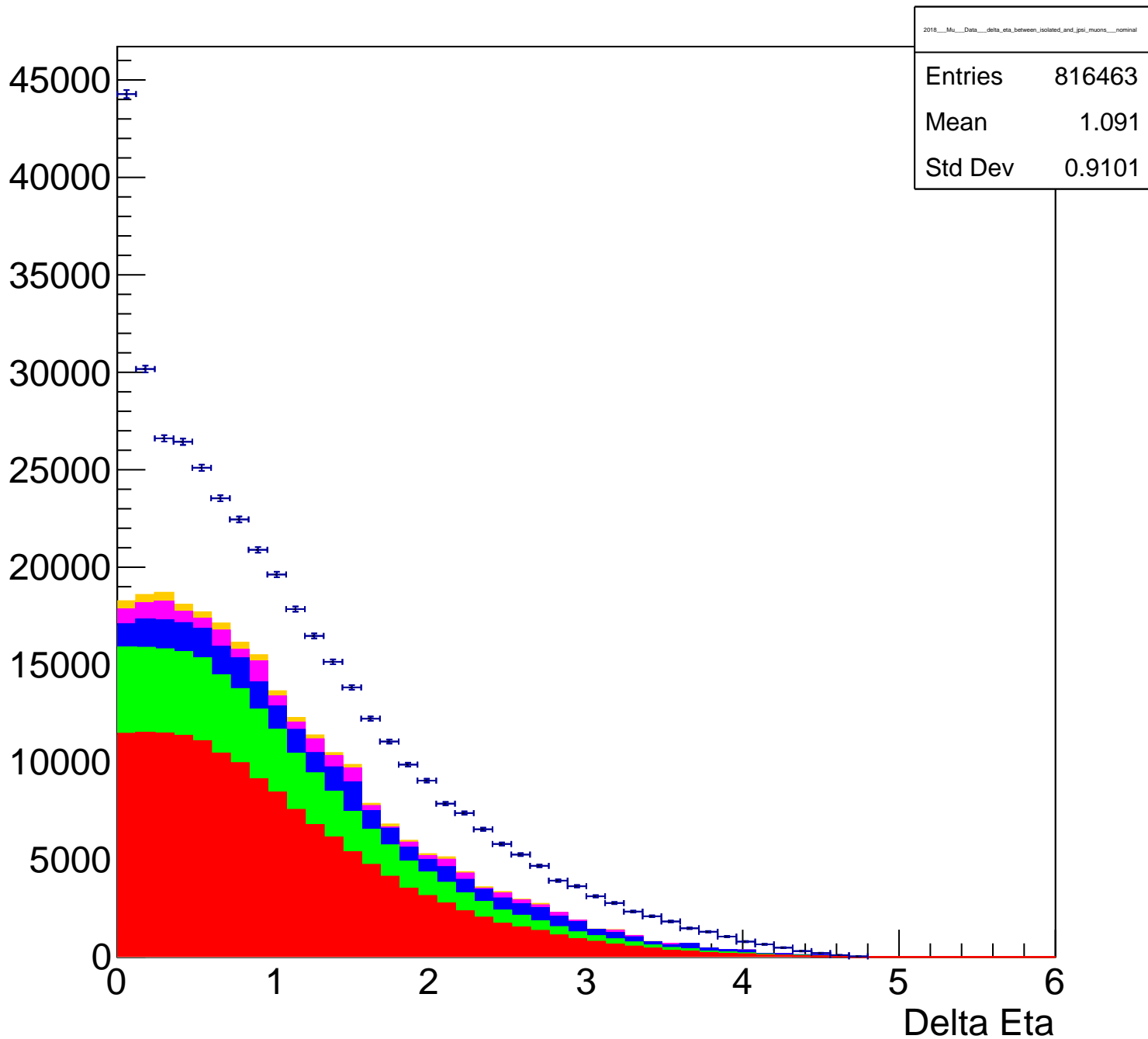
Events

2018_Mu_Data_invariant_mass_psi_and_isolated_muons_nominal

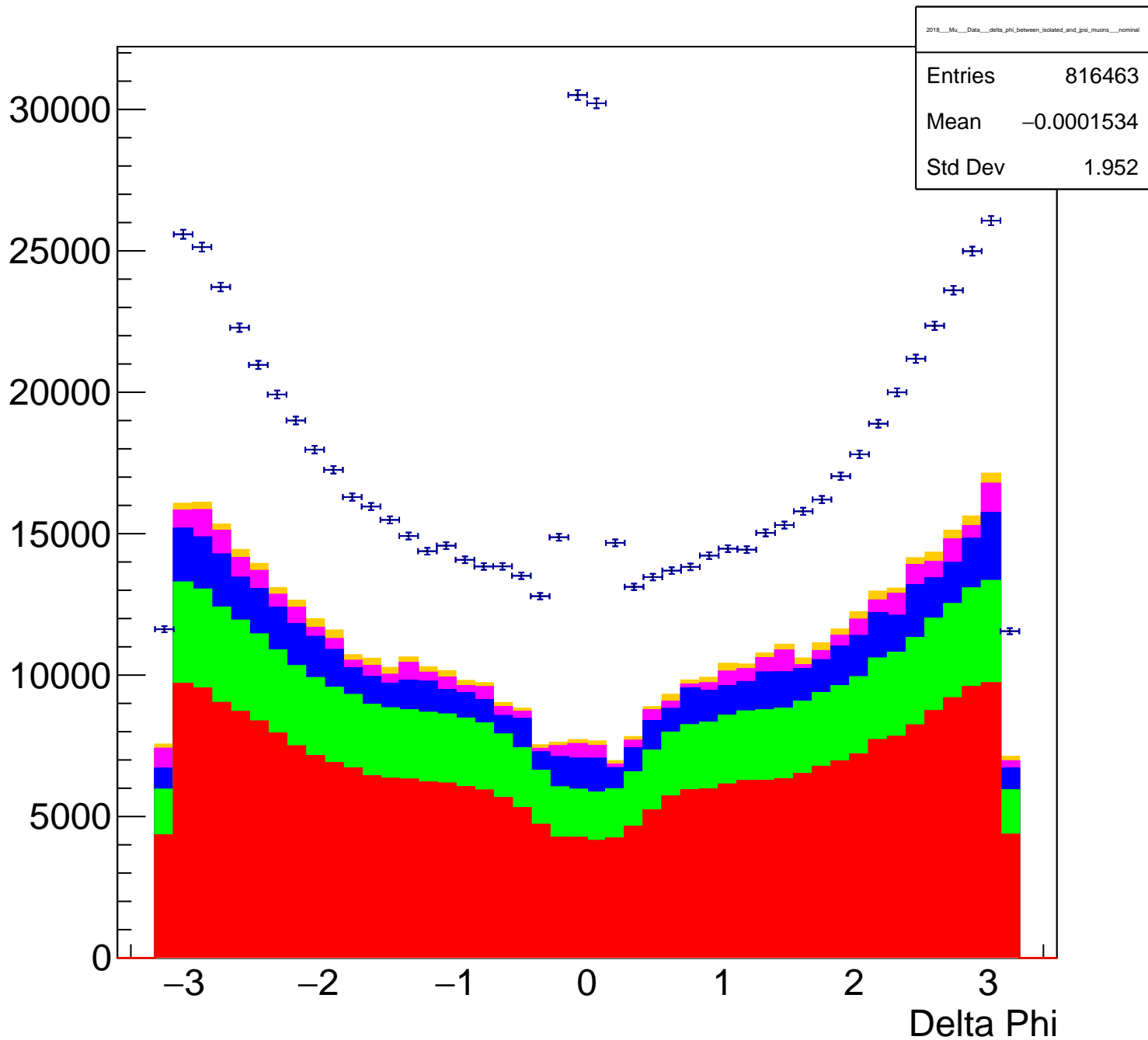
Entries	254410
Mean	74.59
Std Dev	37.21



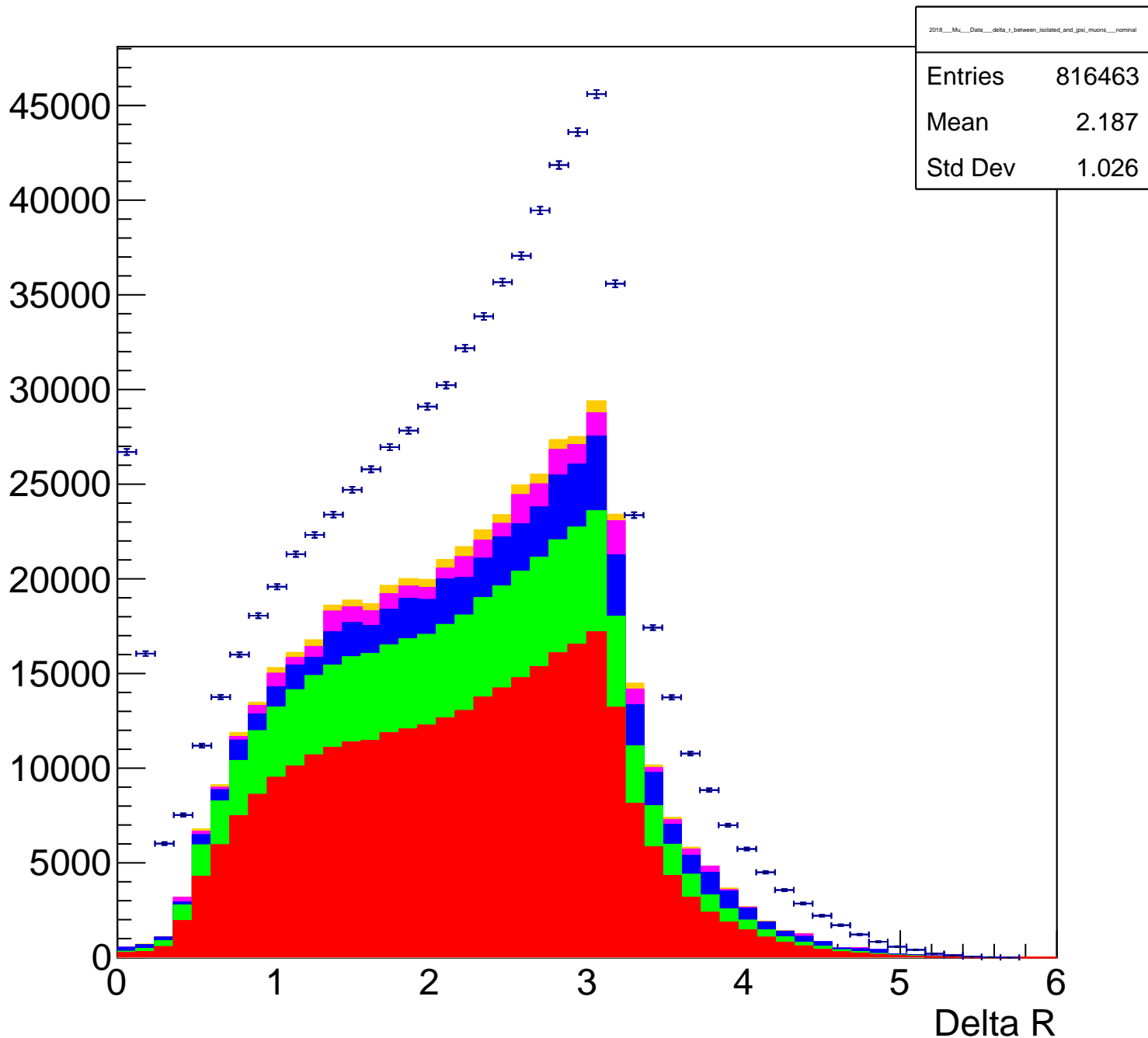
Delta Eta for Isolated Muon - JPsi Muons



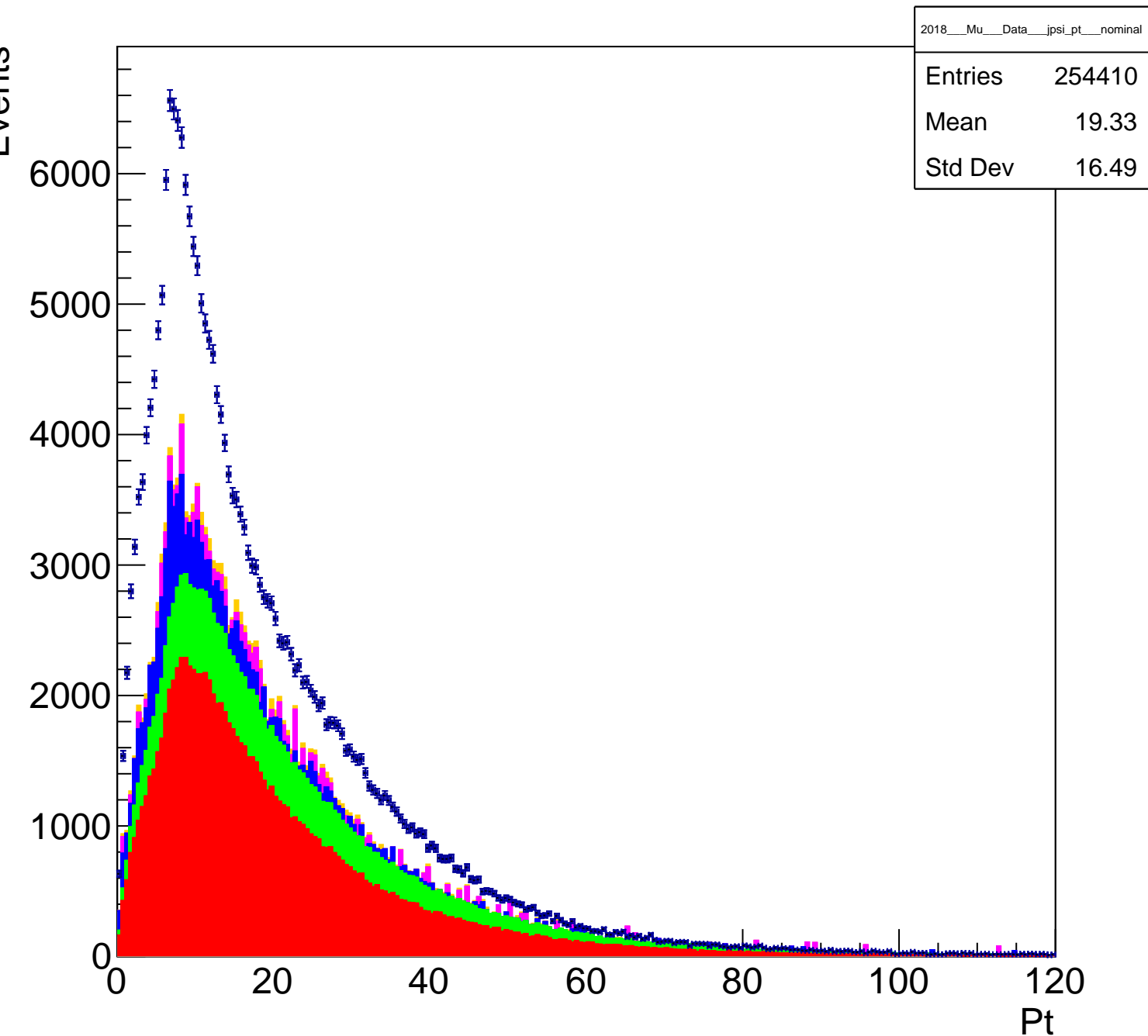
Delta Phi for Isolated Muon - JPsi Muons



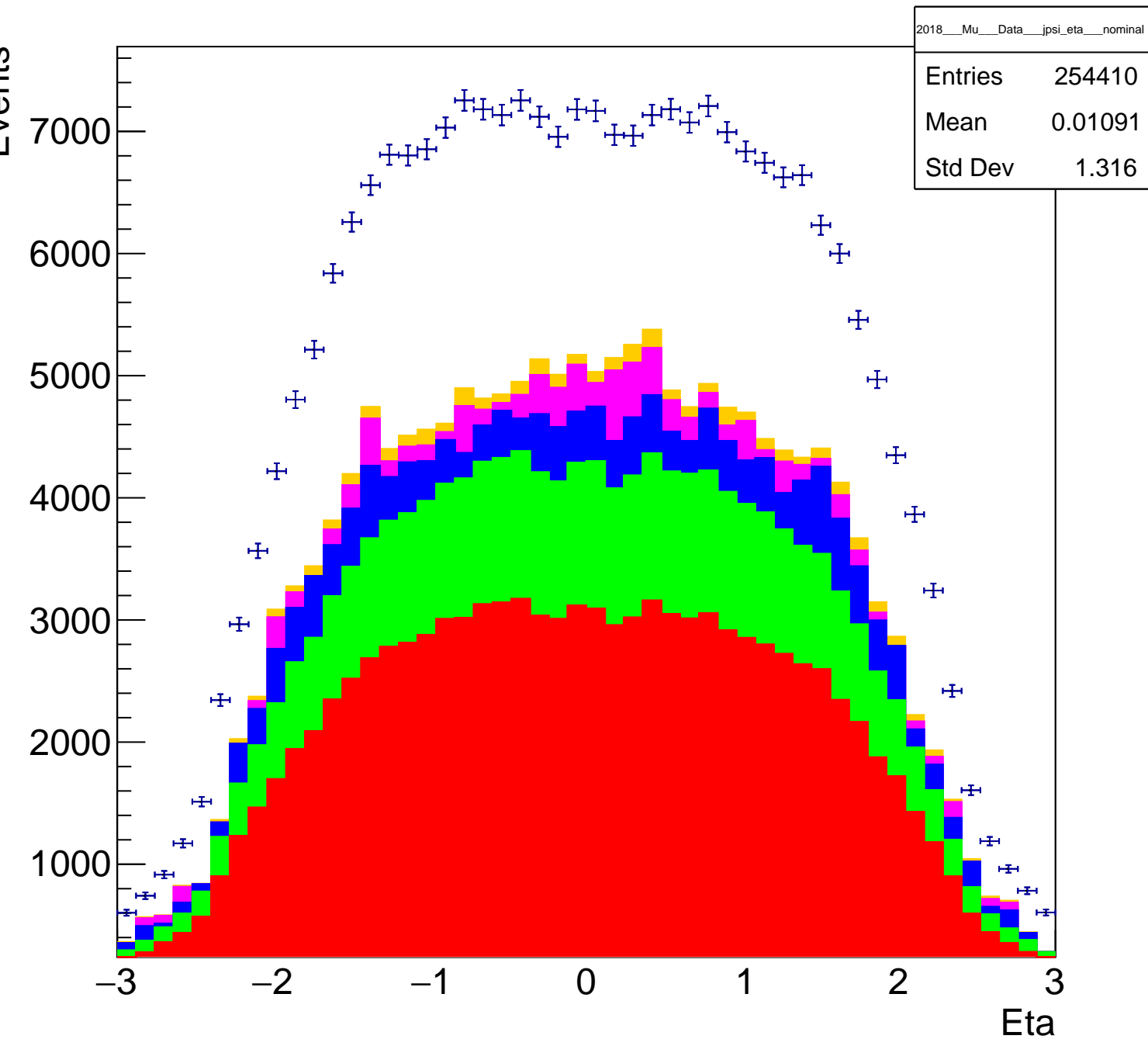
Delta R for Isolated and JPsi Muons



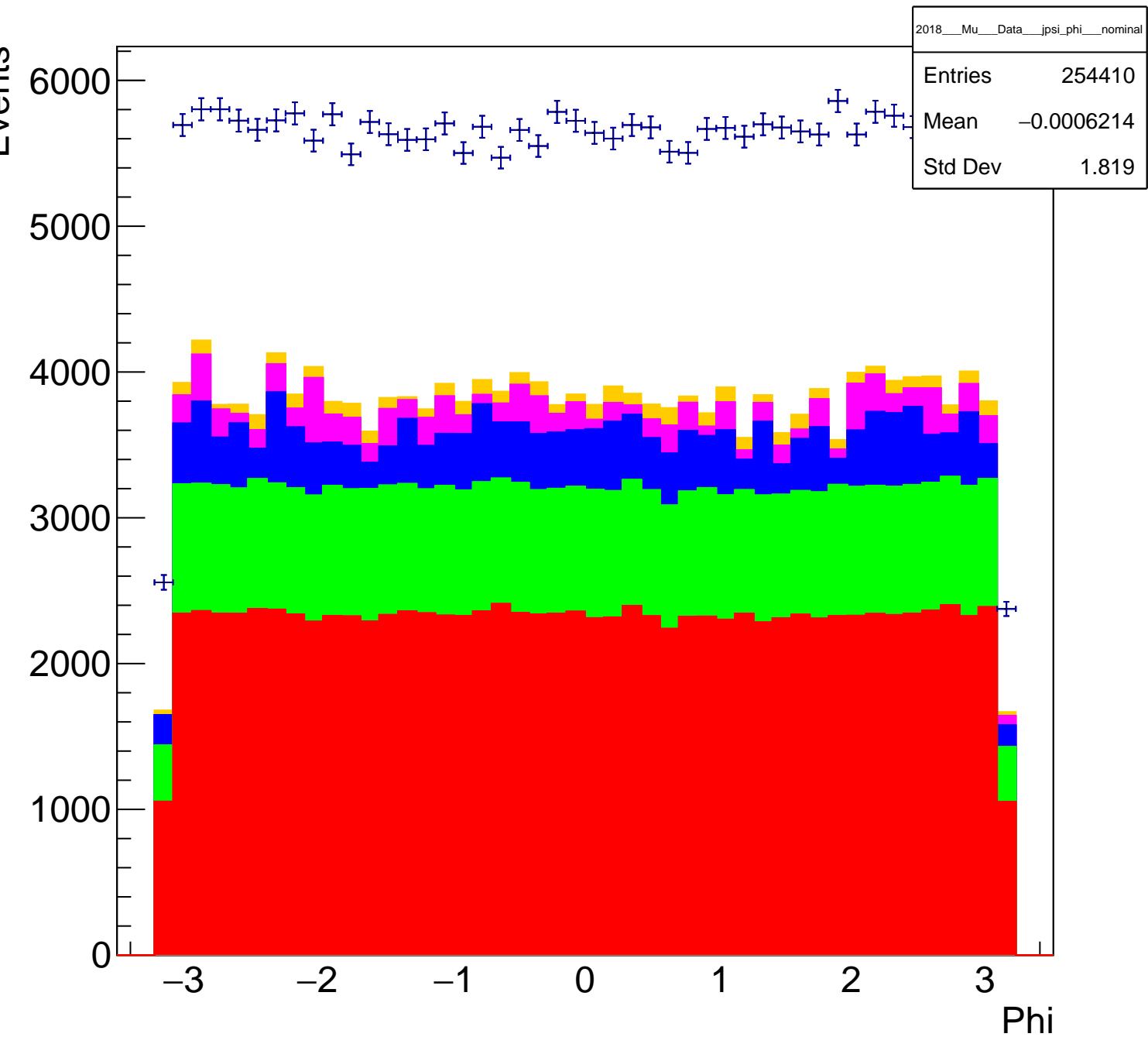
Transverse Momentum for JPsi



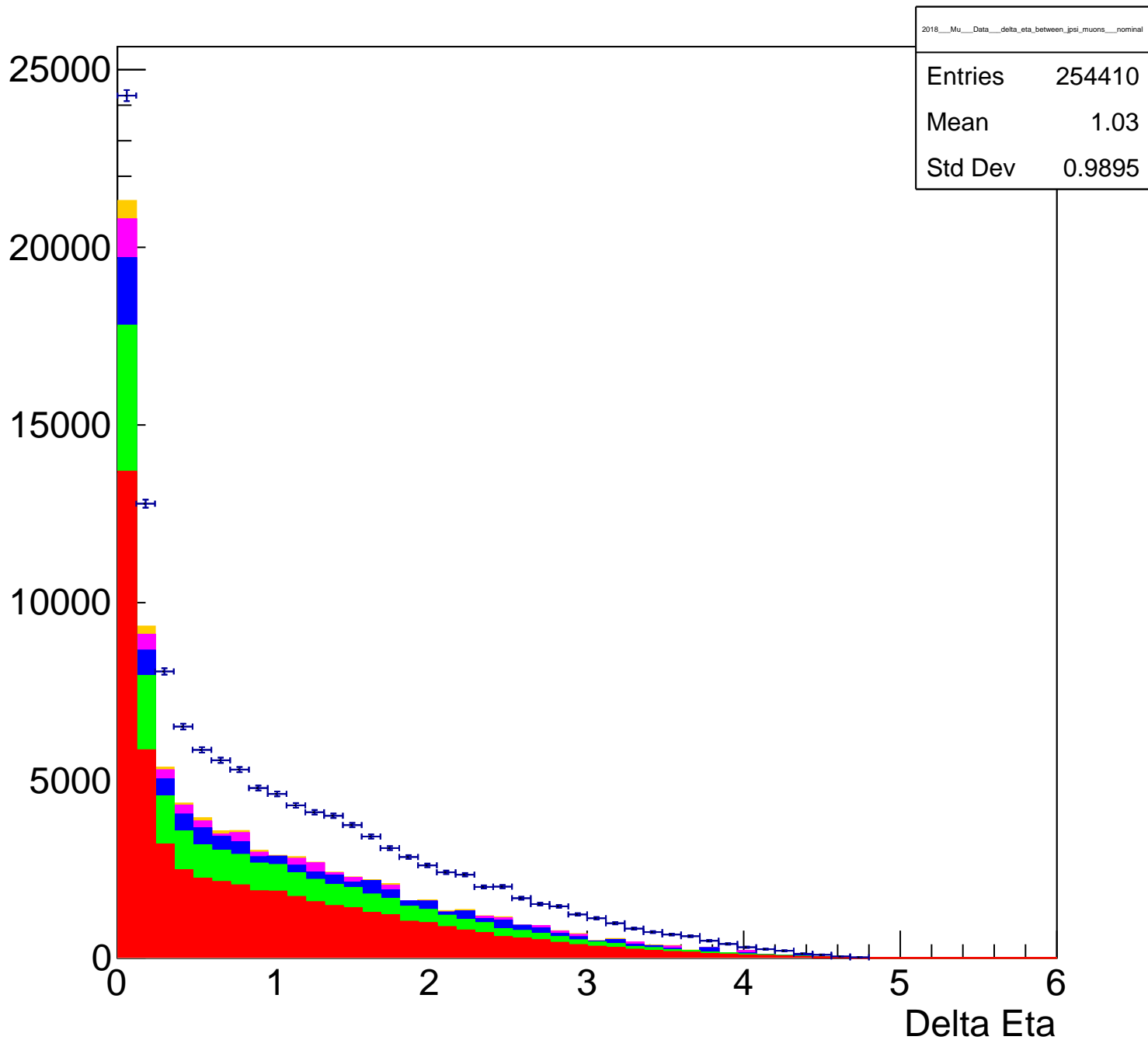
Pseudorapidity for JPsi



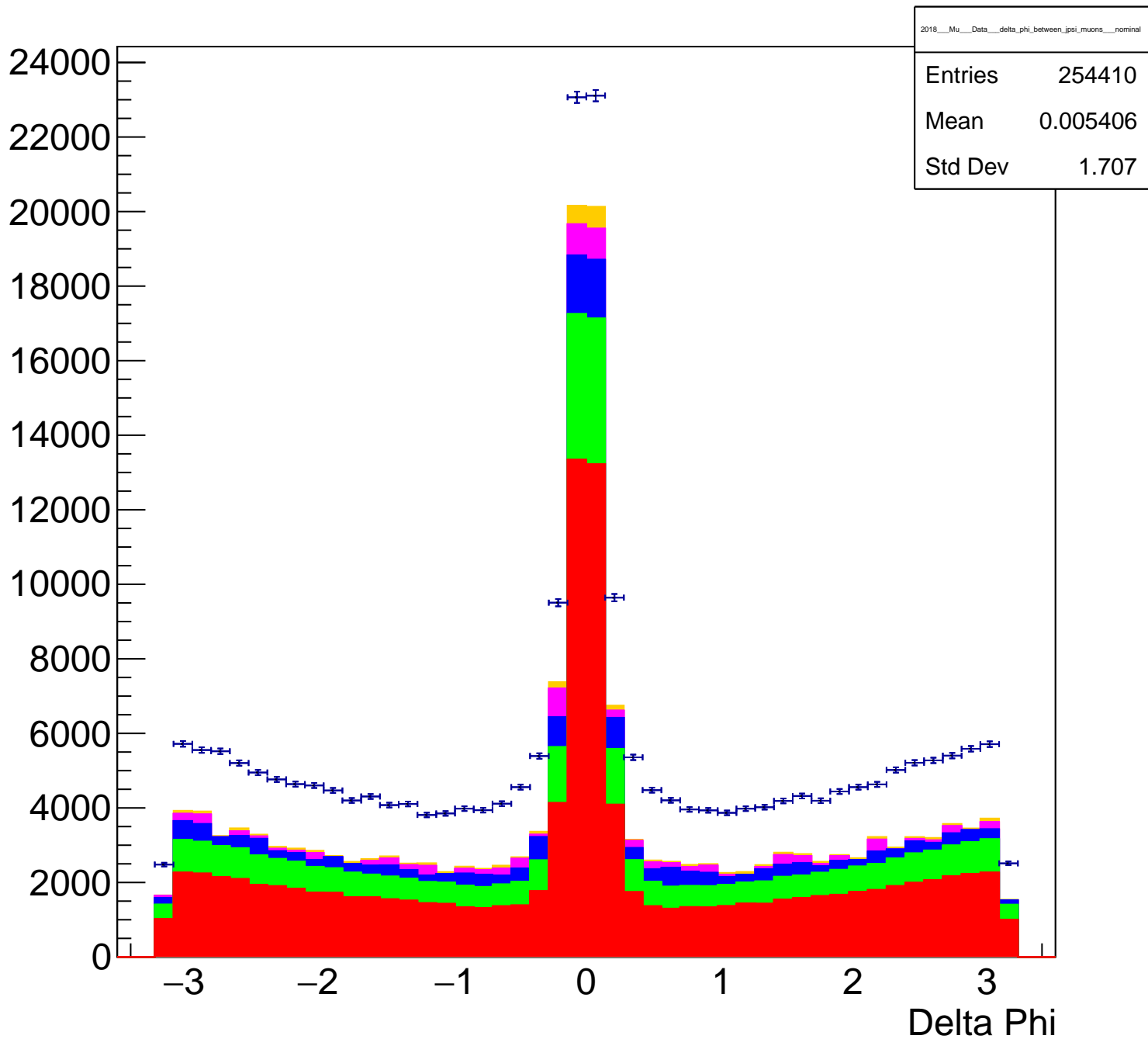
Angle for JPsi



Delta Eta for JPsi Muons



Delta Phi for JPsi Muons



Delta R for JPsi Muons

