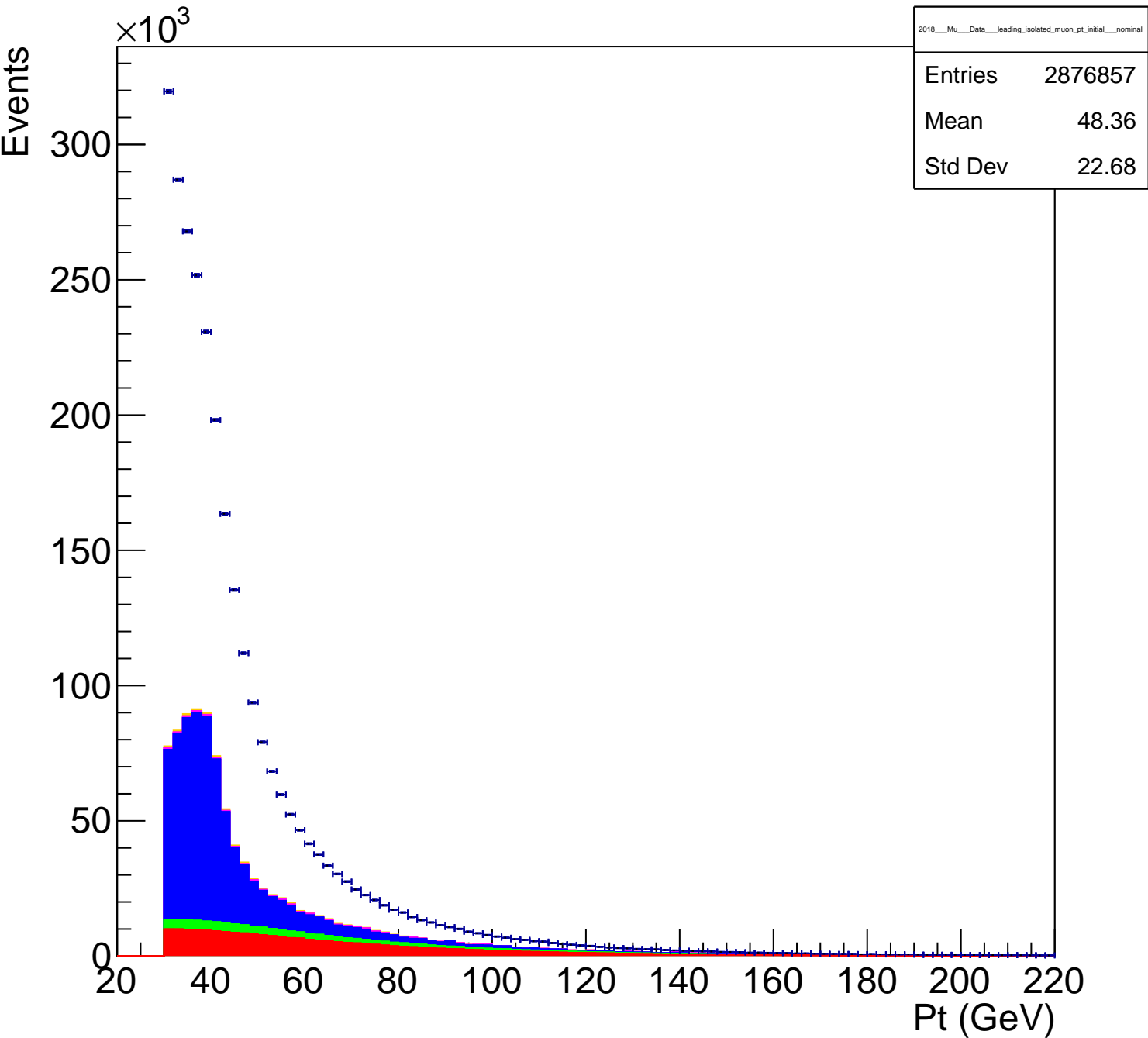
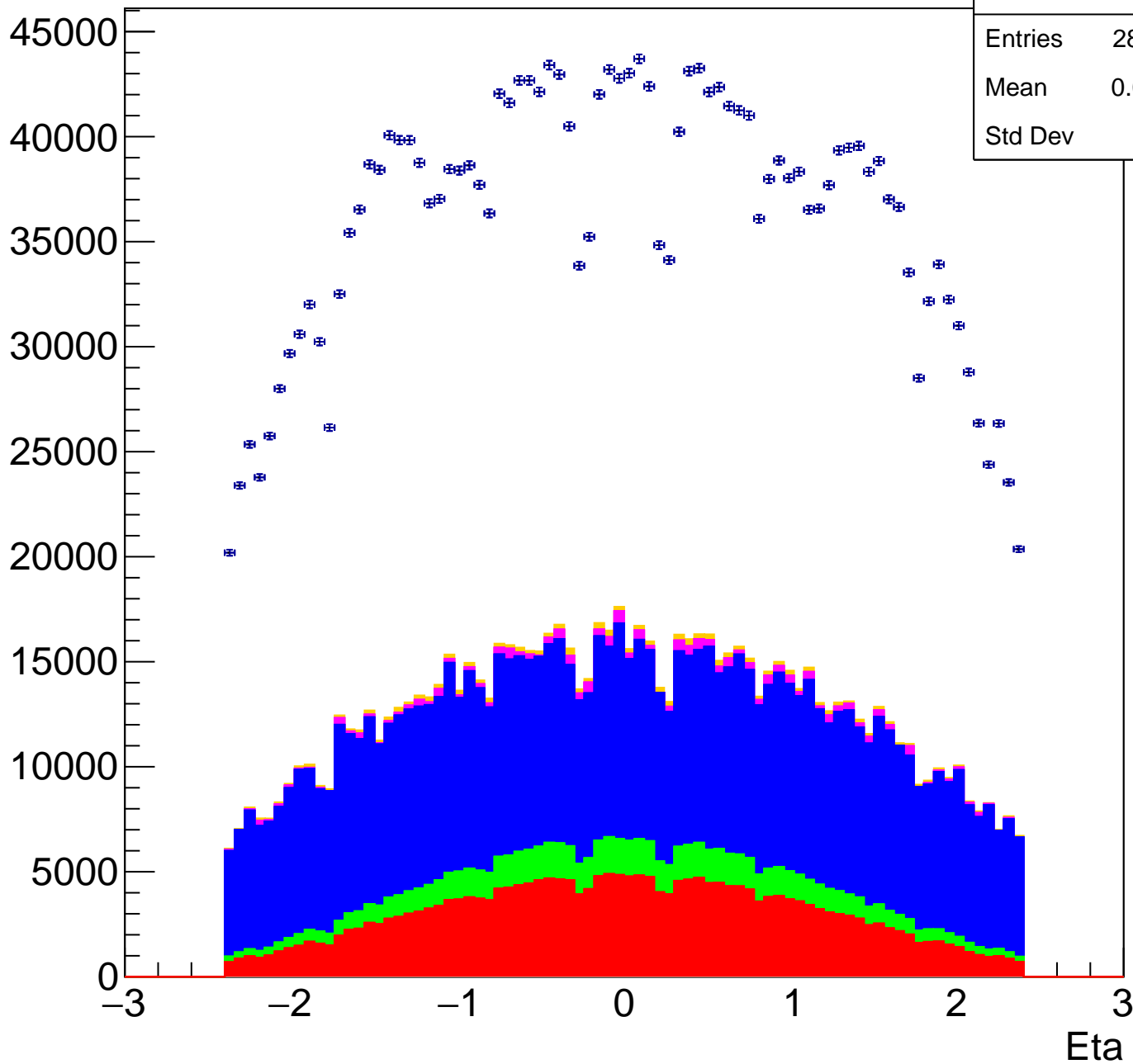


Leading Isolated Muon Transverse Momentum (One Muon, No Electrons)



Leading Isolated Muon Pseudorapidity (One Muon, No Electrons)

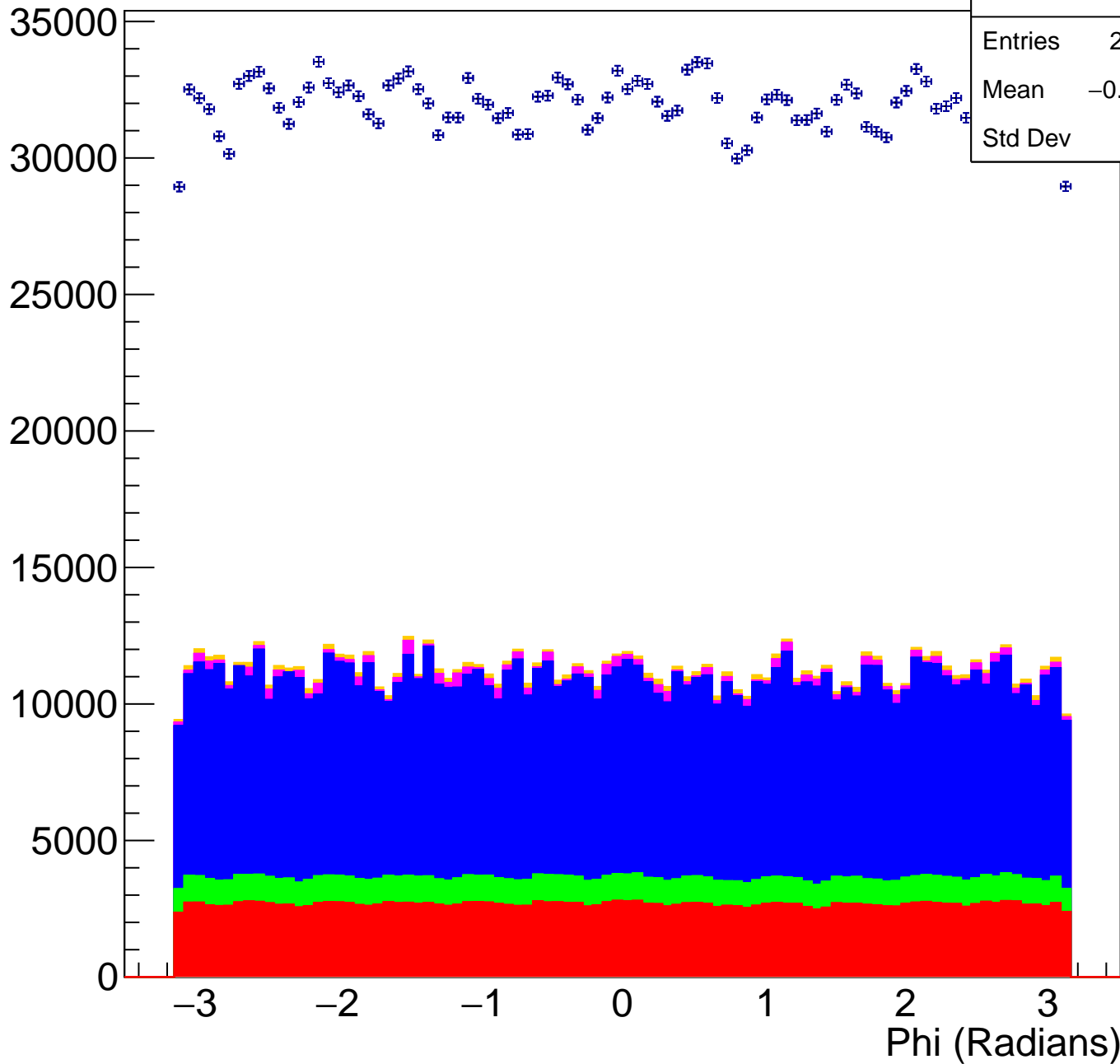
2018_Mu_Data_leading_isolated_muon_eta_initial_nominal	
Entries	2876857
Mean	0.007951
Std Dev	1.287



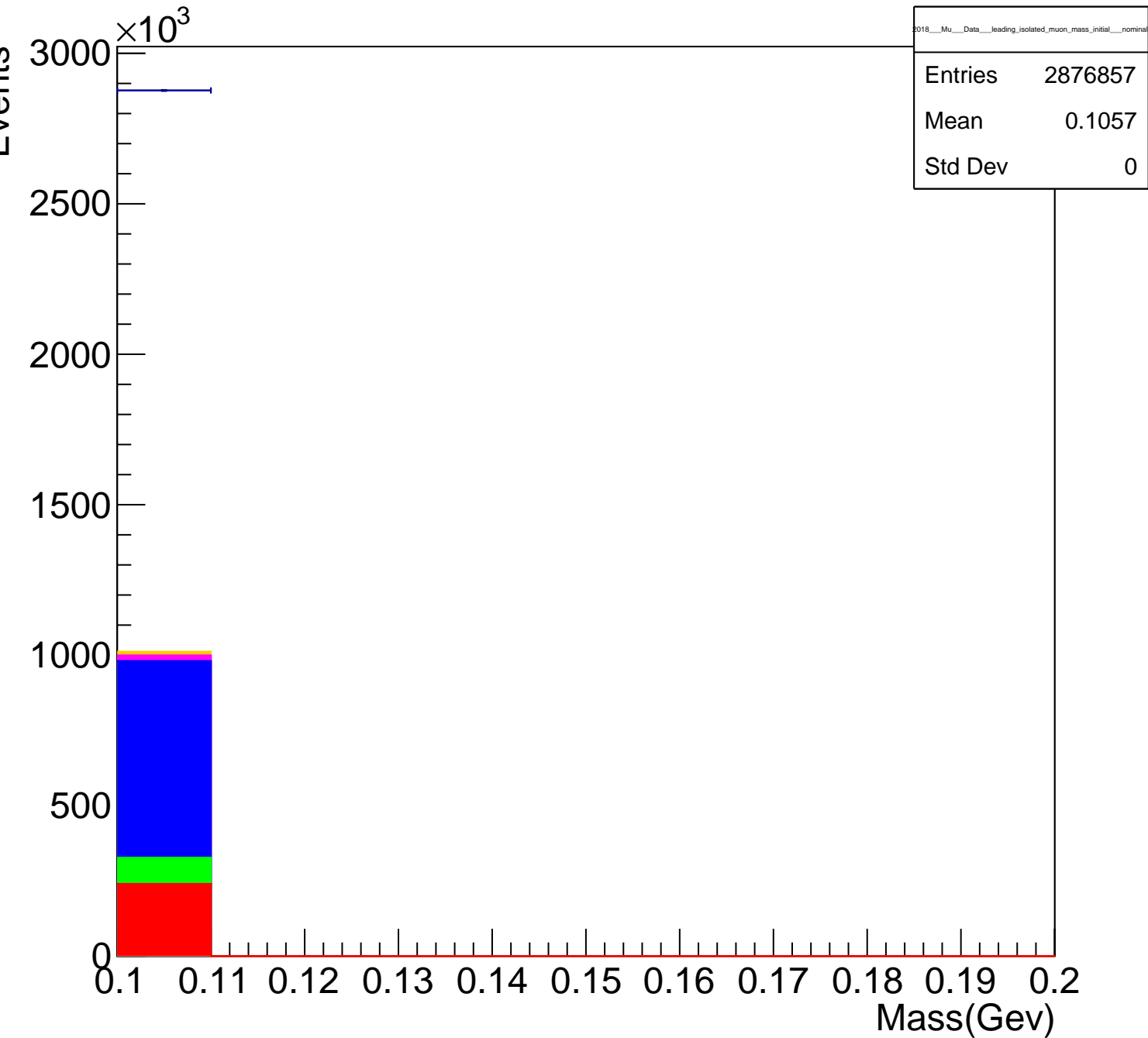
Leading Isolated Muon Angle (One Muon, No Electrons)

2018_Mu_Data_leading_isolated_muon_phi_initial_nominal

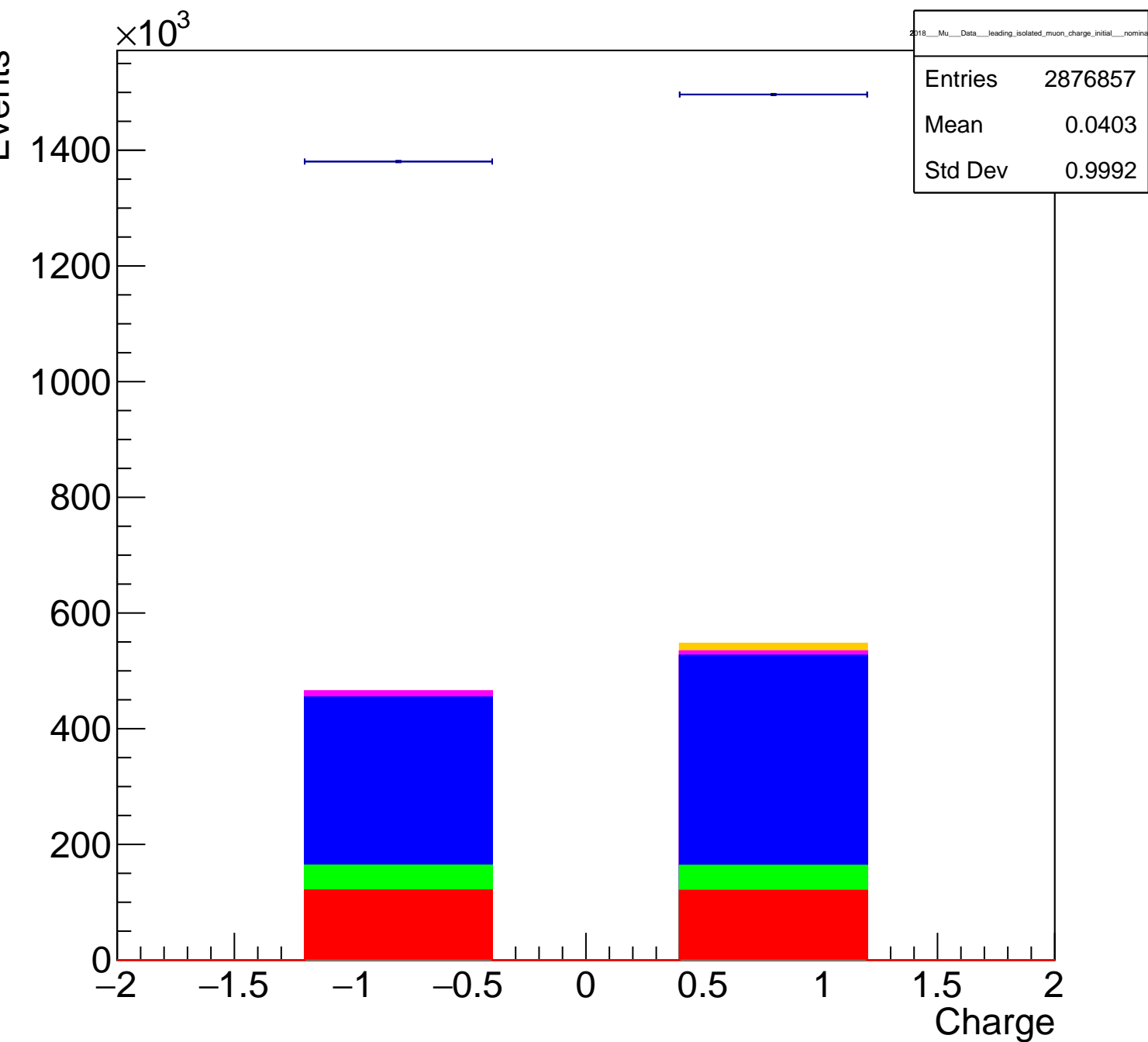
Entries	2876857
Mean	-0.004086
Std Dev	1.815



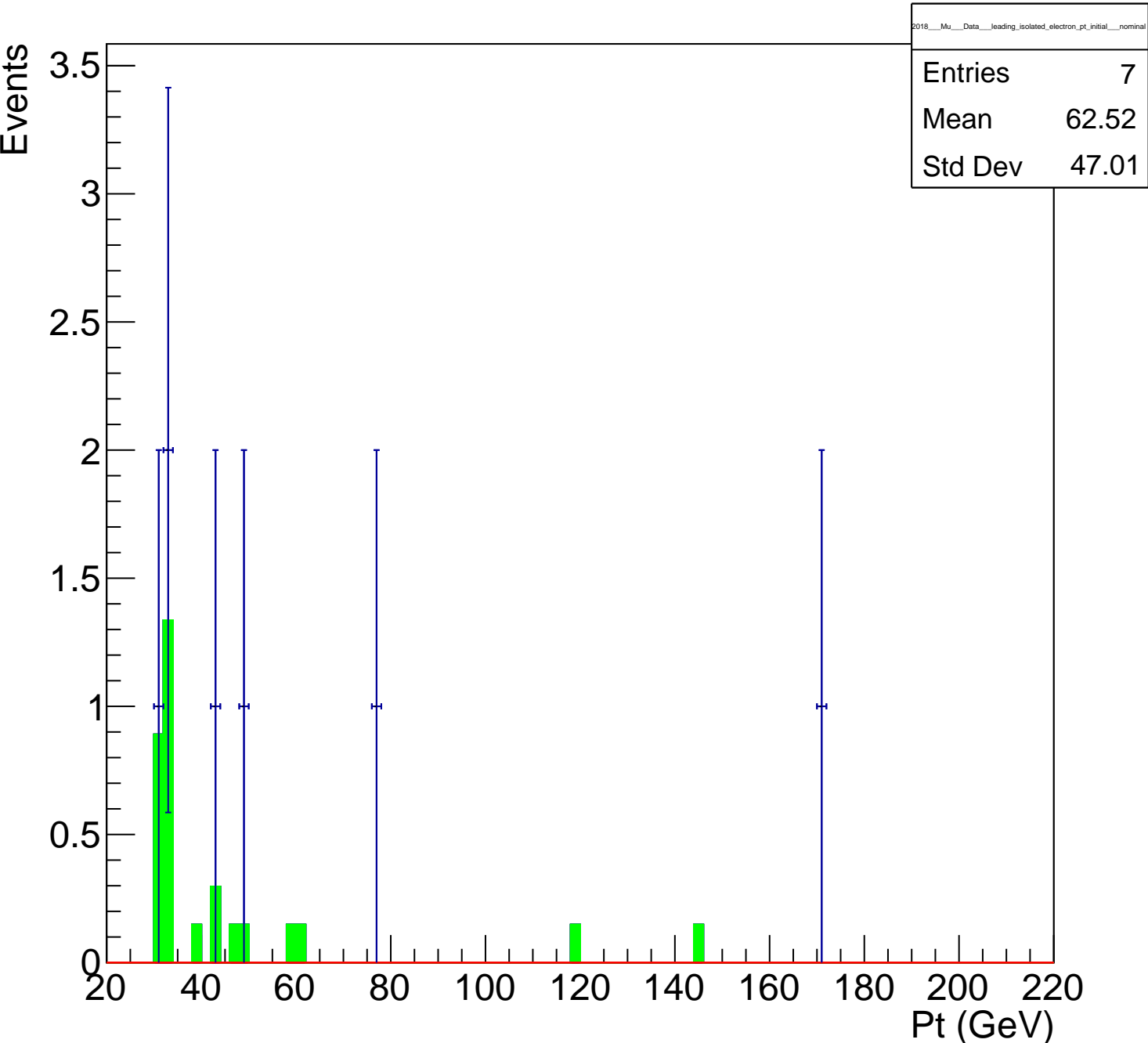
Leading Isolated Muon Mass (One Muon, No Electrons)



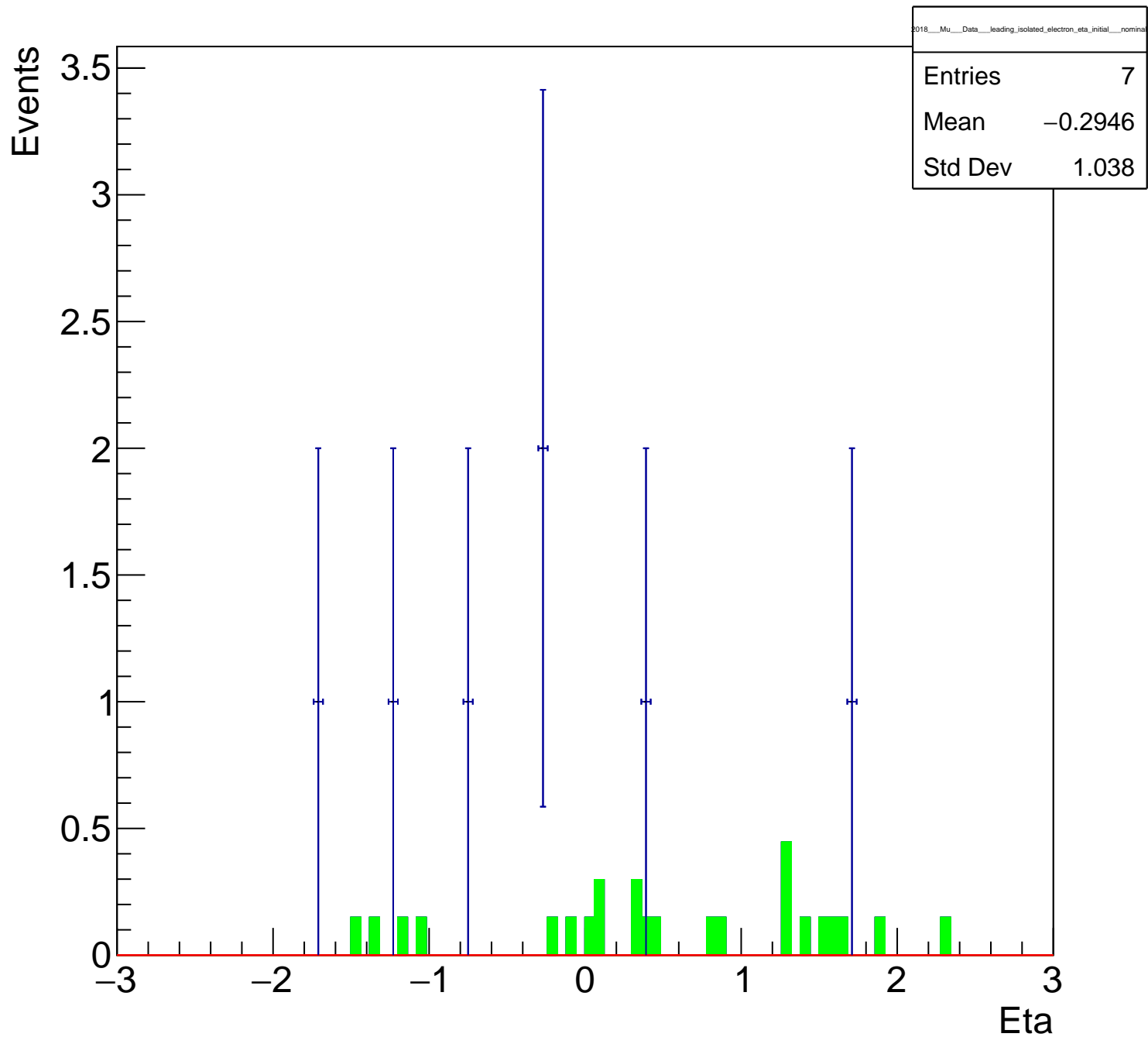
Leading Isolated Muon Charge (One Muon, No Electrons)



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



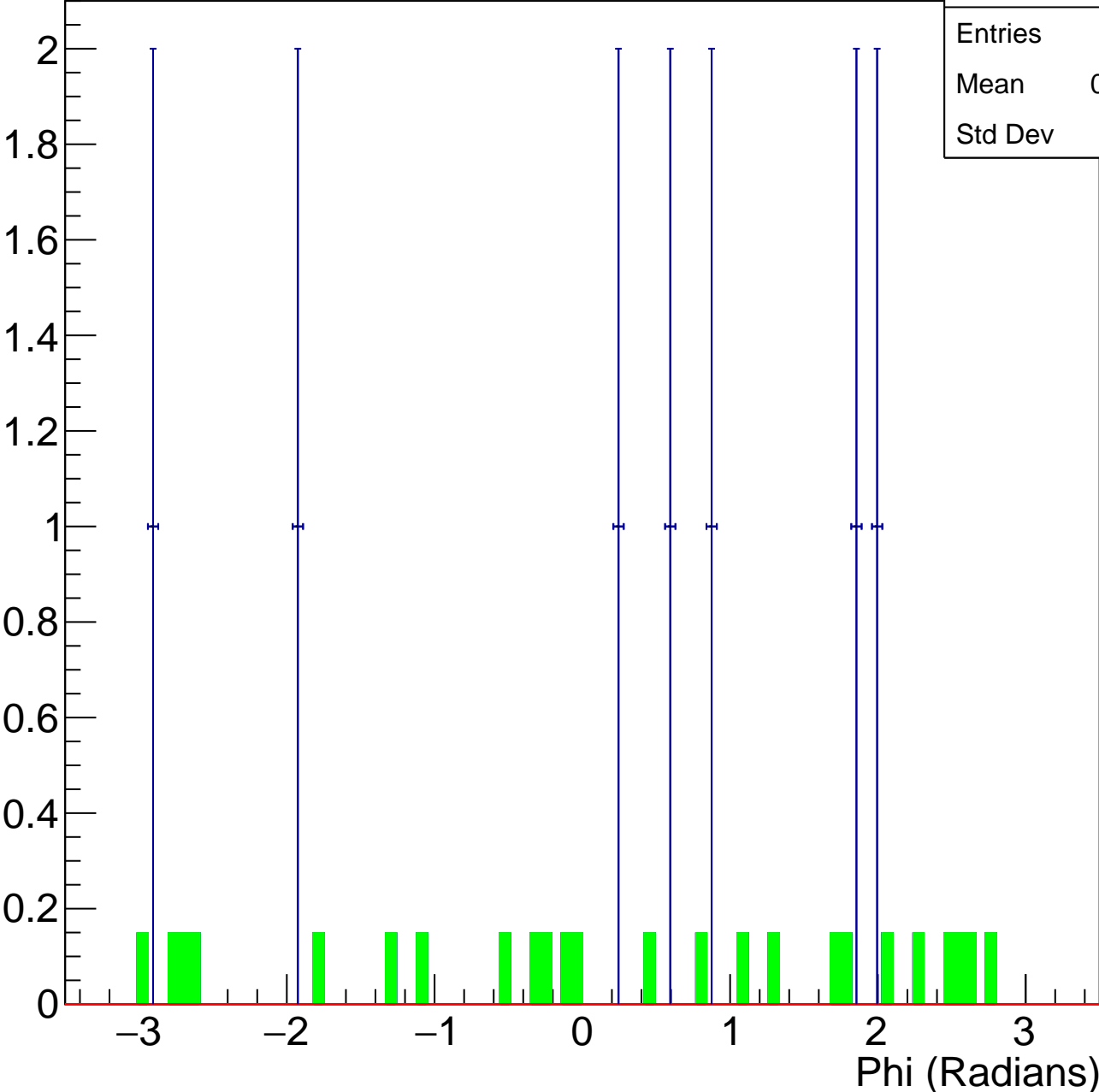
Leading Isolated Electron Pseudorapidity (One Electron, No Muons)



Leading Isolated Electron Angle (One Electron, No Muons)

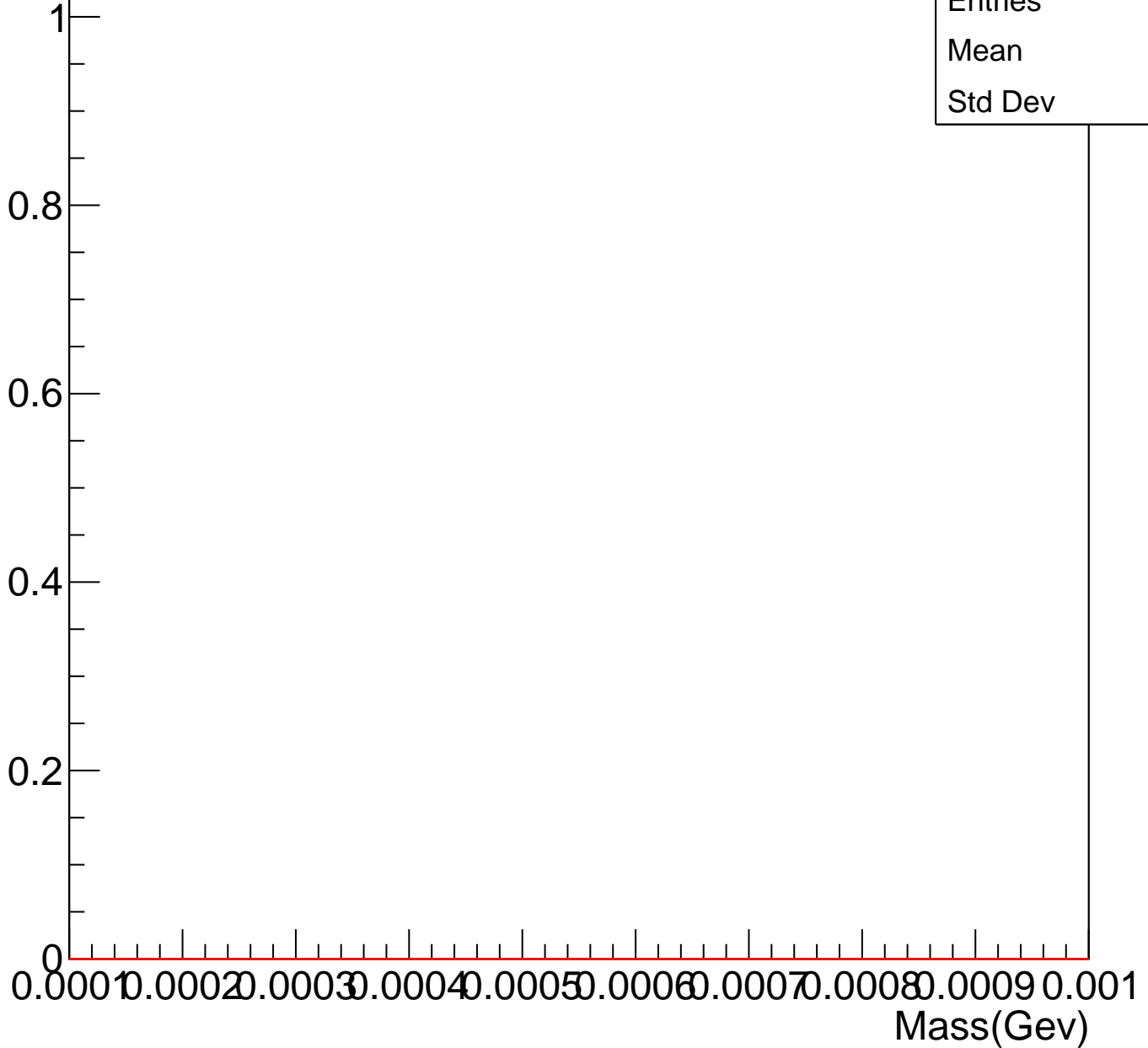
Events

2018__Mu__Data__leading_isolated_electron_phi_initial__nominal	
Entries	7
Mean	0.08943
Std Dev	1.724

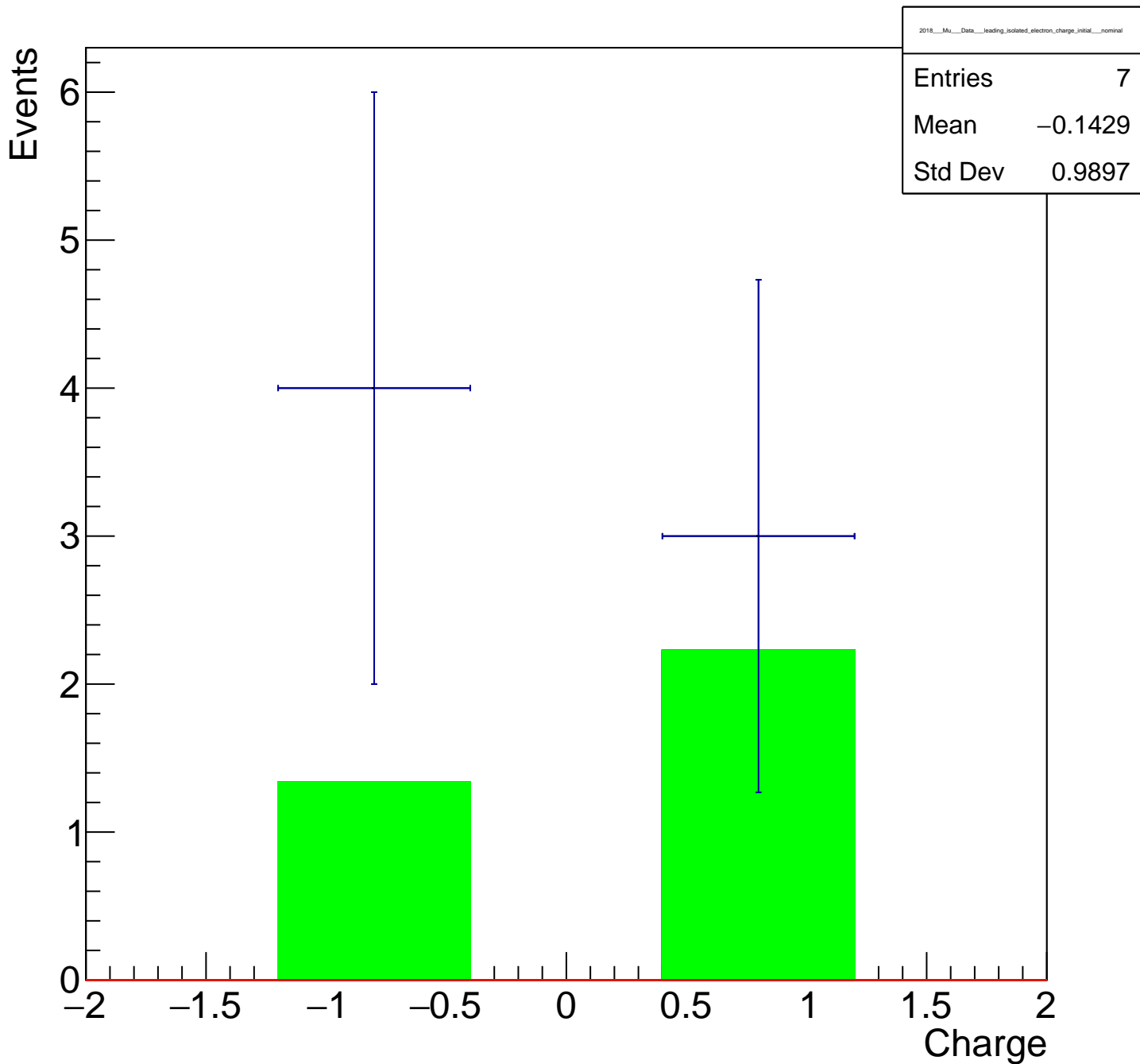


Leading Isolated Electron Mass (One Electron, No Muons)

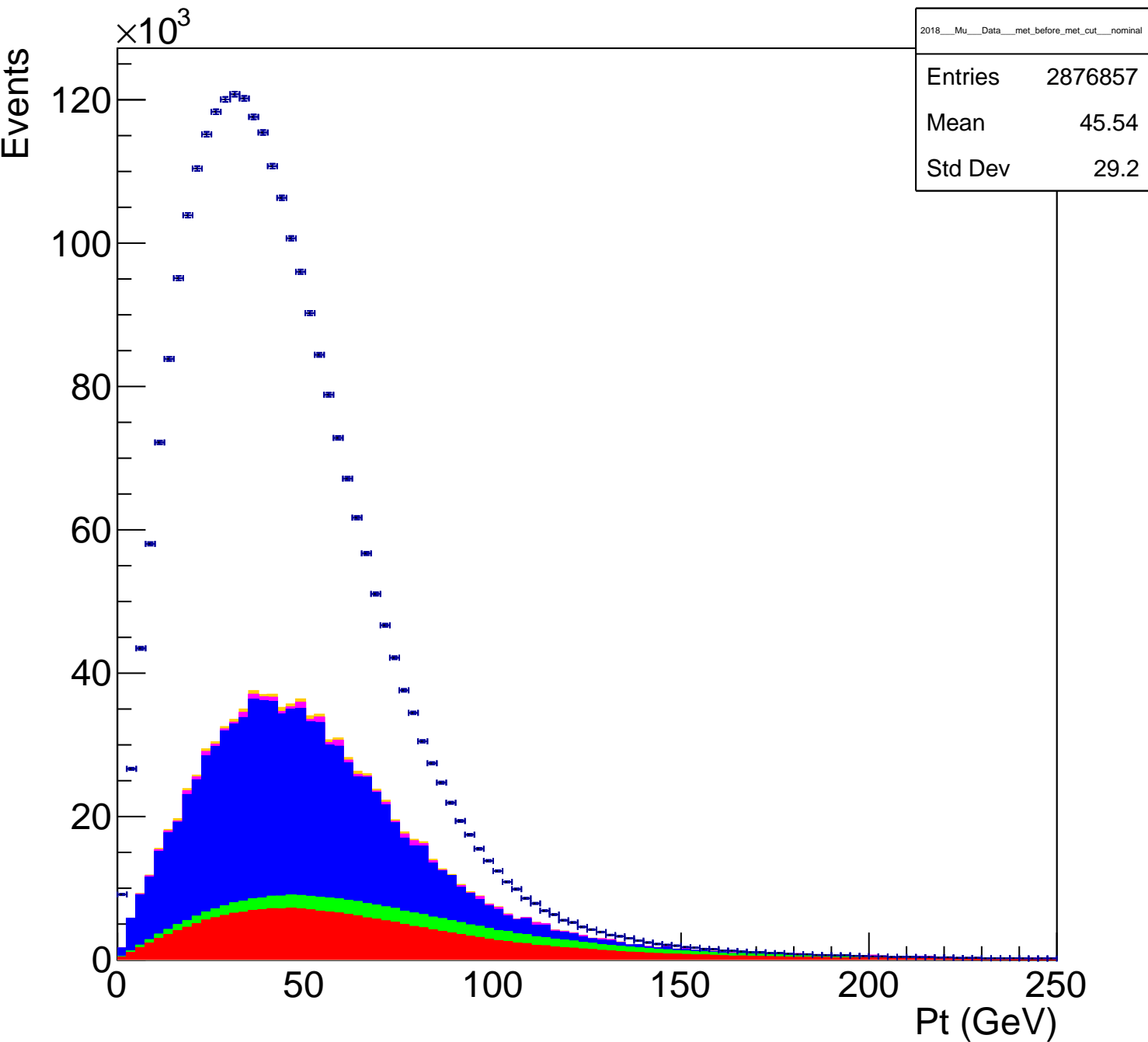
Events



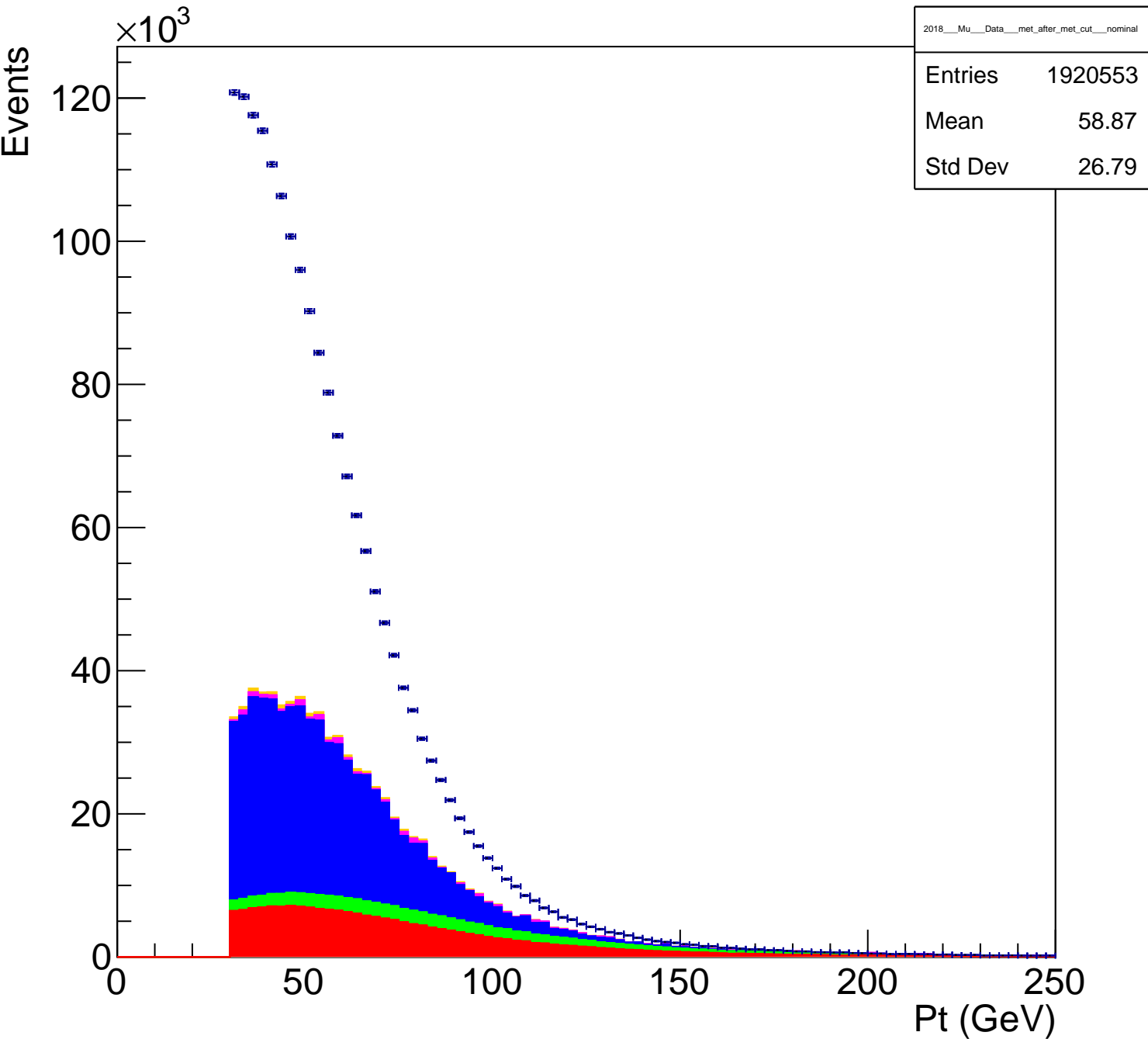
Leading Isolated Electron Charge (One Electron, No Muons)



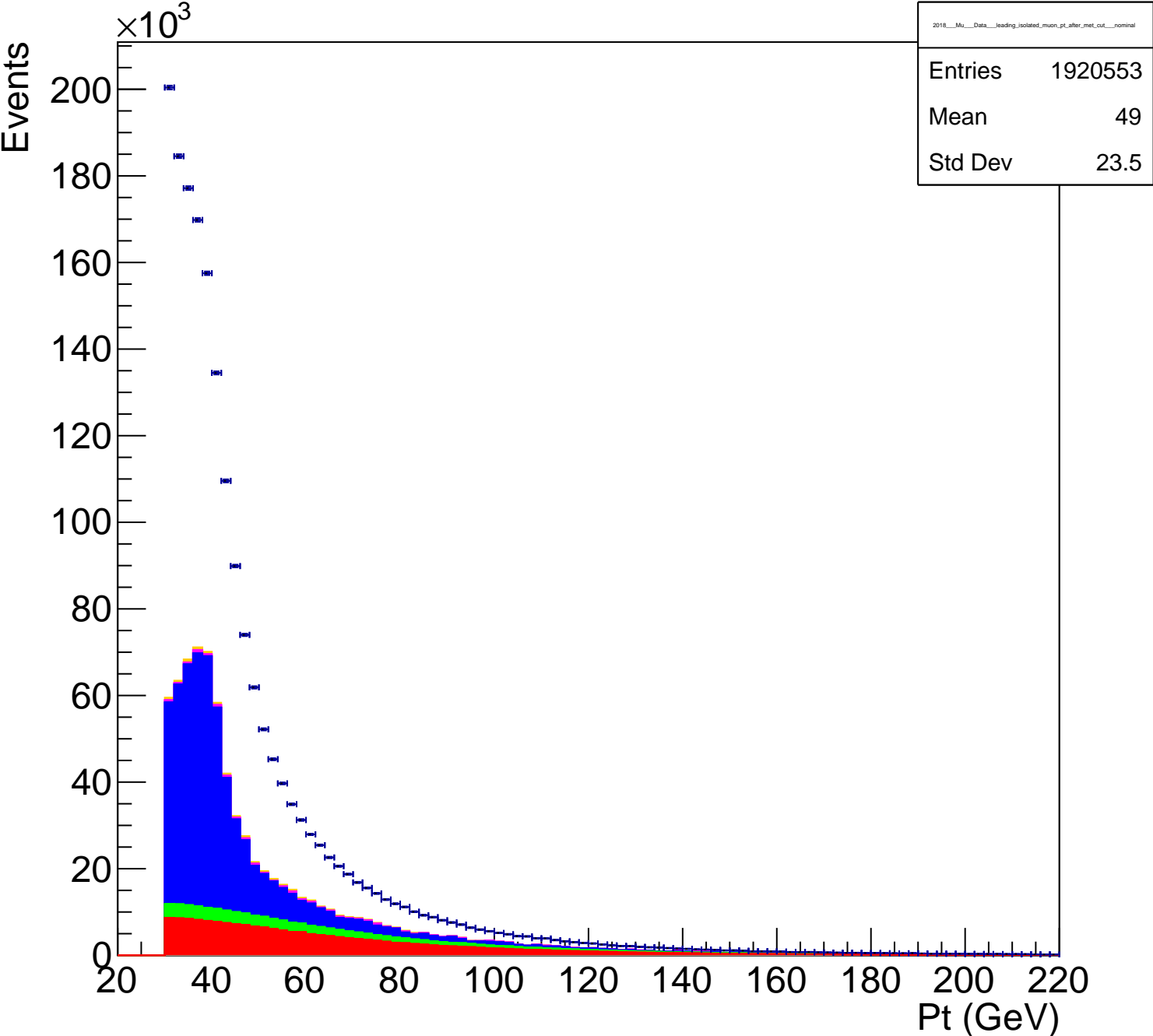
MET Before MET Cut



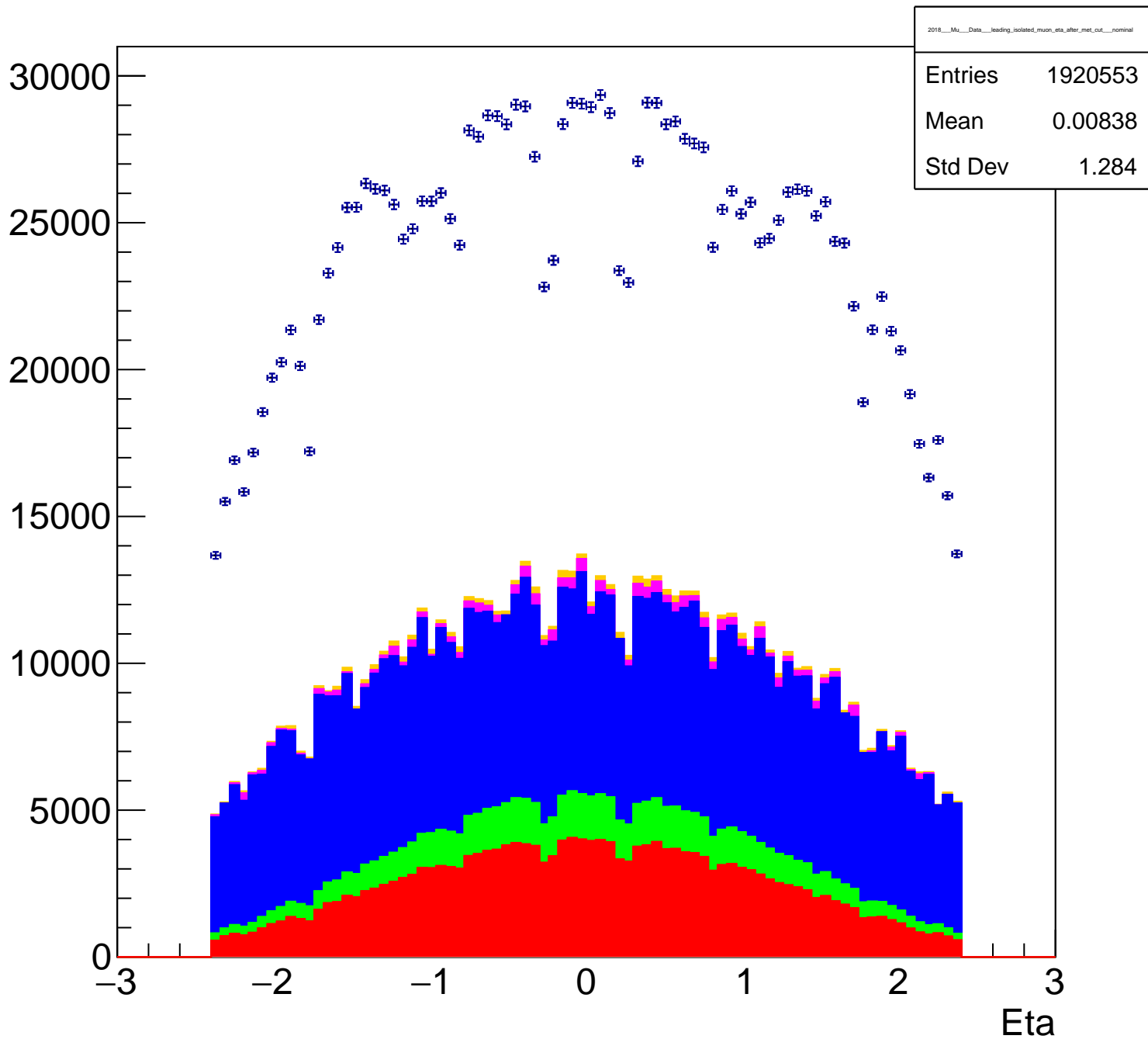
MET After MET Cut



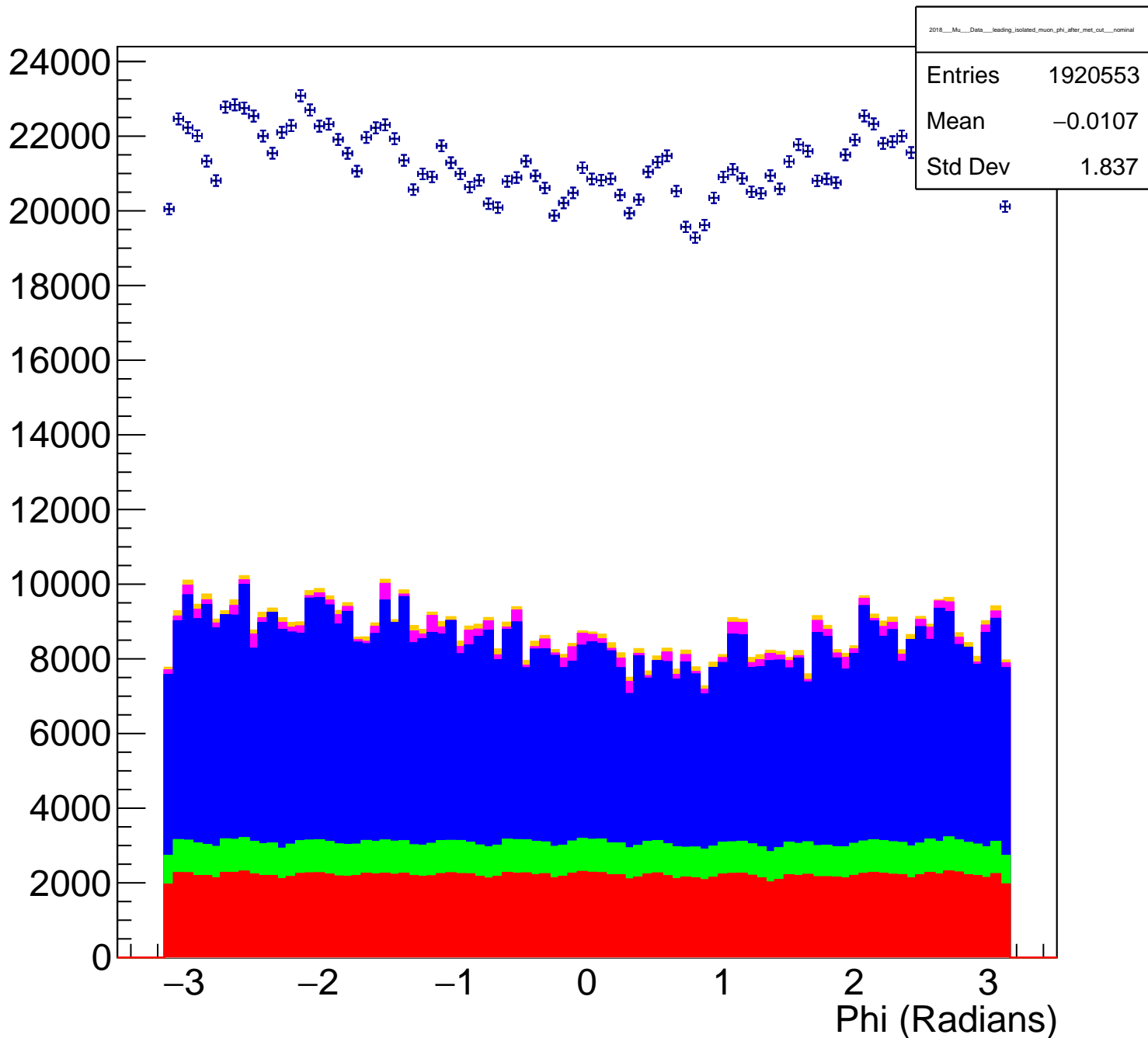
Leading Isolated Muon Transverse Momentum After MET Cut



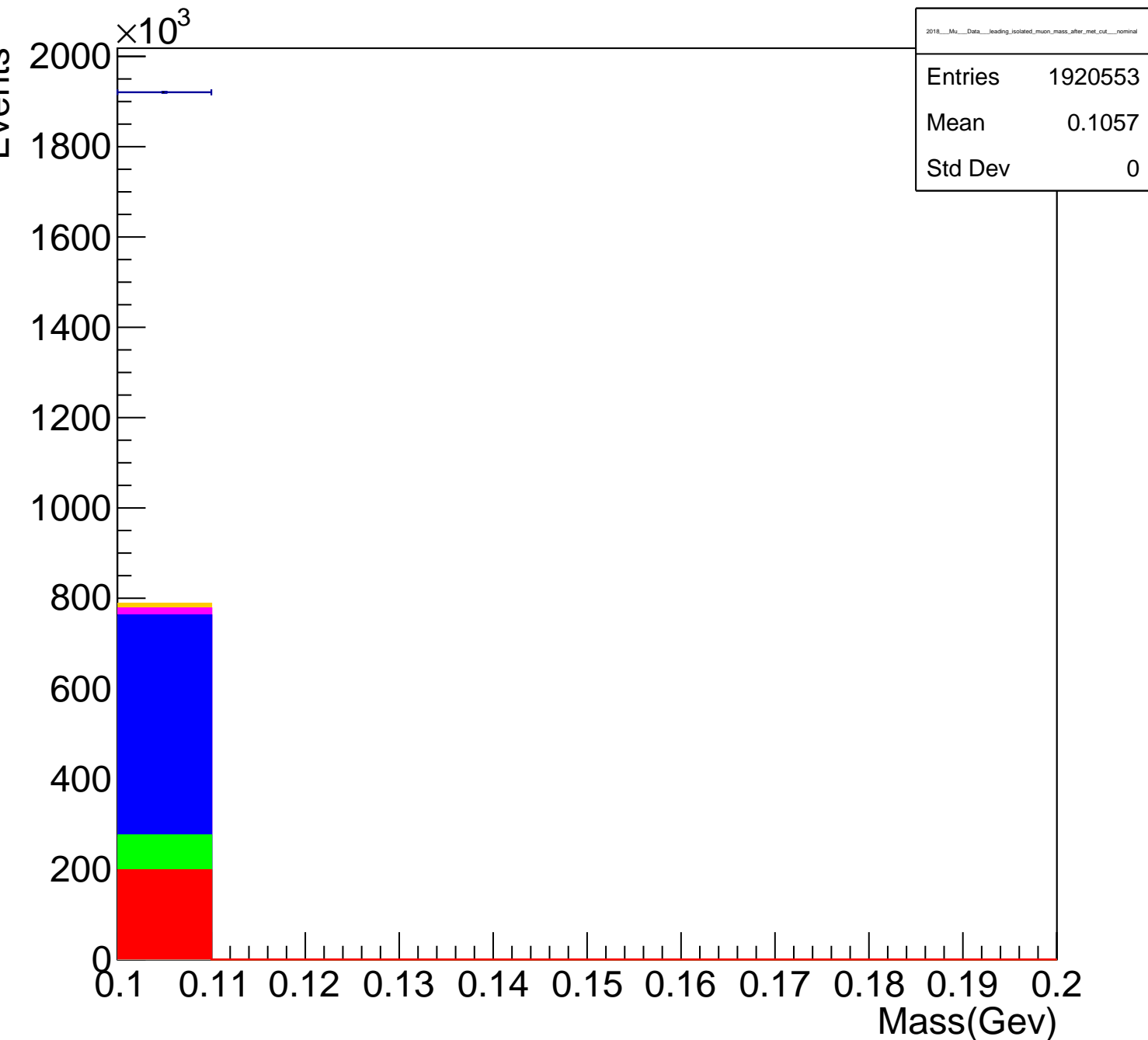
Leading Isolated Muon Pseudorapidity After MET Cut



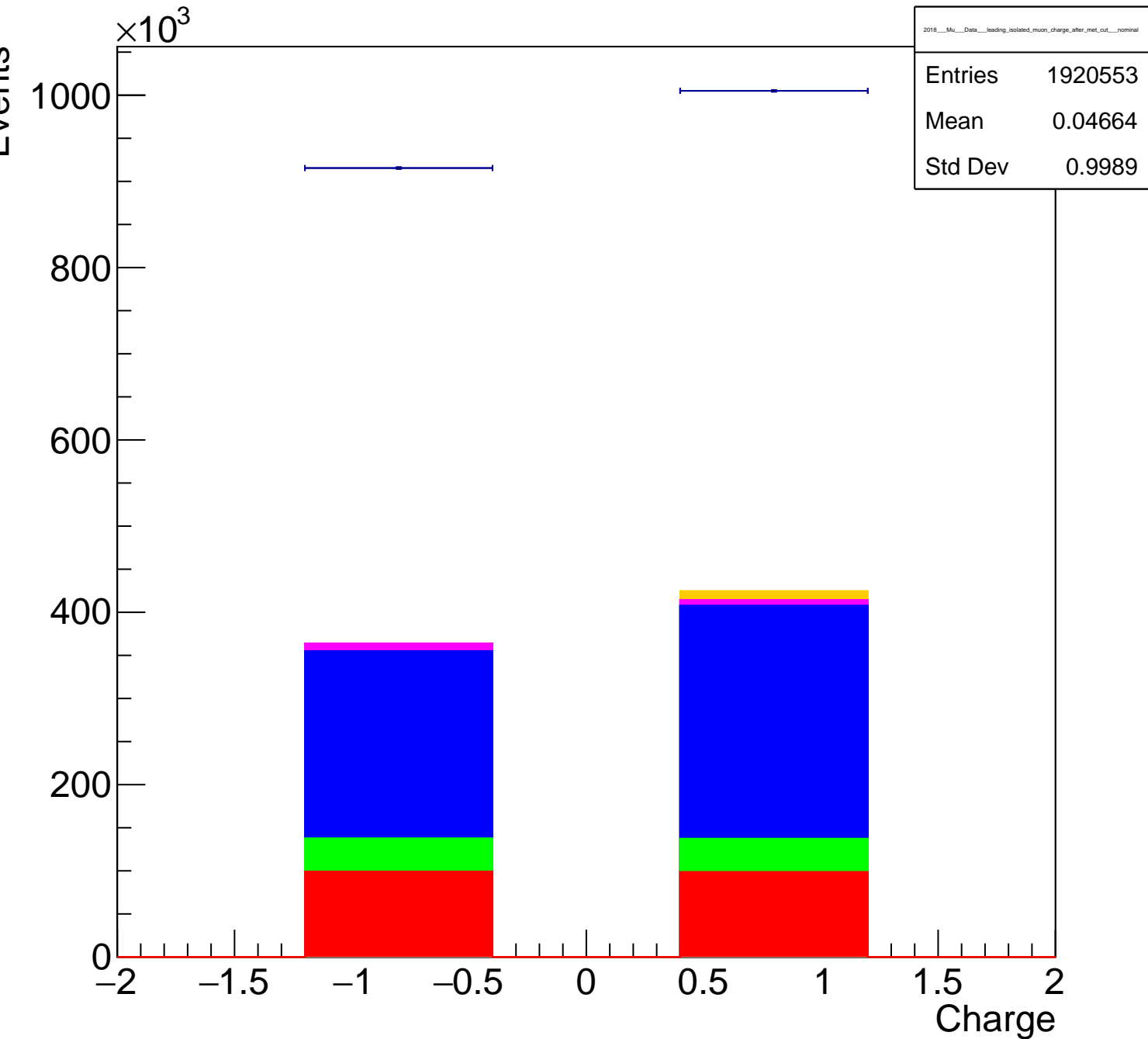
Leading Isolated Muon Angle After MET Cut



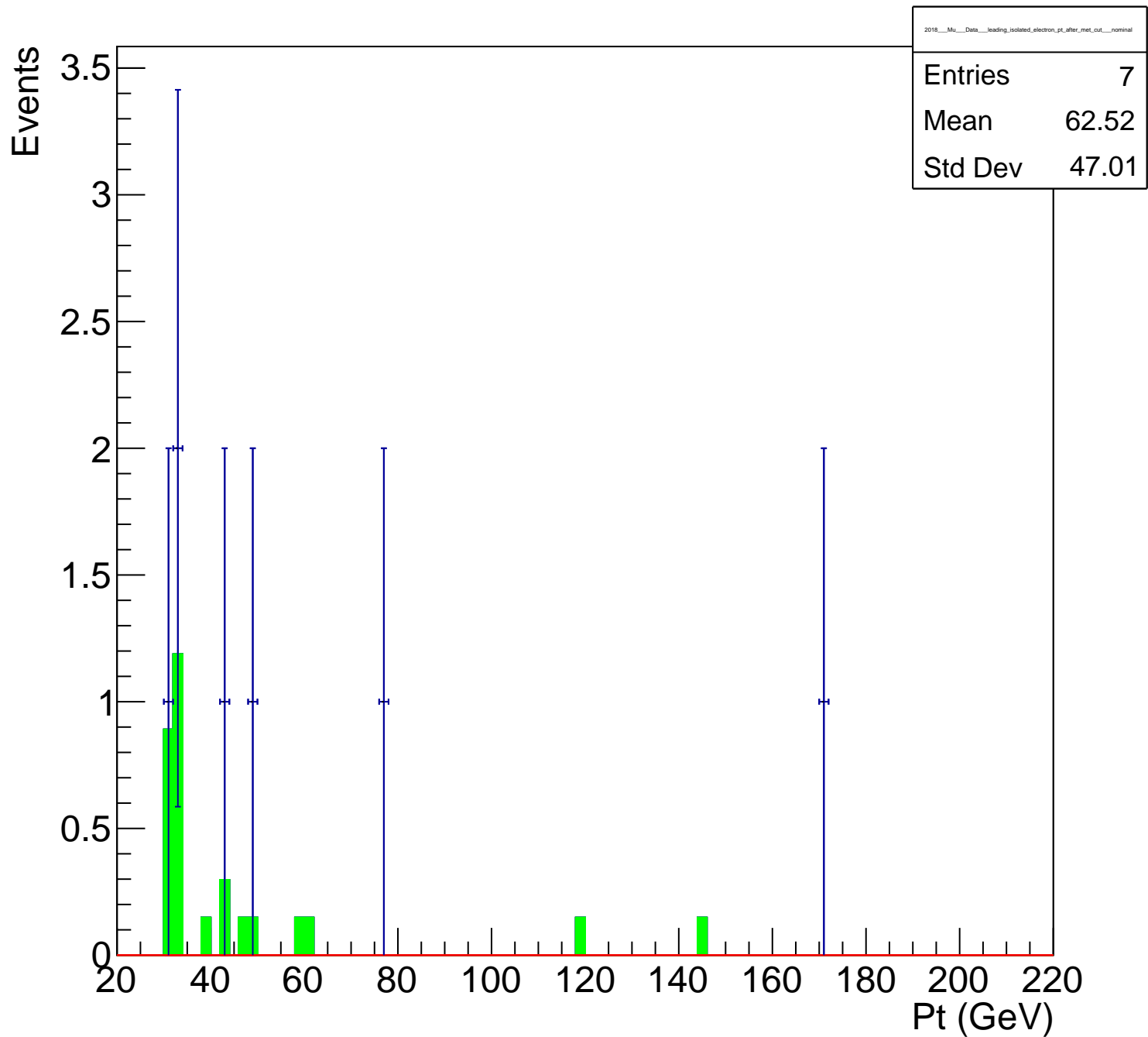
Leading Isolated Muon Mass After MET Cut



Leading Isolated Muon Charge After MET Cut

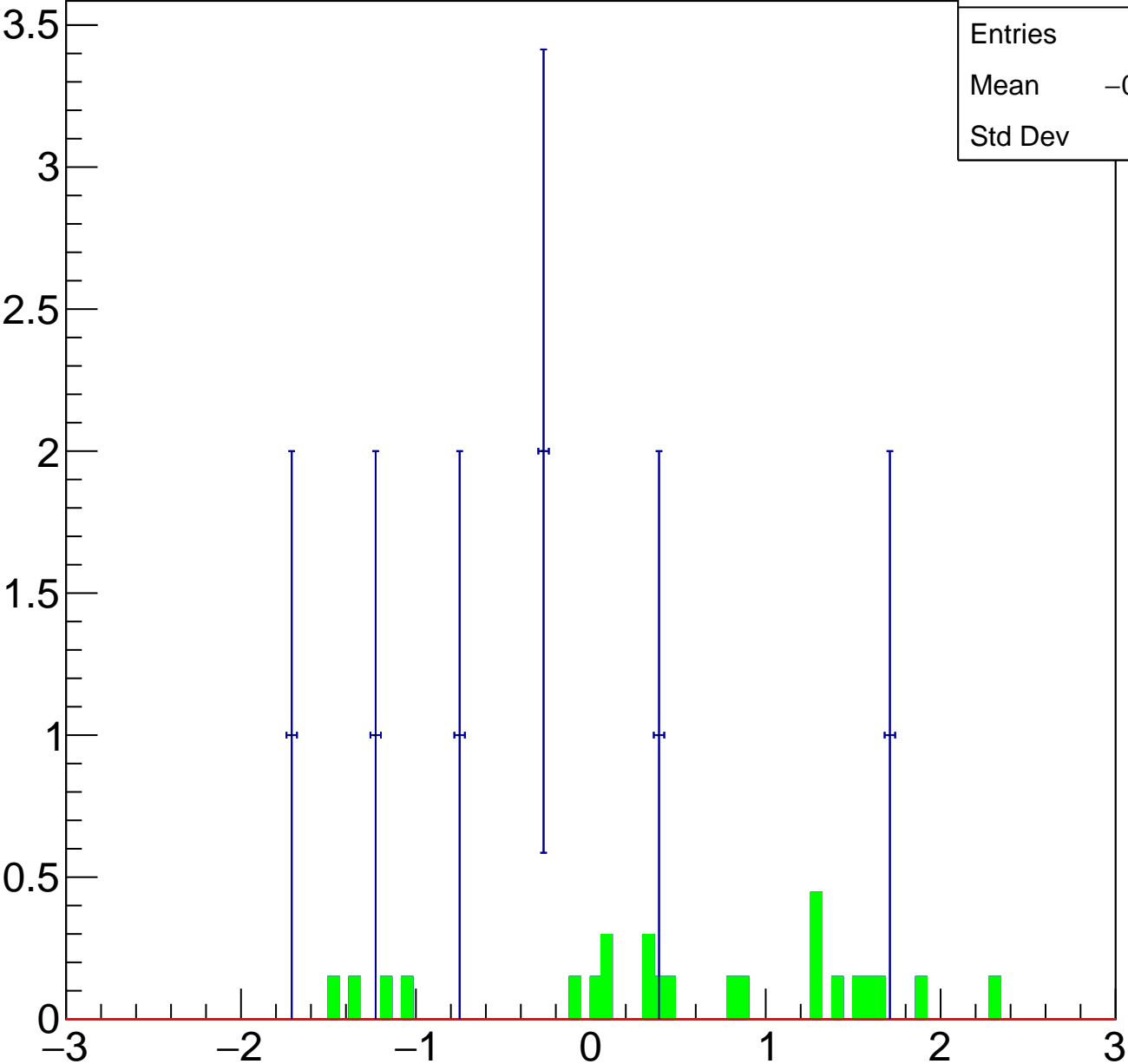


Leading Isolated Electron Transverse Momentum After MET Cut



Leading Isolated Electron Pseudorapidity After MET Cut

Events

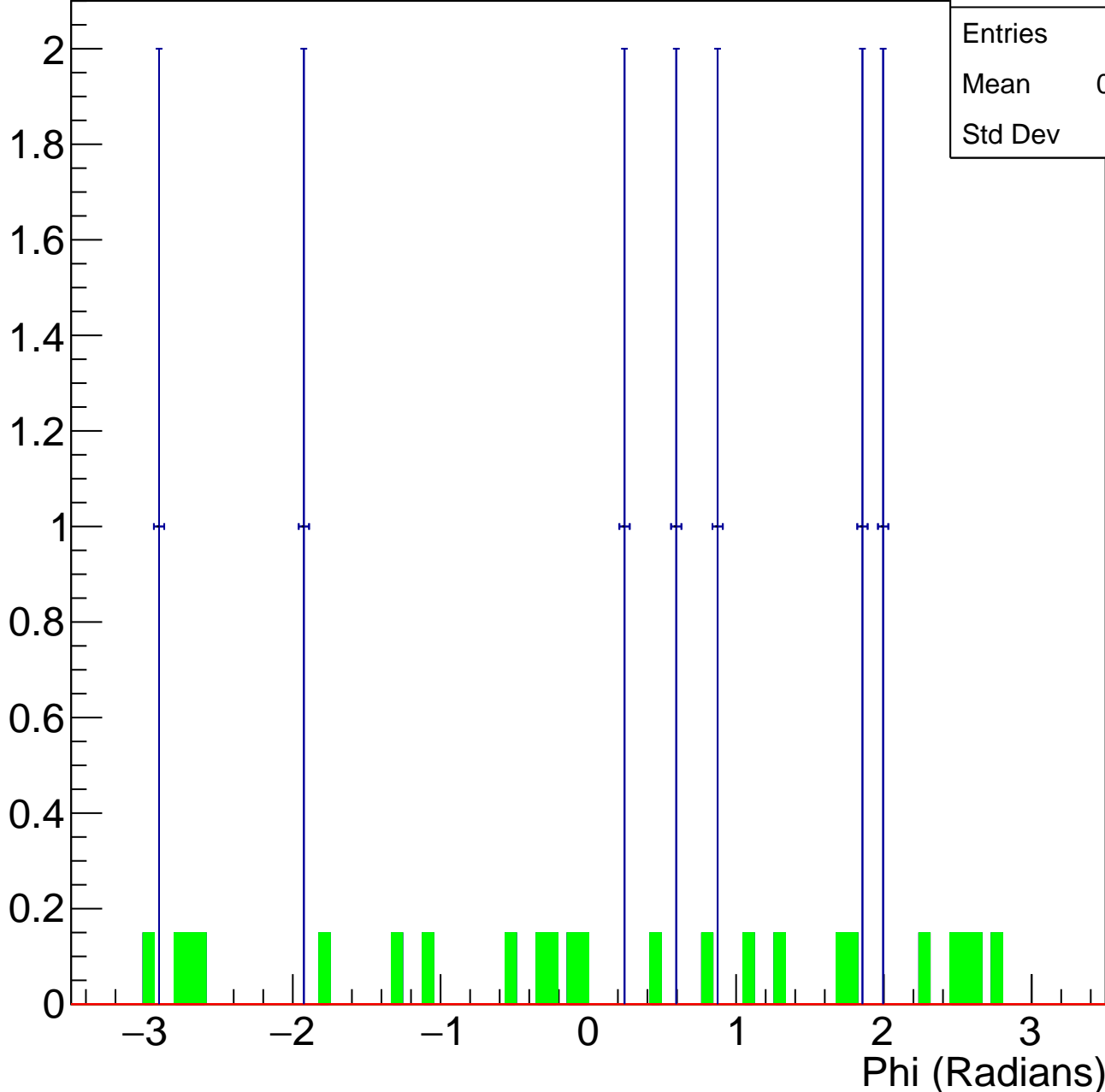


2018_Mu_Data_leading_isolated_electron_eta_after_met_cut_nominal	
Entries	7
Mean	-0.2946
Std Dev	1.038

Eta

Leading Isolated Electron Angle After MET Cut

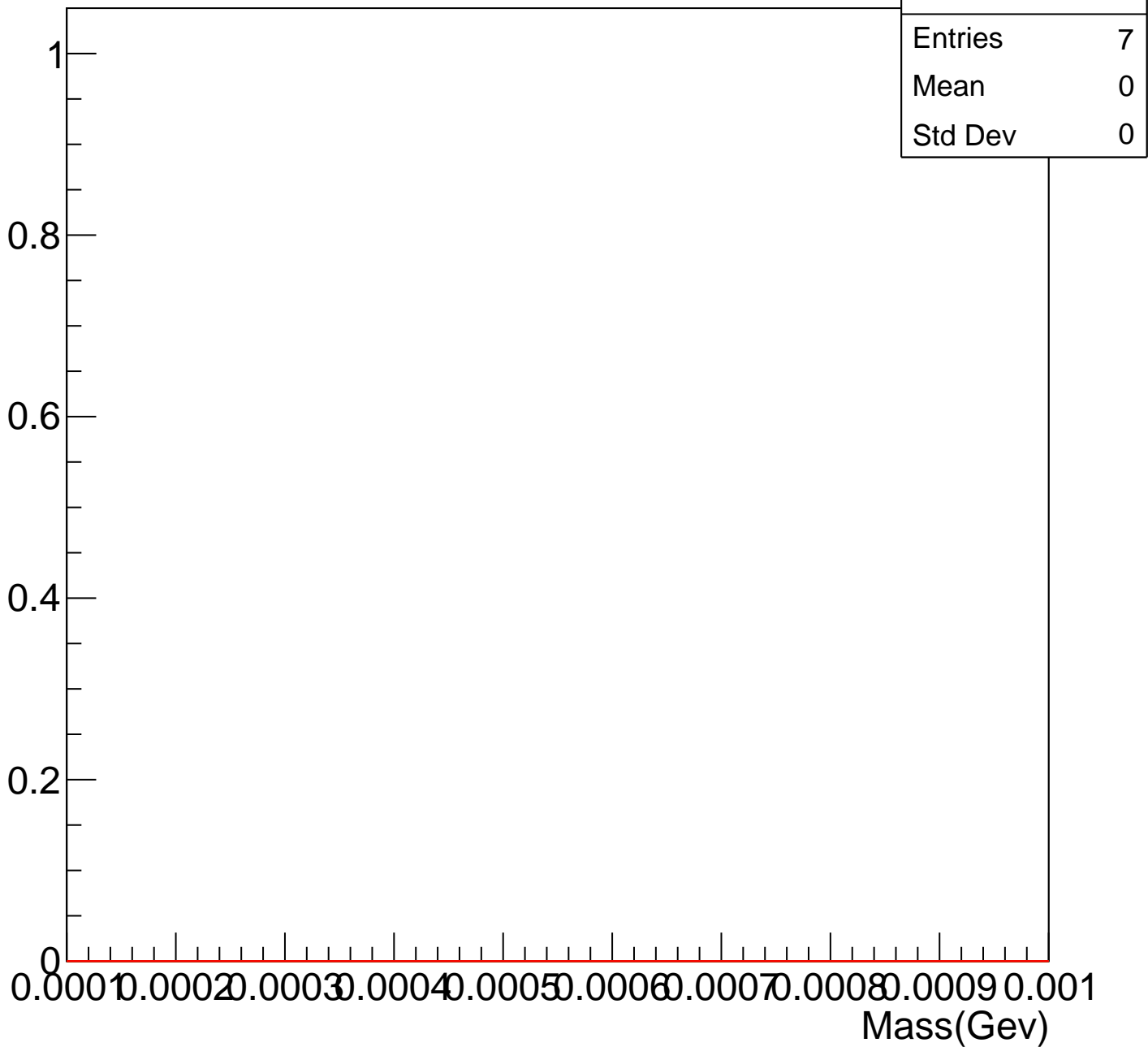
Events



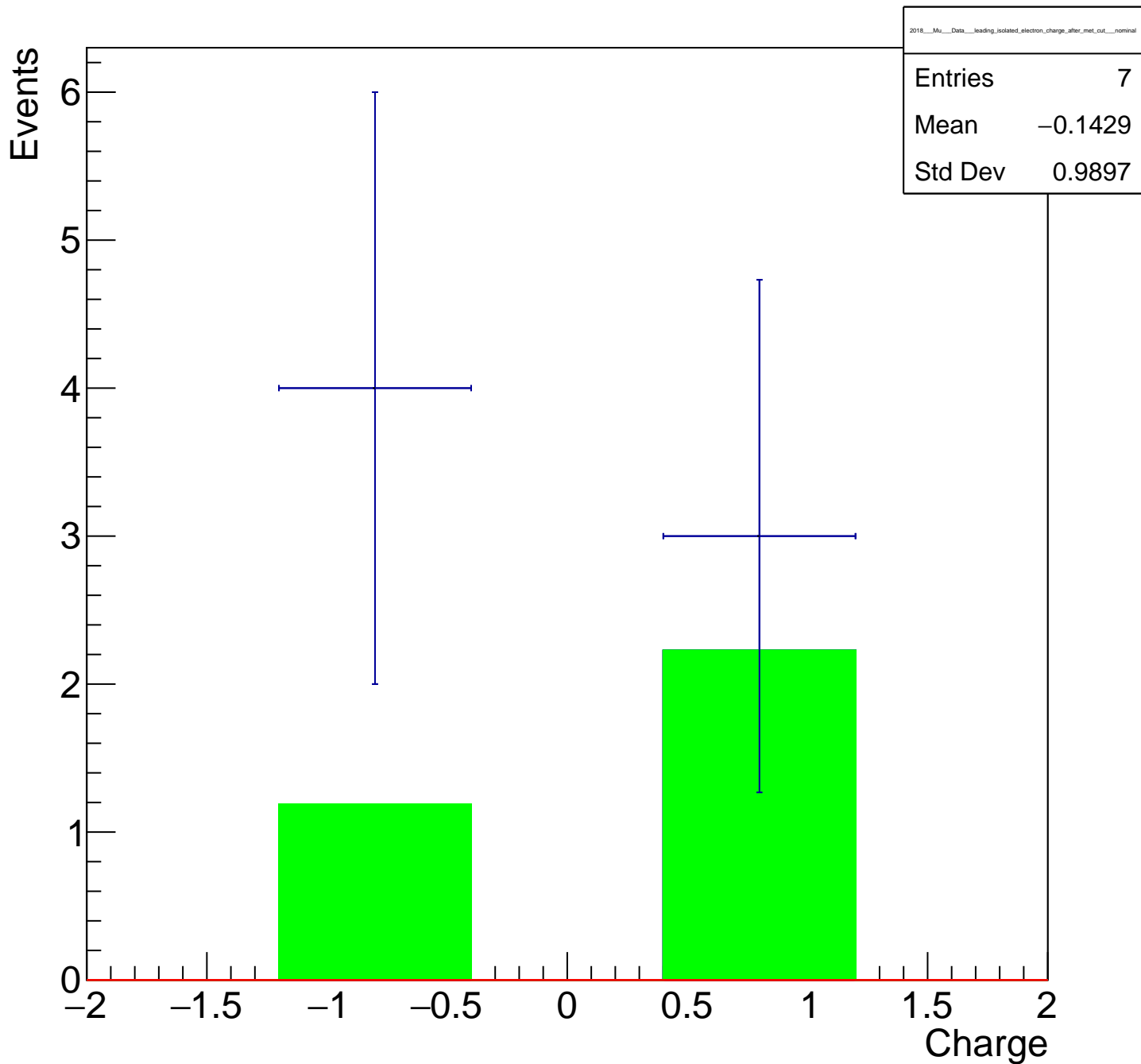
2018_Mu_Data_leading_isolated_electron_phi_after_met_cut_nominal	
Entries	7
Mean	0.08943
Std Dev	1.724

Leading Isolated Electron Mass After MET Cut

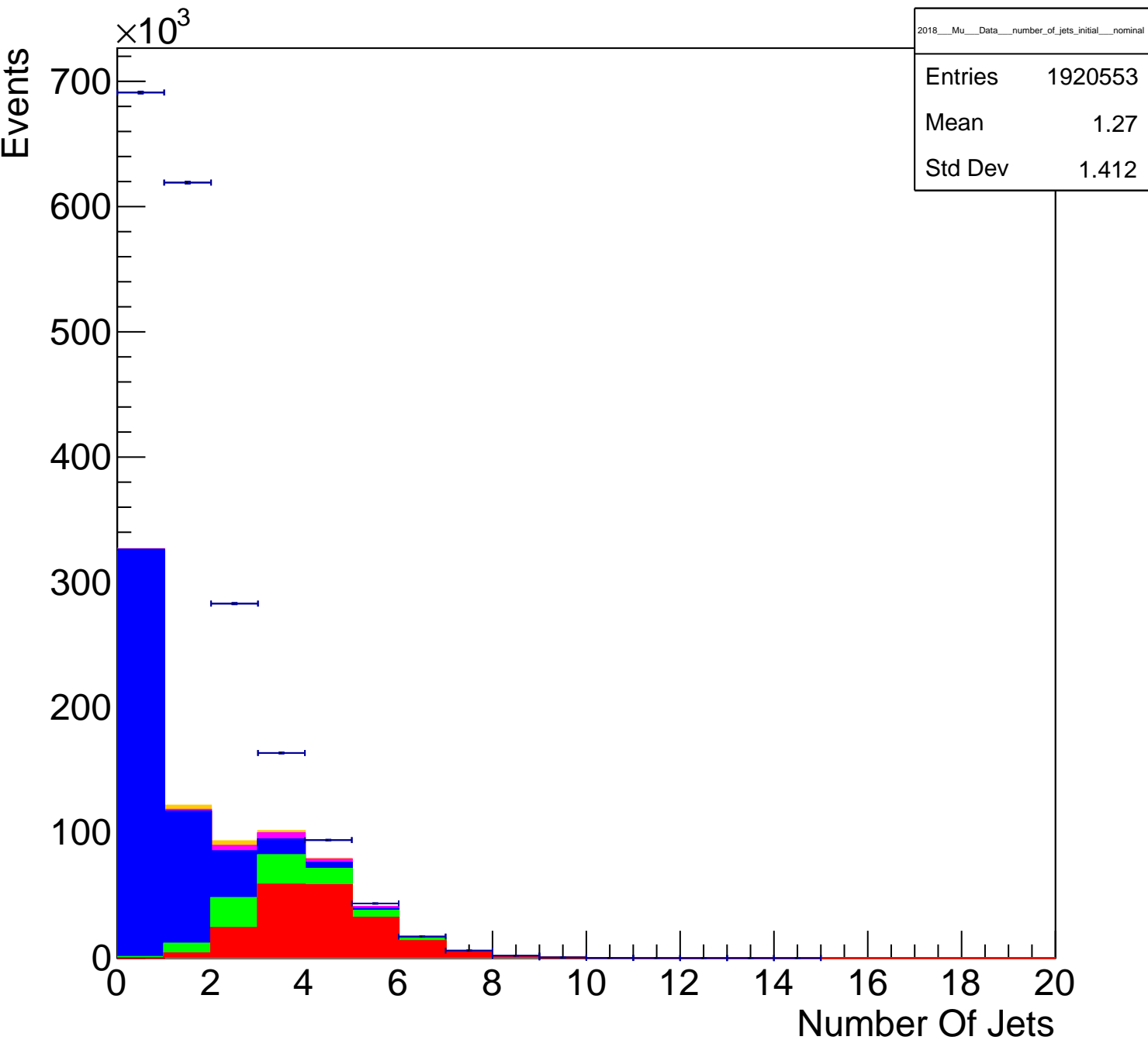
Events



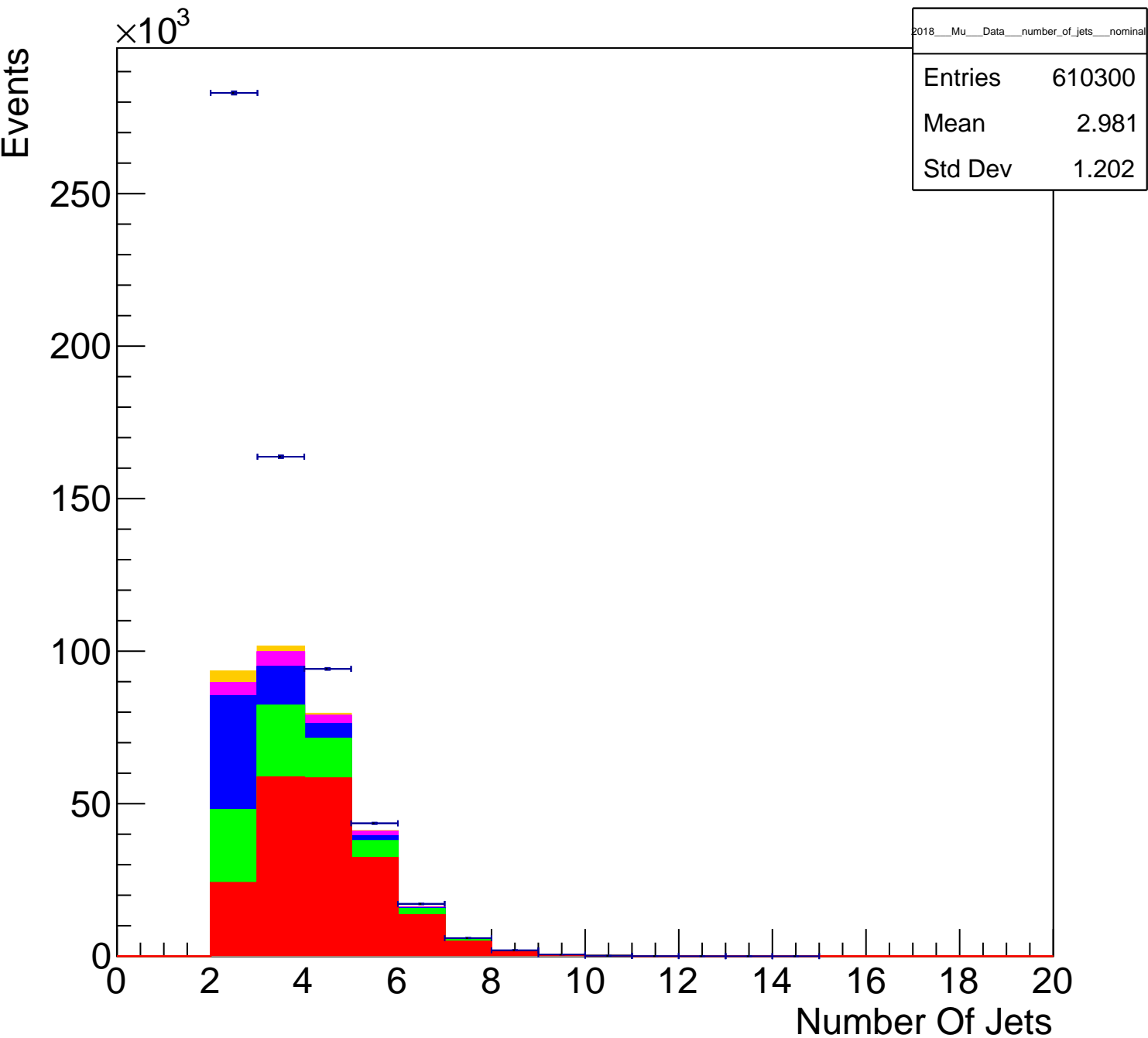
Leading Isolated Electron Charge After MET Cut



Number of Jets Before Jet Cut

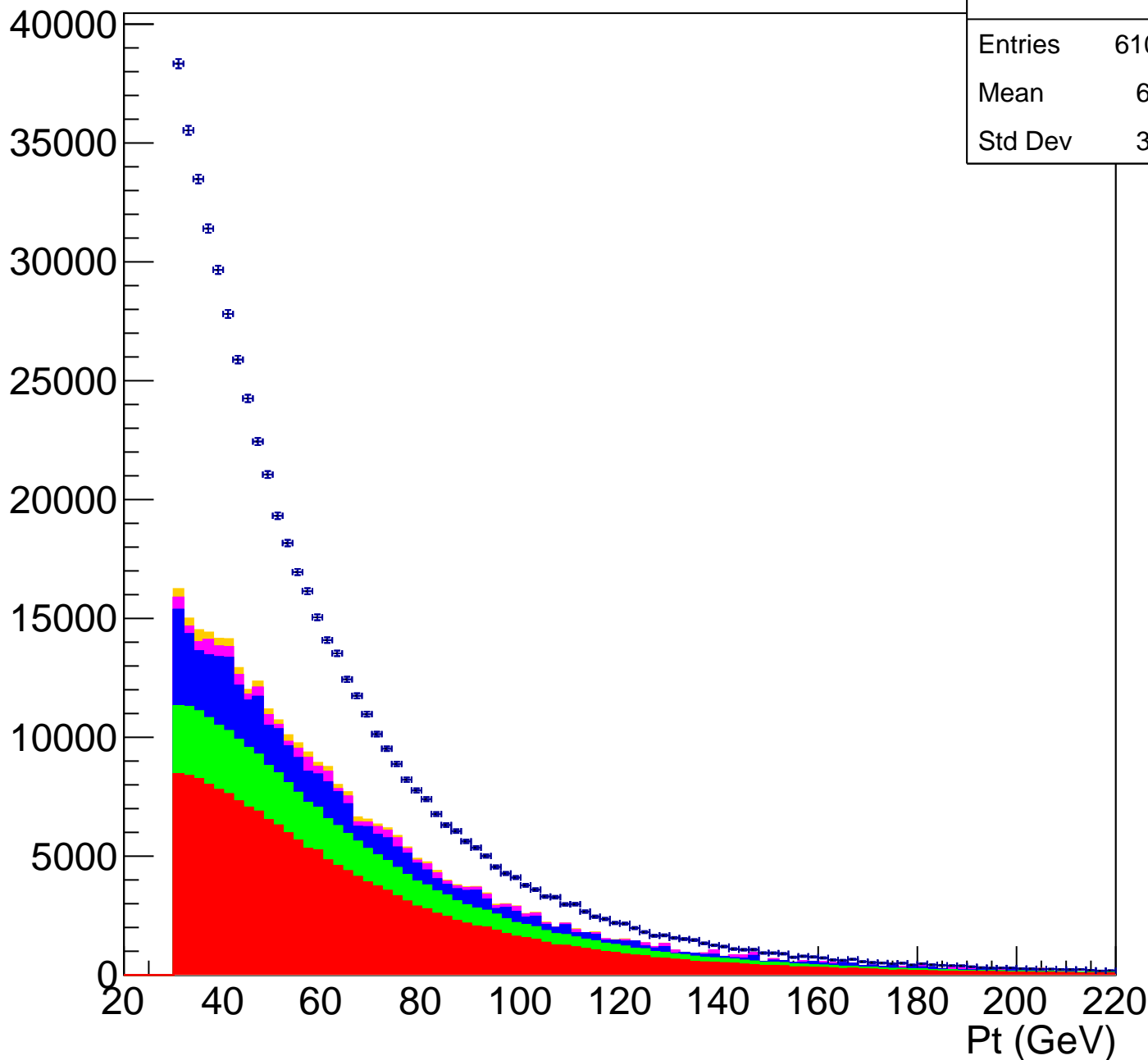


Number Of Jets

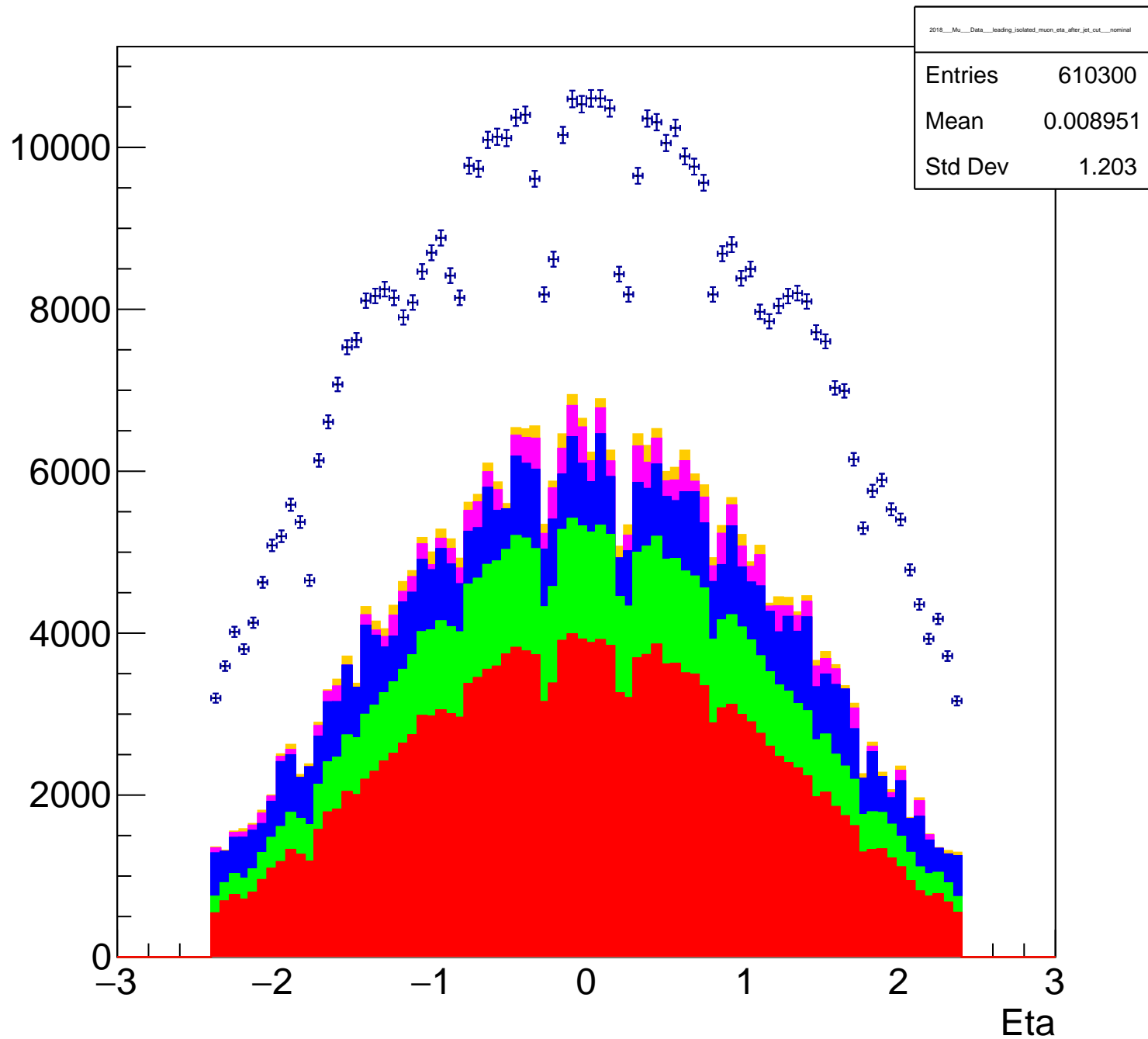


Leading Isolated Muon Transverse Momentum After Jet Cut

2018_Mu_Data_leading_isolated_muon_pt_after_jet_cut_nominal	
Entries	610300
Mean	61.39
Std Dev	31.62

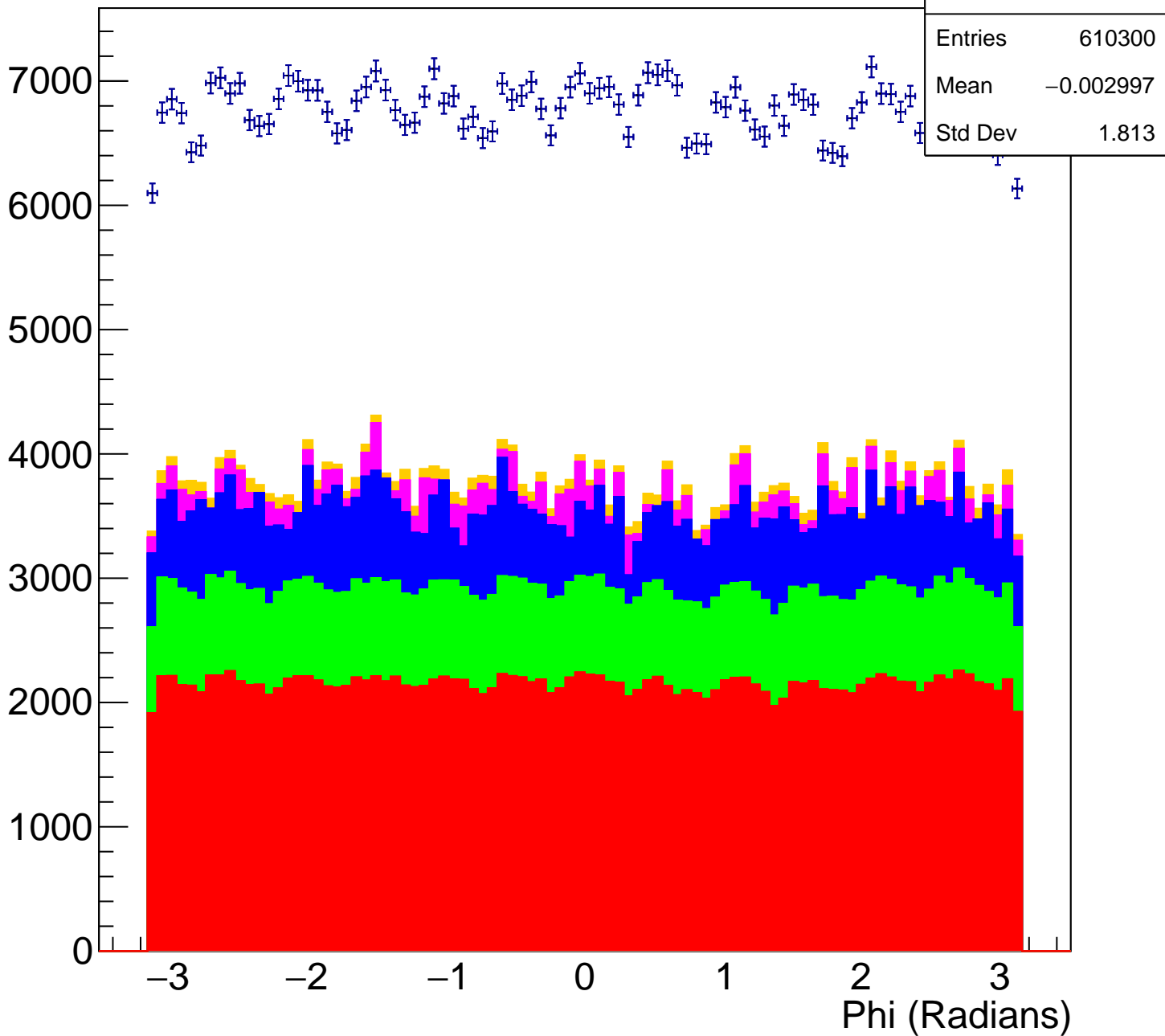


Leading Isolated Muon Pseudorapidity After Jet Cut

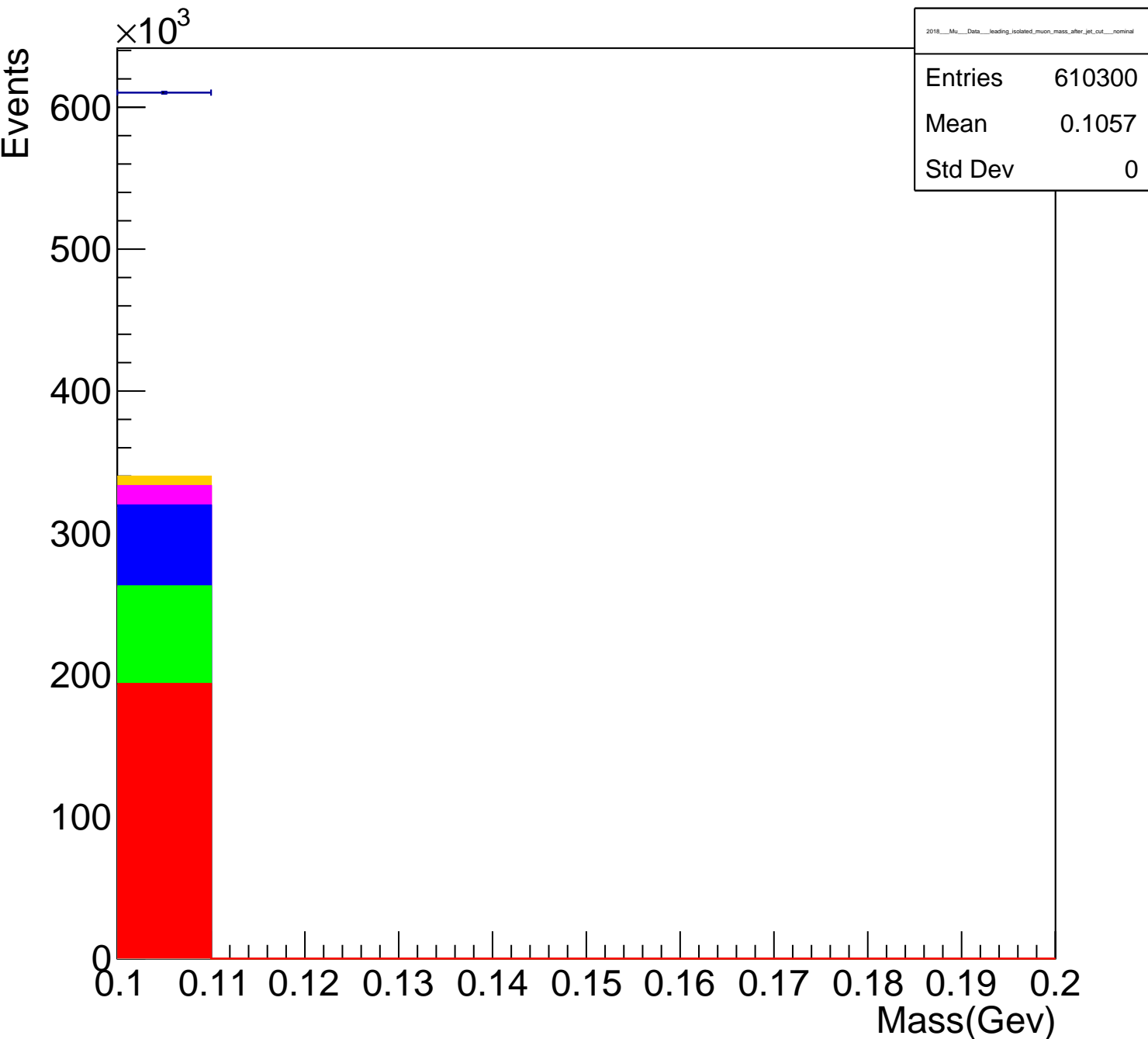


Leading Isolated Muon Angle After Jet Cut

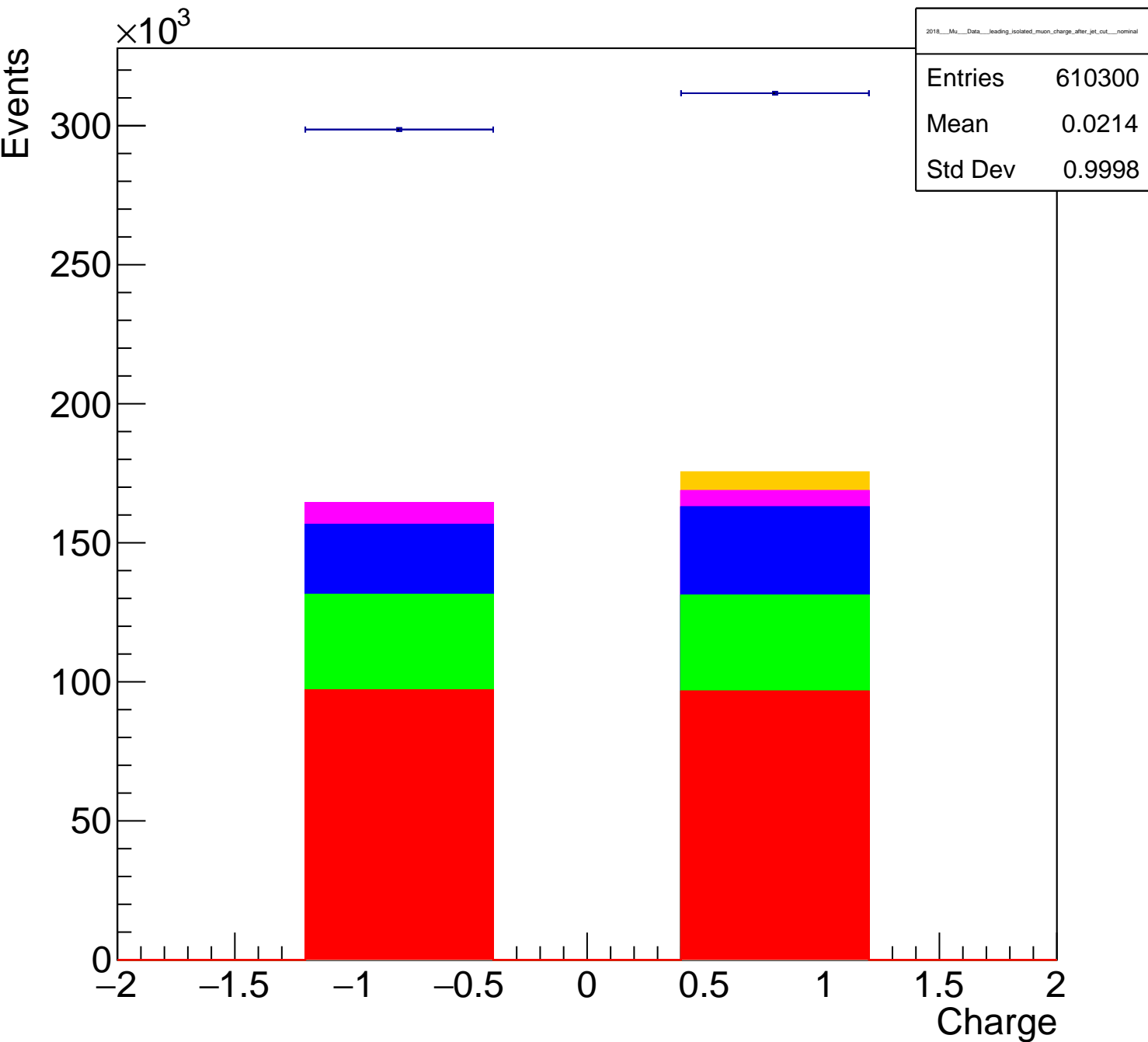
Events



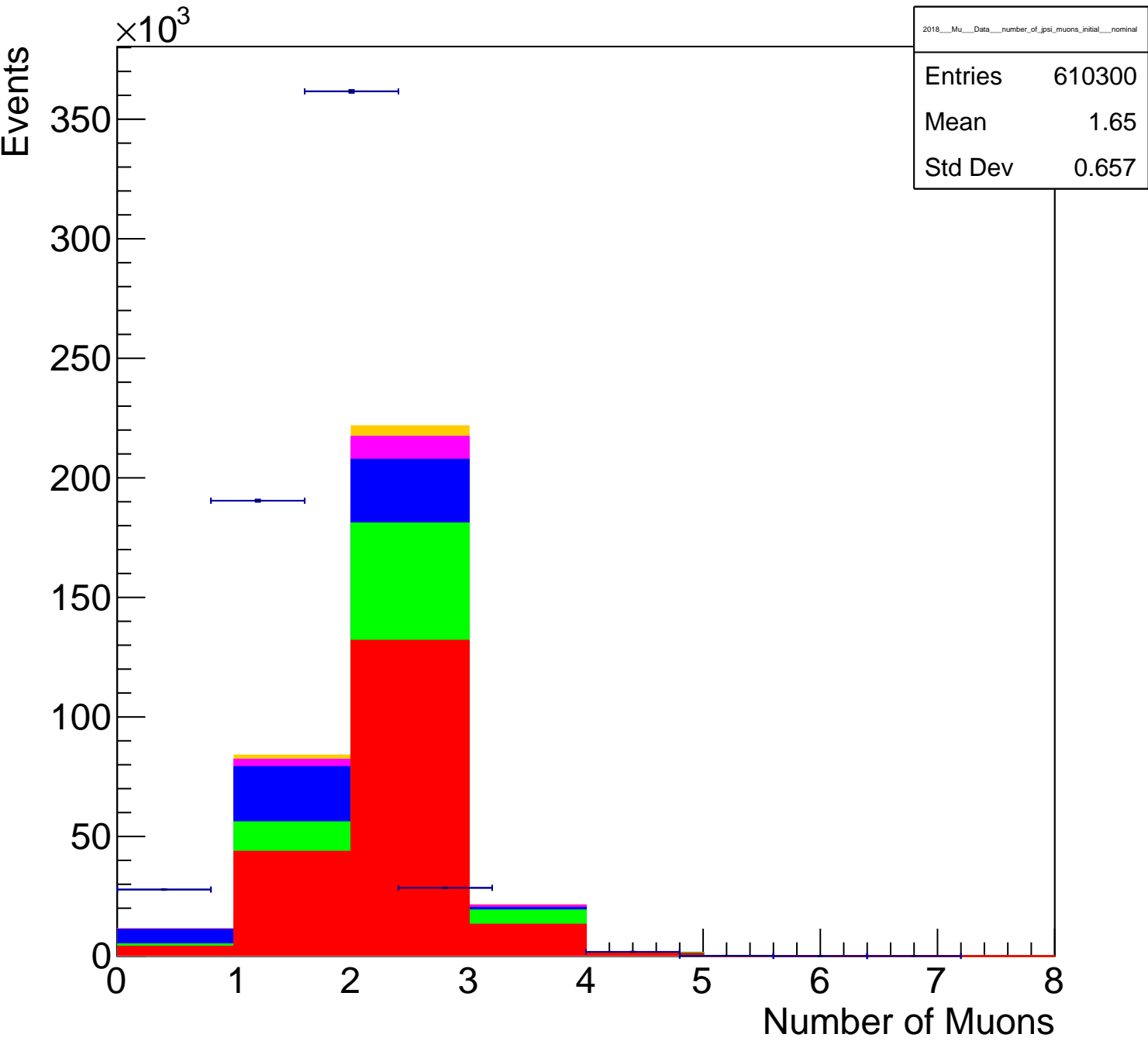
Leading Isolated Muon Mass After Jet Cut



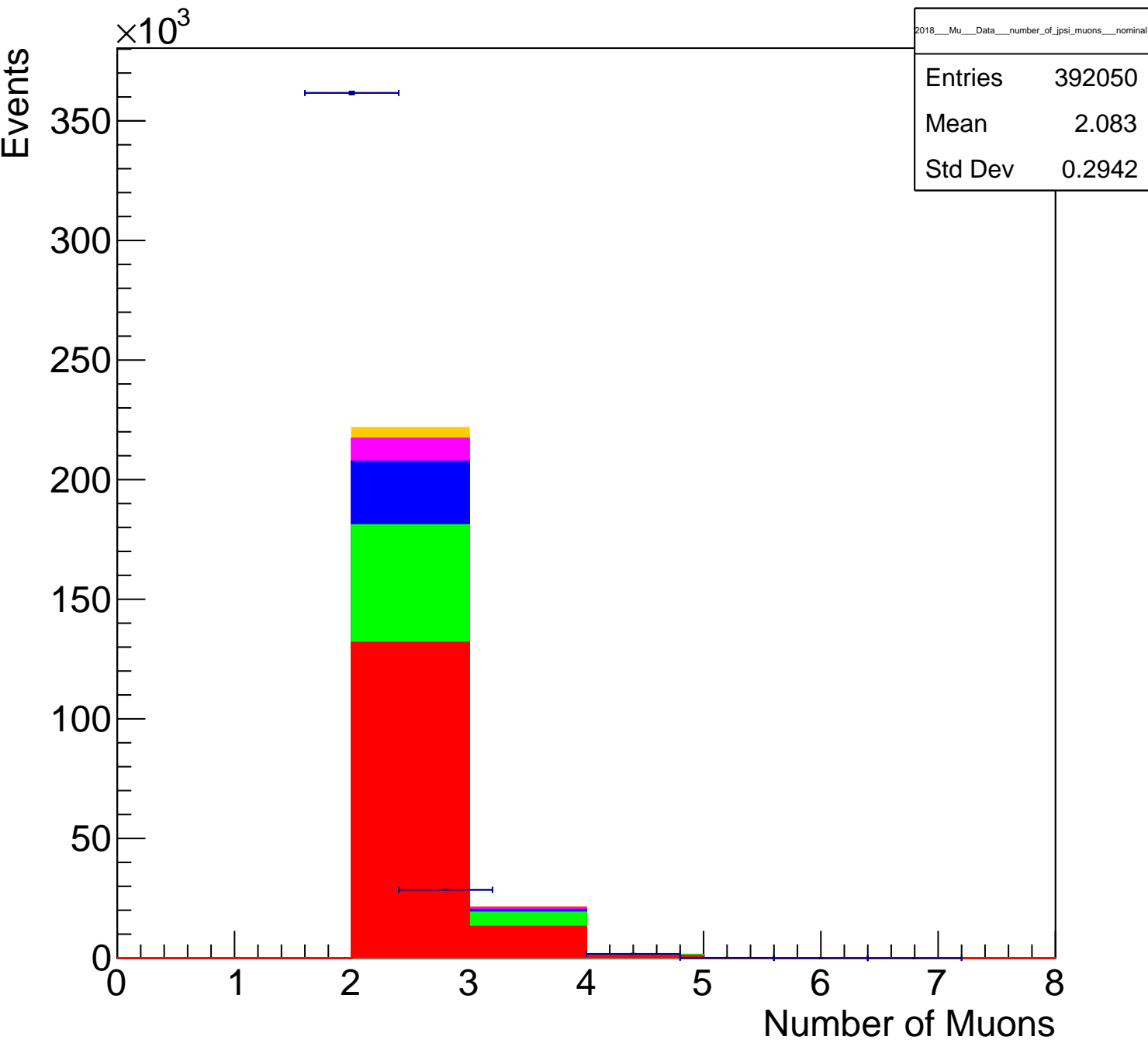
Leading Isolated Muon Charge After Jet Cut



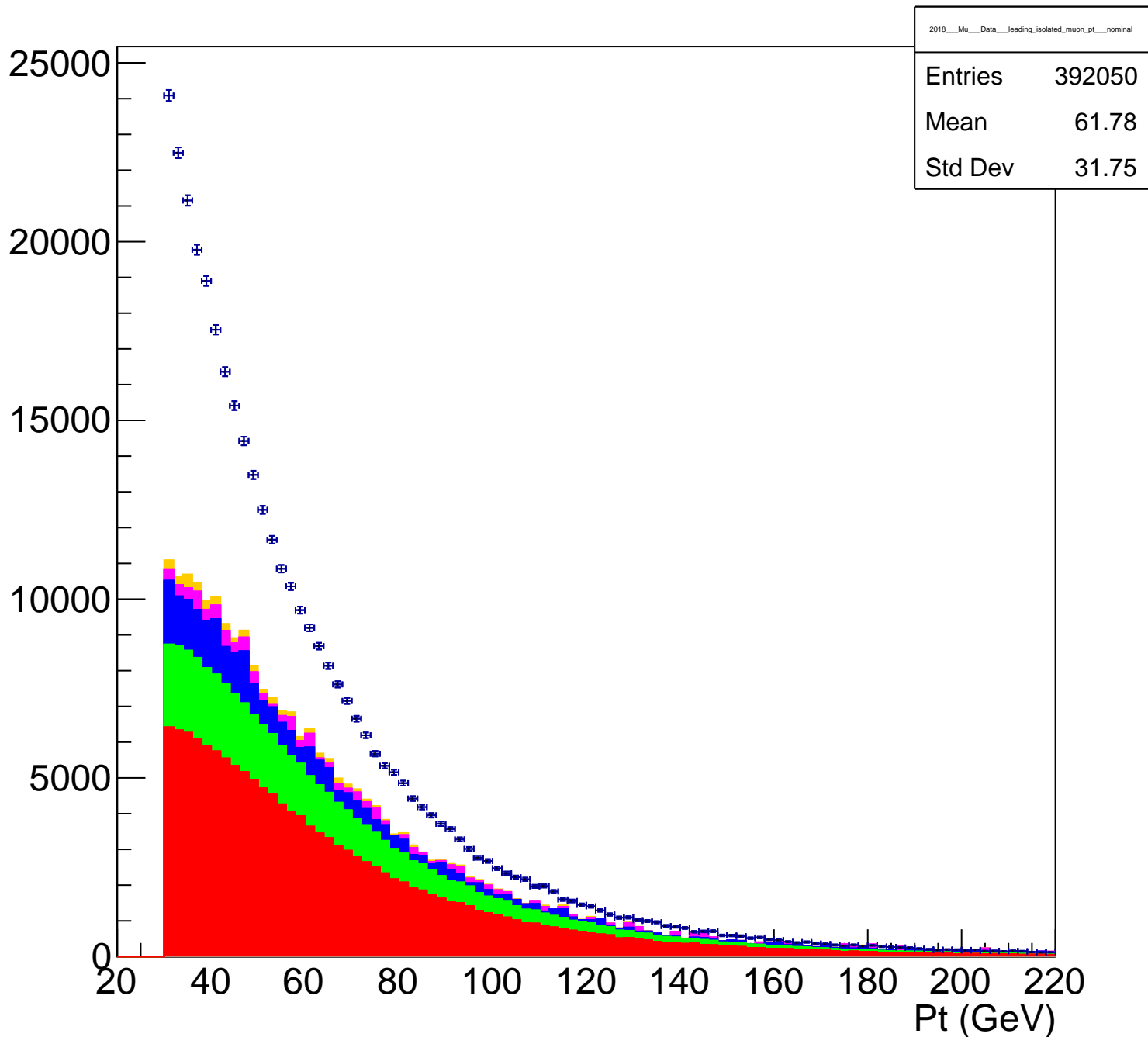
Number of JPsi Muons Before JPsi Muon Cut



Number of JPsi Muons



Leading Isolated Muon Transverse Momentum



Leading Isolated Muon Pseudorapidity

Events

7000
6000
5000
4000
3000
2000
1000
0

2018_Mu_Data_leading_isolated_muon_eta_nominal

Entries 392050

Mean 0.006202

Std Dev 1.178

-3

-2

-1

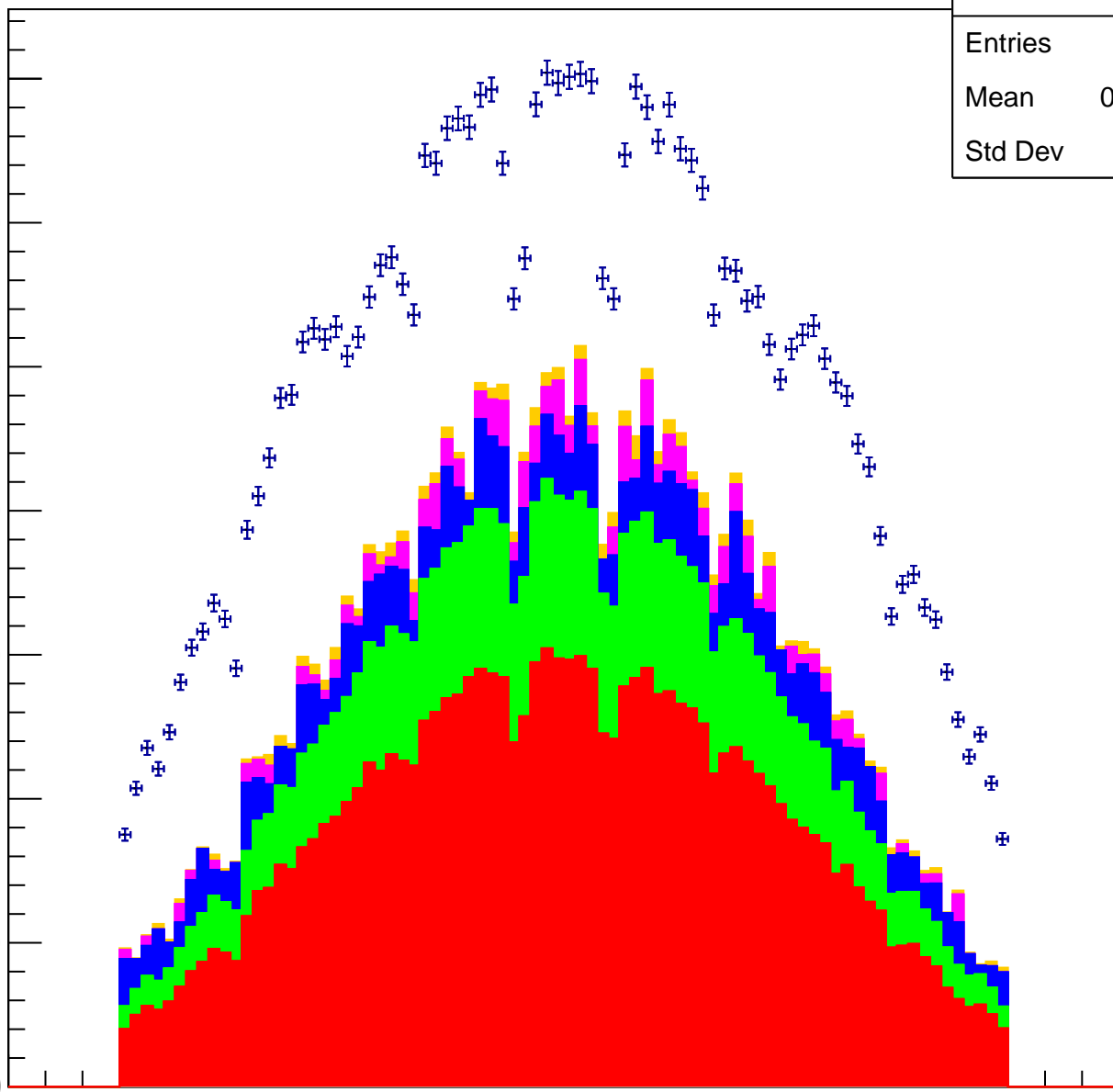
0

1

2

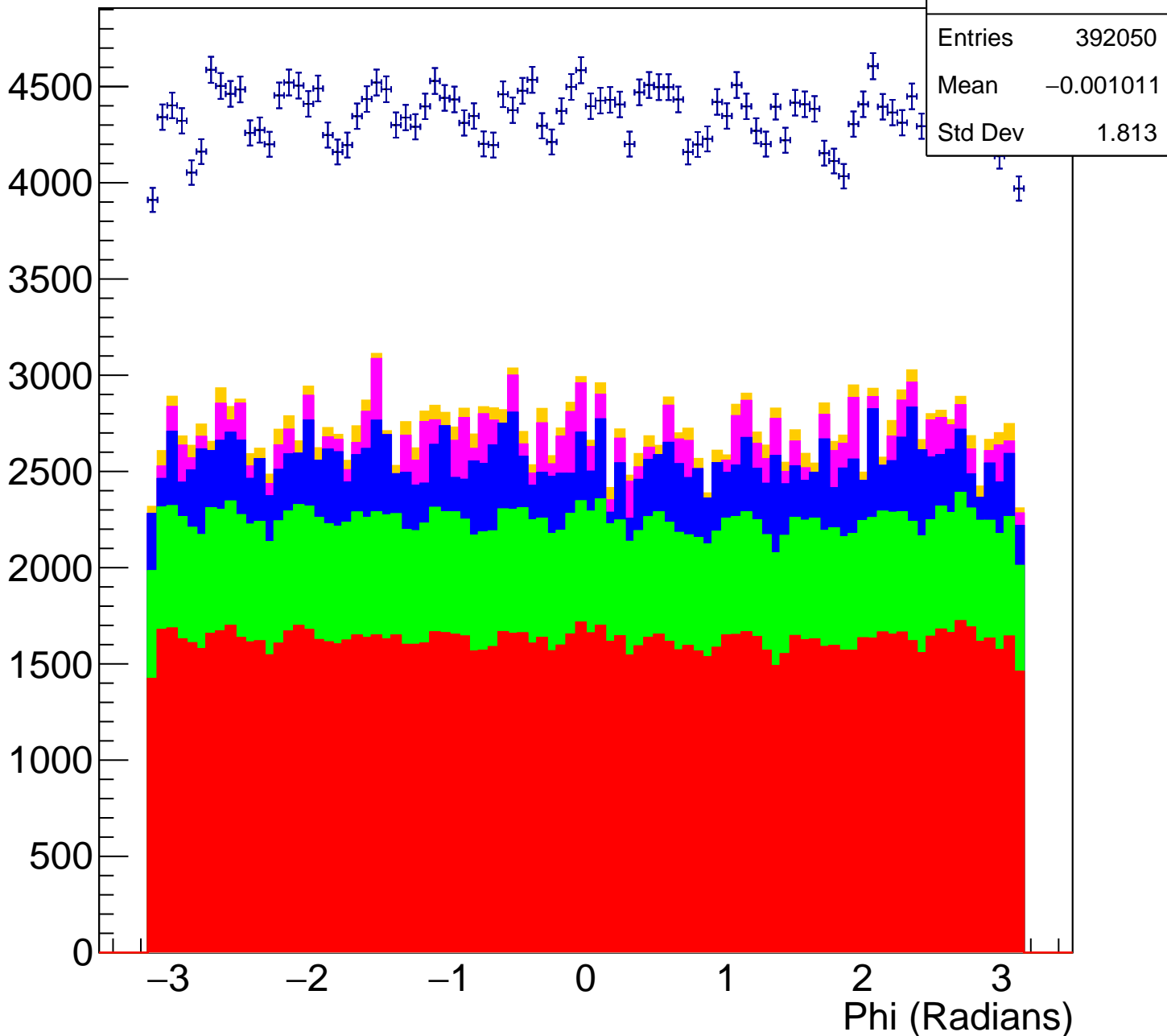
3

Eta

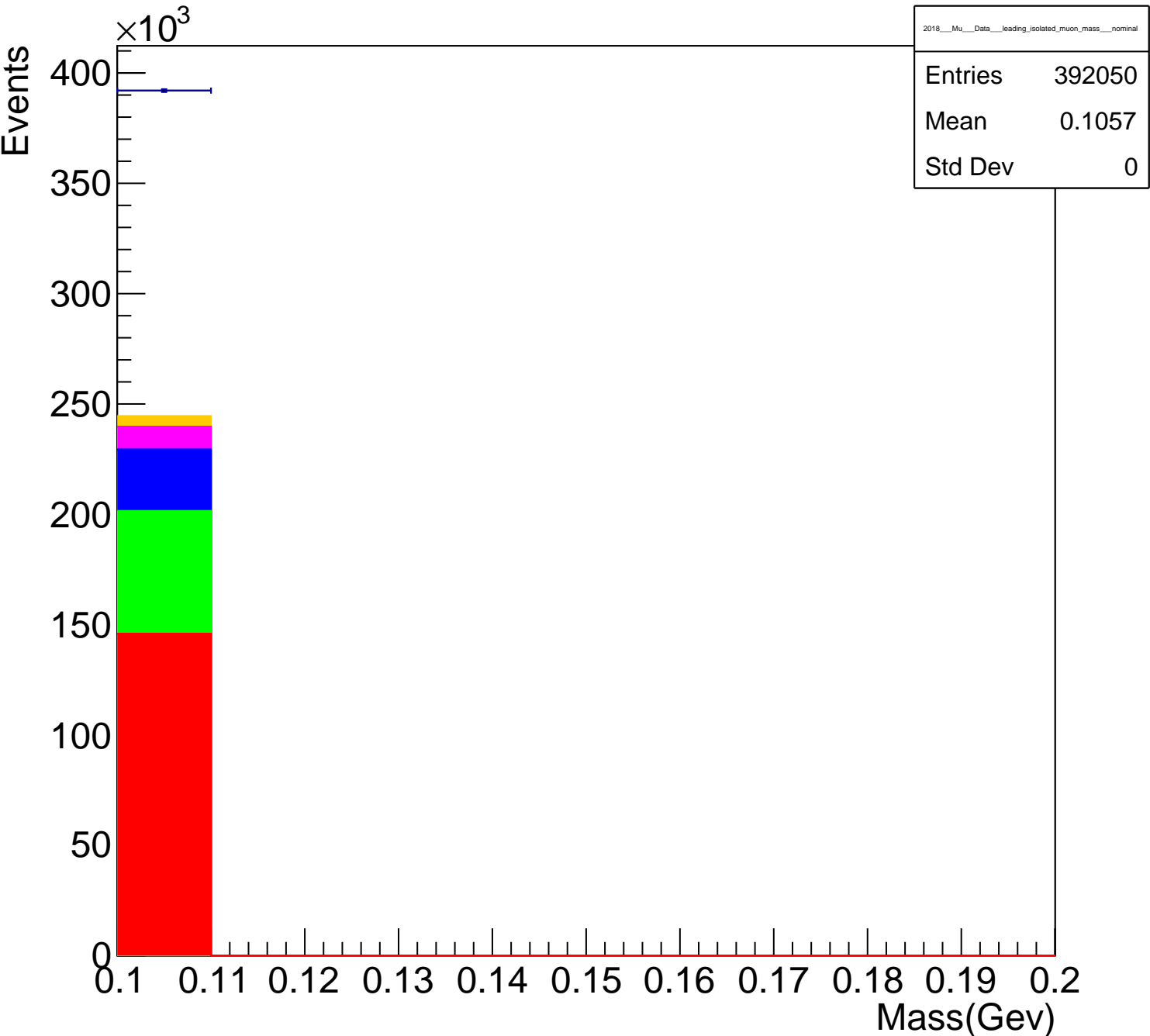


Leading Isolated Muon Angle

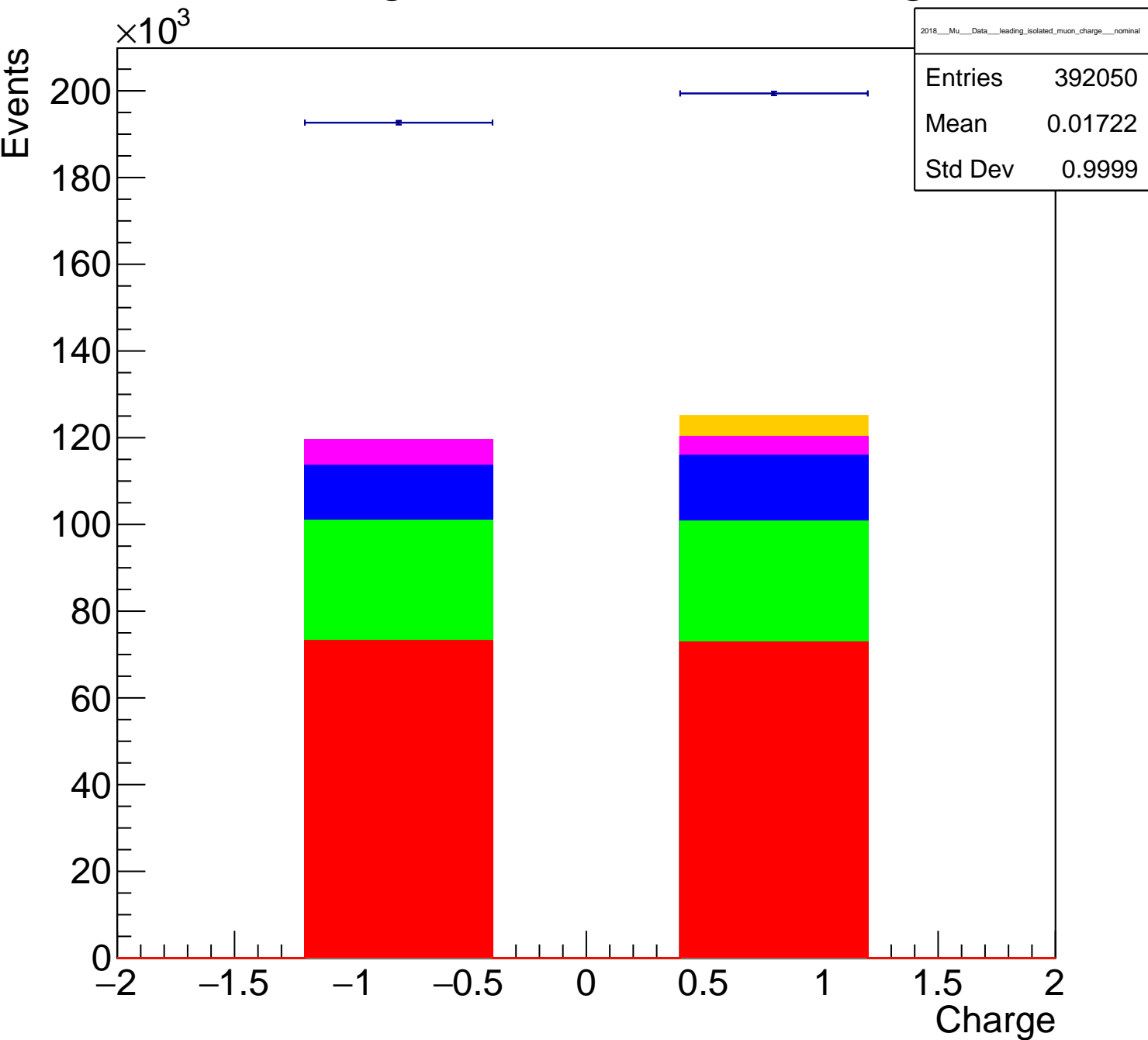
Events



Leading Isolated Muon Mass



Leading Isolated Muon Charge



Jet Transverse Momentum for Leading Jet

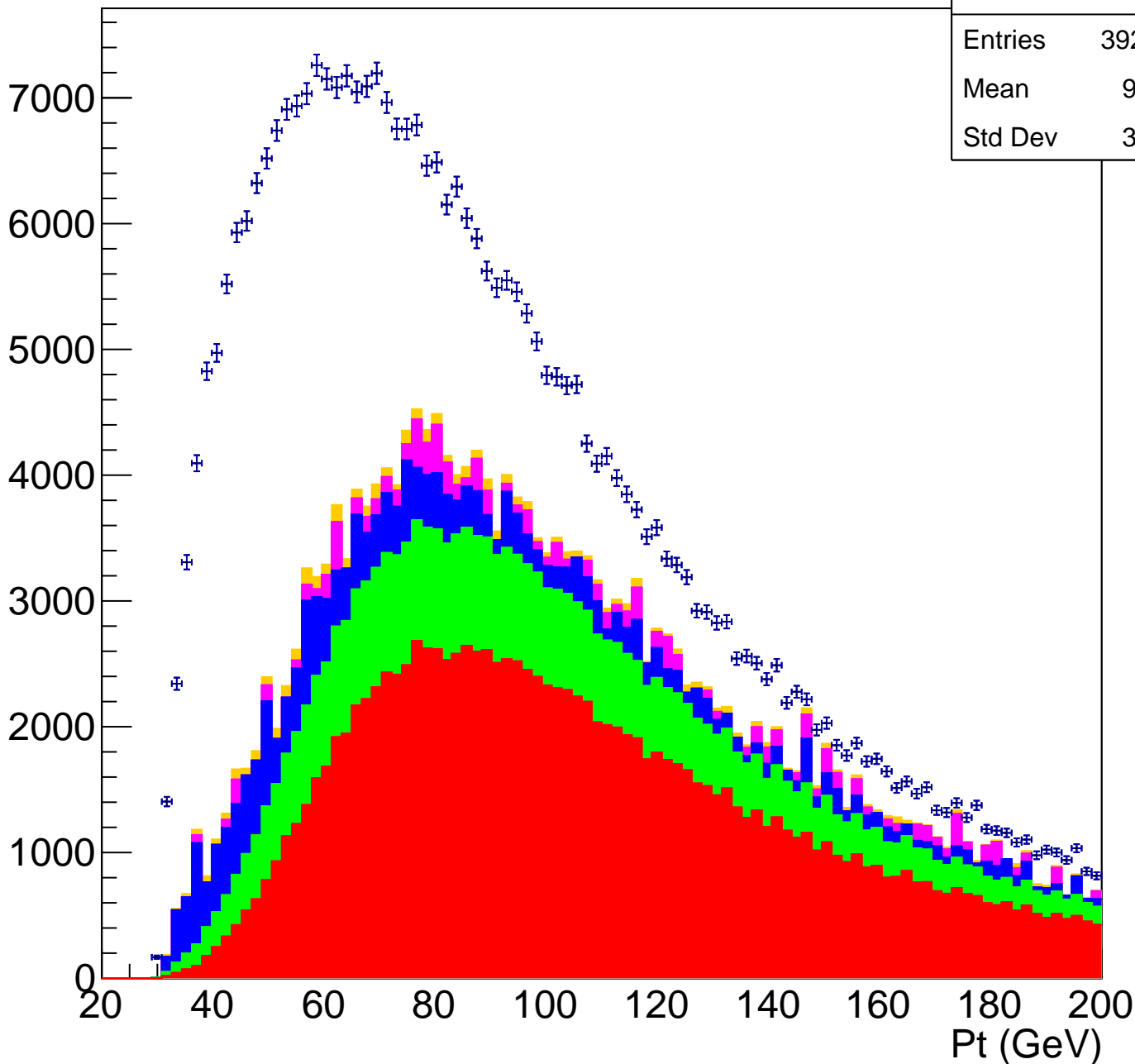
Events

2018__Mu__Data__jet1_pt__nominal

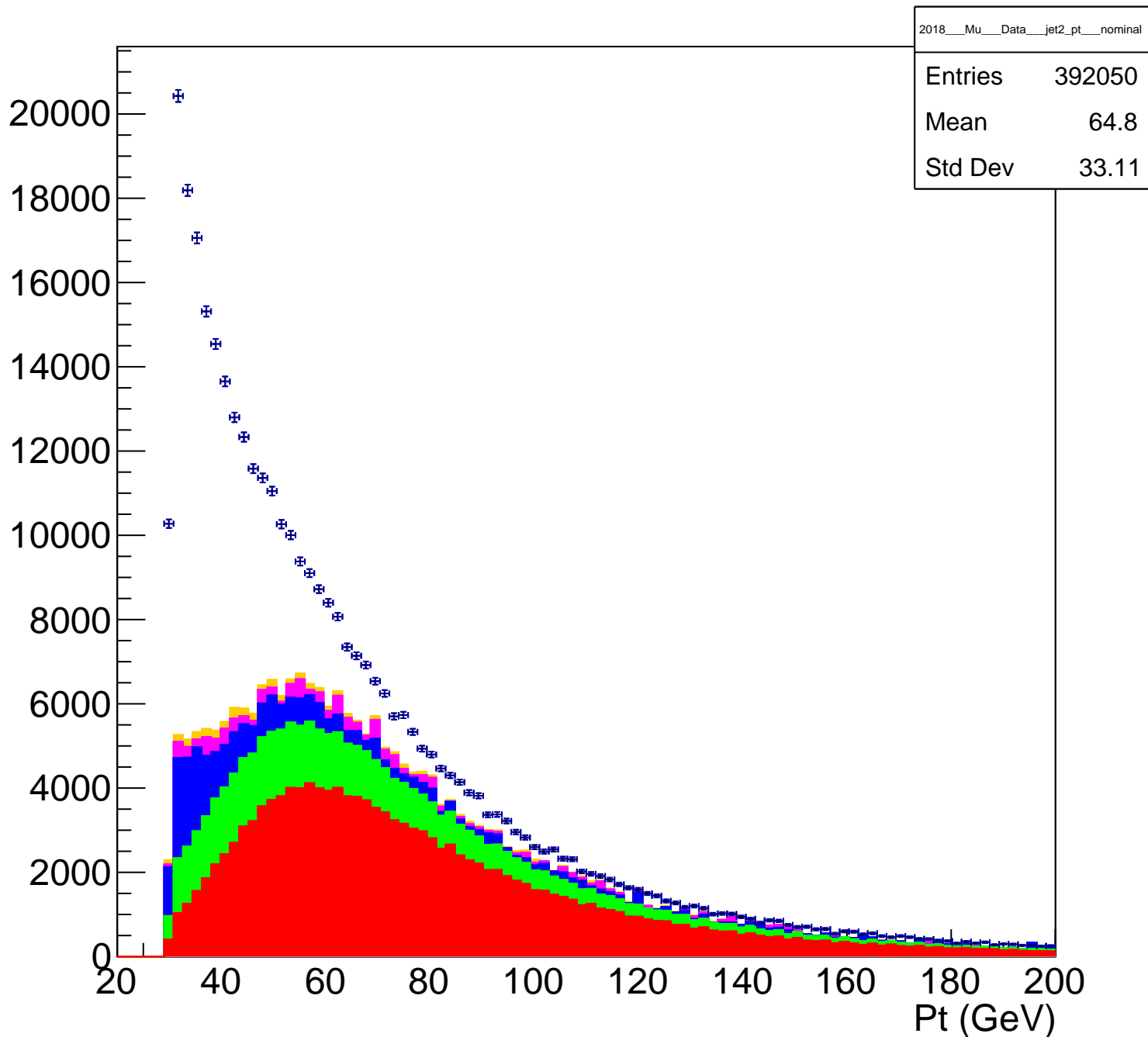
Entries 392050

Mean 91.68

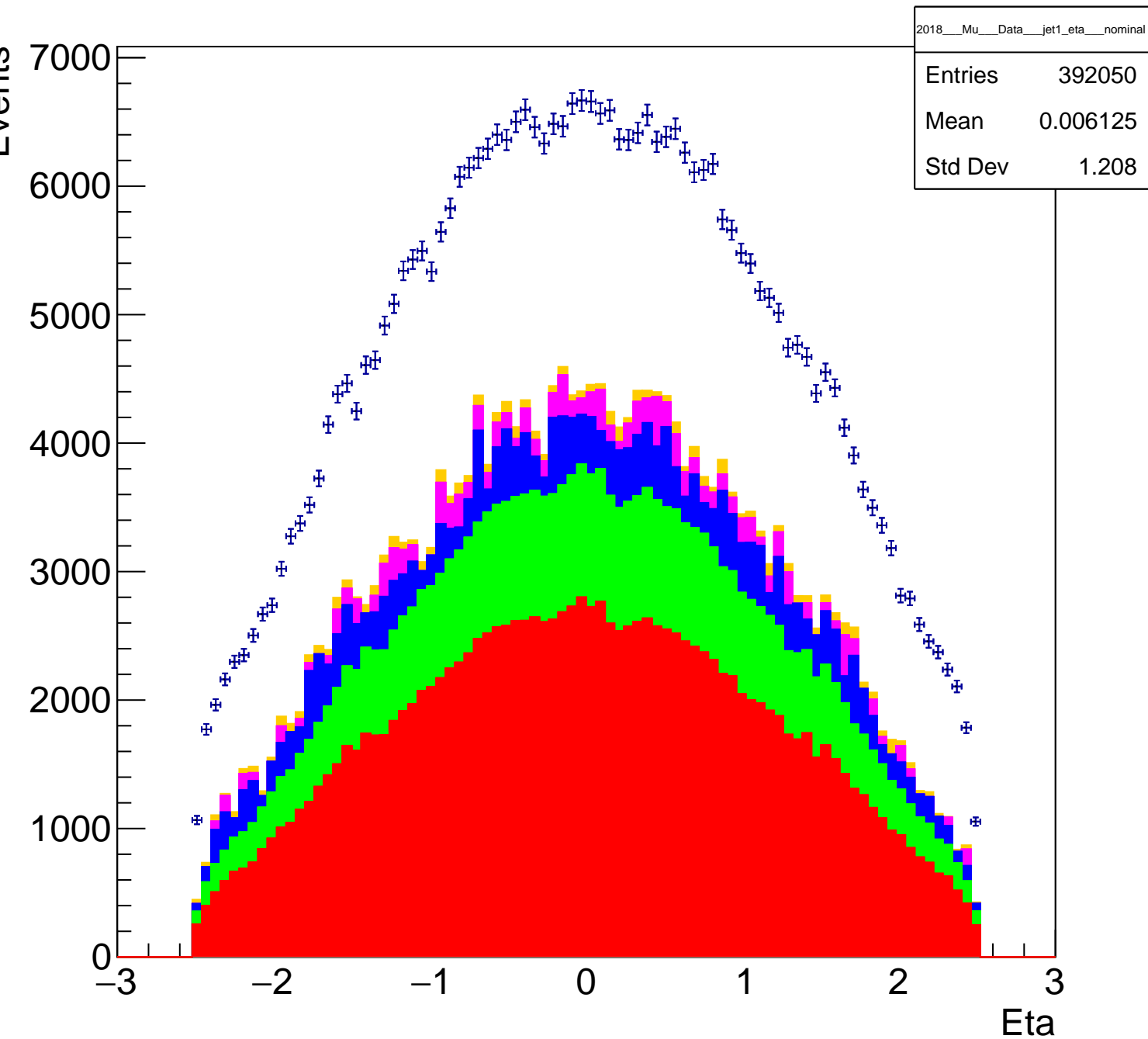
Std Dev 39.59



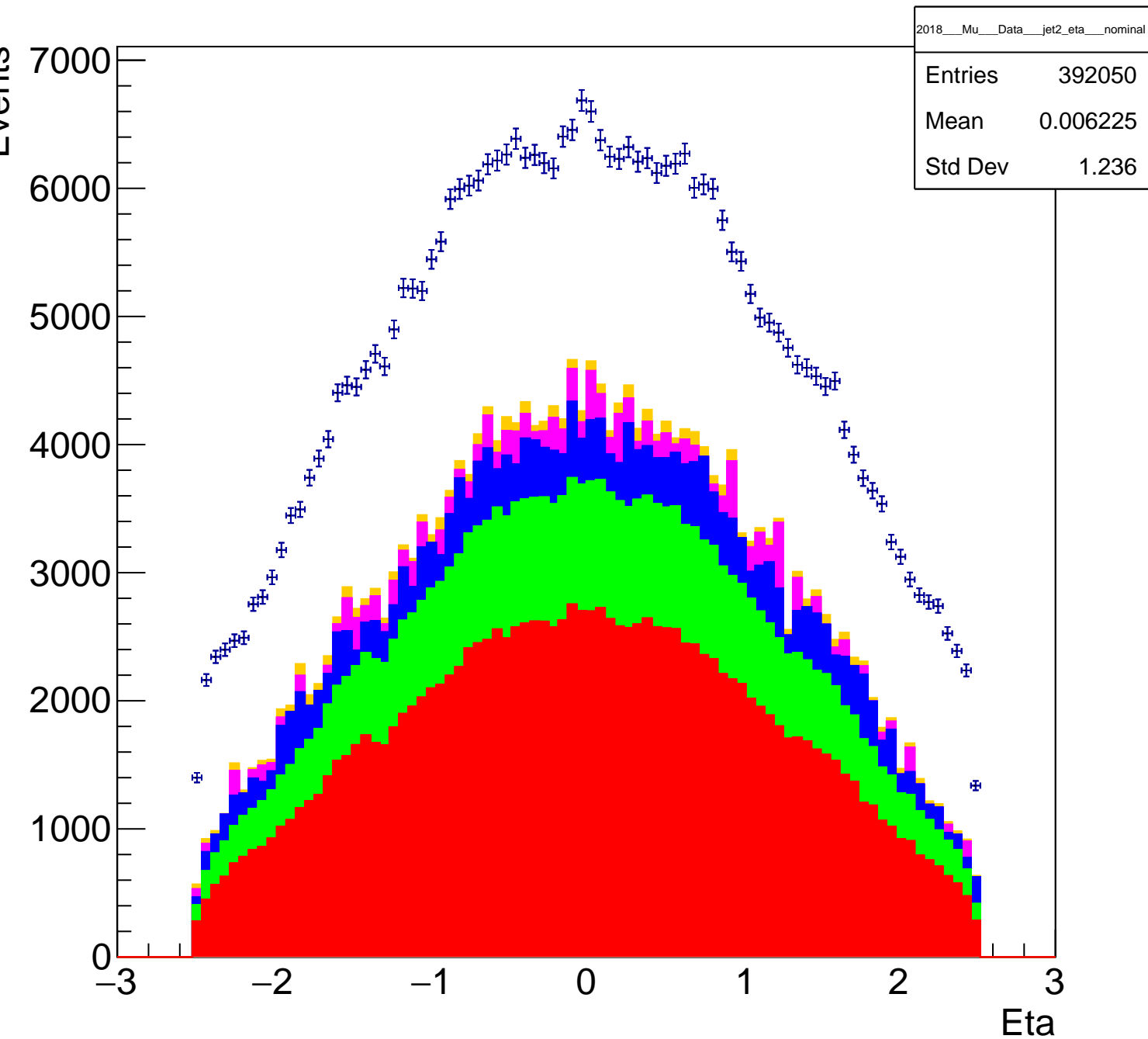
Jet Transverse Momentum for Subleading Jet



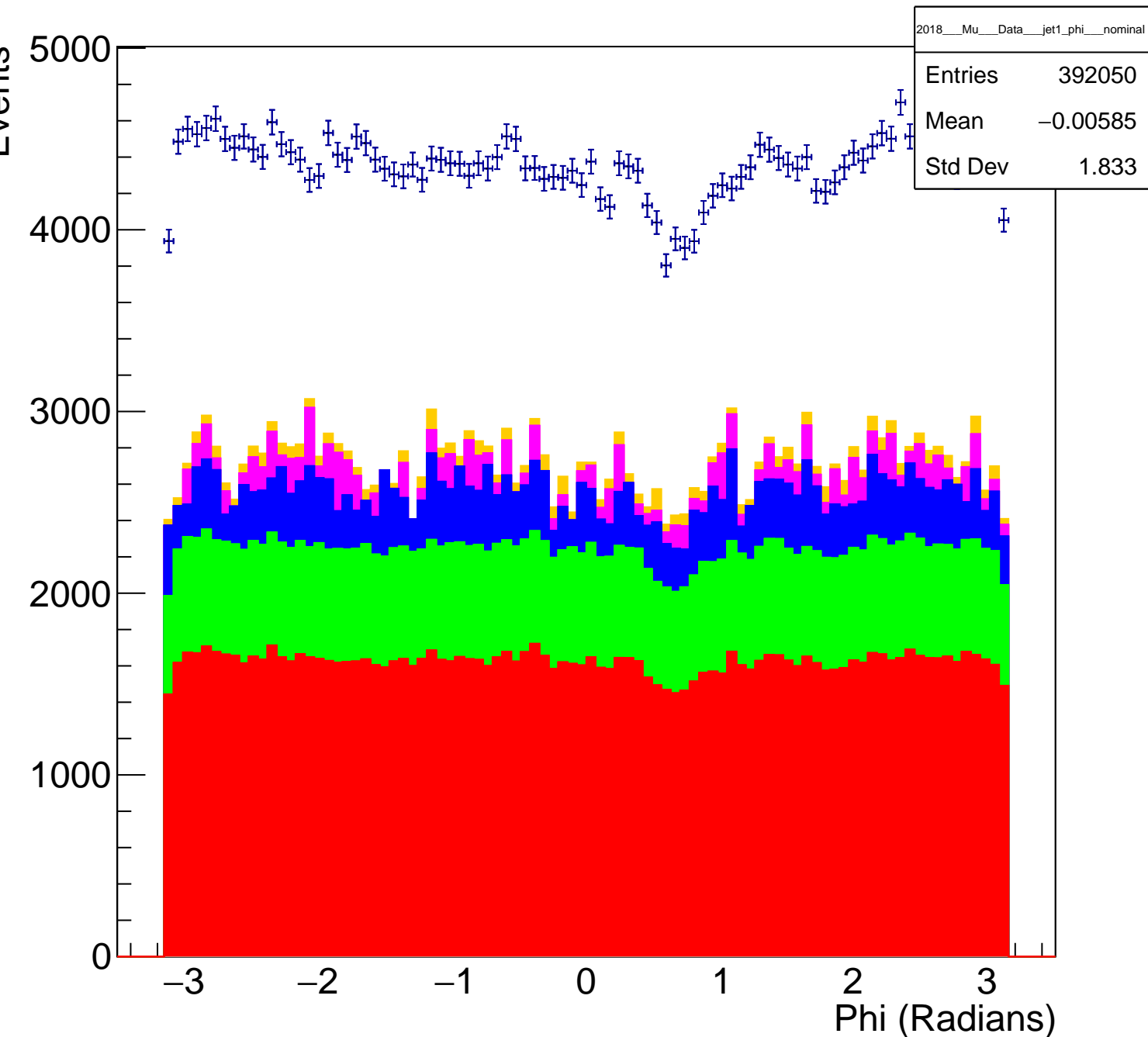
Jet Pseudorapidity for Leading Jet



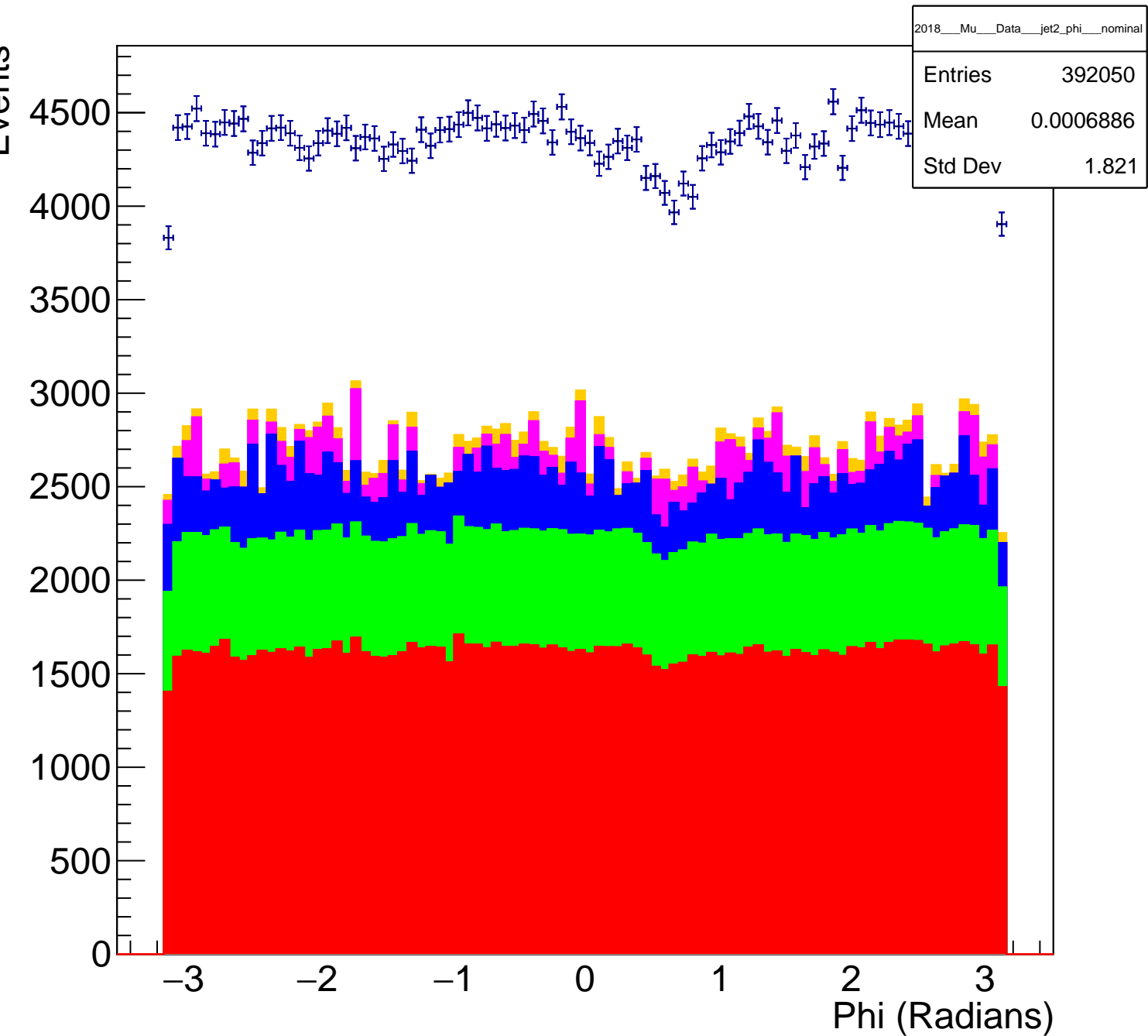
Jet Pseudorapidity for Subleading Jet



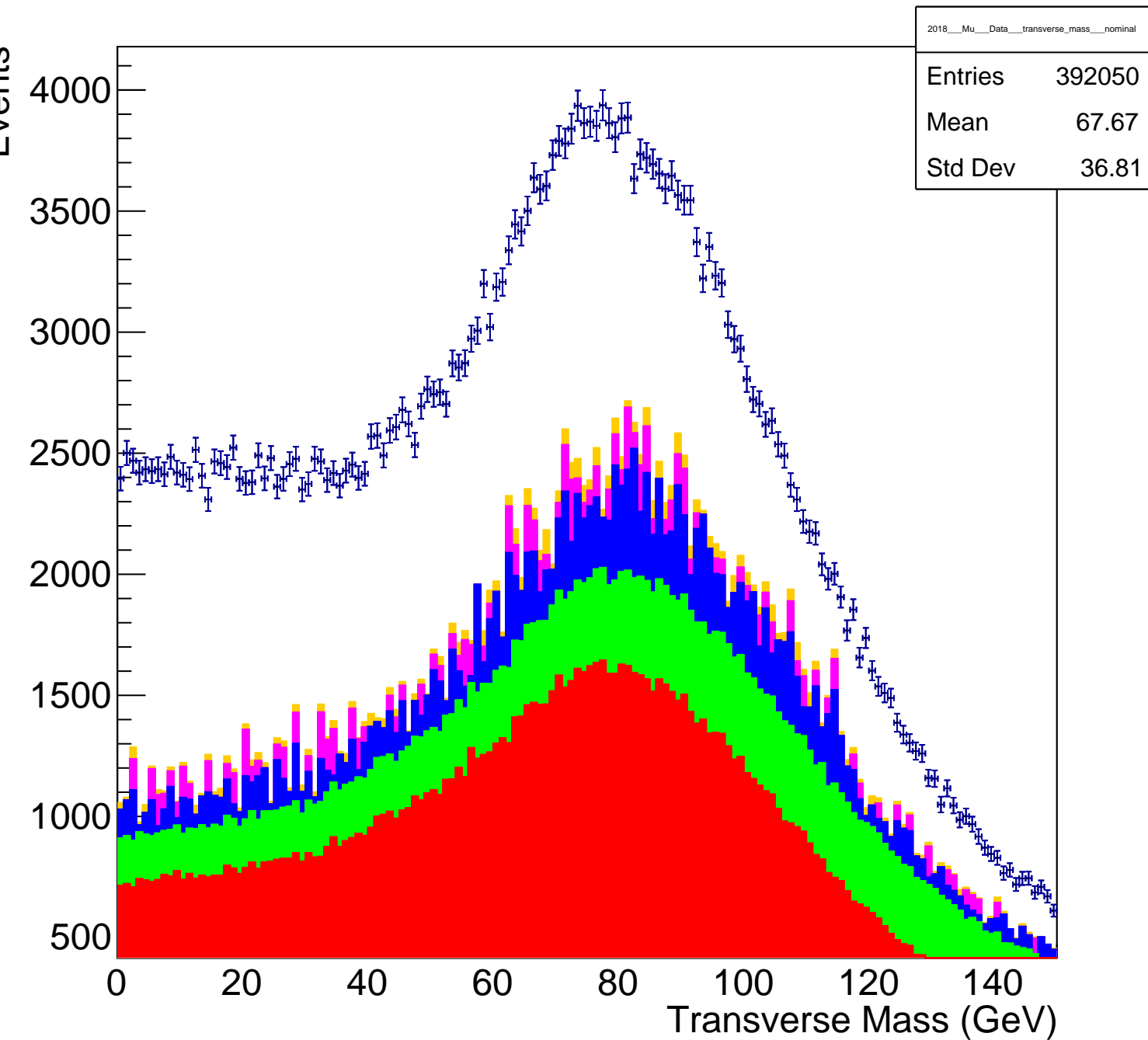
Jet Angle for Leading Jet



Jet Angle for Subleading Jet

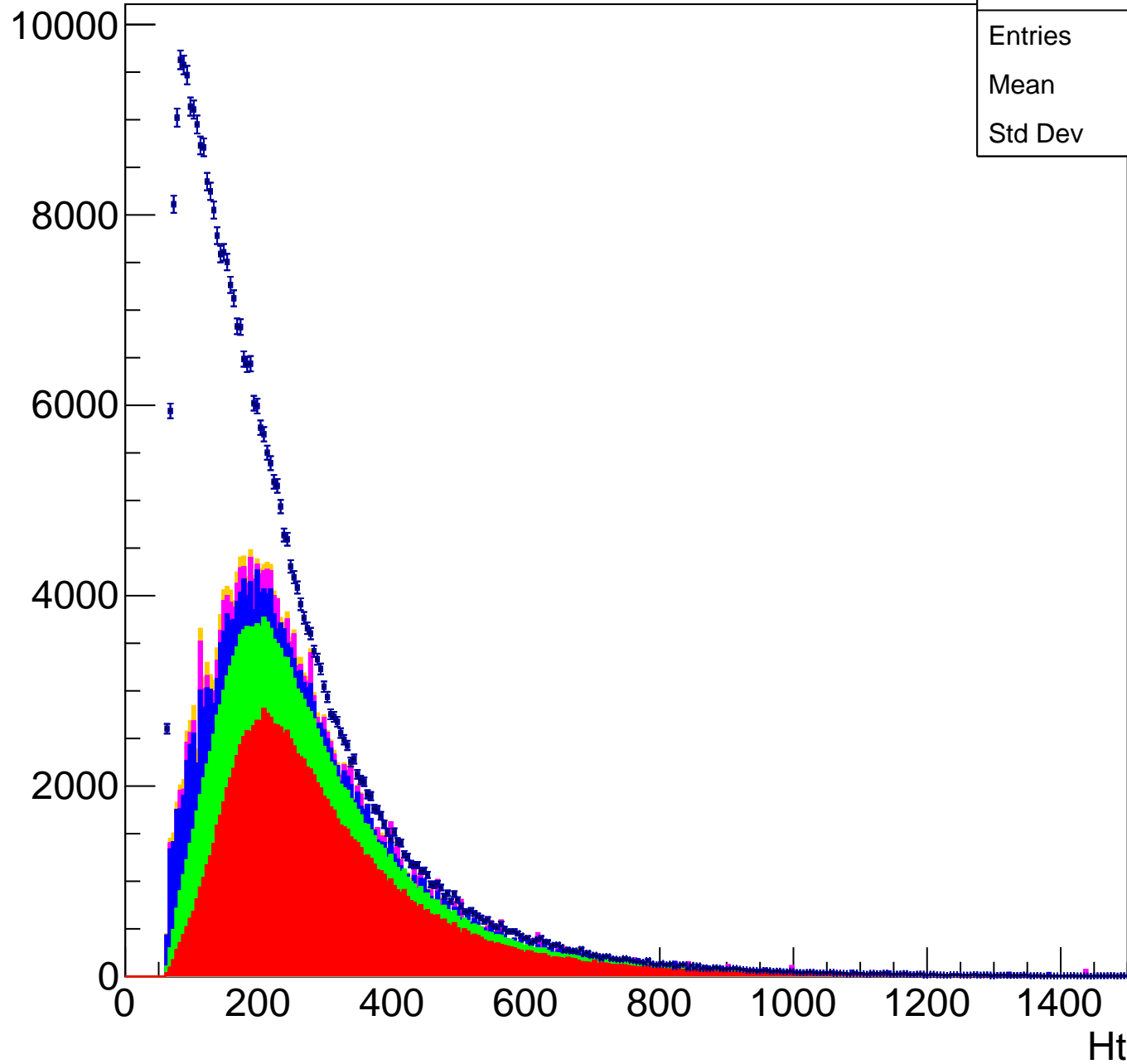


Transverse Mass

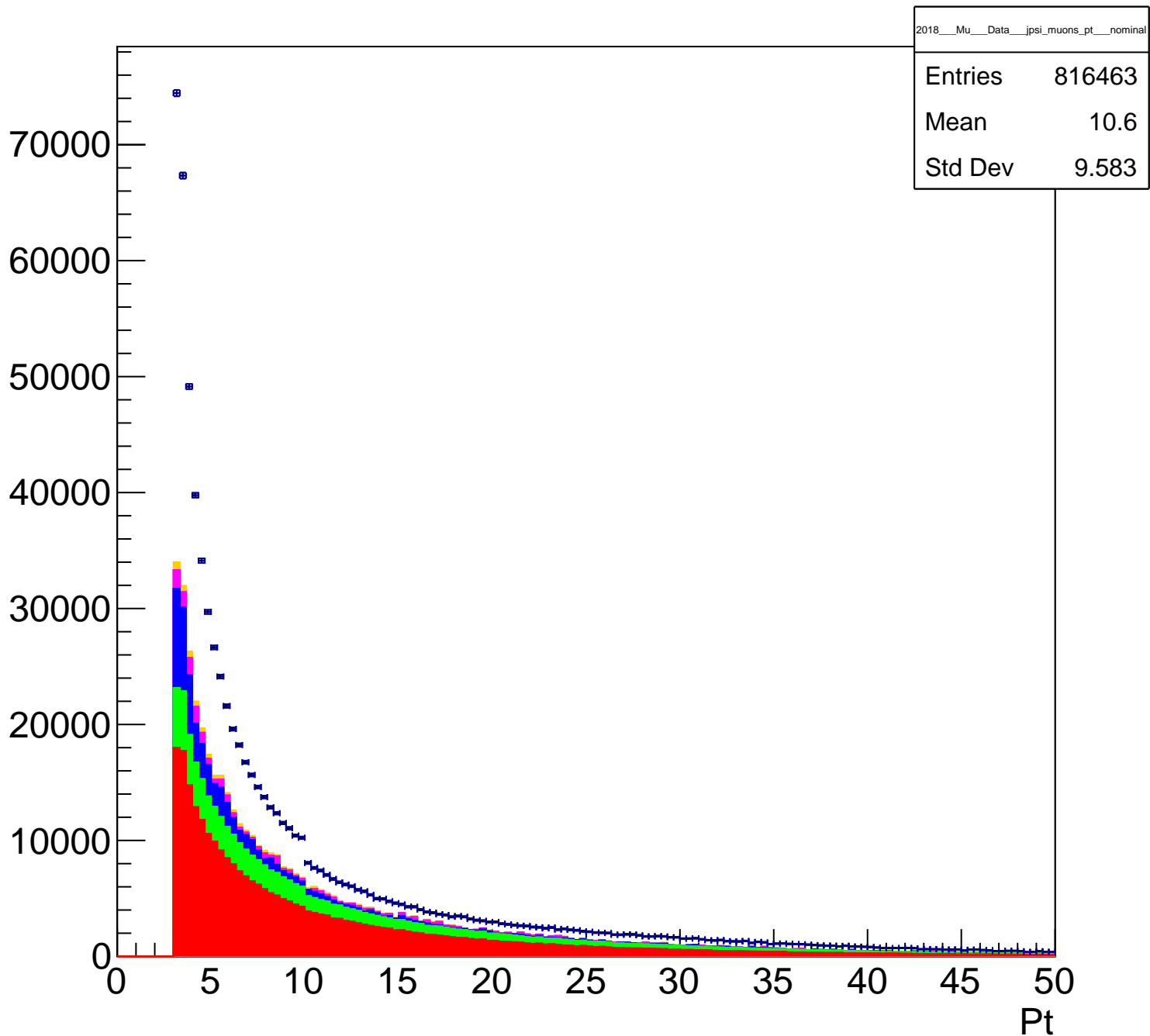


Ht

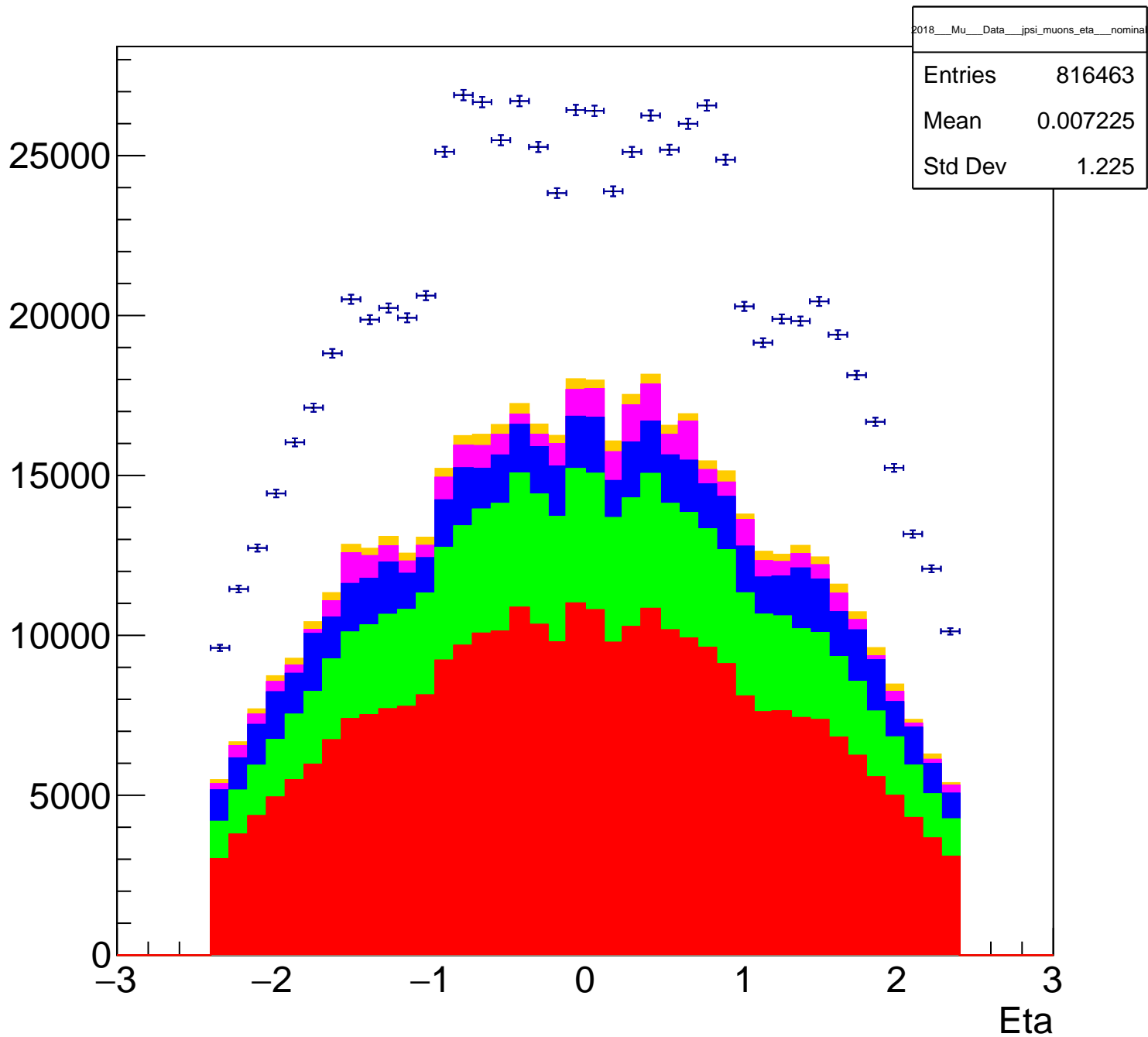
2018__Mu__Data__ht__nominal	
Entries	392050
Mean	231.9
Std Dev	163.9



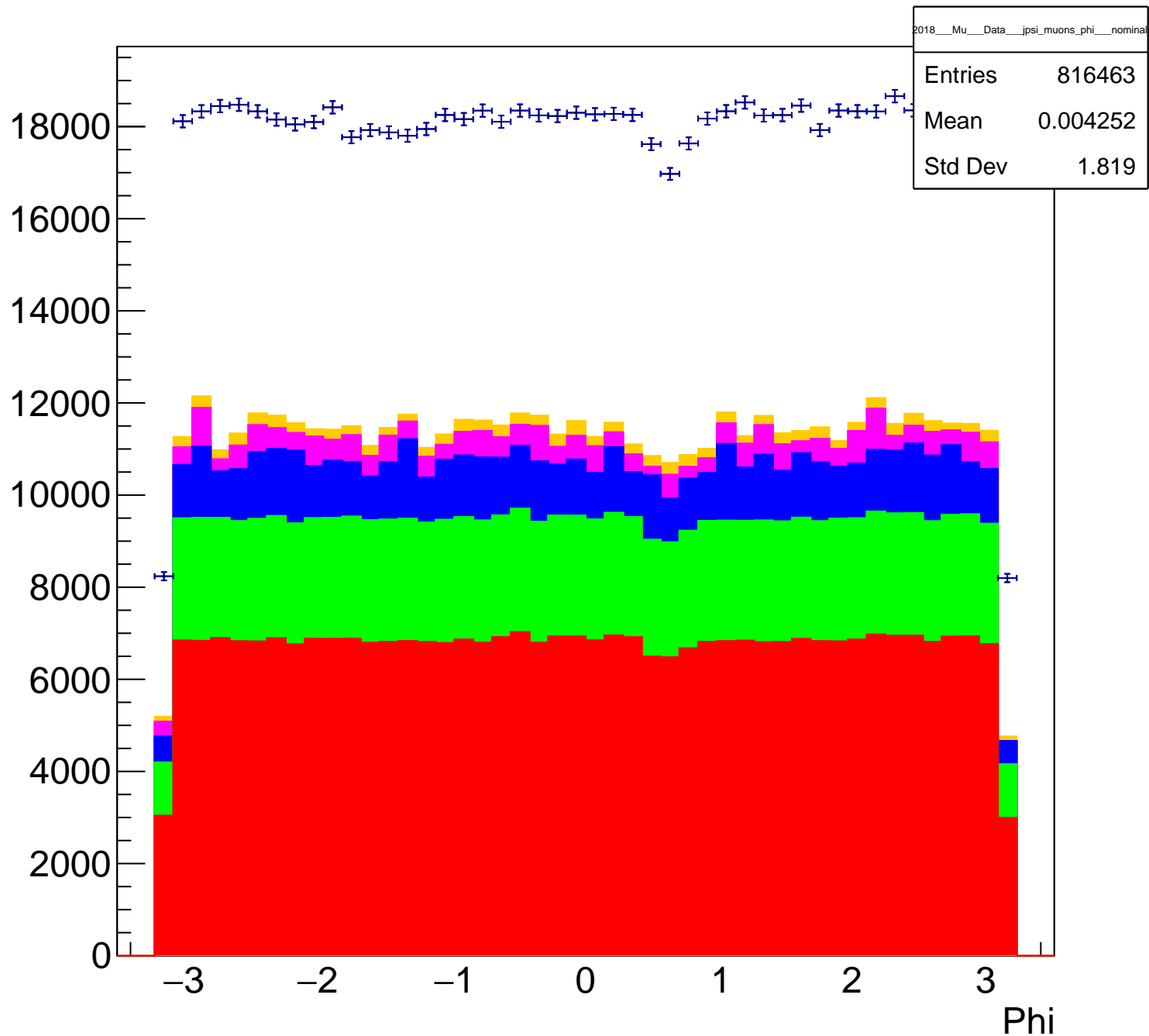
Transverse Momentum for JPsi Muons



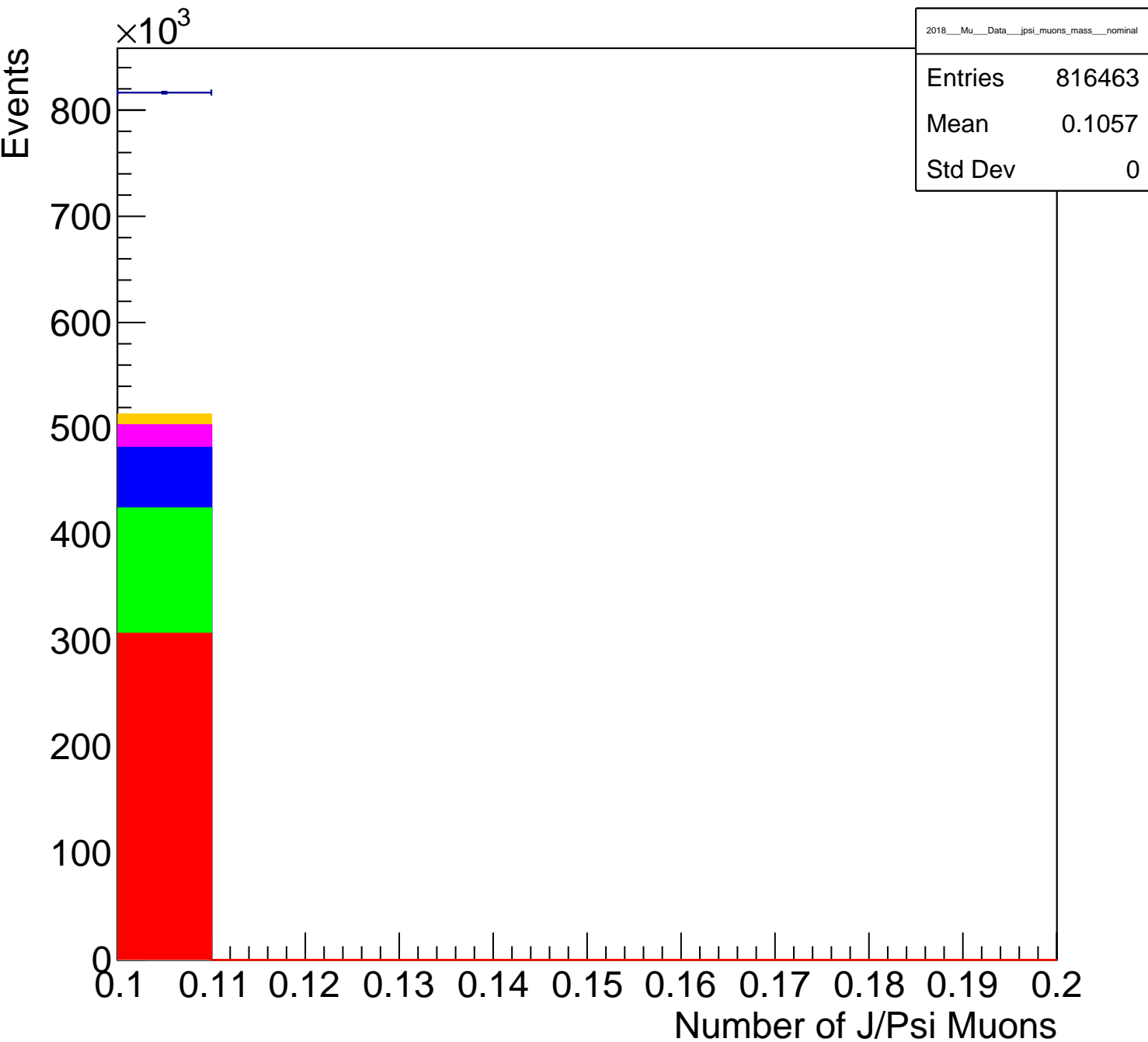
Pseudorapidity for JPsi Muons



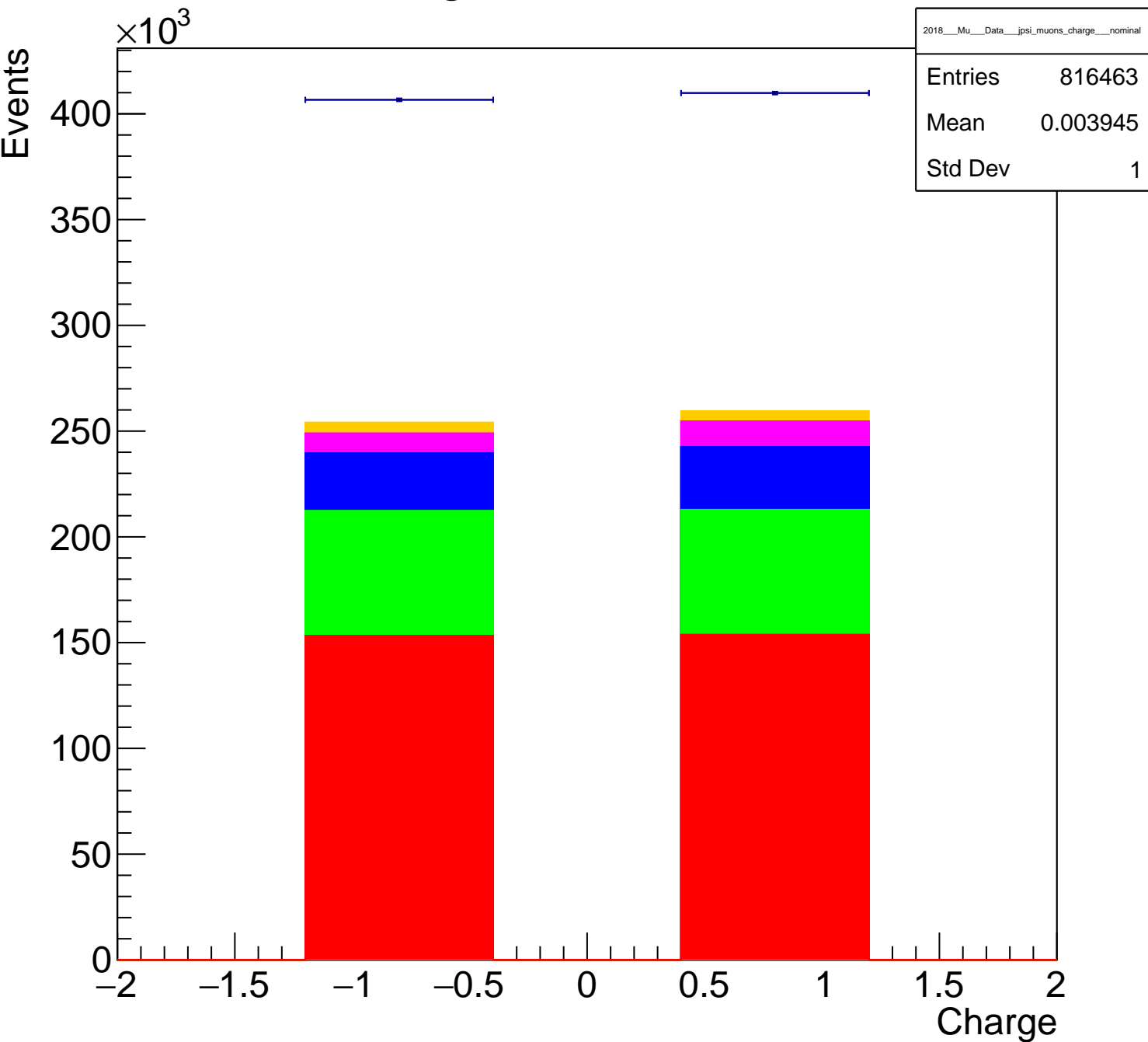
Angle for JPsi Muons



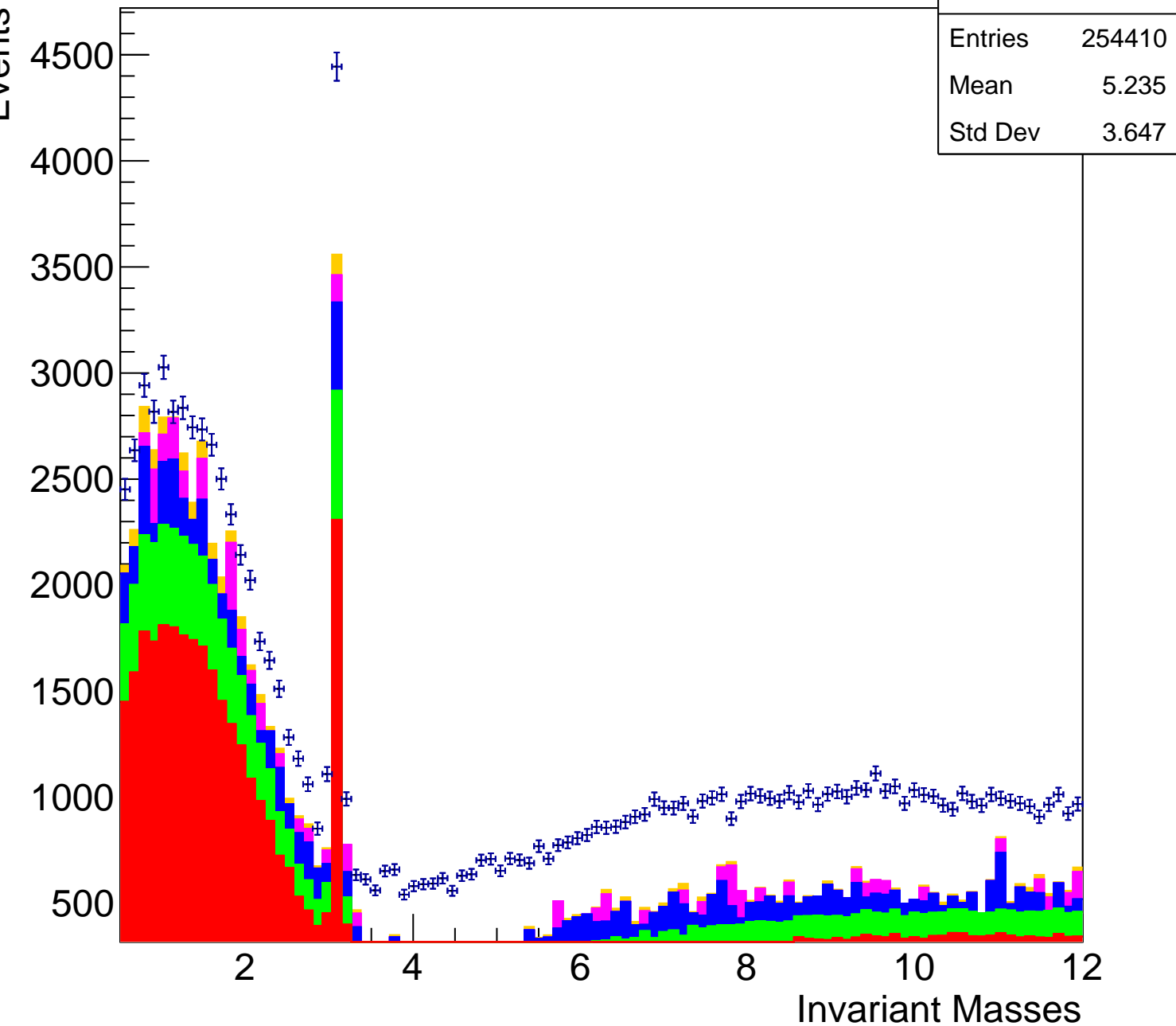
Mass of JPsi Muons



Charge of JPsi Muons

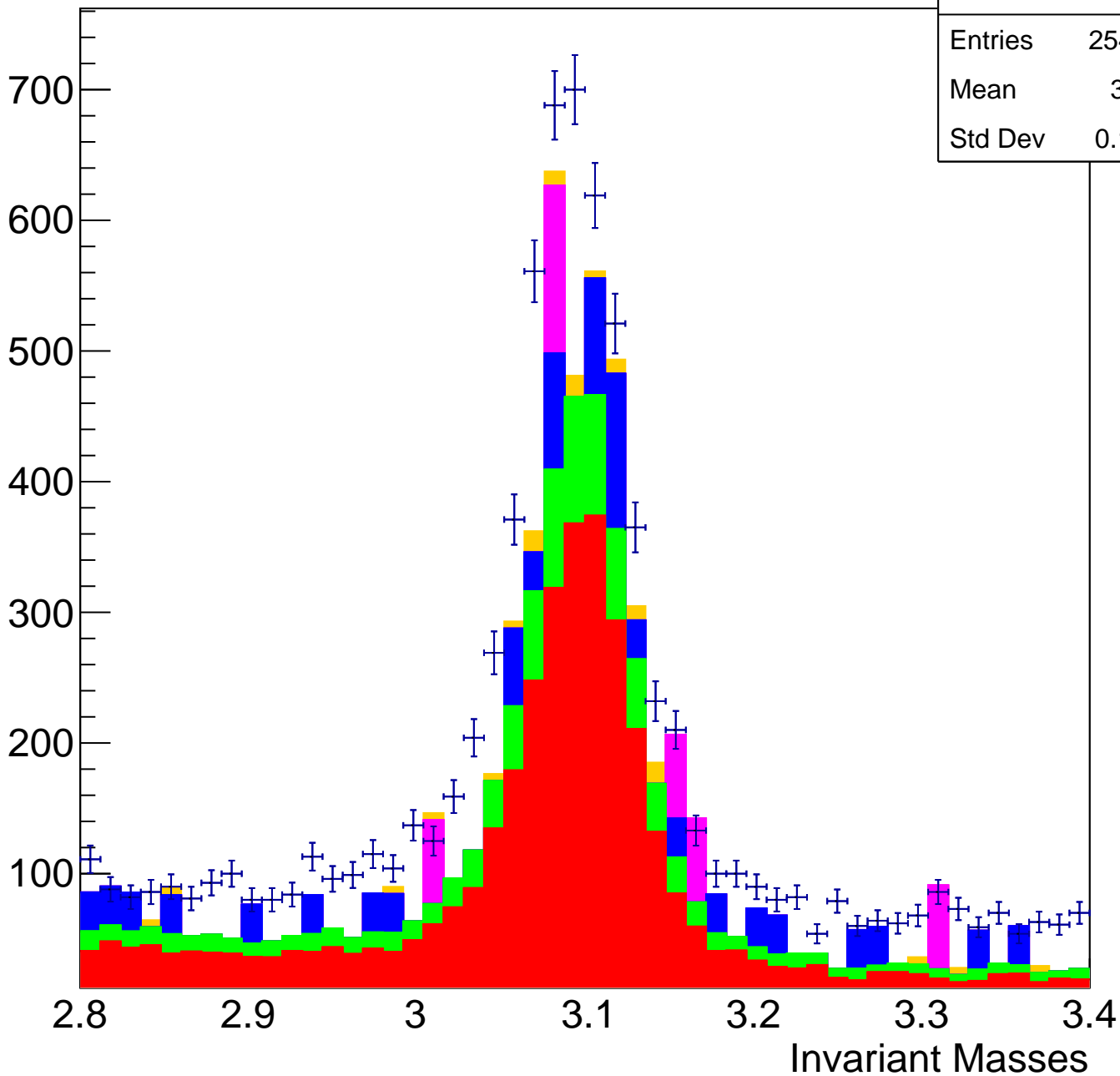


Invariant Masses for J/Psi Candidate Muons (Oppositely Charged)



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

Events

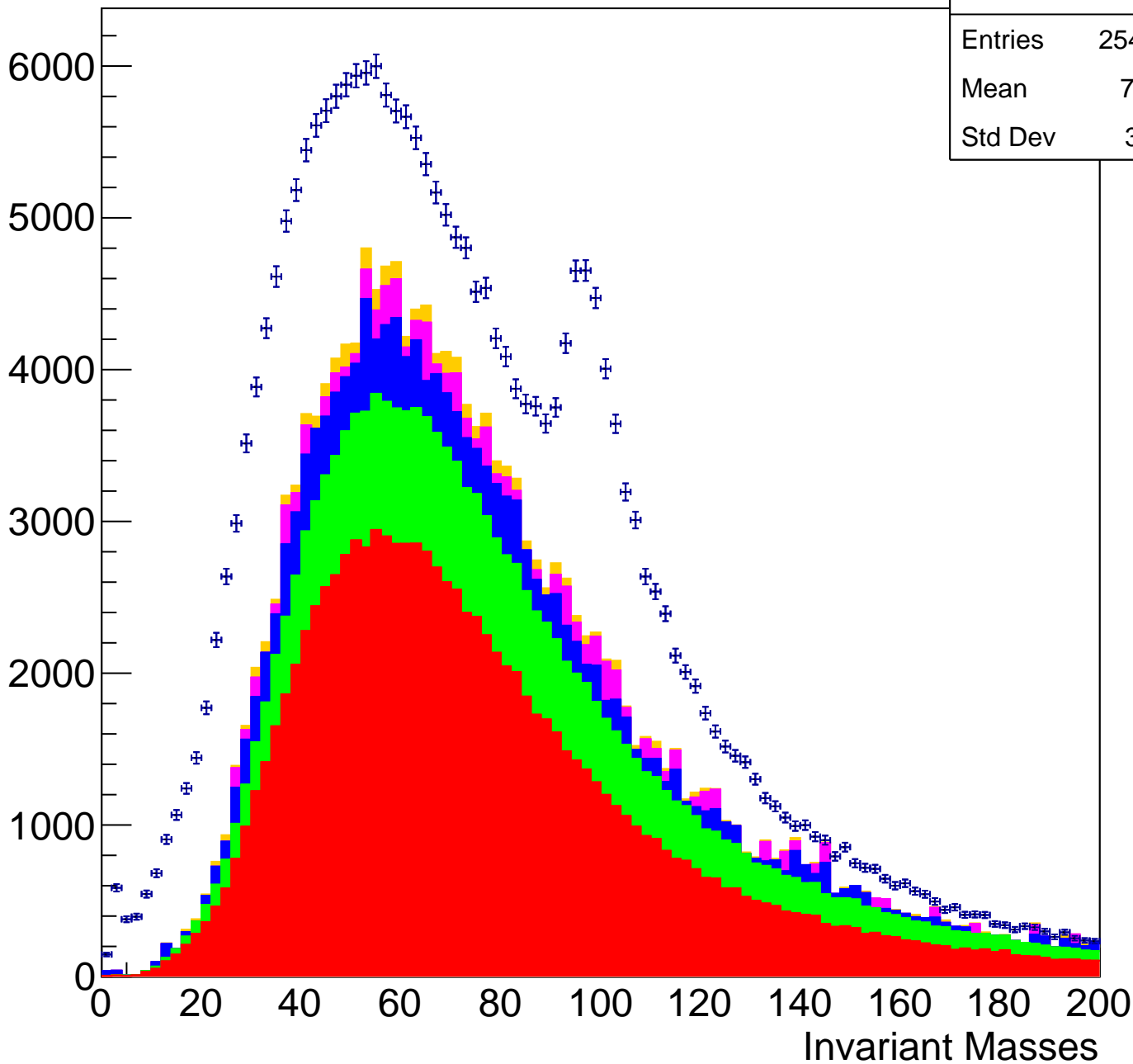


Invariant Masses for J/Psi Candidate And Isolated Muons

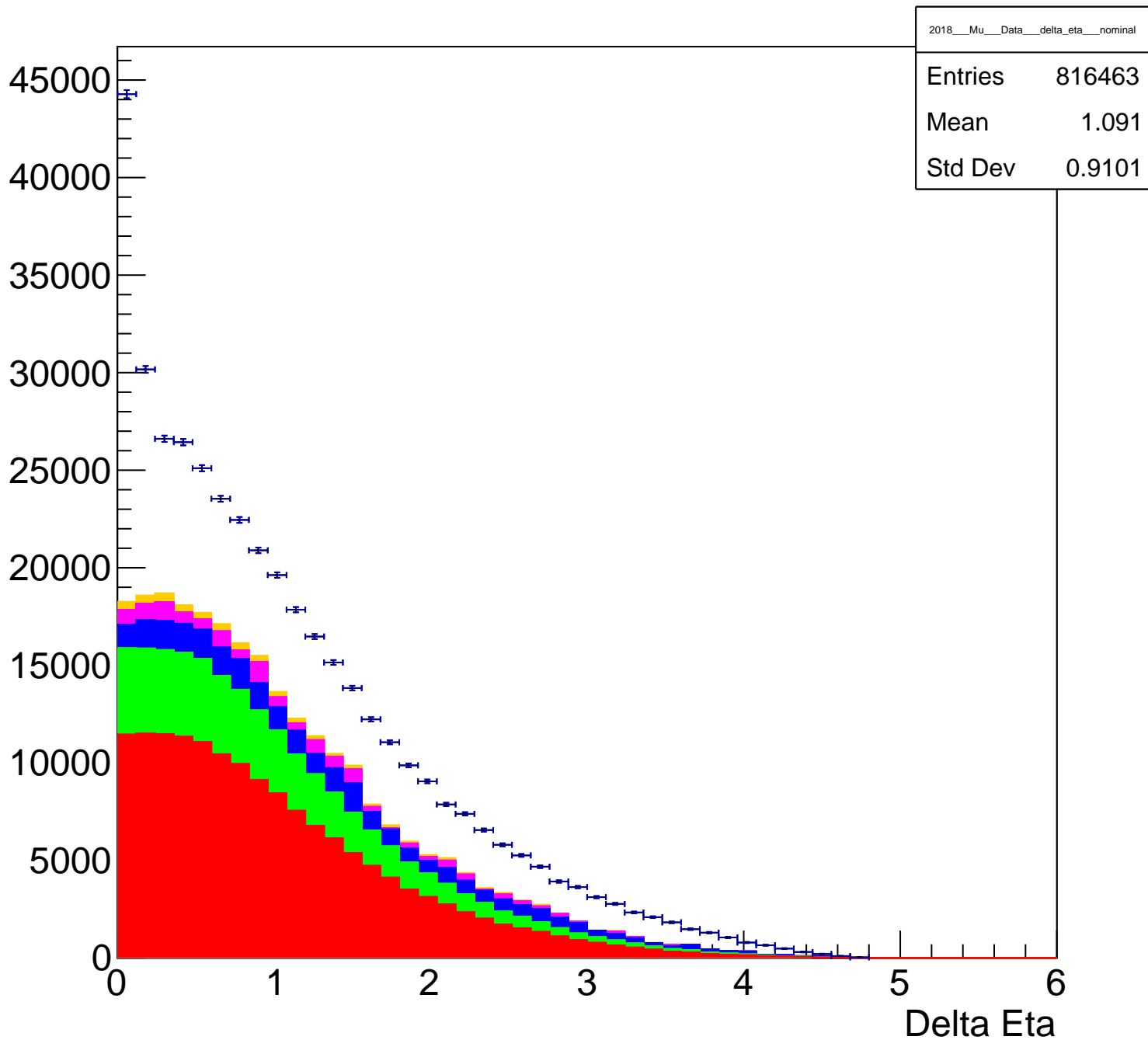
Events

2018_Mu_Data_invariant_mass_psi_and_isolated_muons_nominal

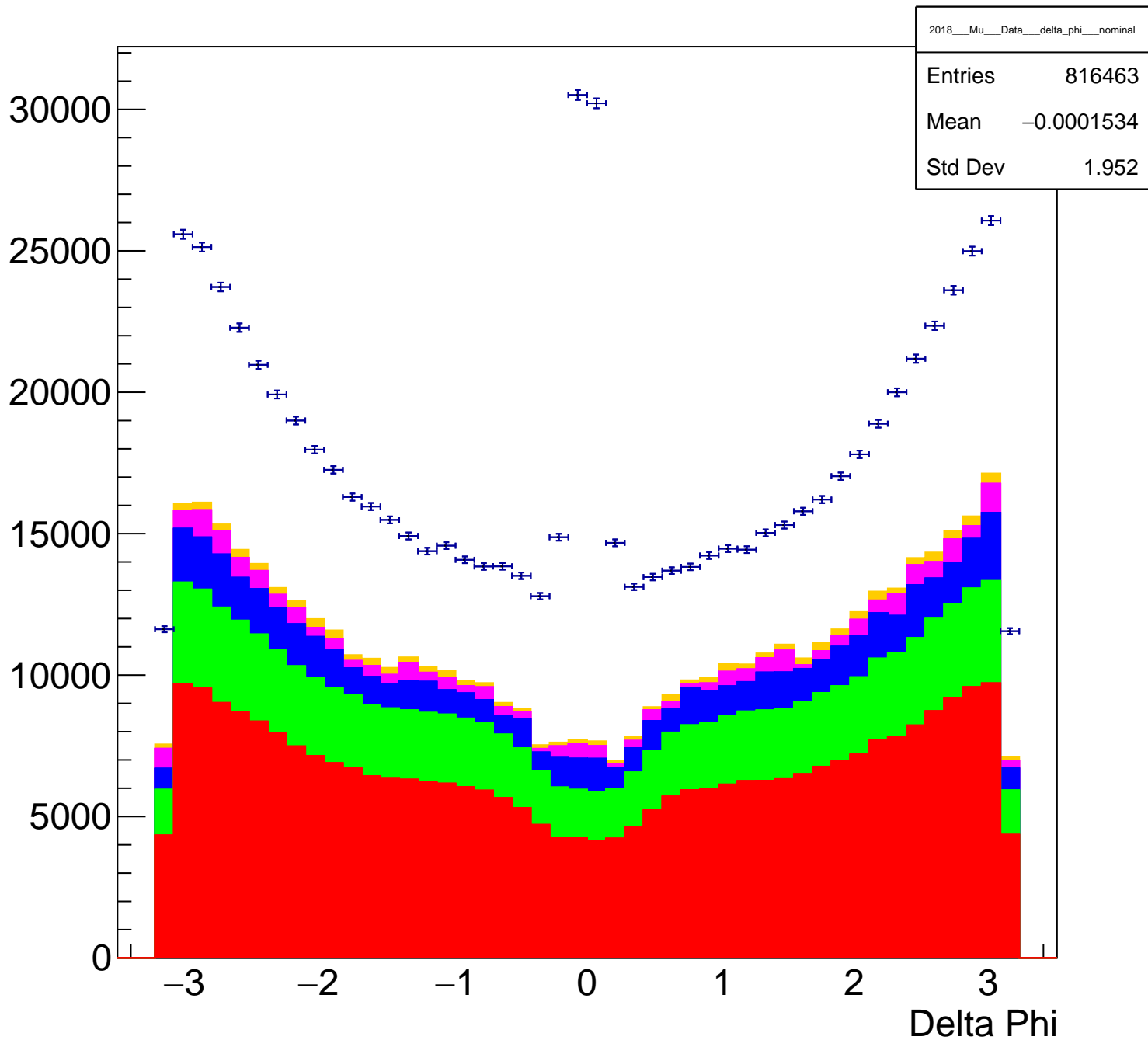
Entries	254410
Mean	74.59
Std Dev	37.21



Delta Eta for Isolated Muon - JPsi Muons



Delta Phi for Isolated Muon - JPsi Muons



Delta R for Isolated and JPsi Muons

