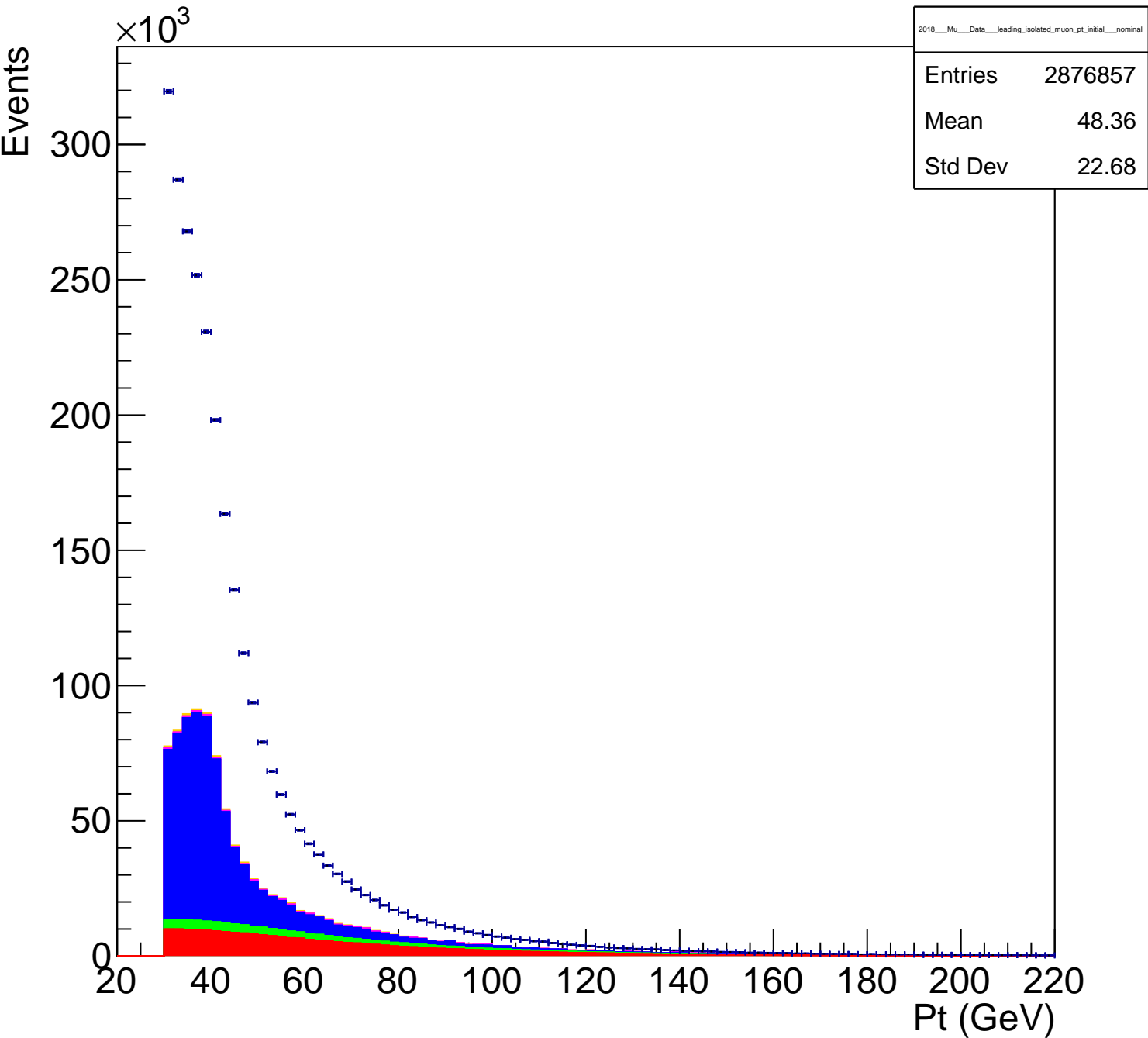
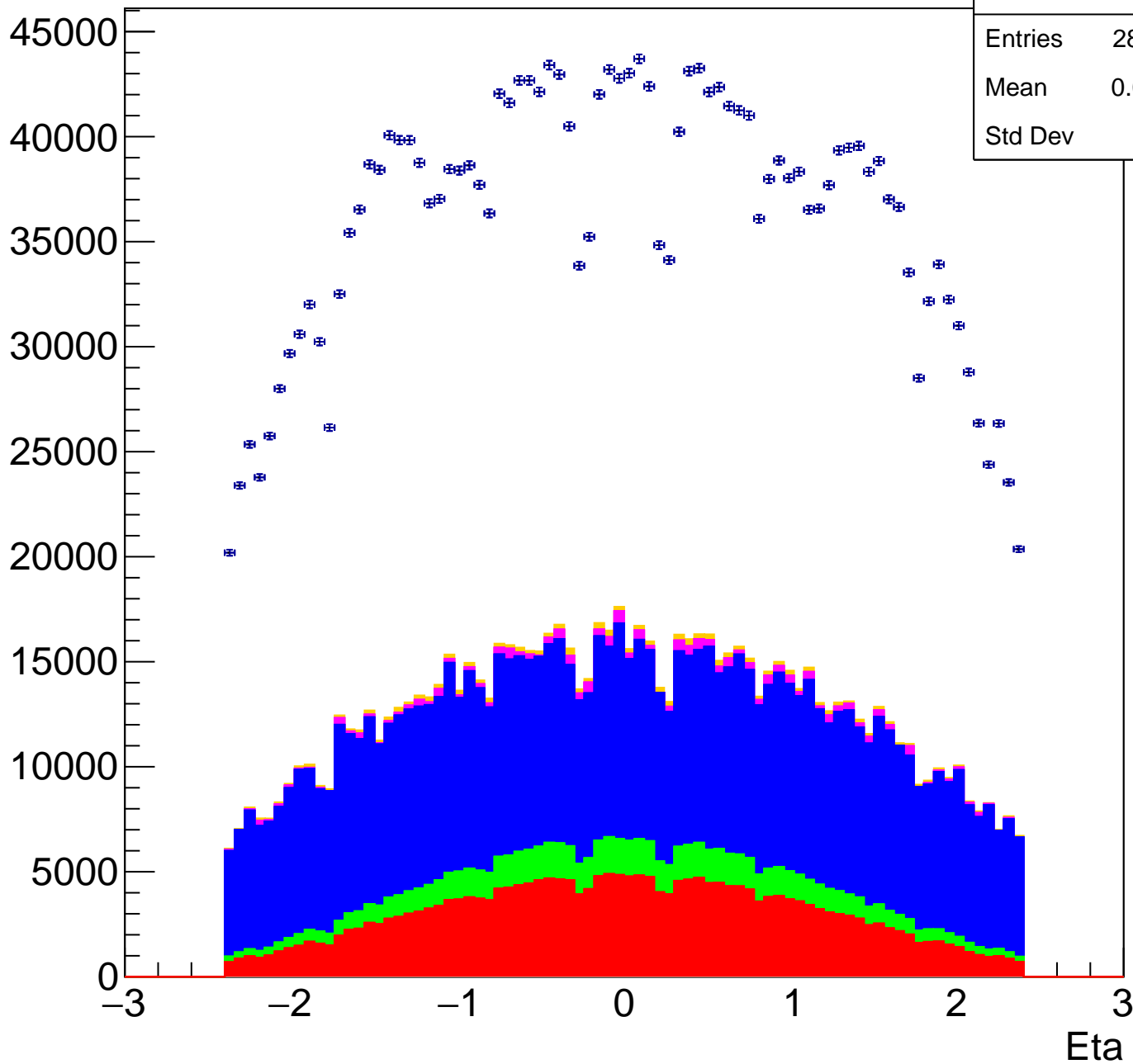


Leading Isolated Muon Transverse Momentum (One Muon, No Electrons)



Leading Isolated Muon Pseudorapidity (One Muon, No Electrons)

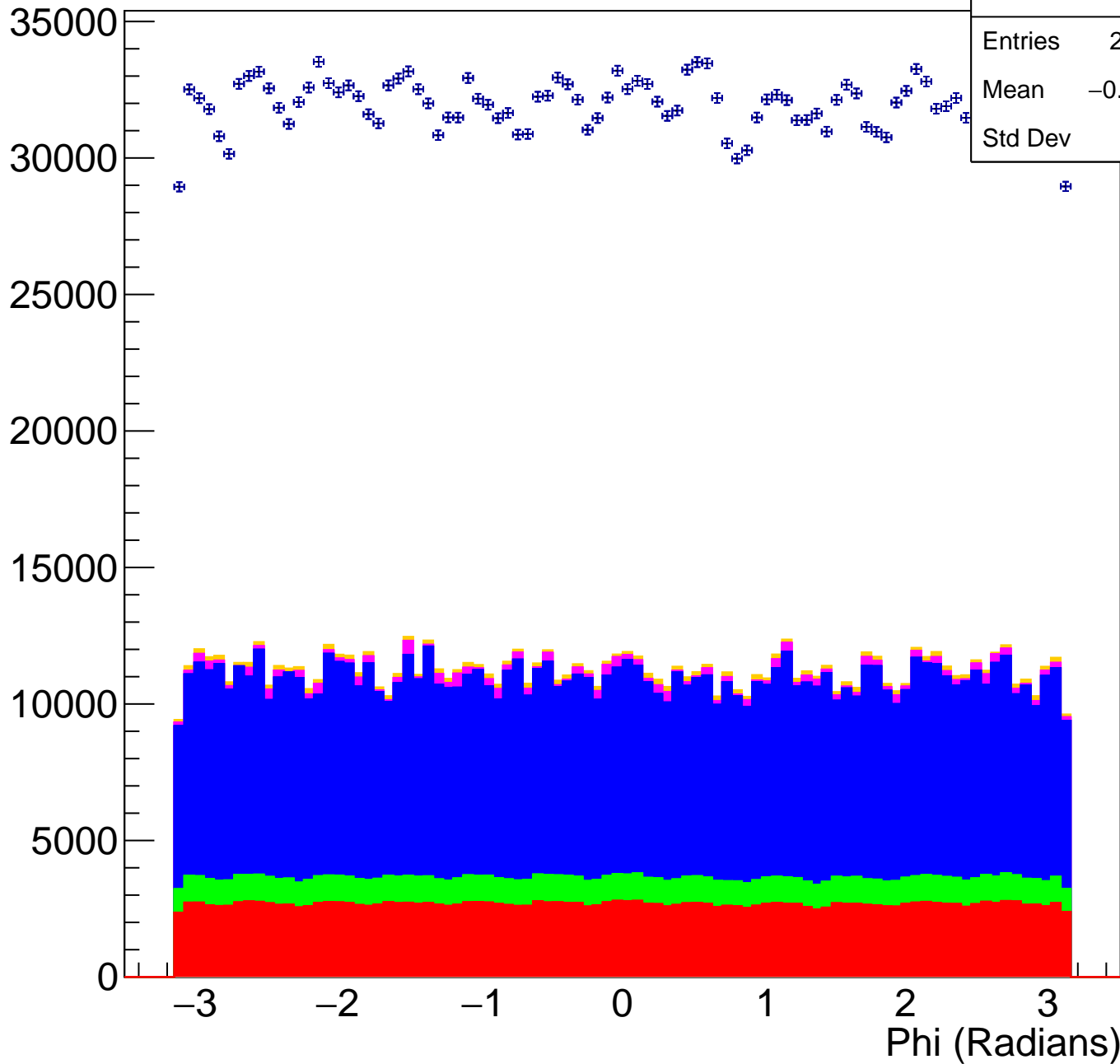
2018_Mu_Data_leading_isolated_muon_eta_initial_nominal	
Entries	2876857
Mean	0.007951
Std Dev	1.287



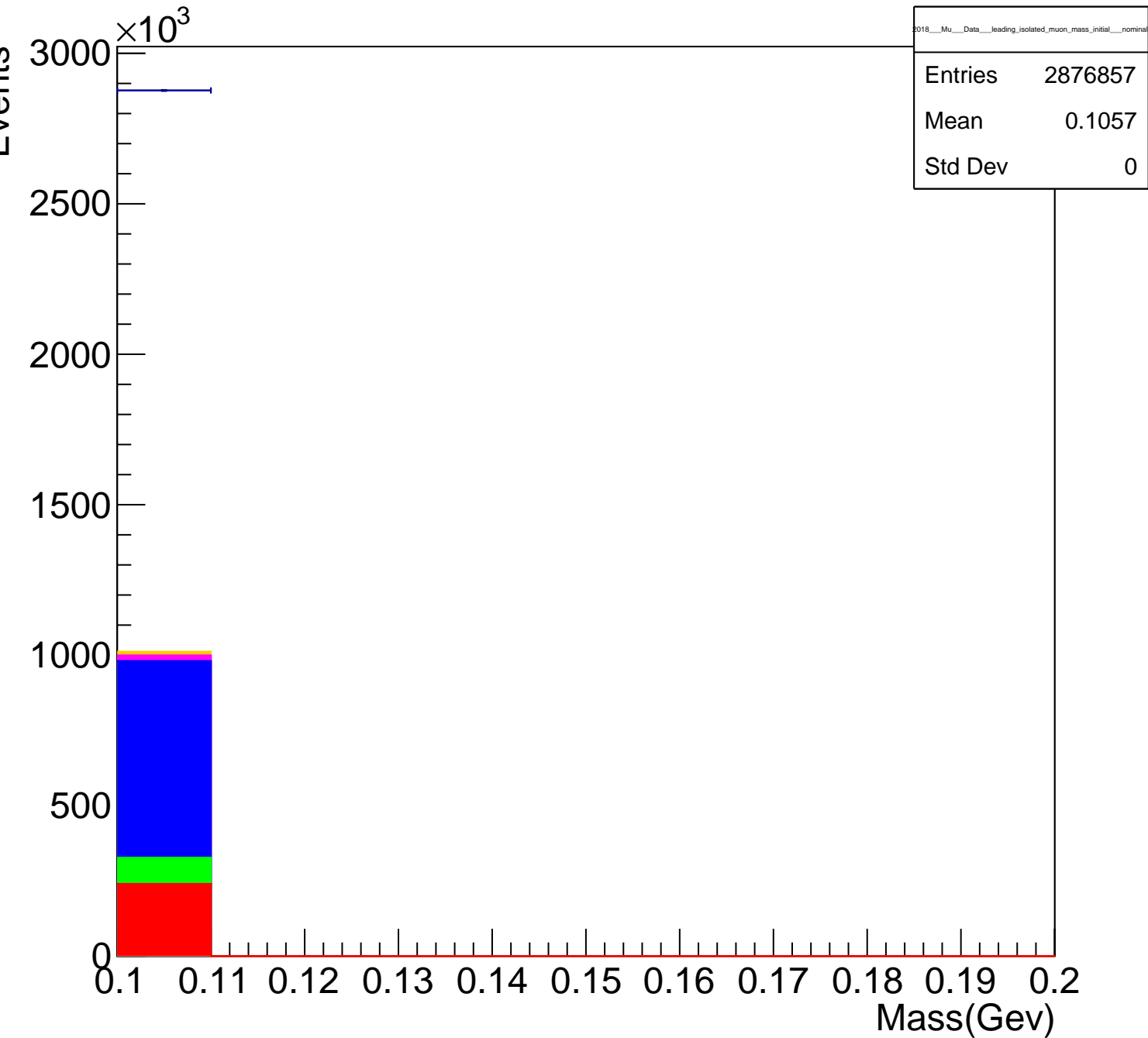
# Leading Isolated Muon Angle (One Muon, No Electrons)

2018\_Mu\_Data\_leading\_isolated\_muon\_phi\_initial\_nominal

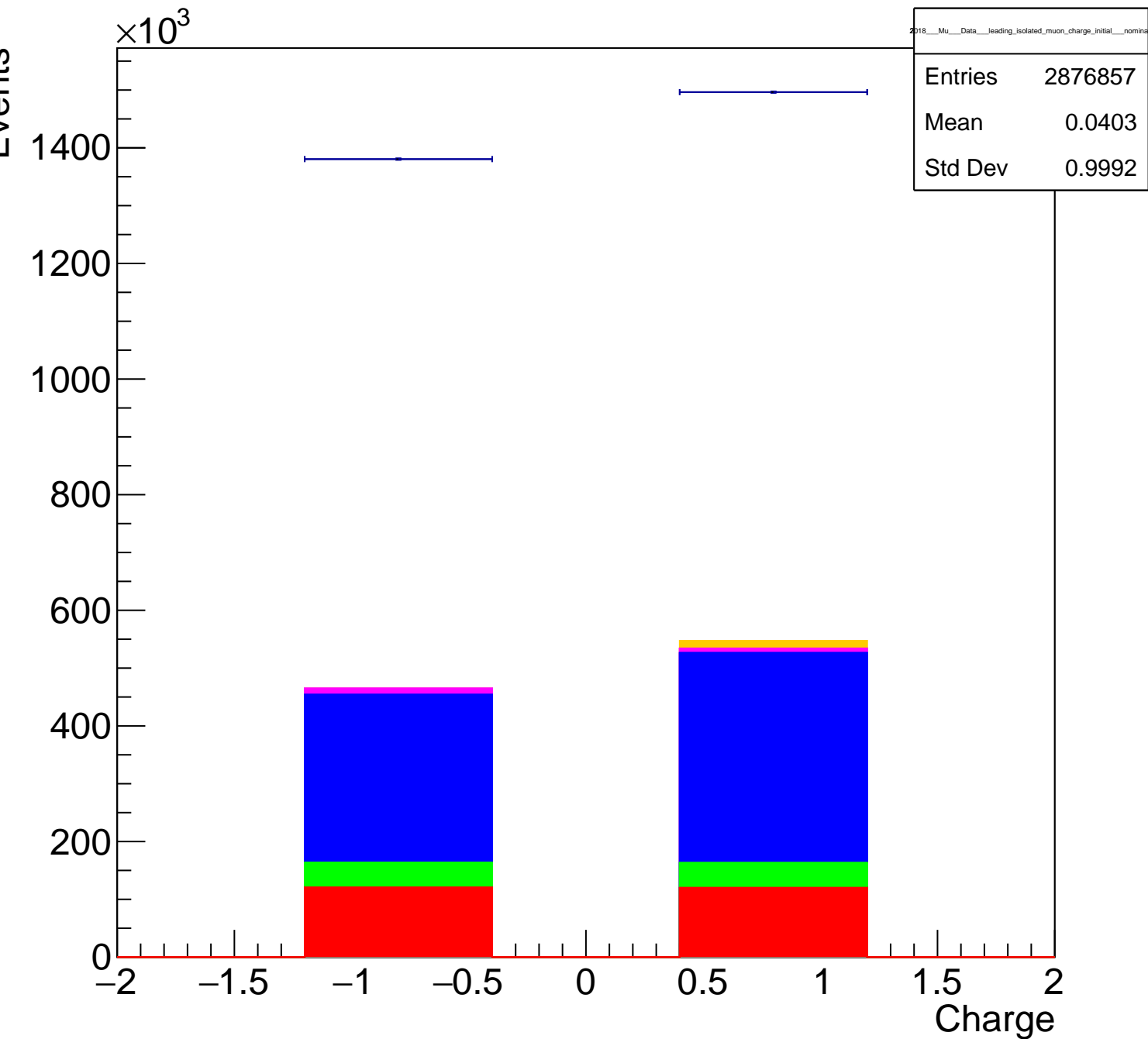
Entries	2876857
Mean	-0.004086
Std Dev	1.815



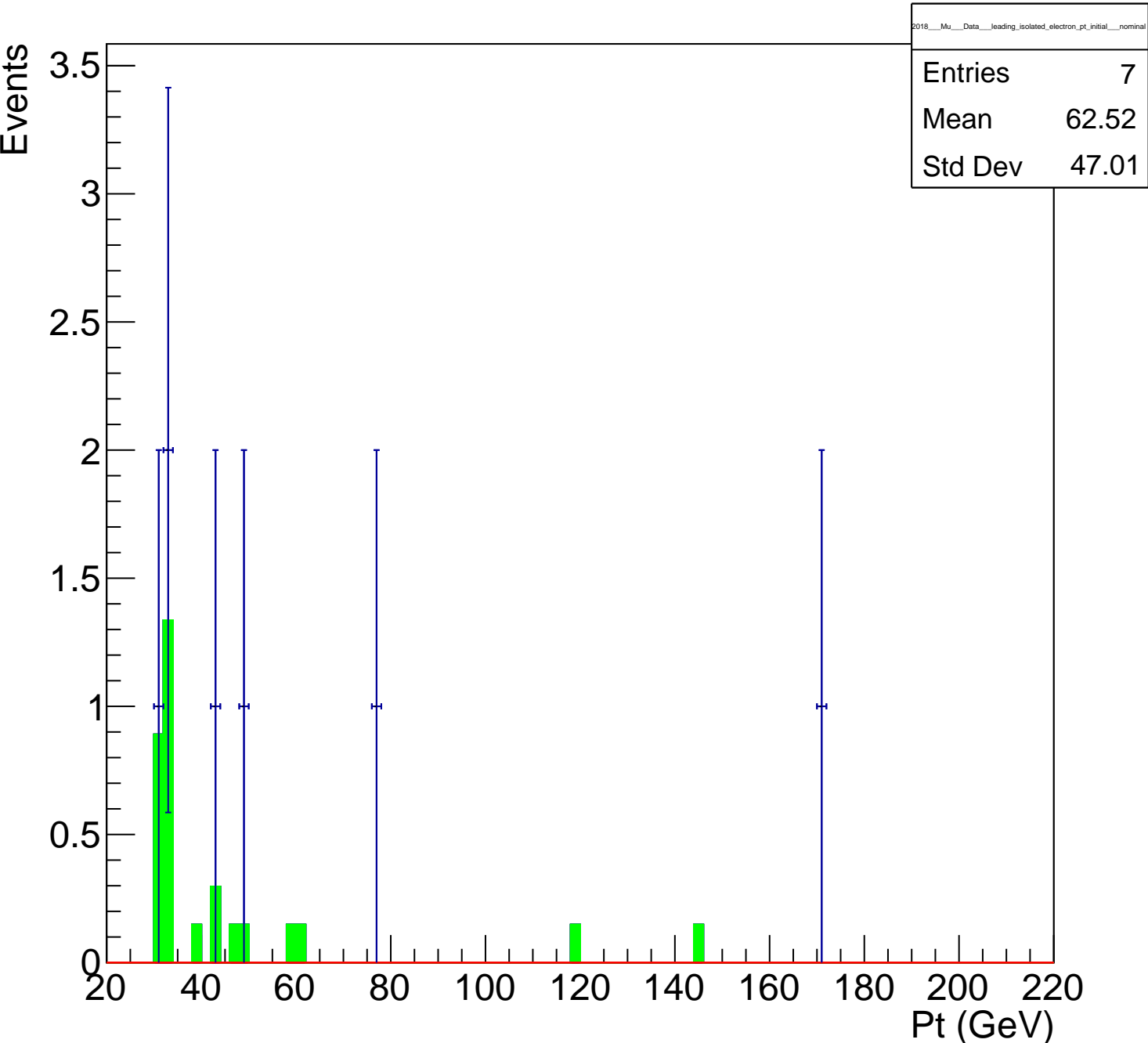
Leading Isolated Muon Mass (One Muon, No Electrons)



# Leading Isolated Muon Charge (One Muon, No Electrons)

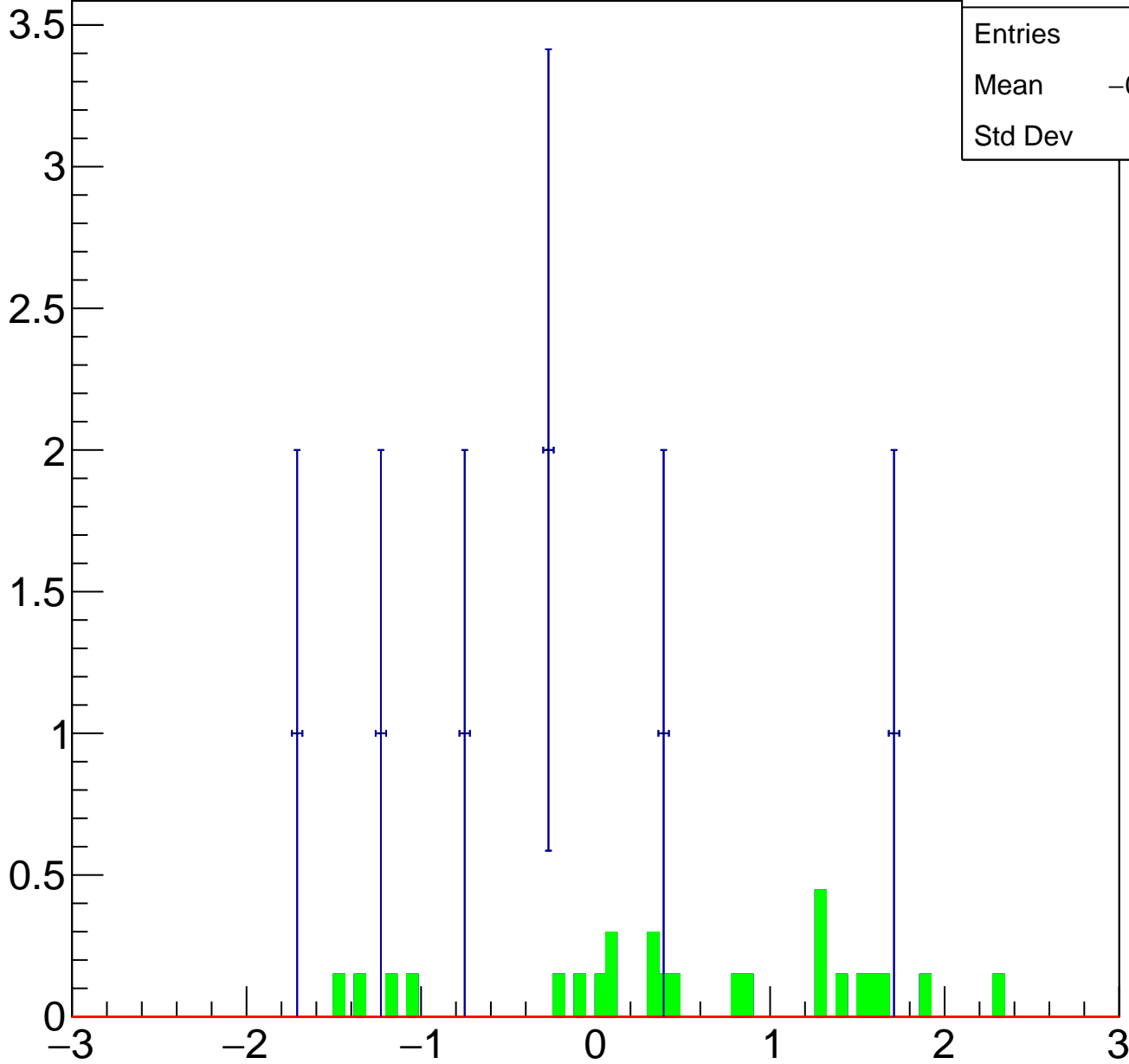


Leading Isolated Electron Transverse Momentum (One Electron, No Muons)



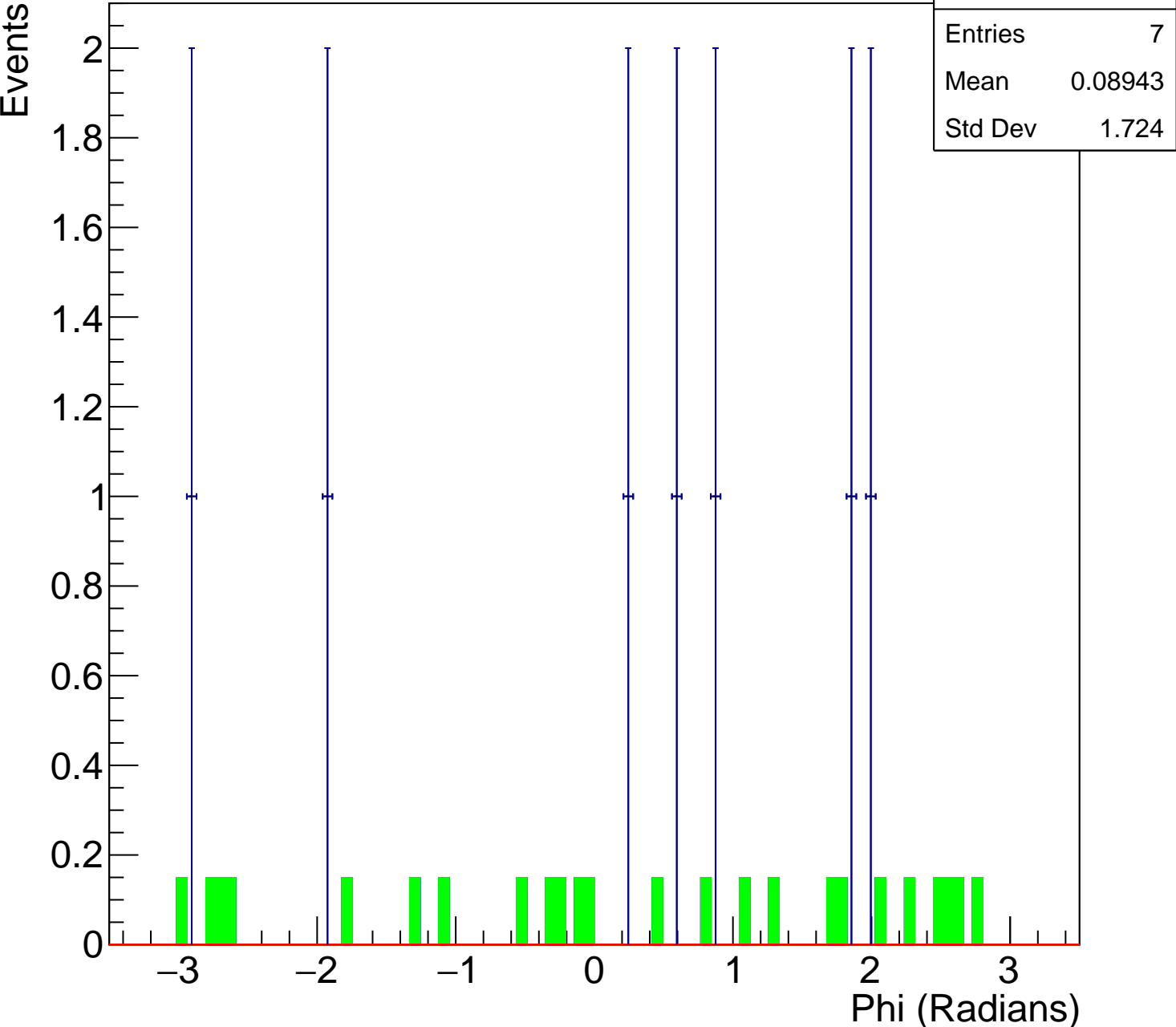
# Leading Isolated Electron Pseudorapidity (One Electron, No Muons)

Events



Eta

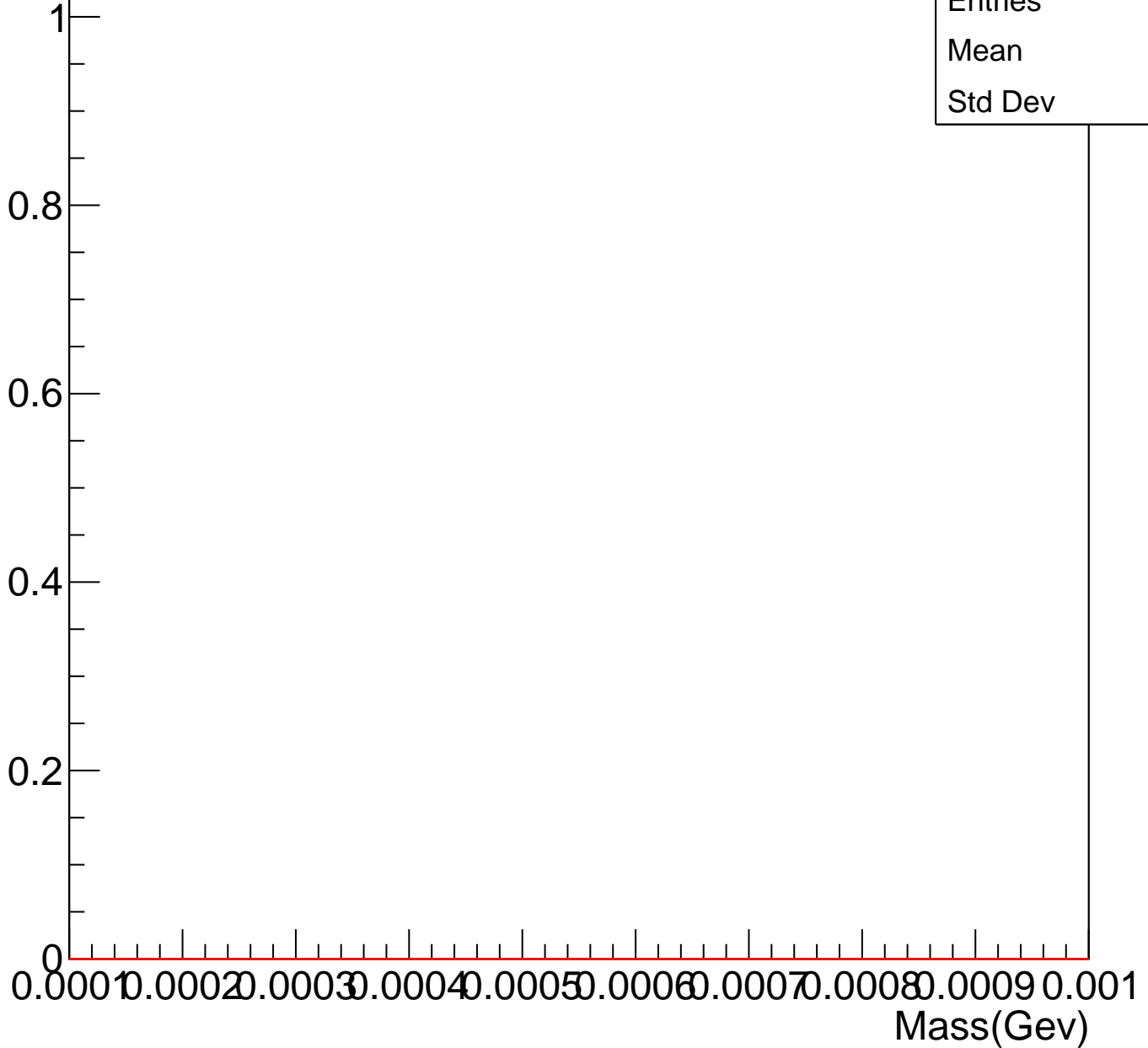
Leading Isolated Electron Angle (One Electron, No Muons)



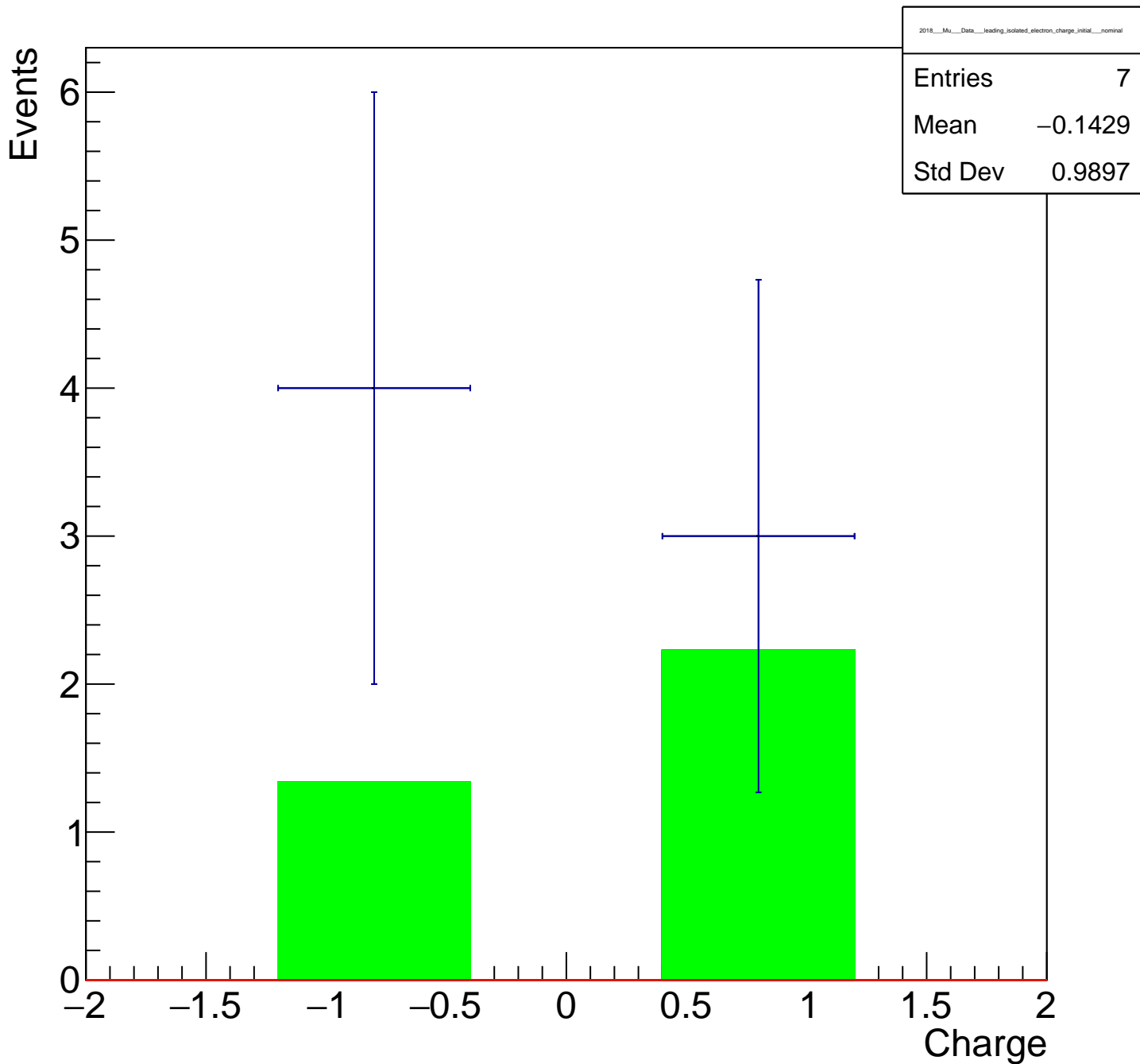


# Leading Isolated Electron Mass (One Electron, No Muons)

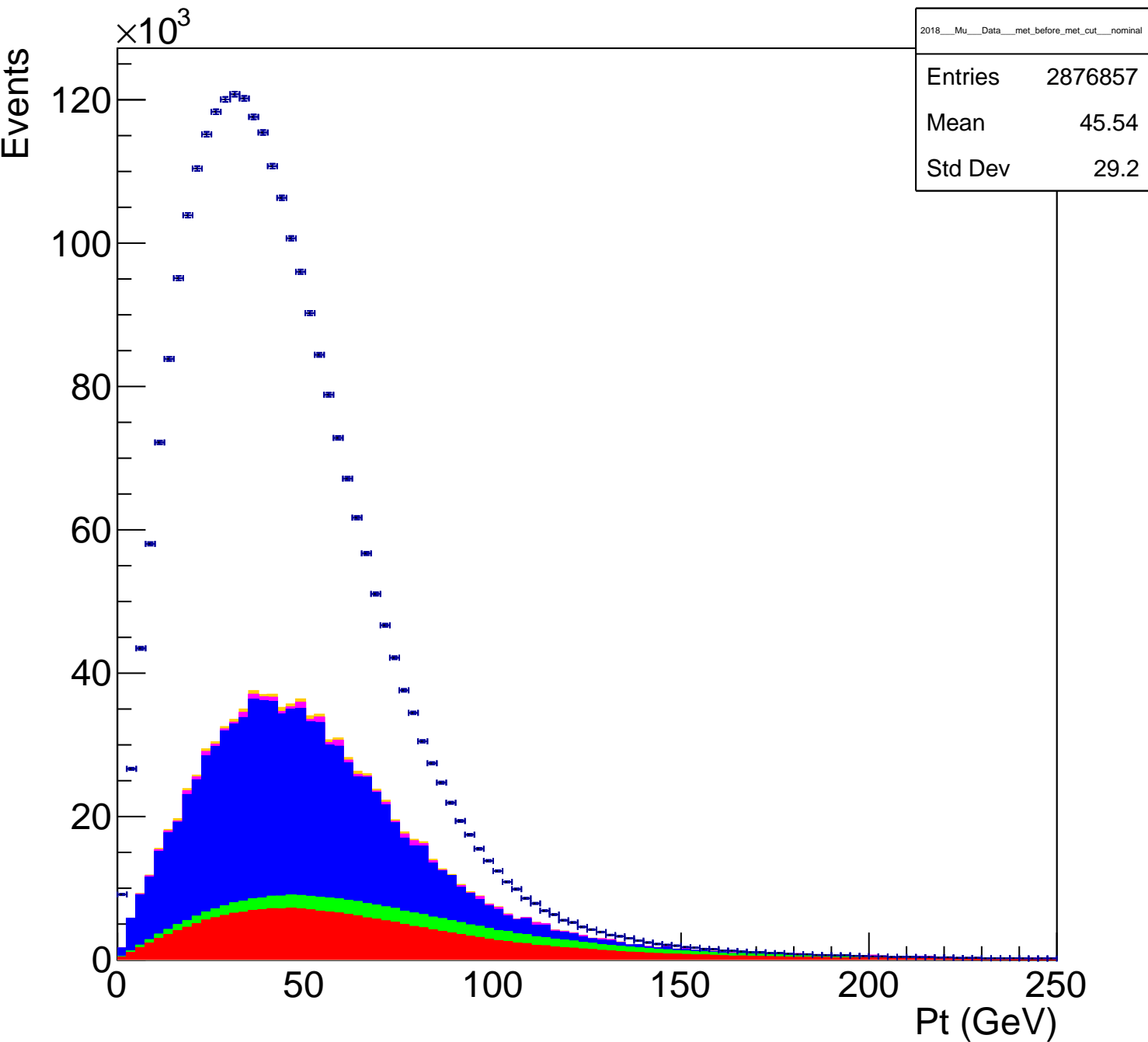
Events



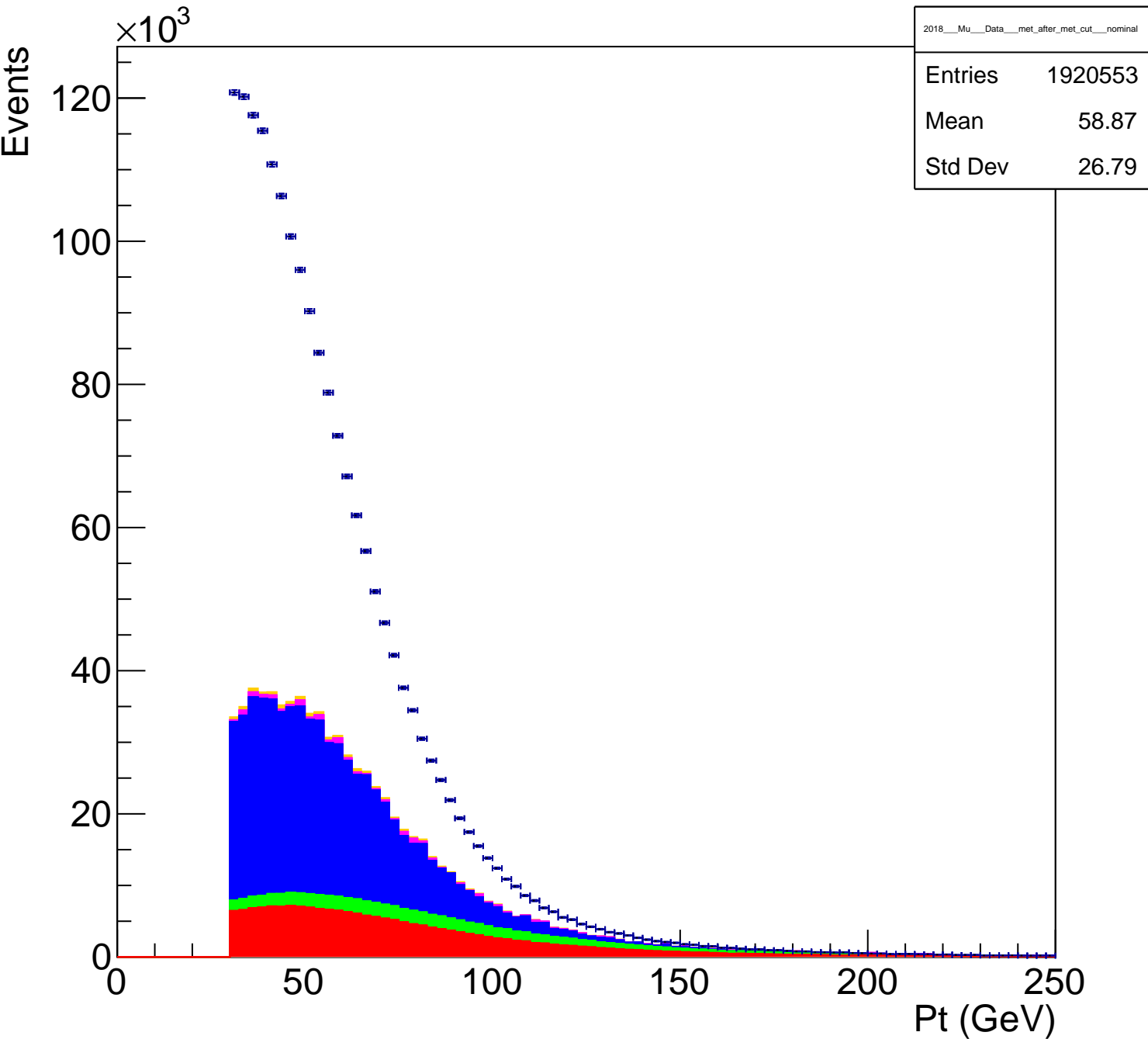
# Leading Isolated Electron Charge (One Electron, No Muons)



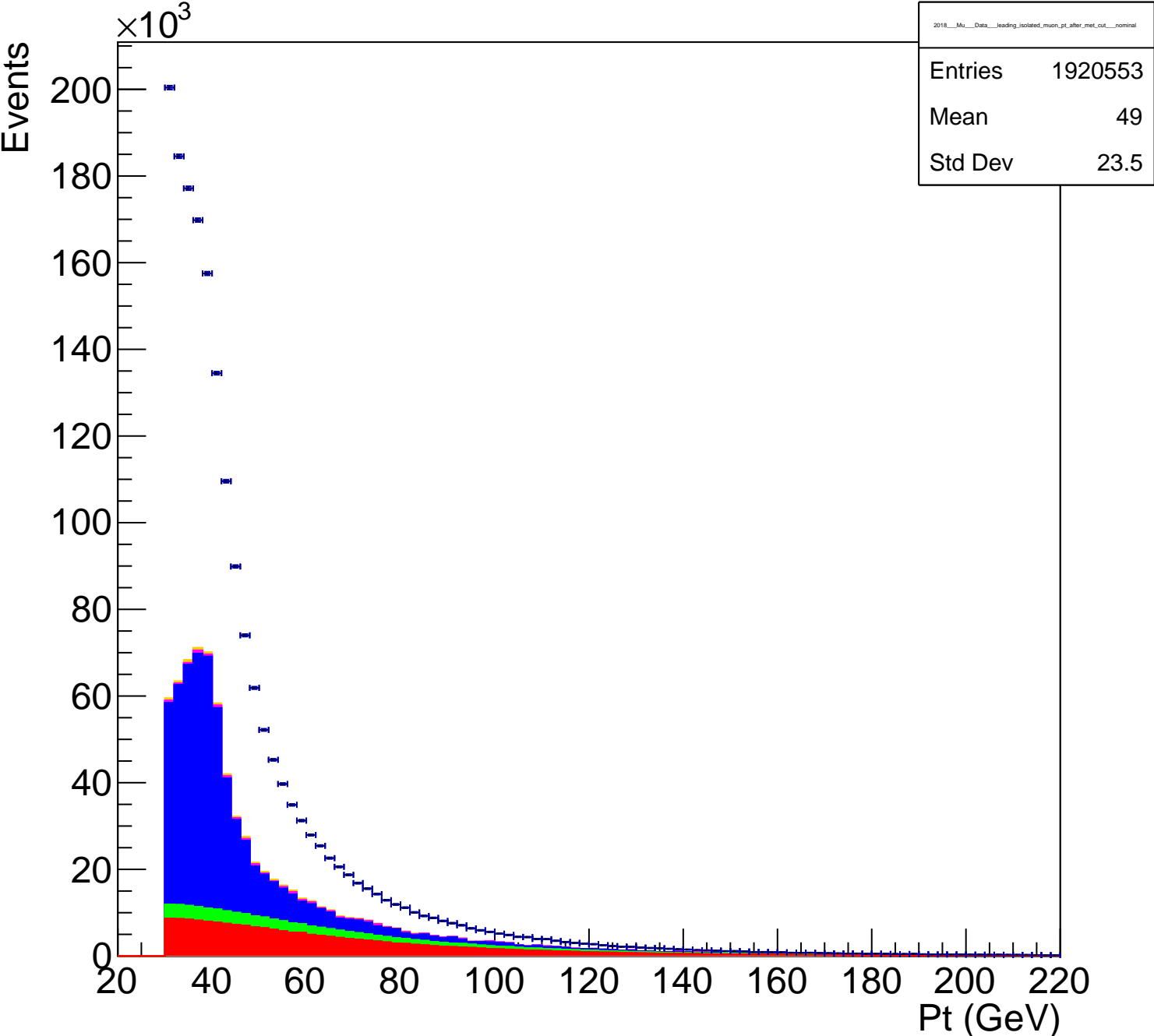
# MET Before MET Cut



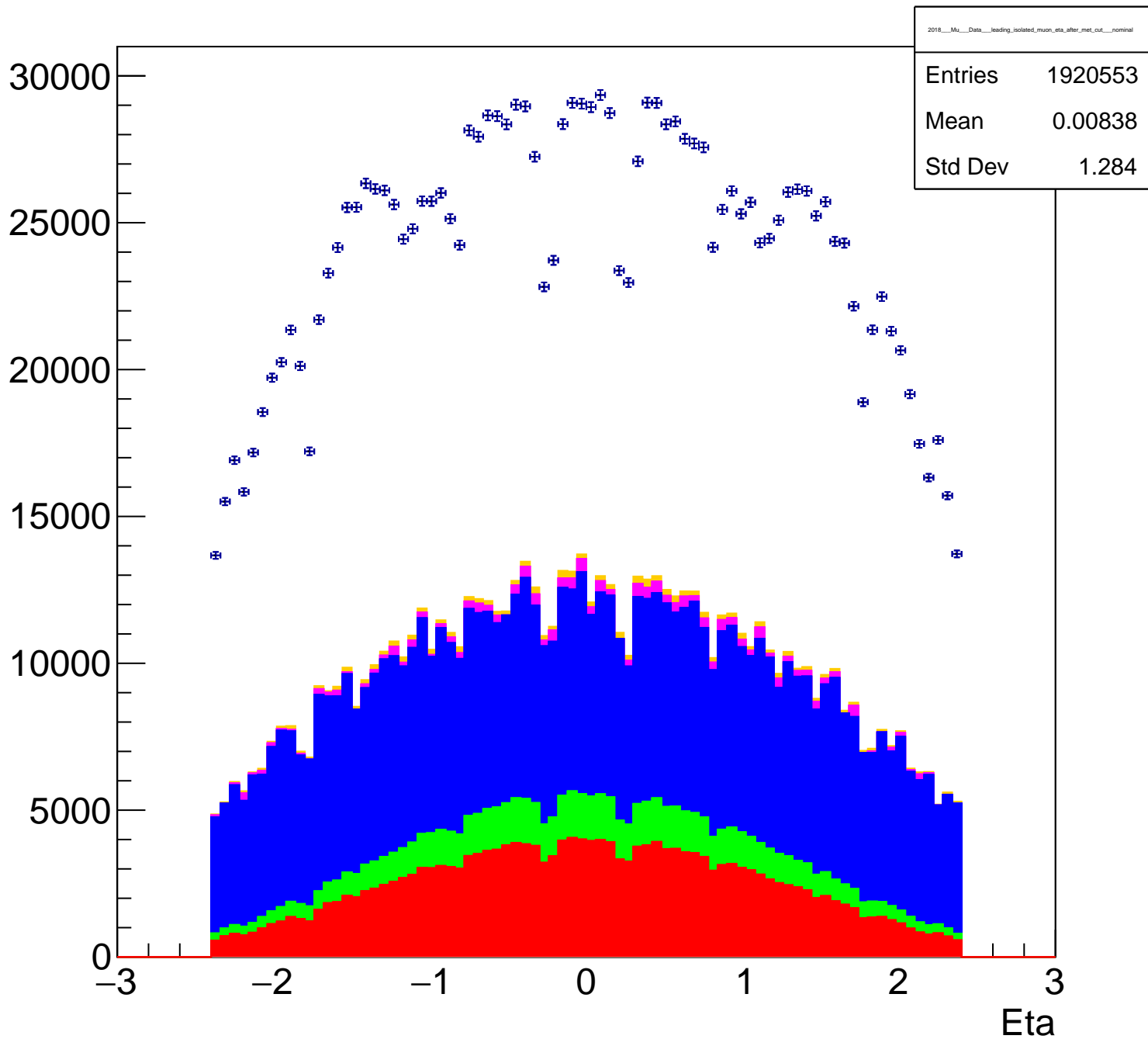
# MET After MET Cut



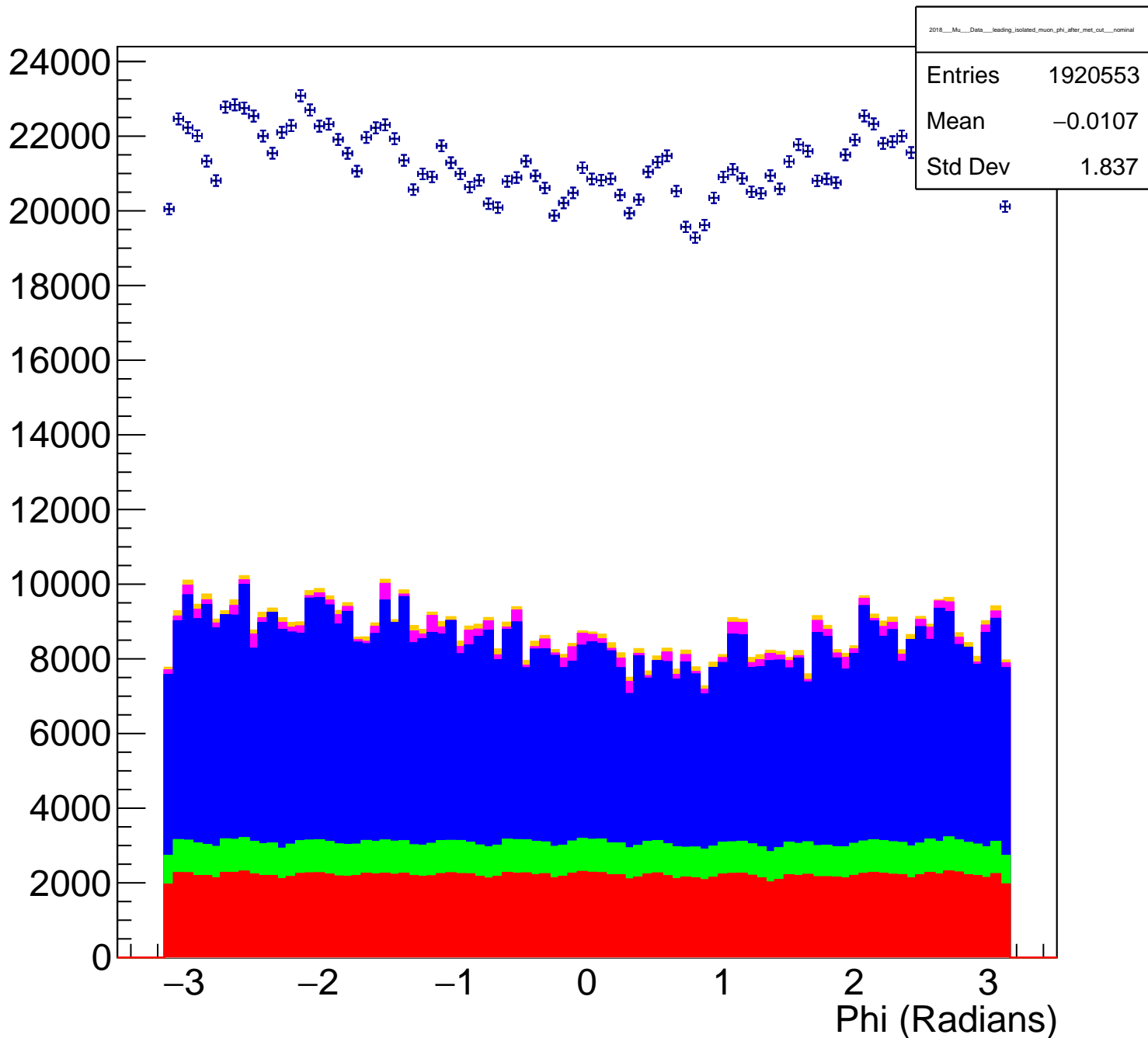
Leading Isolated Muon Transverse Momentum After MET Cut



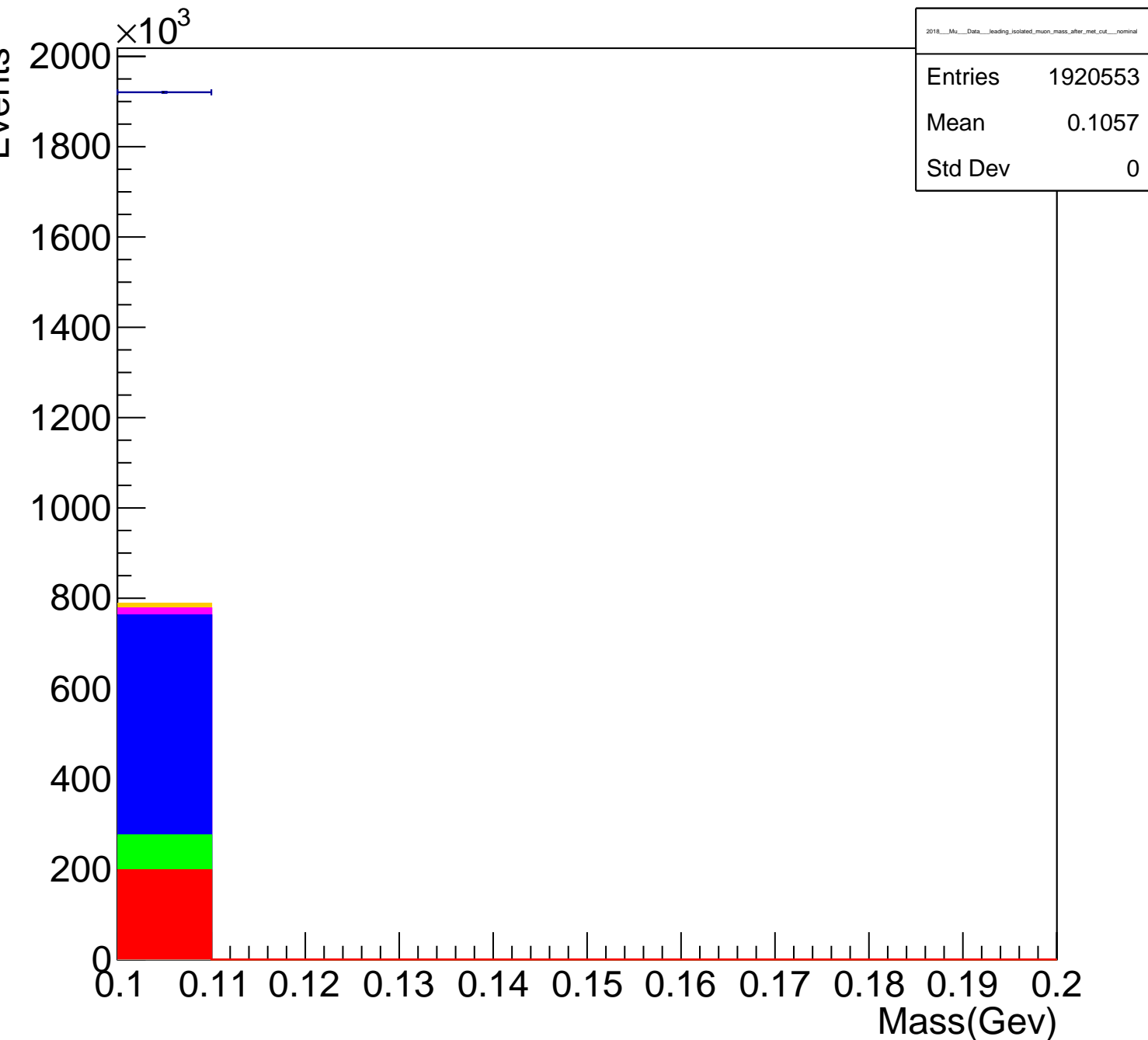
# Leading Isolated Muon Pseudorapidity After MET Cut



# Leading Isolated Muon Angle After MET Cut

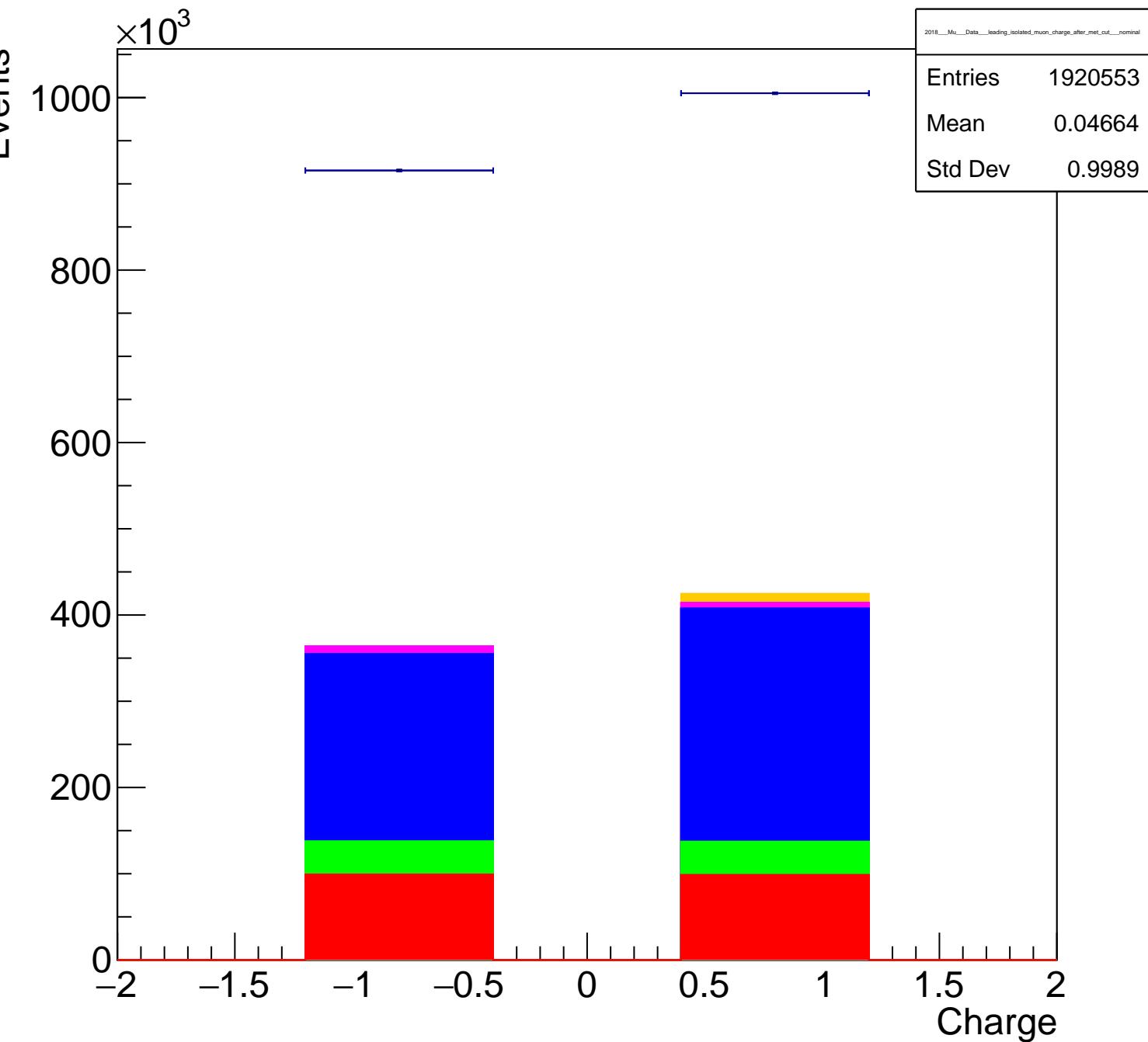


# Leading Isolated Muon Mass After MET Cut

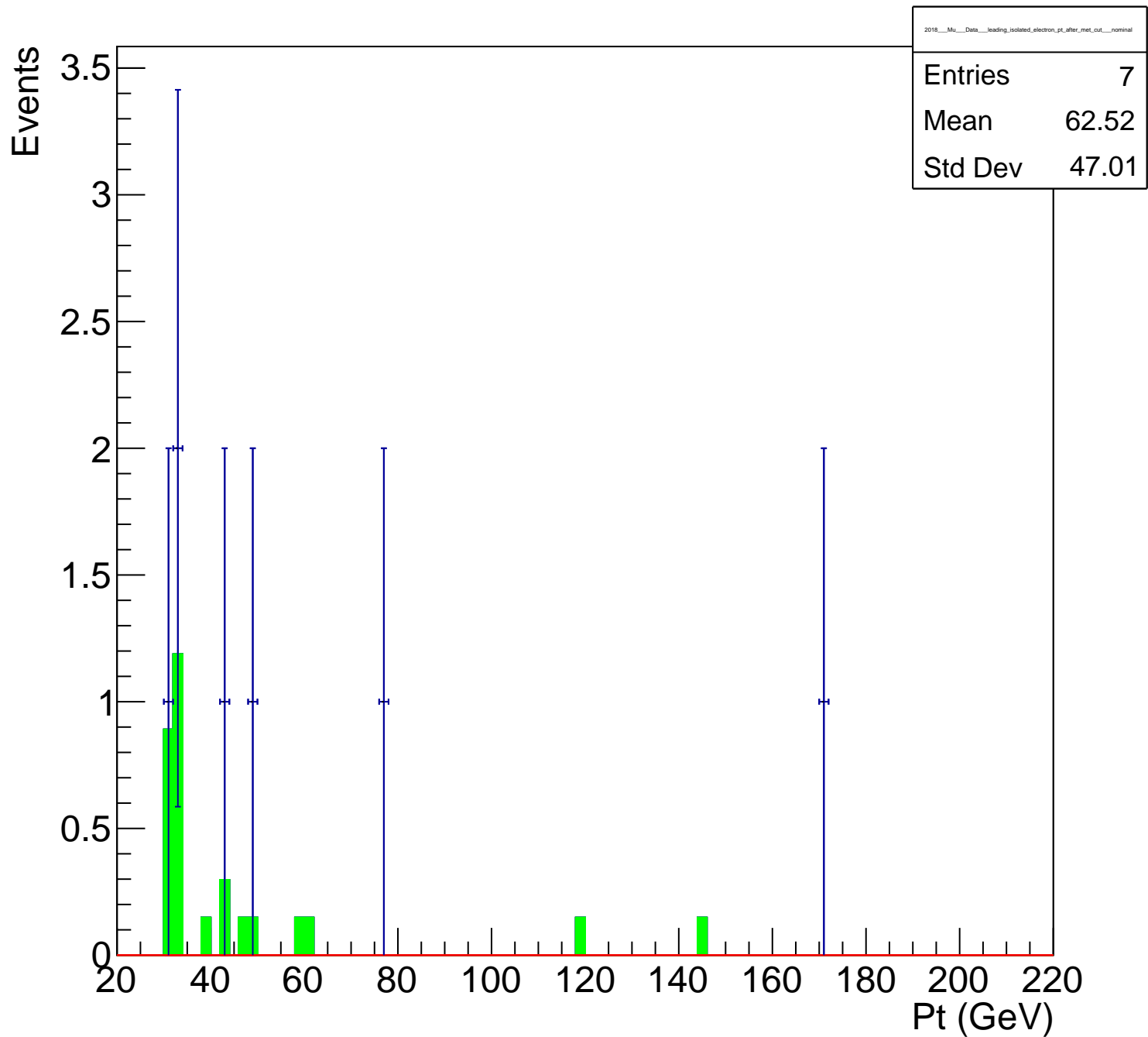




# Leading Isolated Muon Charge After MET Cut

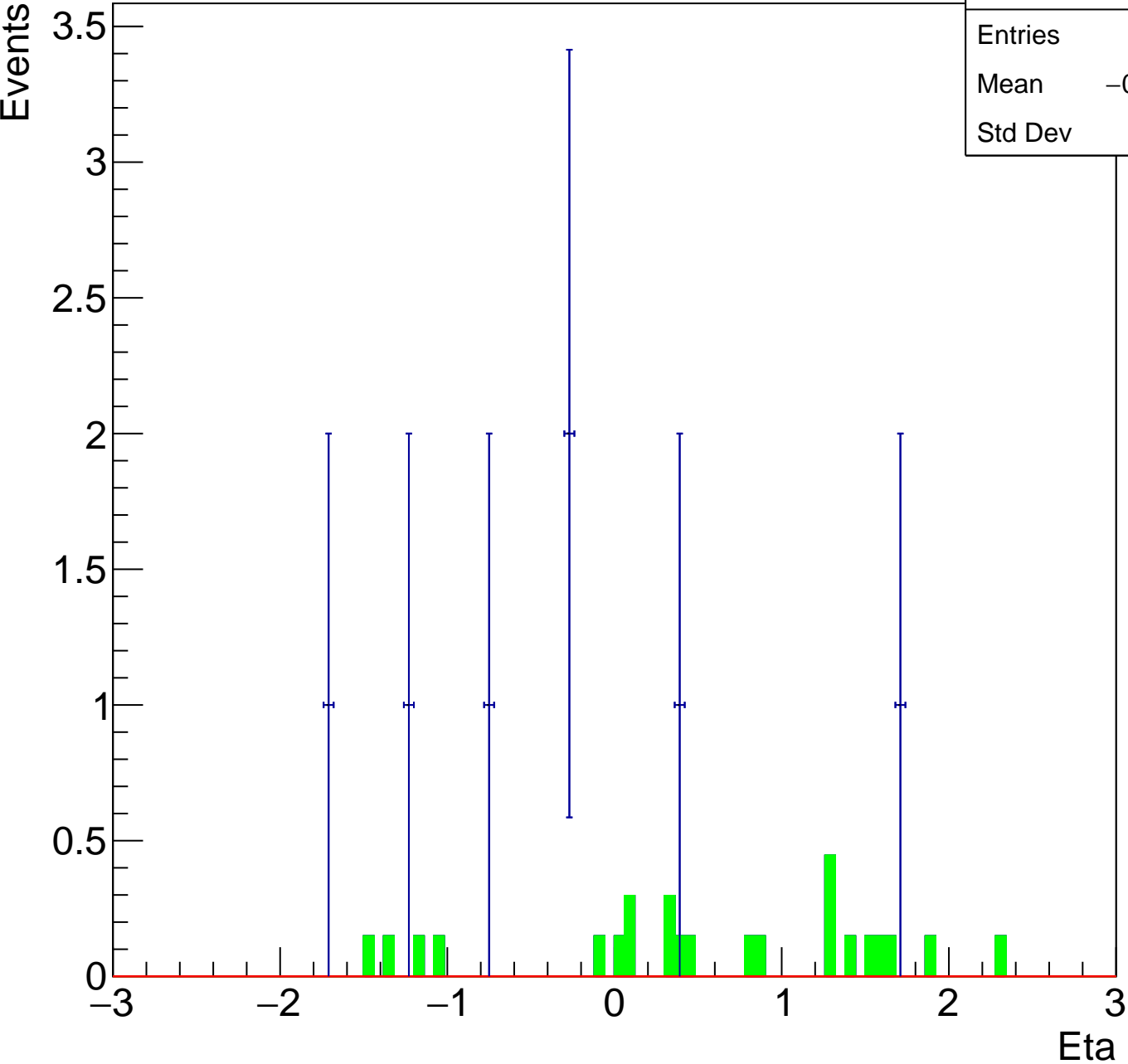


# Leading Isolated Electron Transverse Momentum After MET Cut



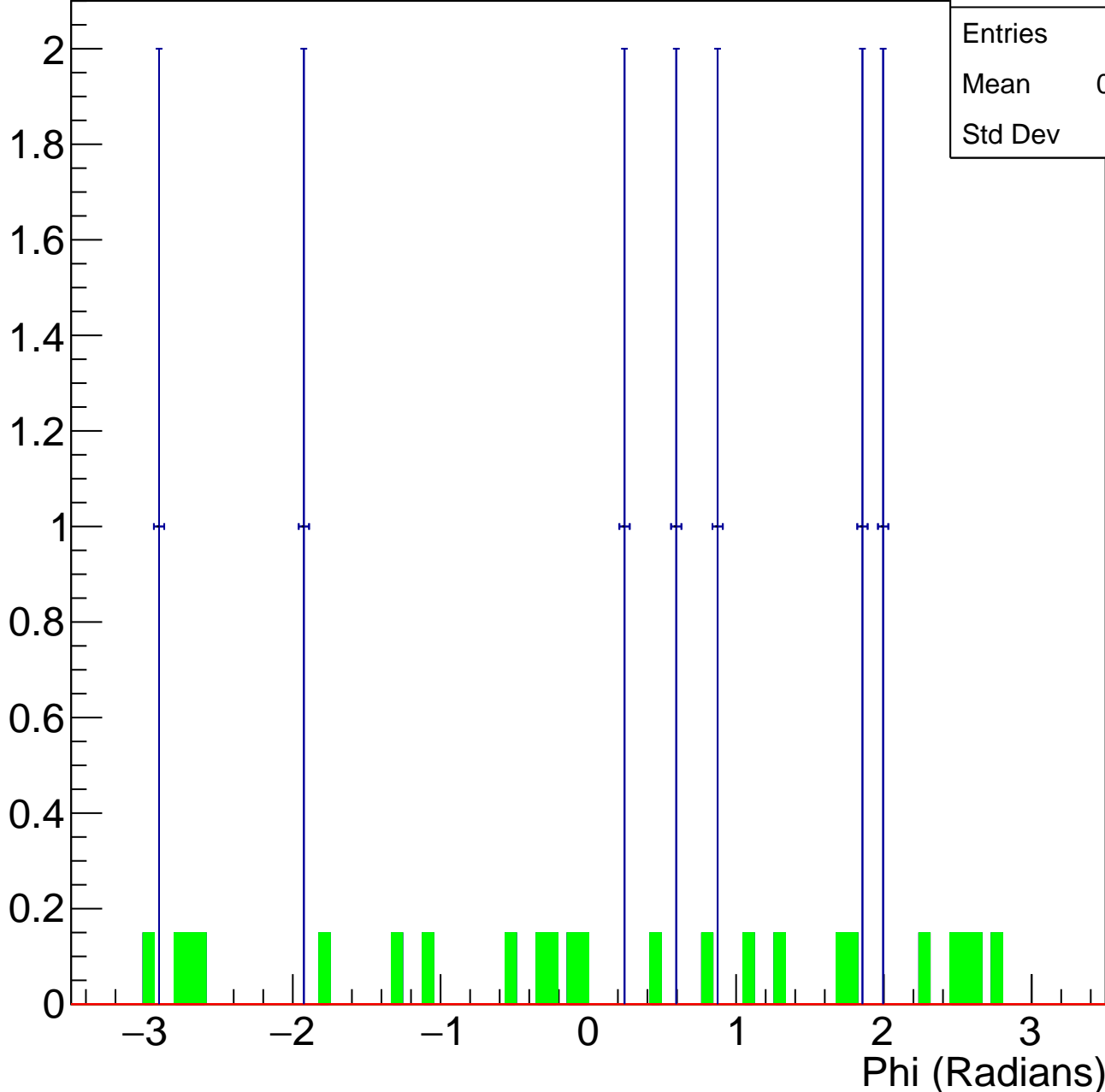
Leading Isolated Electron Pseudorapidity After MET Cut

2018_Mu_Data_leading_isolated_electron_eta_after_met_cut_nominal	
Entries	7
Mean	-0.2946
Std Dev	1.038



# 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

1

0.8

0.6

0.4

0.2

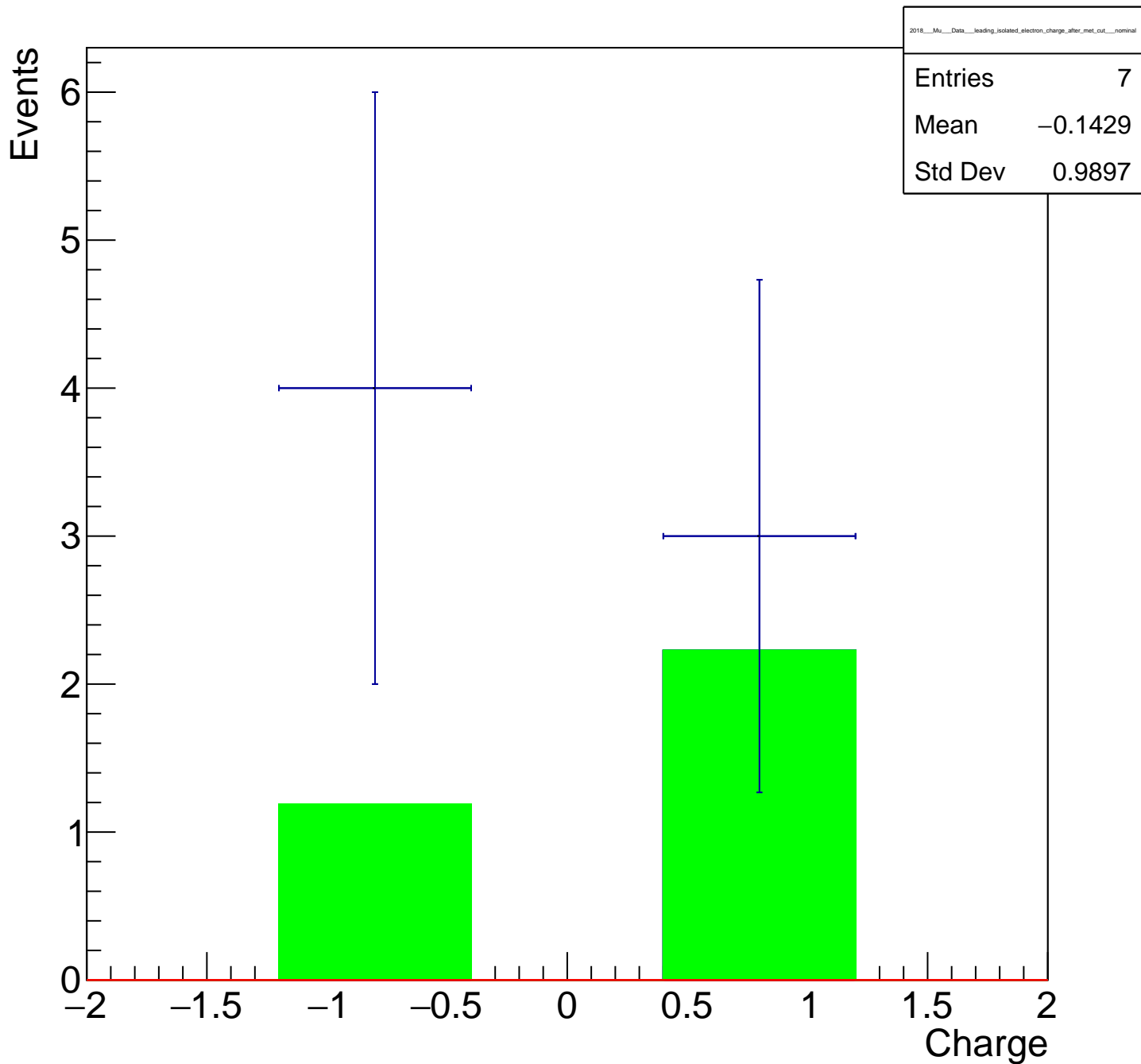
0

0.00010.00020.00030.00040.00050.00060.00070.00080.00090.001

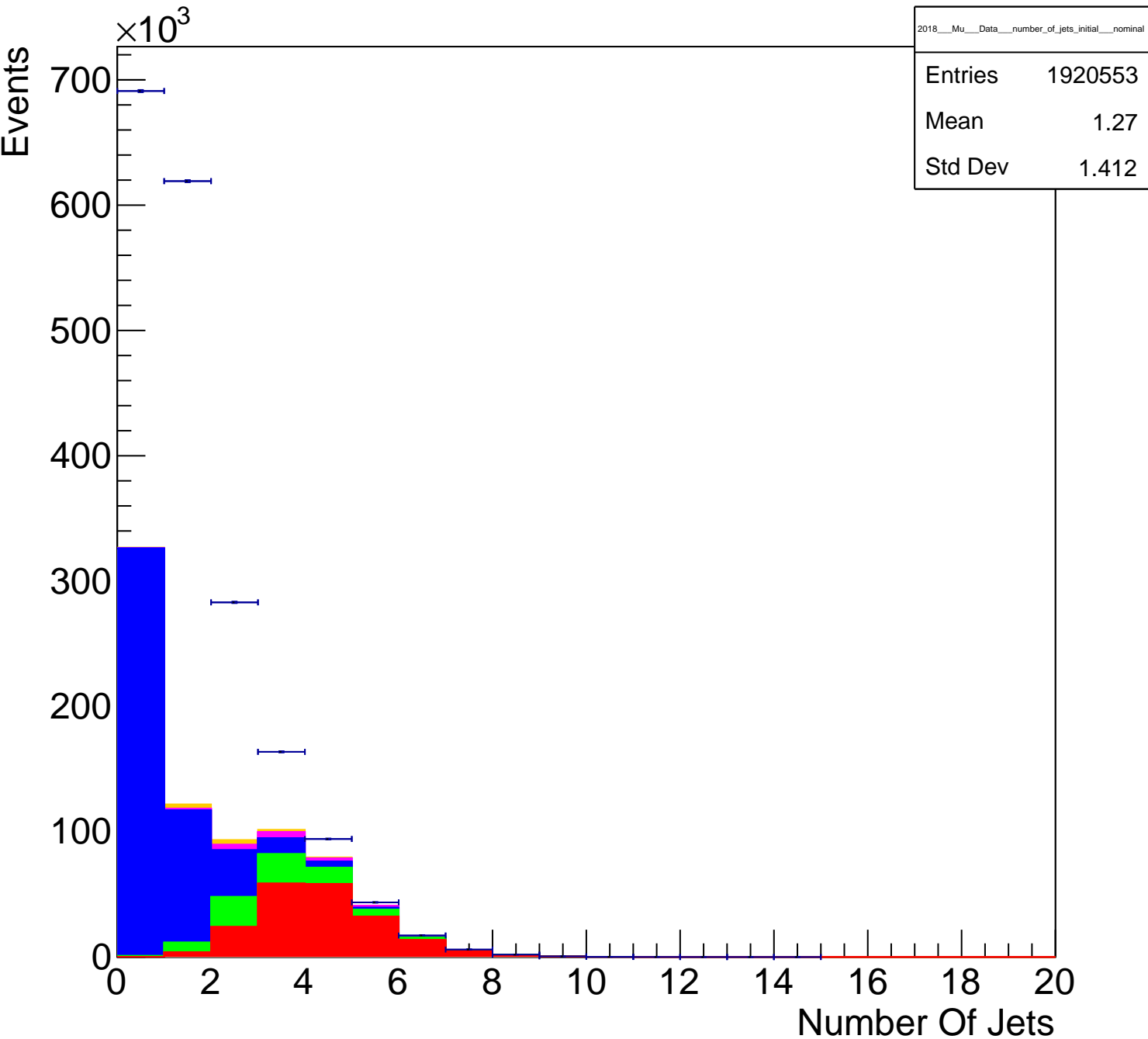
Mass(Gev)

2018_Mu_Data_leading_isolated_electron_mass_after_met_cut_nominal	
Entries	7
Mean	0
Std Dev	0

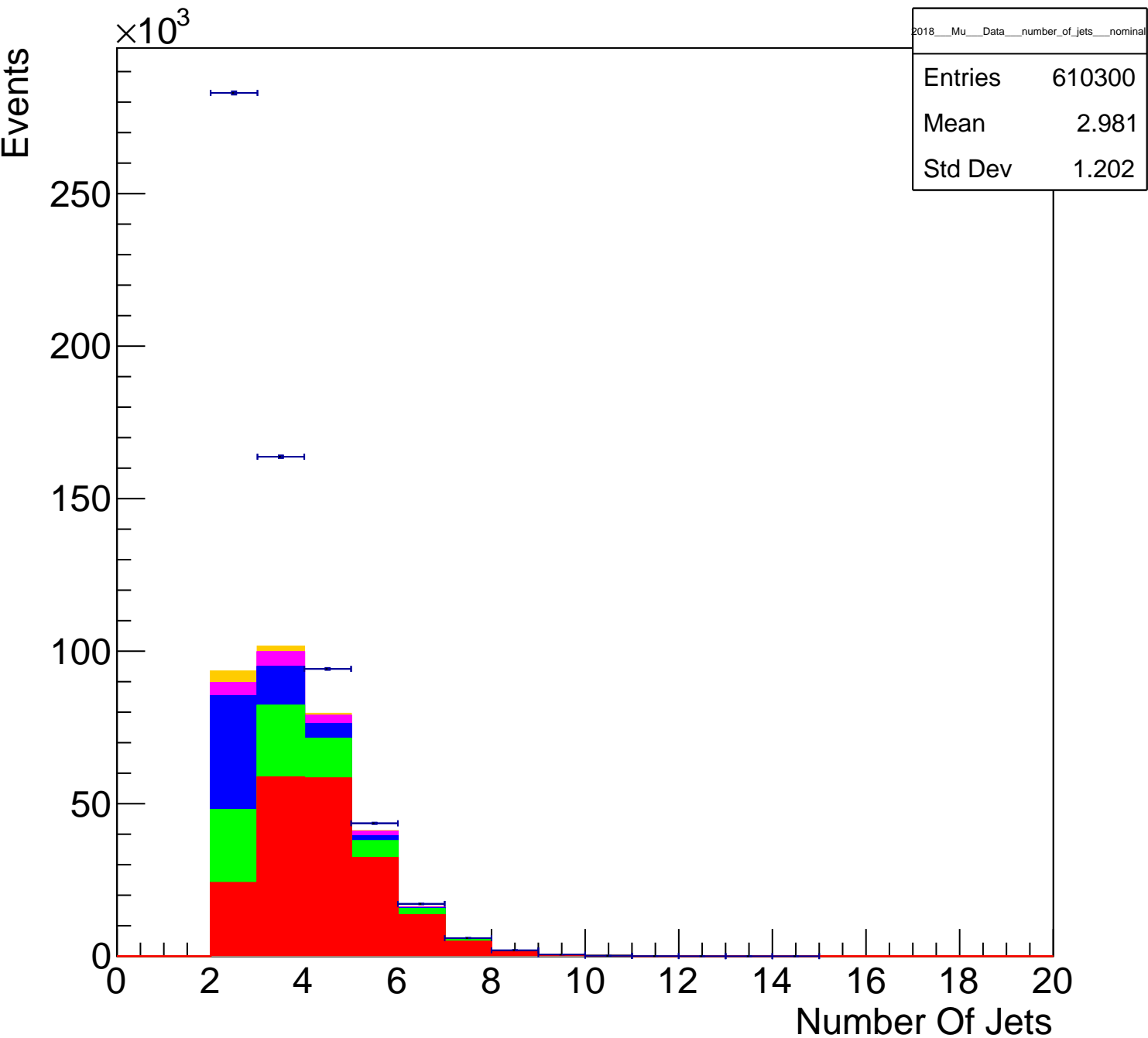
# Leading Isolated Electron Charge After MET Cut



# Number of Jets Before Jet Cut



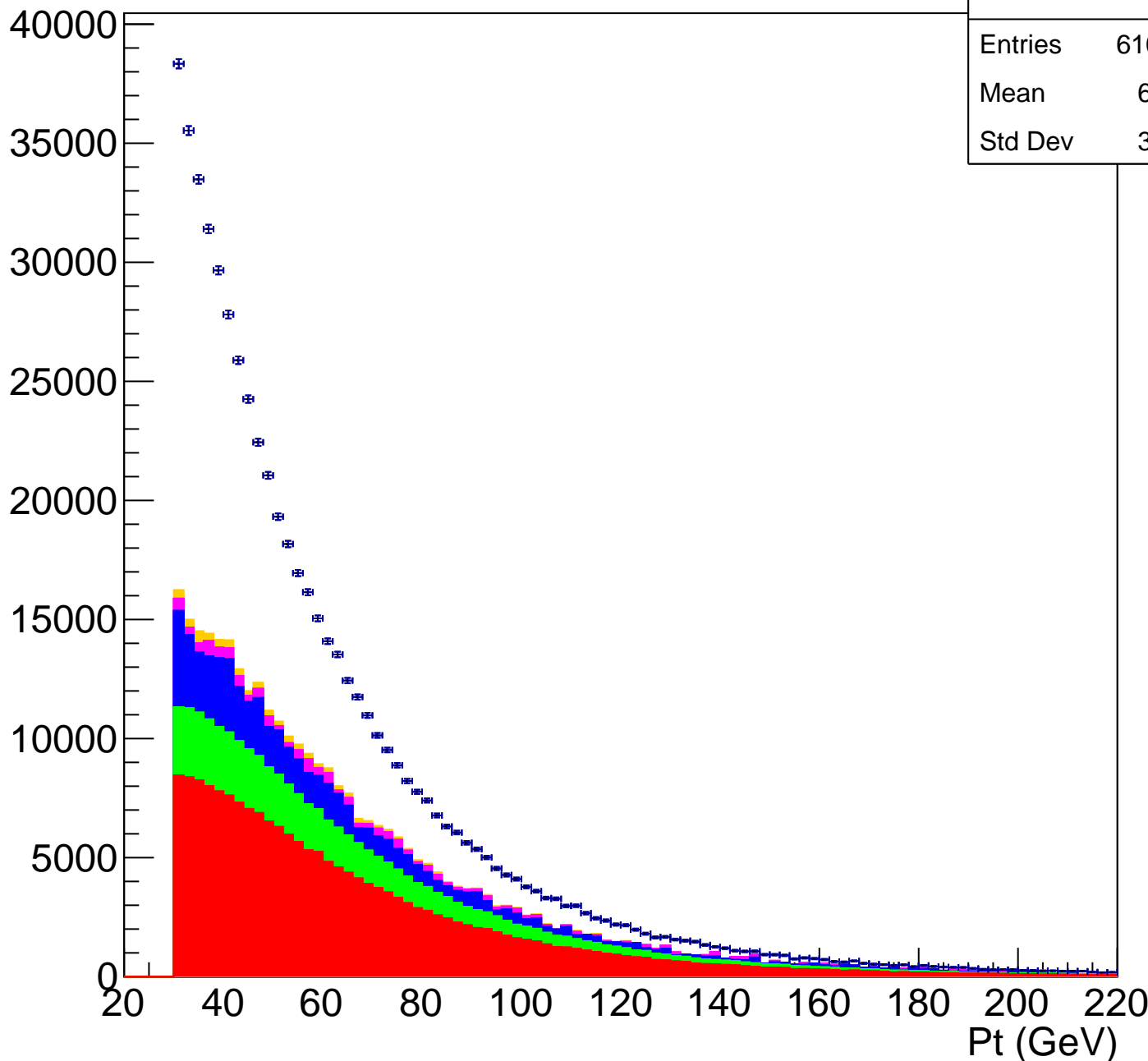
# Number Of Jets



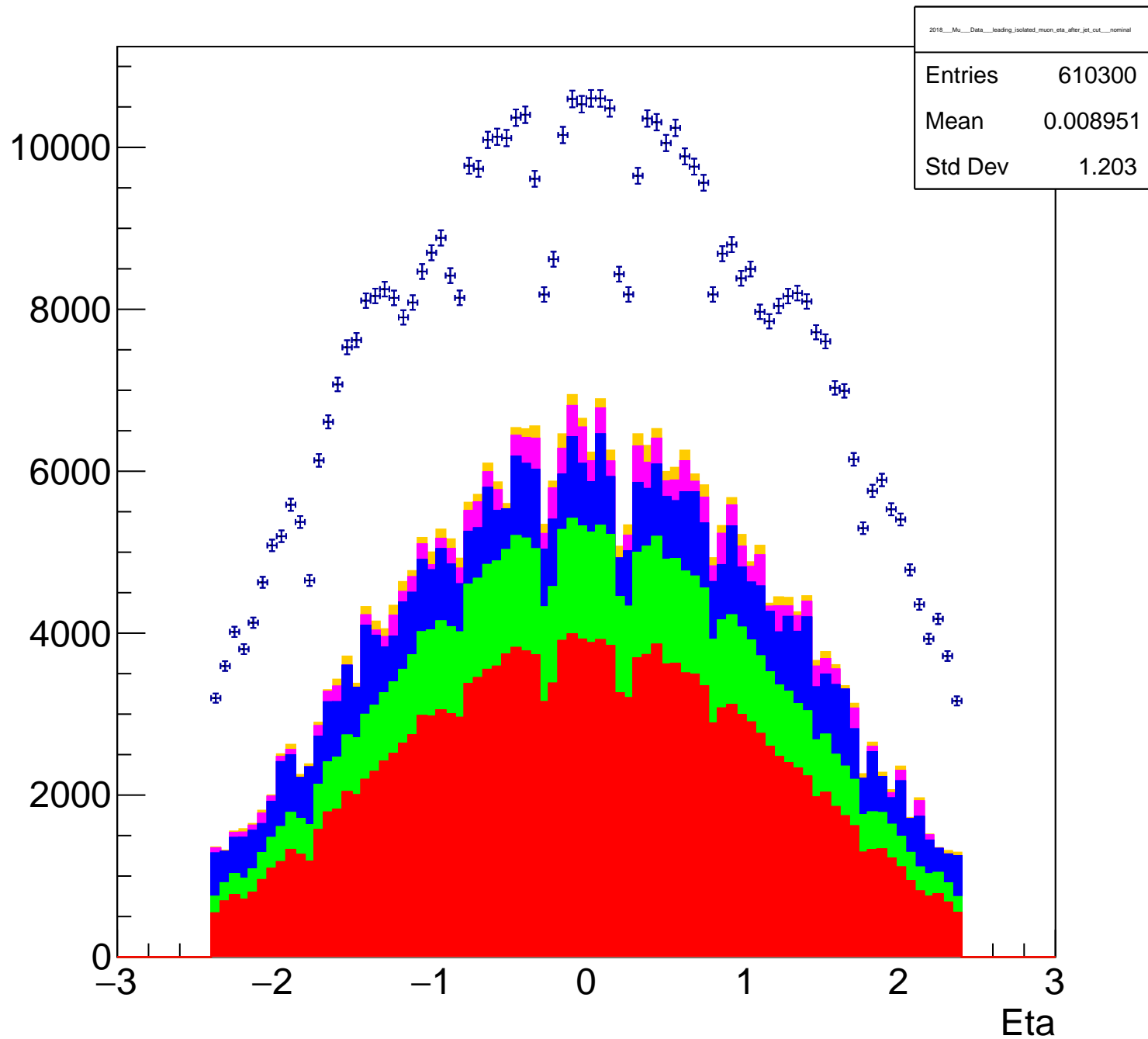


Leading Isolated Muon Transverse Momentum After Jet Cut

2018_Mu_Data_leading_isolated_muon_pt_after_jet_cut_nominal	
Entries	610300
Mean	61.39
Std Dev	31.62

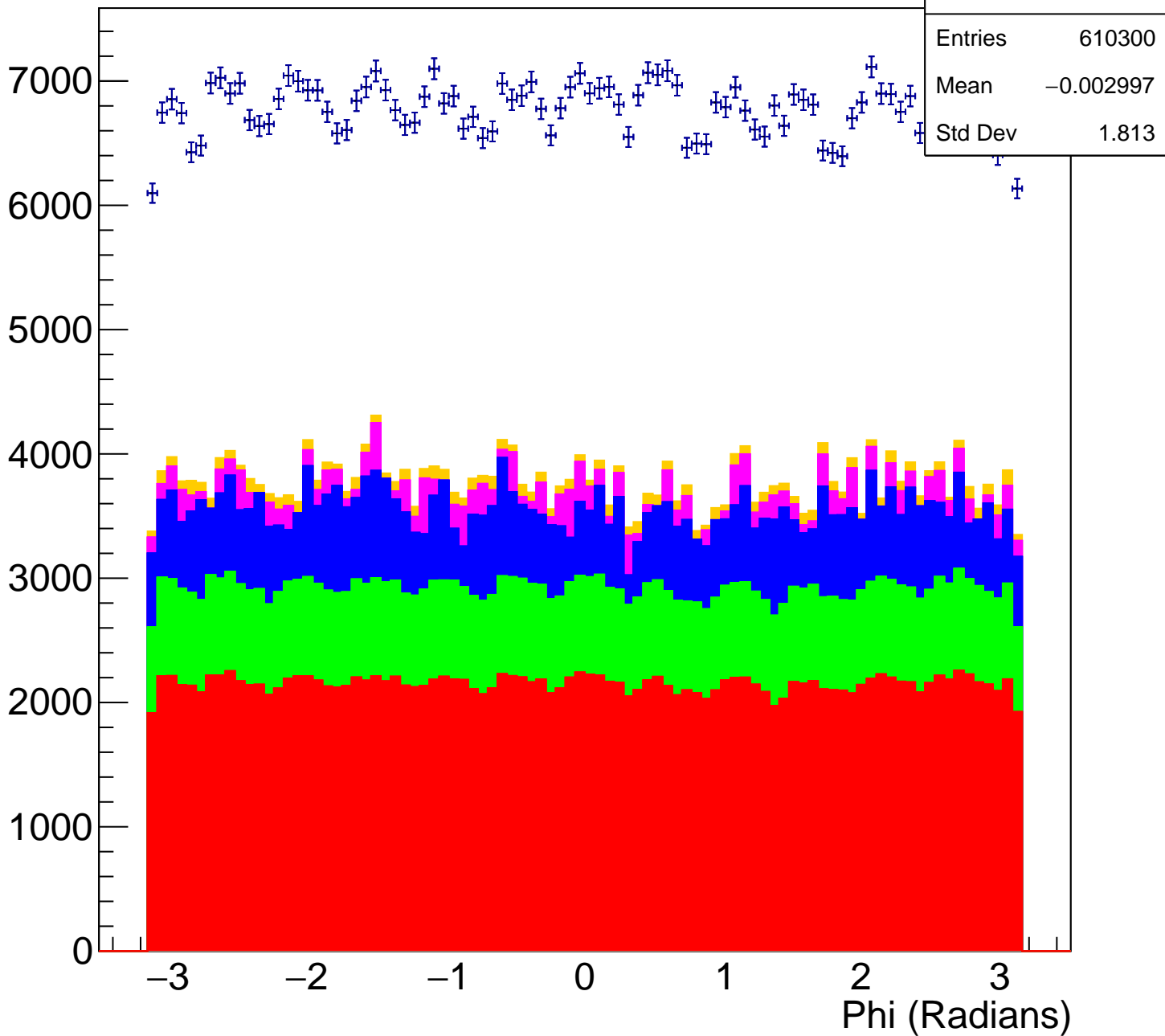


# Leading Isolated Muon Pseudorapidity After Jet Cut

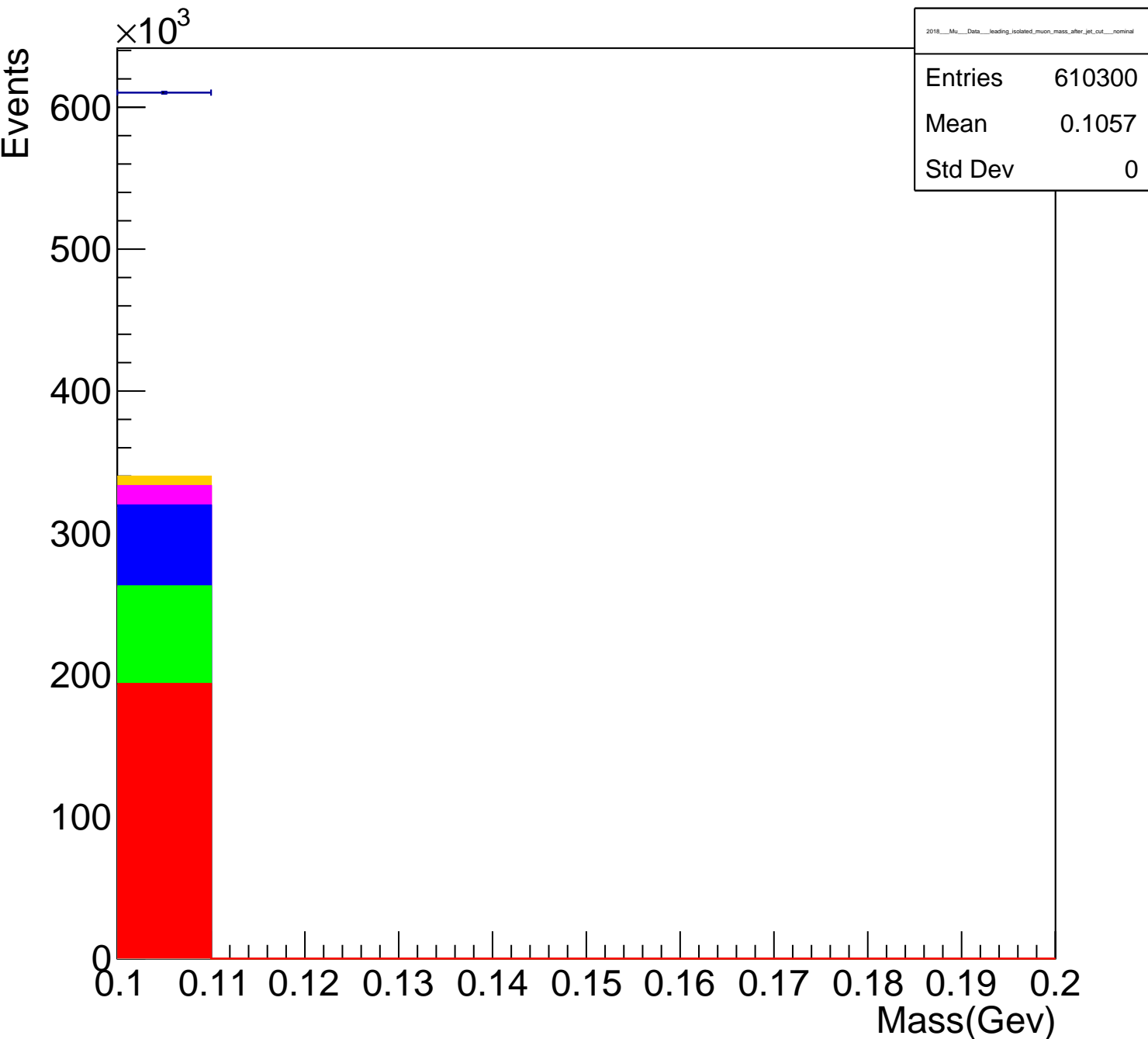


# Leading Isolated Muon Angle After Jet Cut

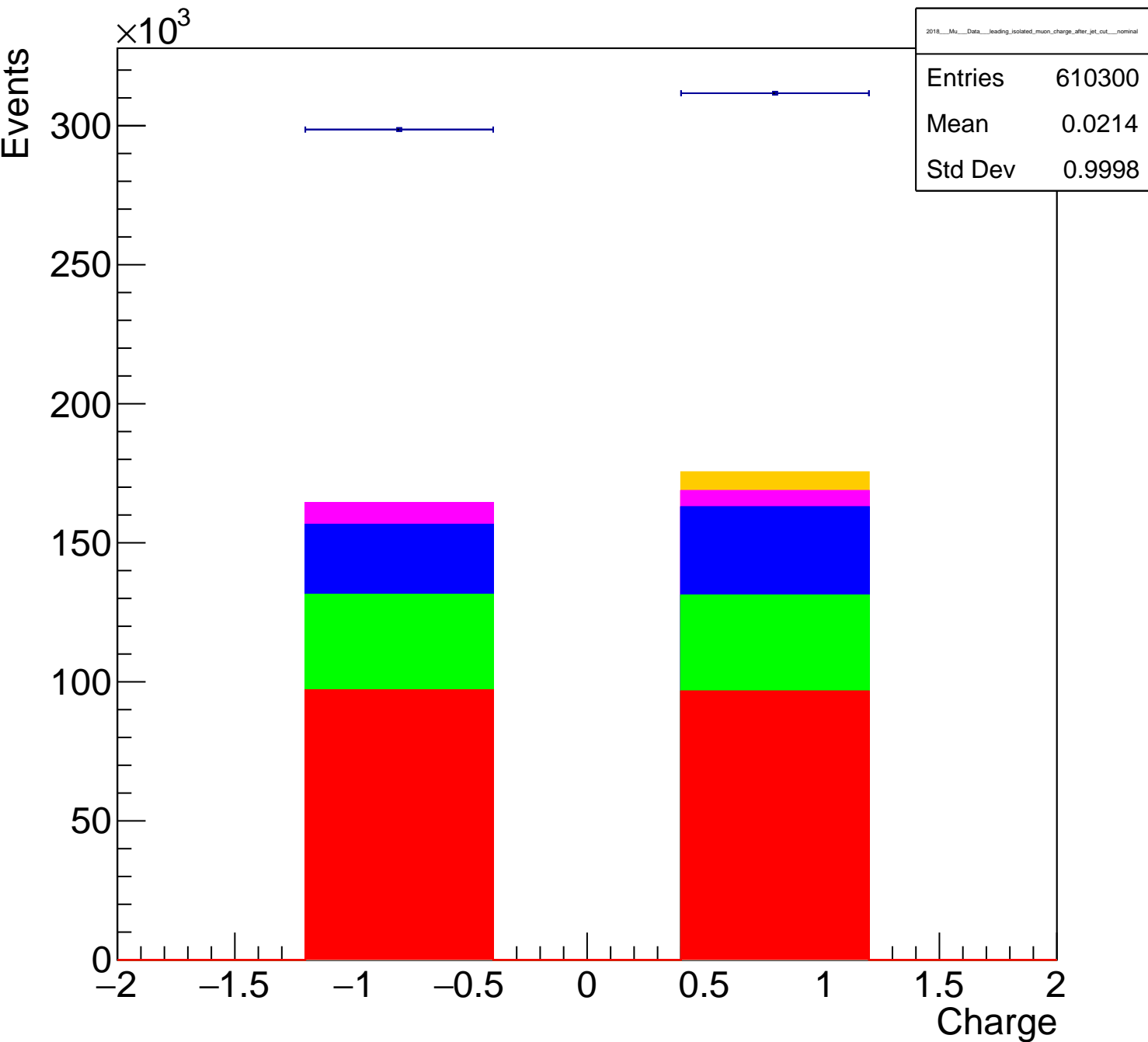
Events



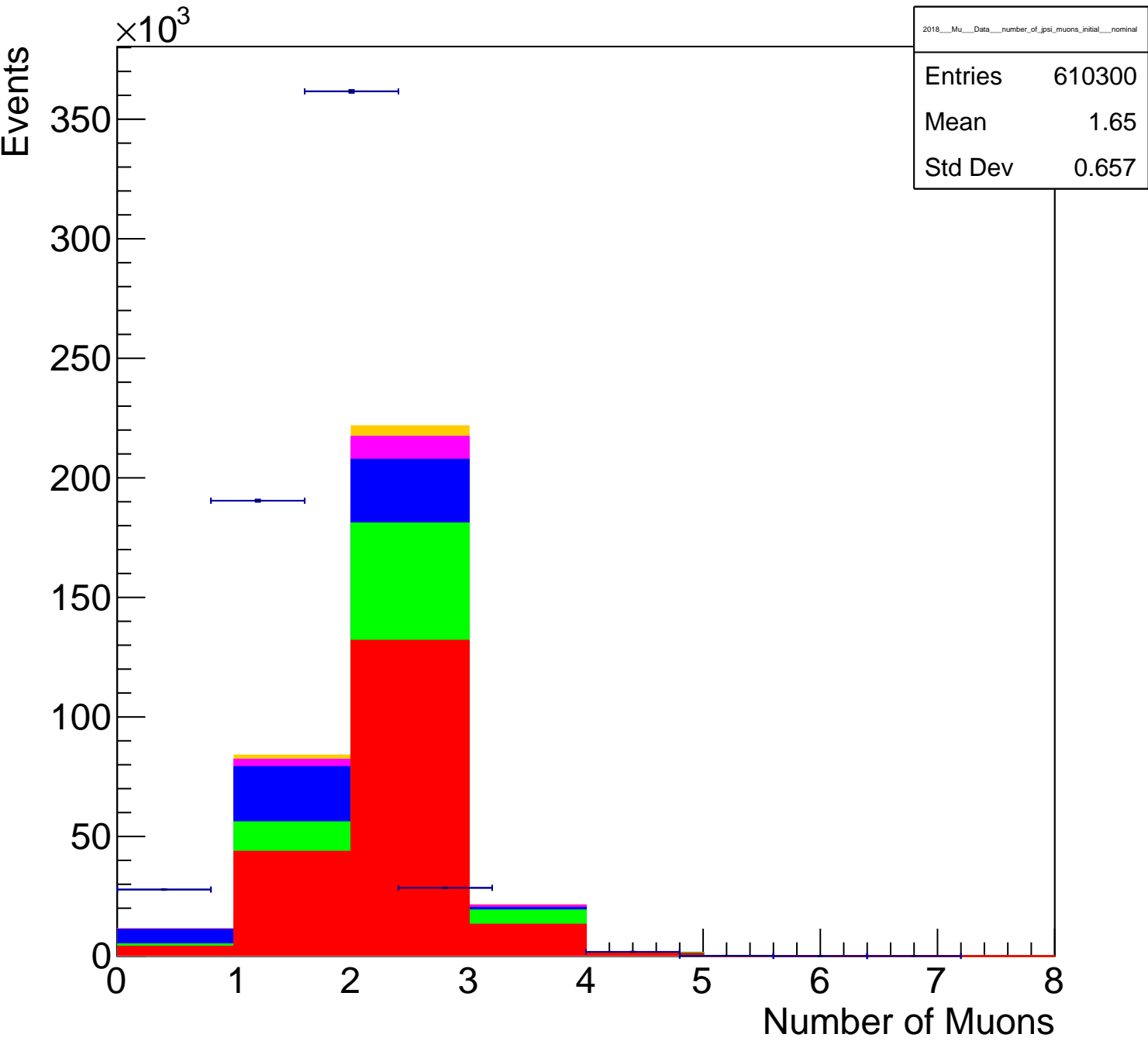
# Leading Isolated Muon Mass After Jet Cut



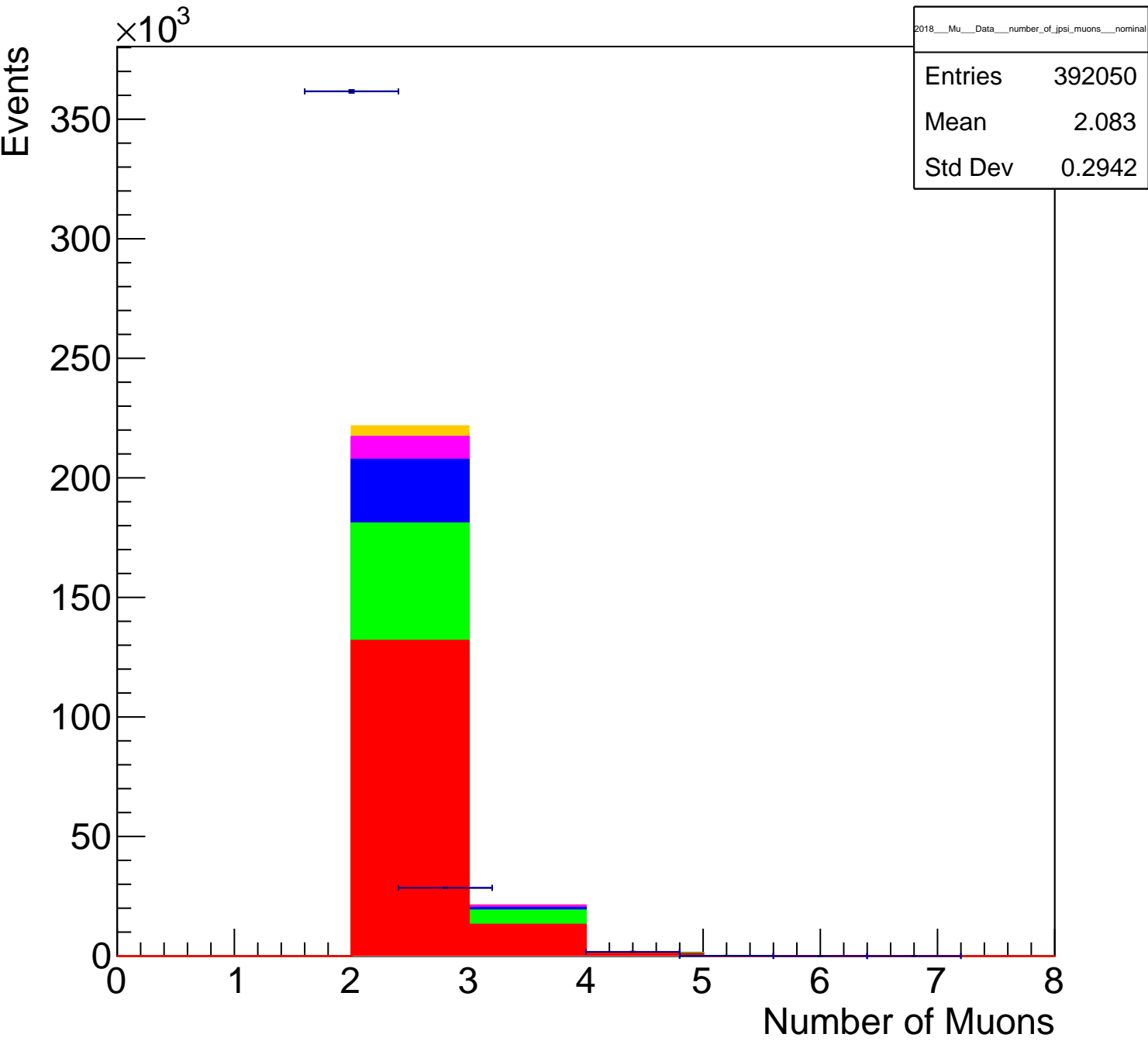
# Leading Isolated Muon Charge After Jet Cut



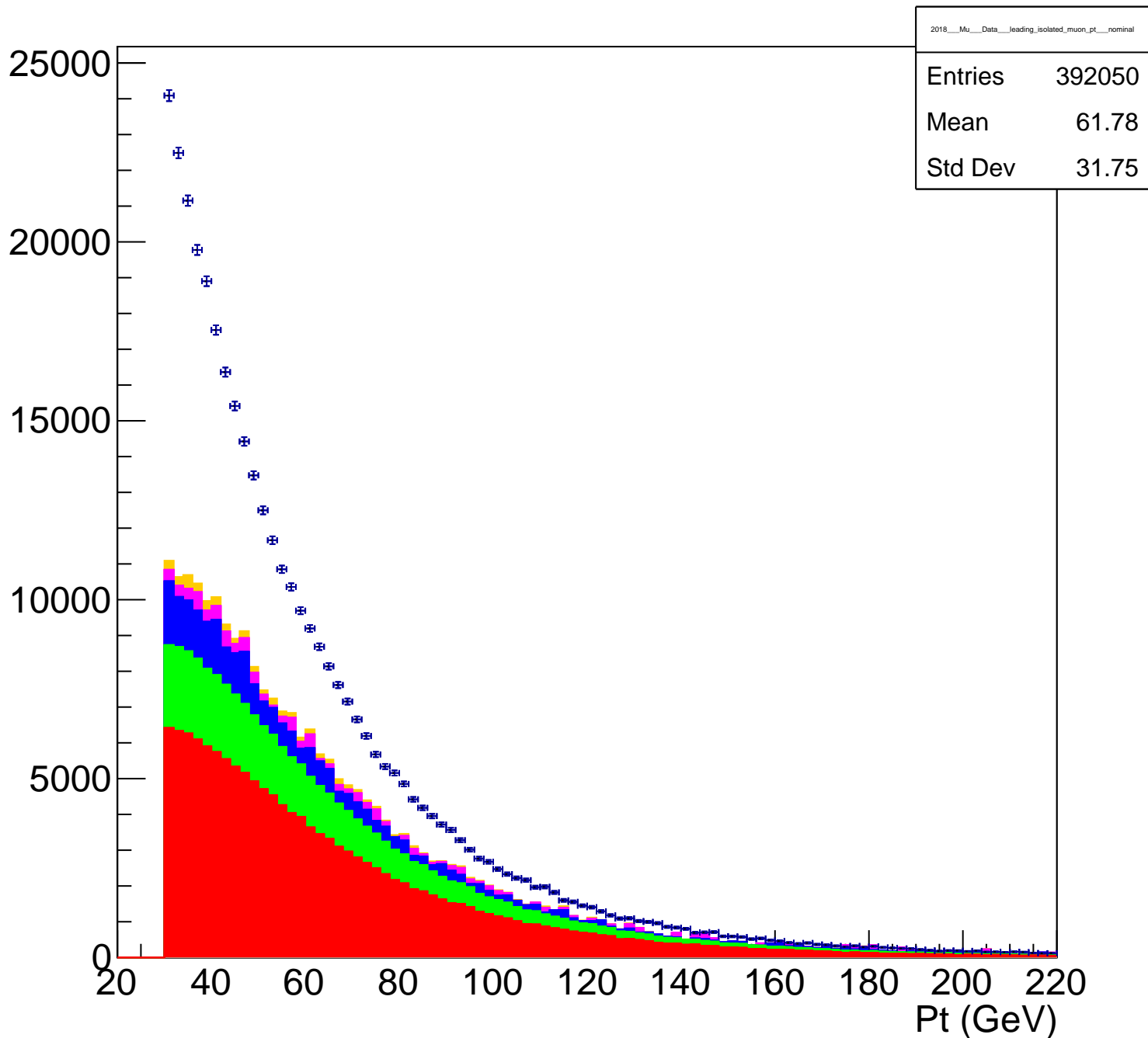
# Number of JPsi Muons Before JPsi Muon Cut



# Number of JPsi Muons



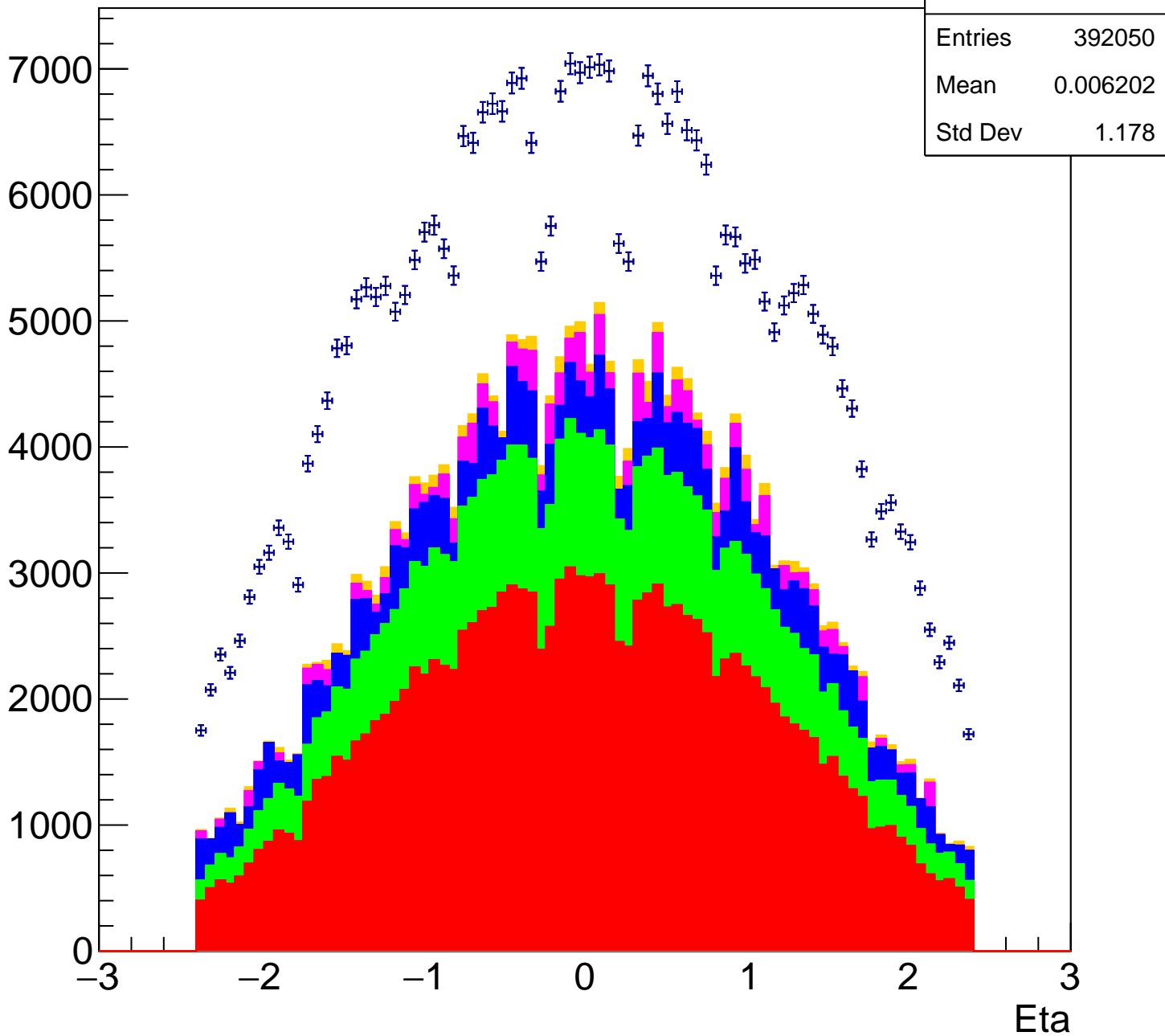
# Leading Isolated Muon Transverse Momentum



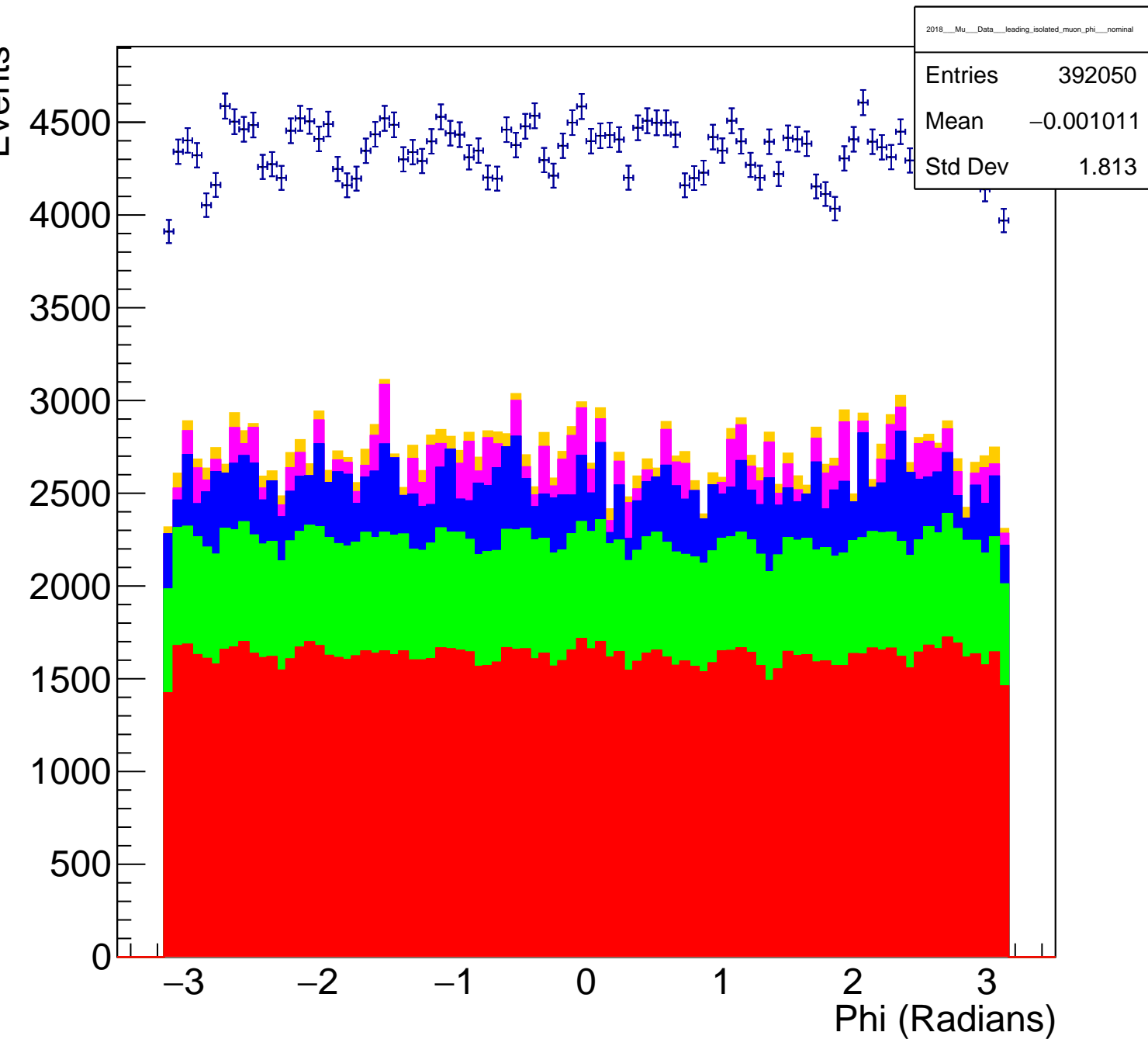


# Leading Isolated Muon Pseudorapidity

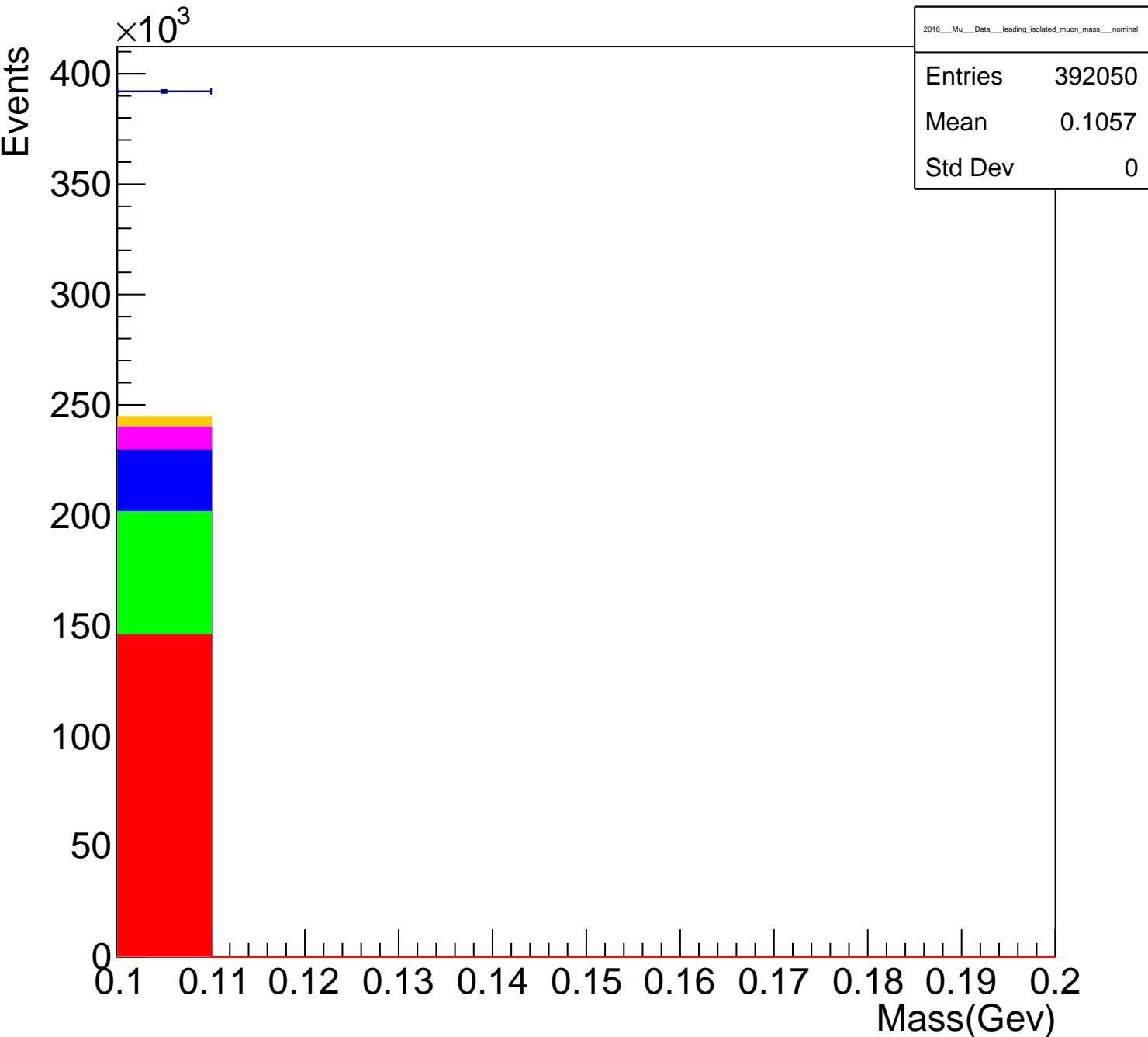
Events



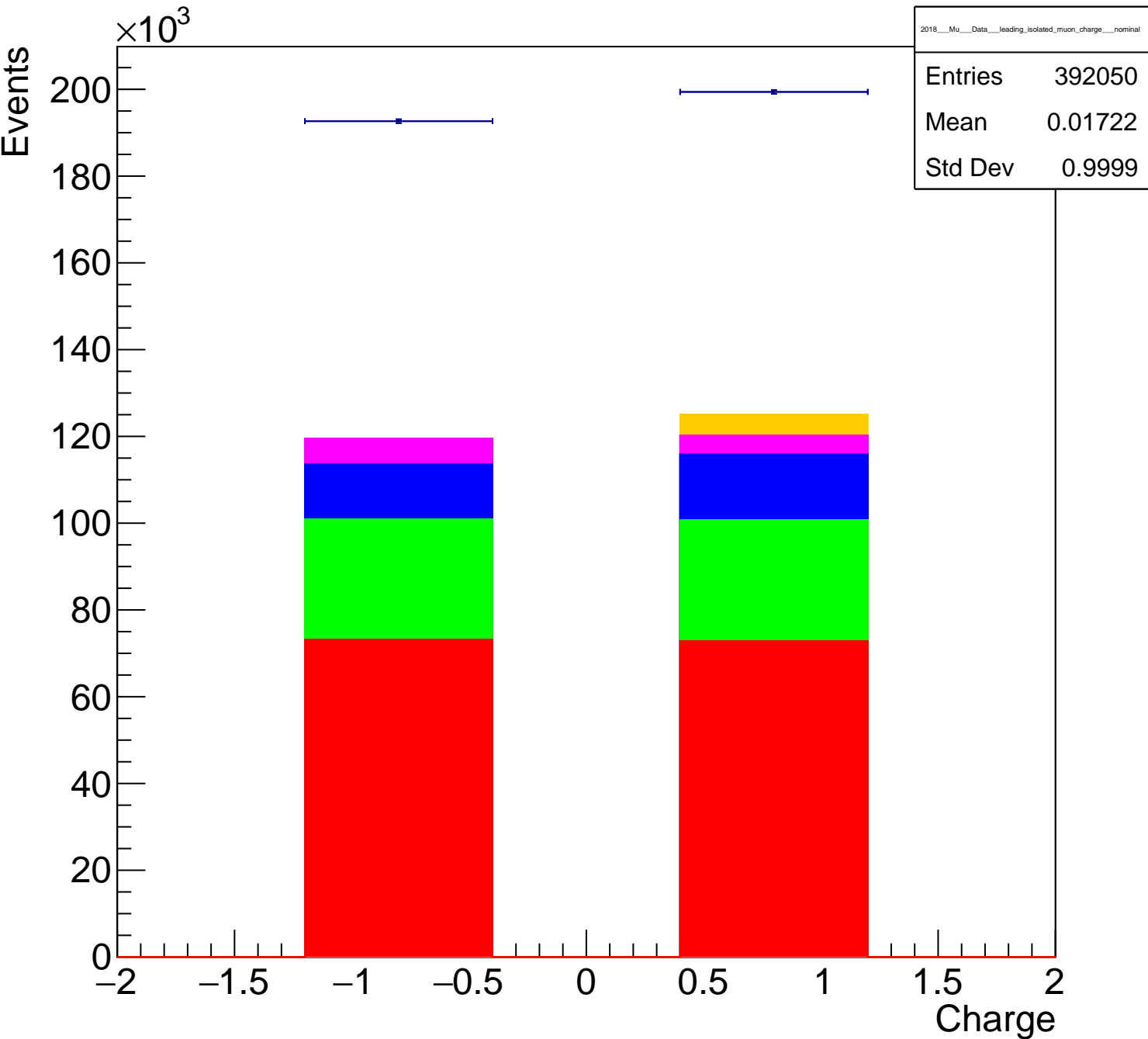
# Leading Isolated Muon Angle



# Leading Isolated Muon Mass



# Leading Isolated Muon Charge



# Jet Transverse Momentum for Leading Jet

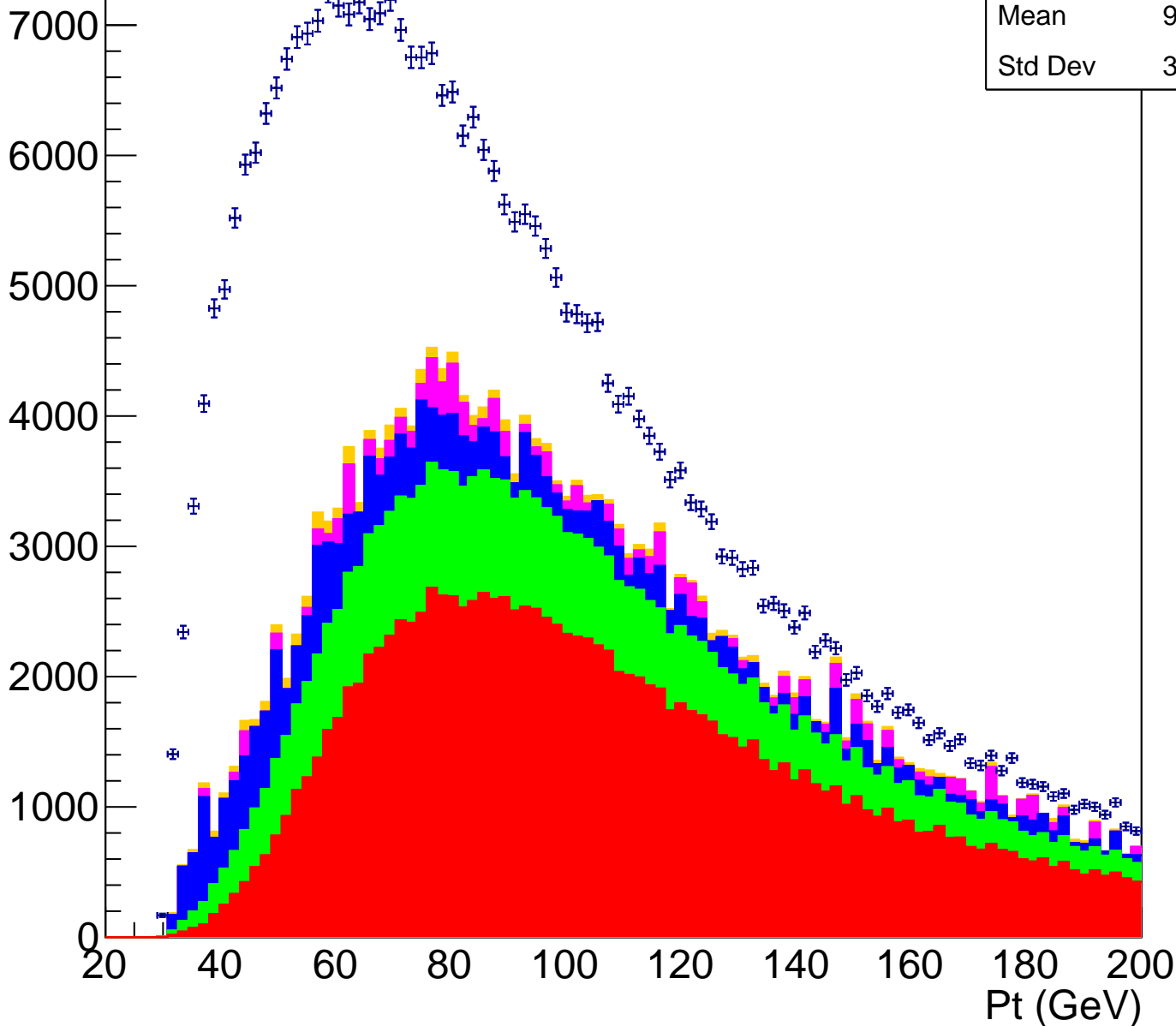
Events

2018\_\_Mu\_\_Data\_\_jet1\_pt\_\_nominal

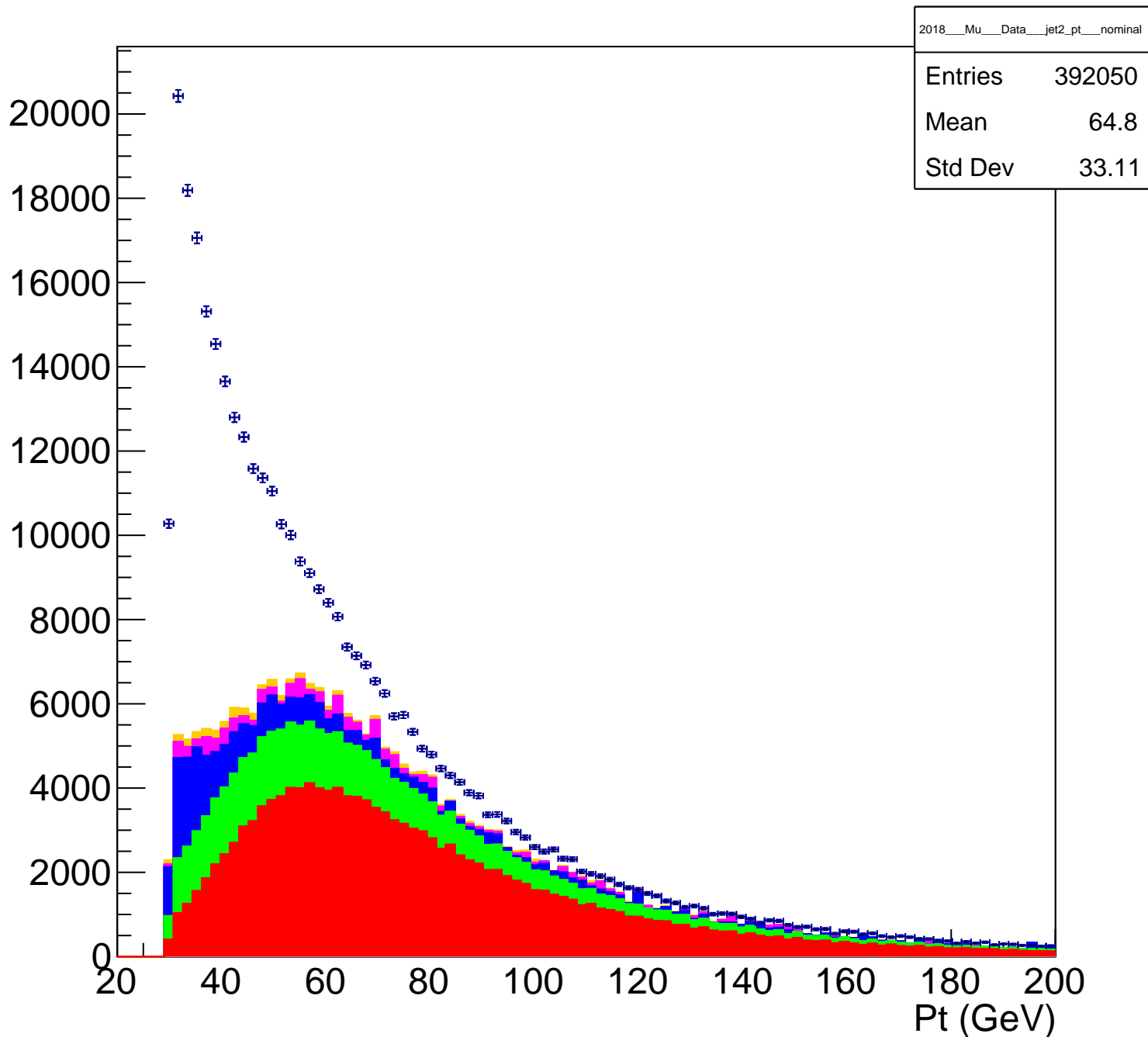
Entries 392050

Mean 91.68

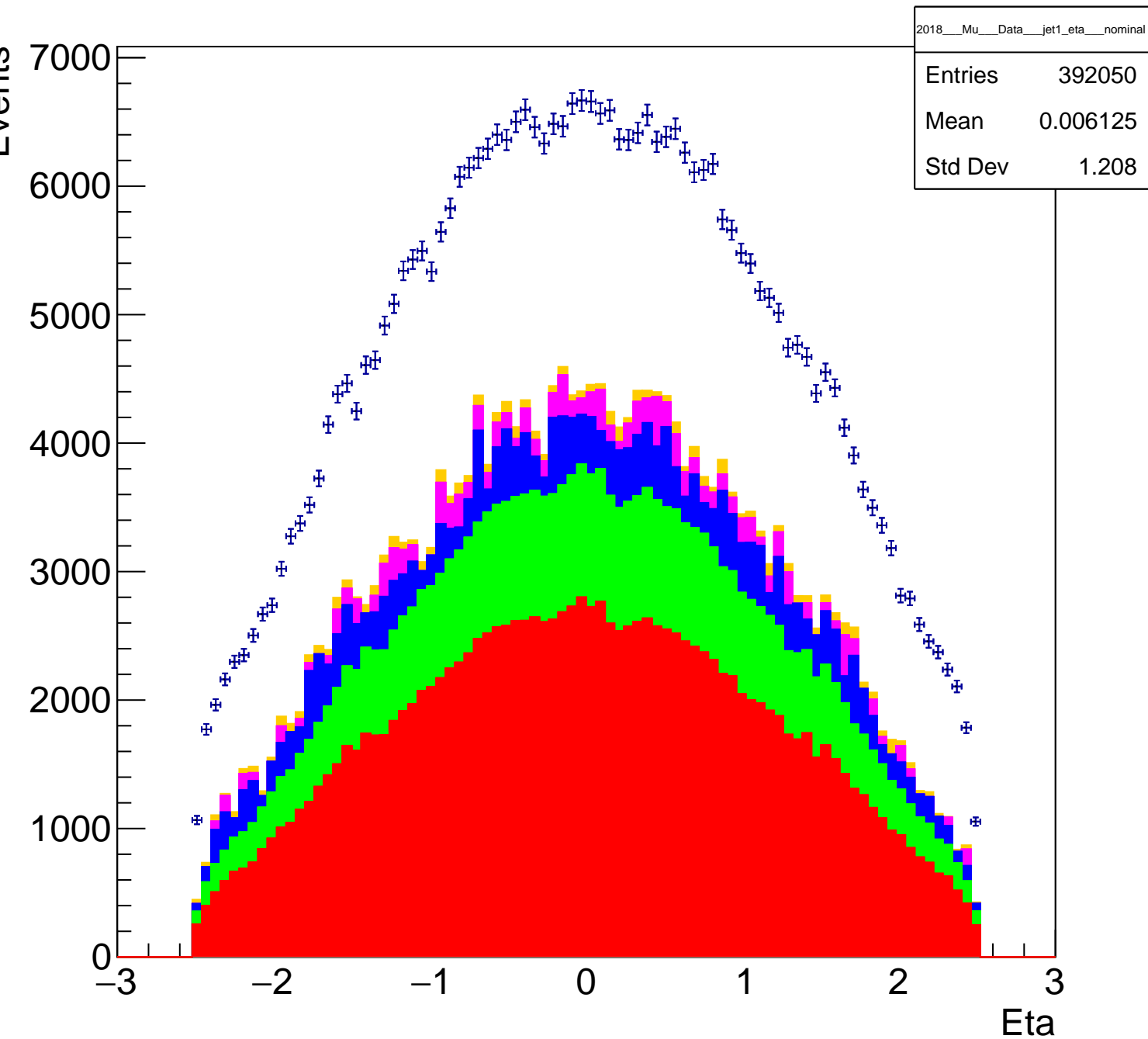
Std Dev 39.59



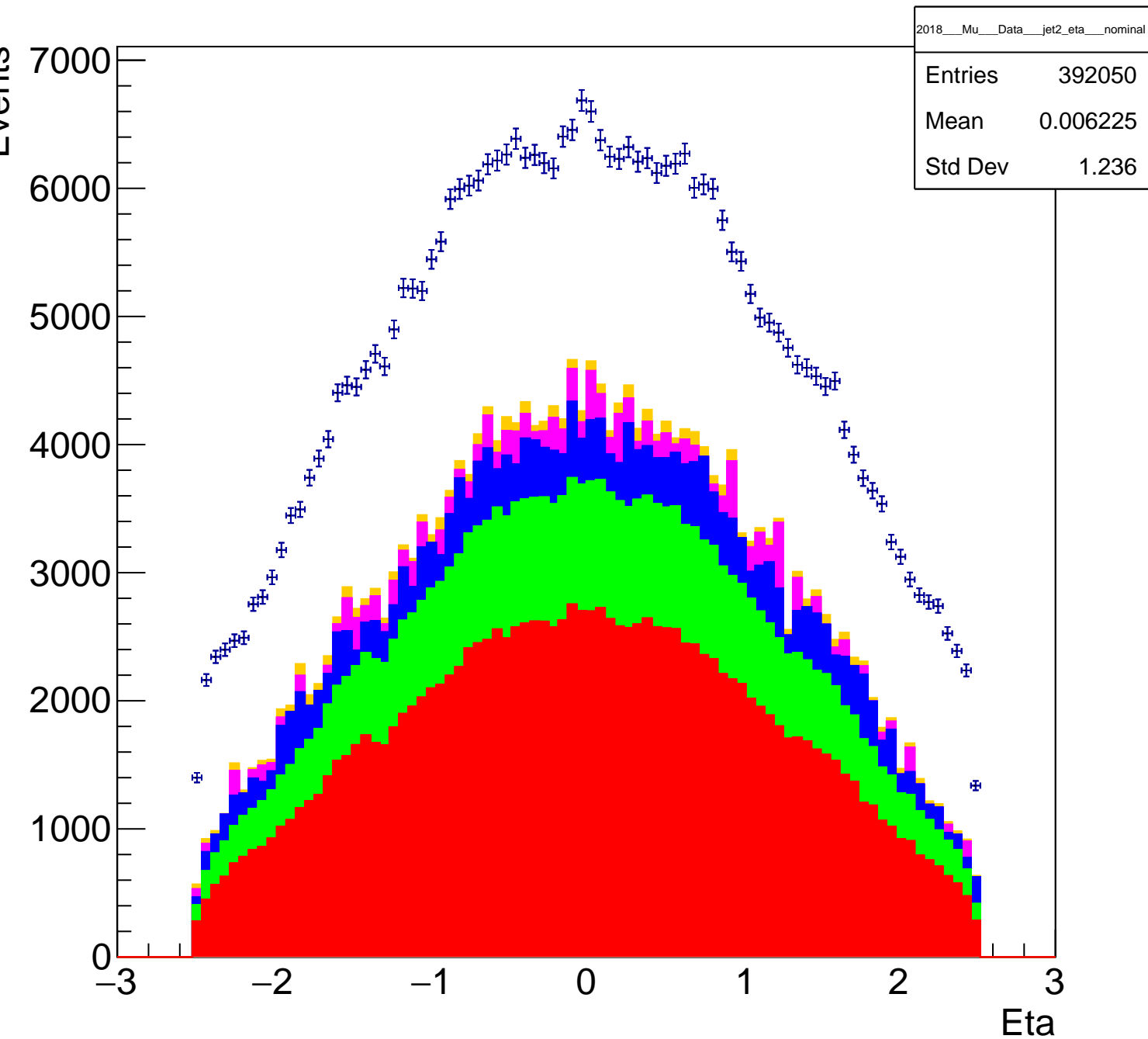
# Jet Transverse Momentum for Subleading Jet



# Jet Pseudorapidity for Leading Jet

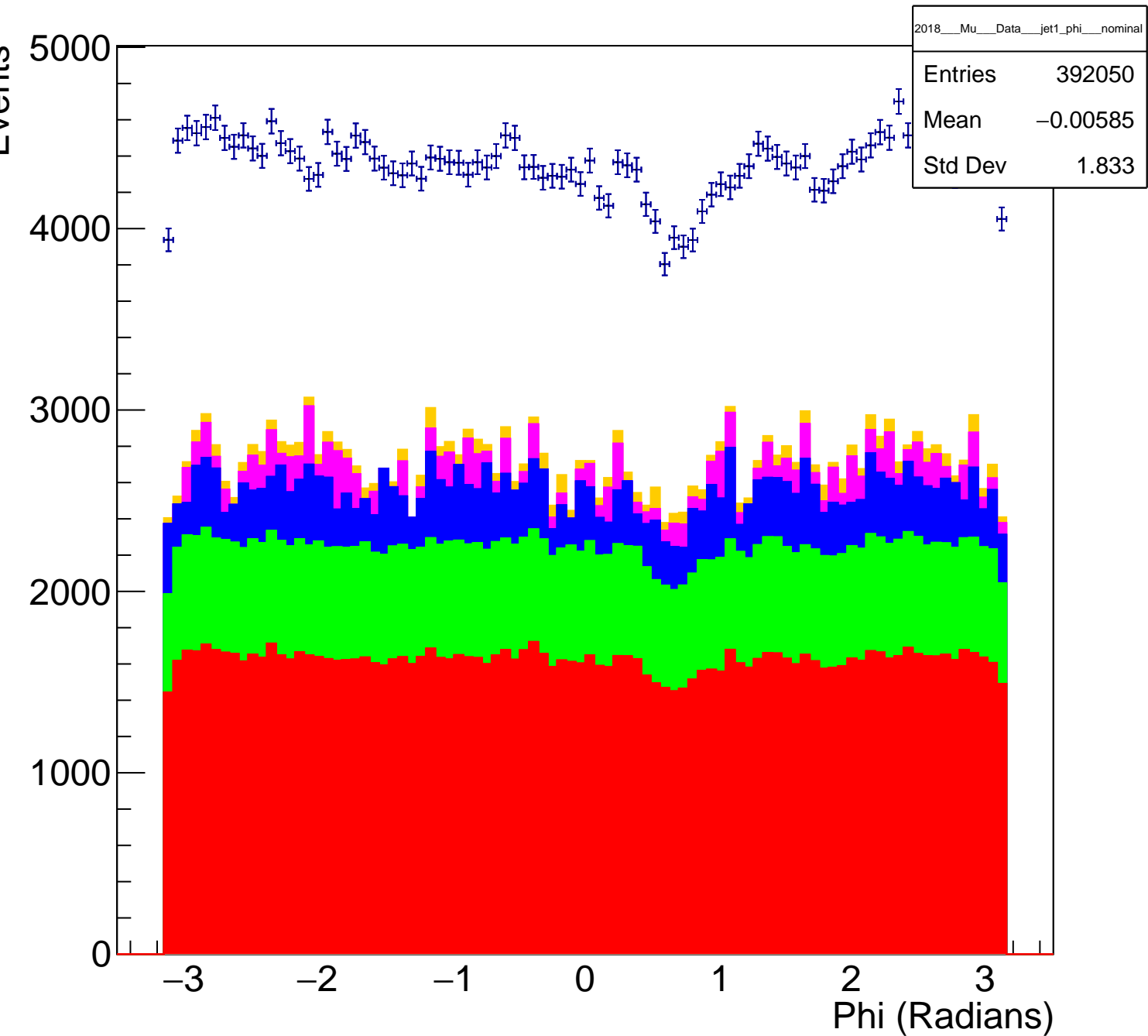


# Jet Pseudorapidity for Subleading Jet

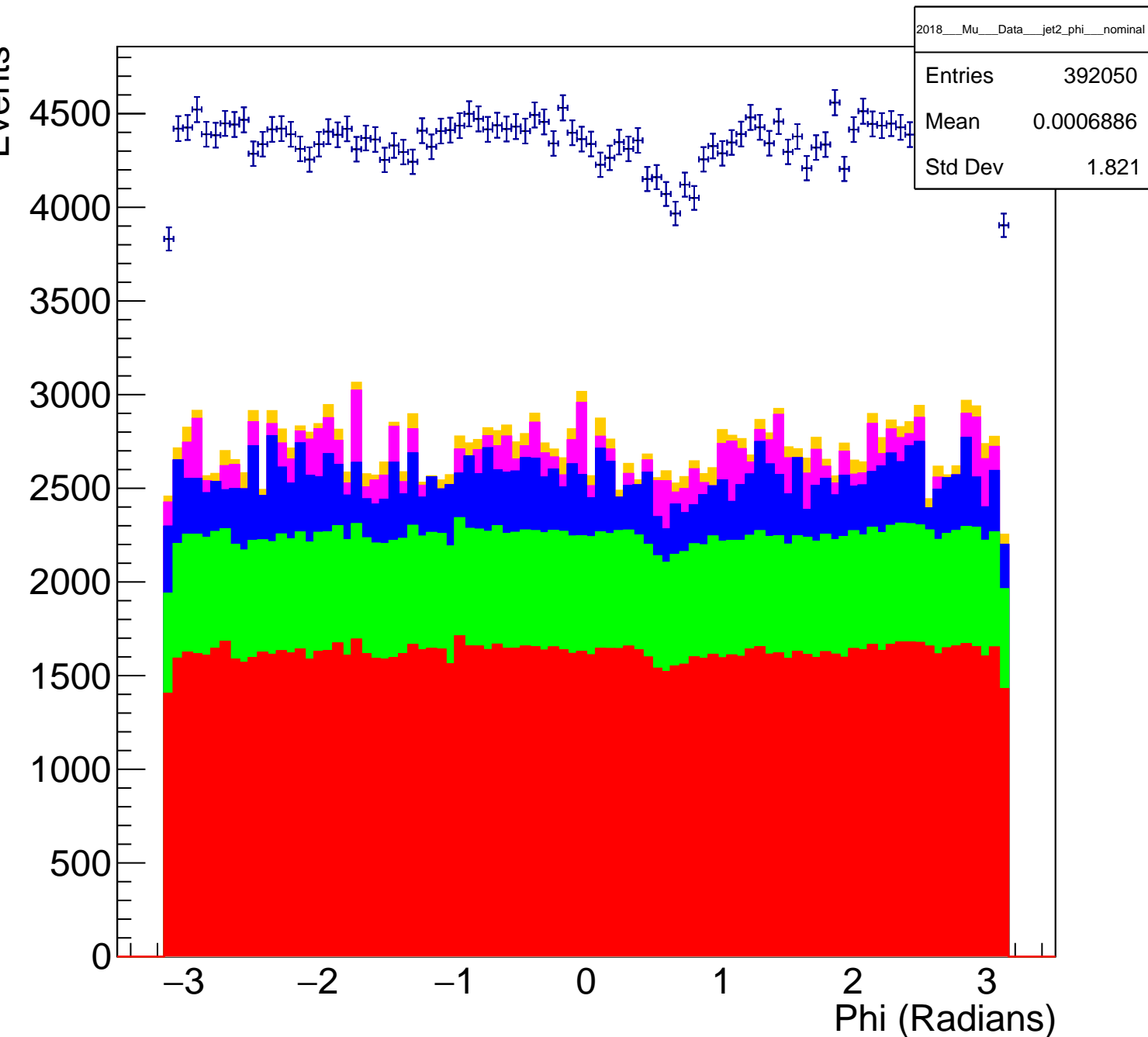




# Jet Angle for Leading Jet



# Jet Angle for Subleading Jet



# Transverse Mass

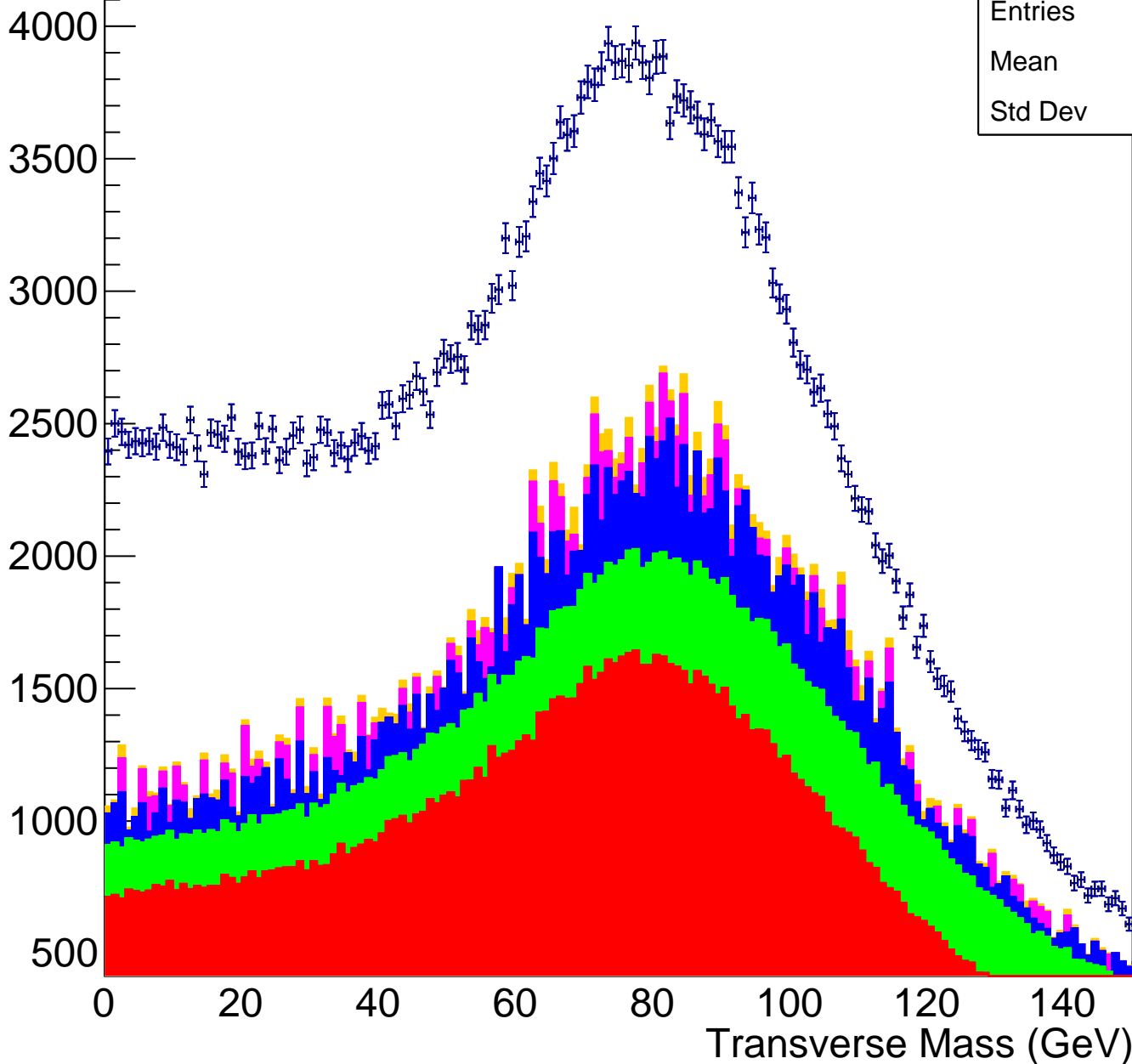
Events

2018\_\_Mu\_\_Data\_\_transverse\_mass\_\_nominal

Entries 392050

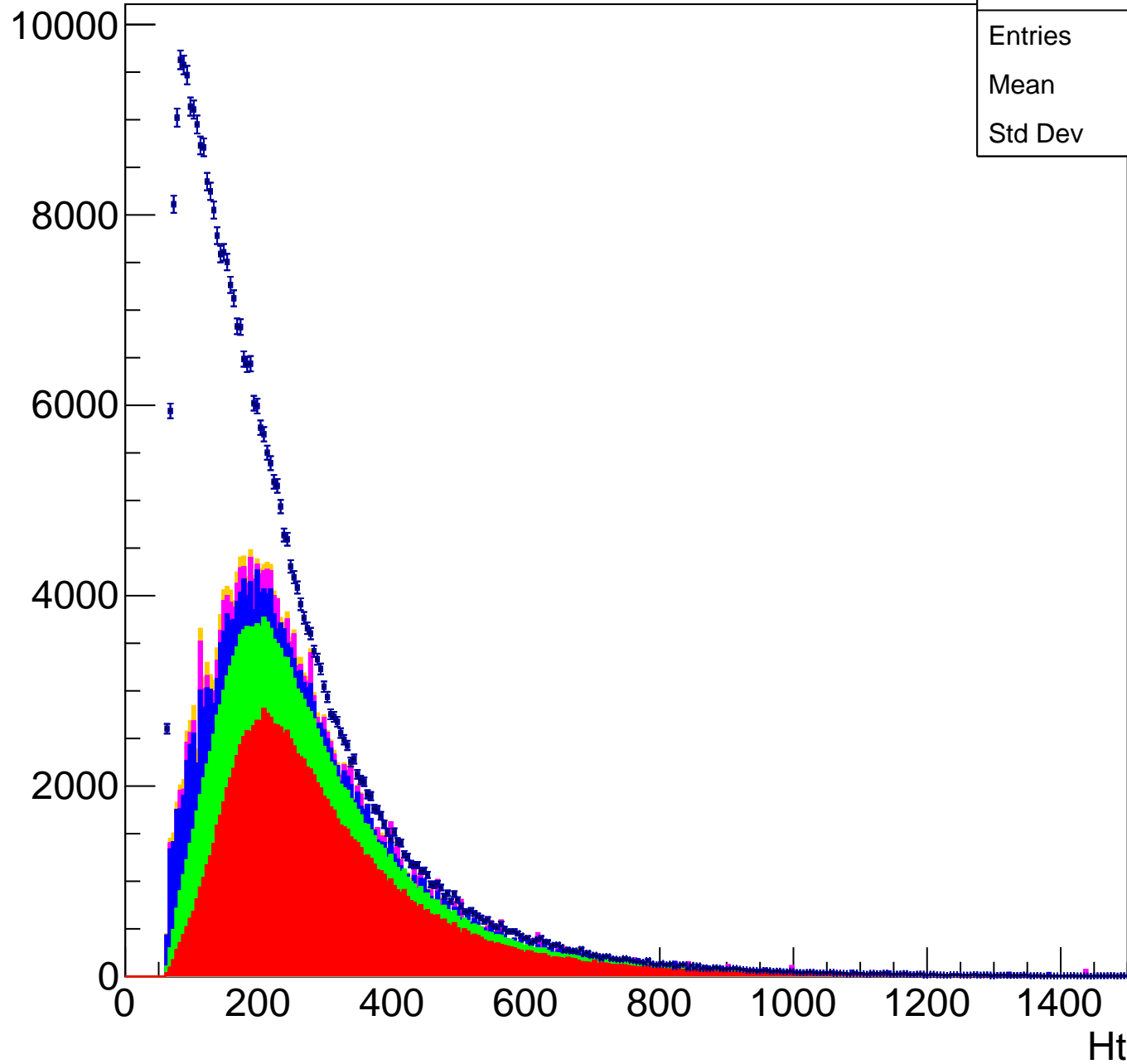
Mean 67.67

Std Dev 36.81

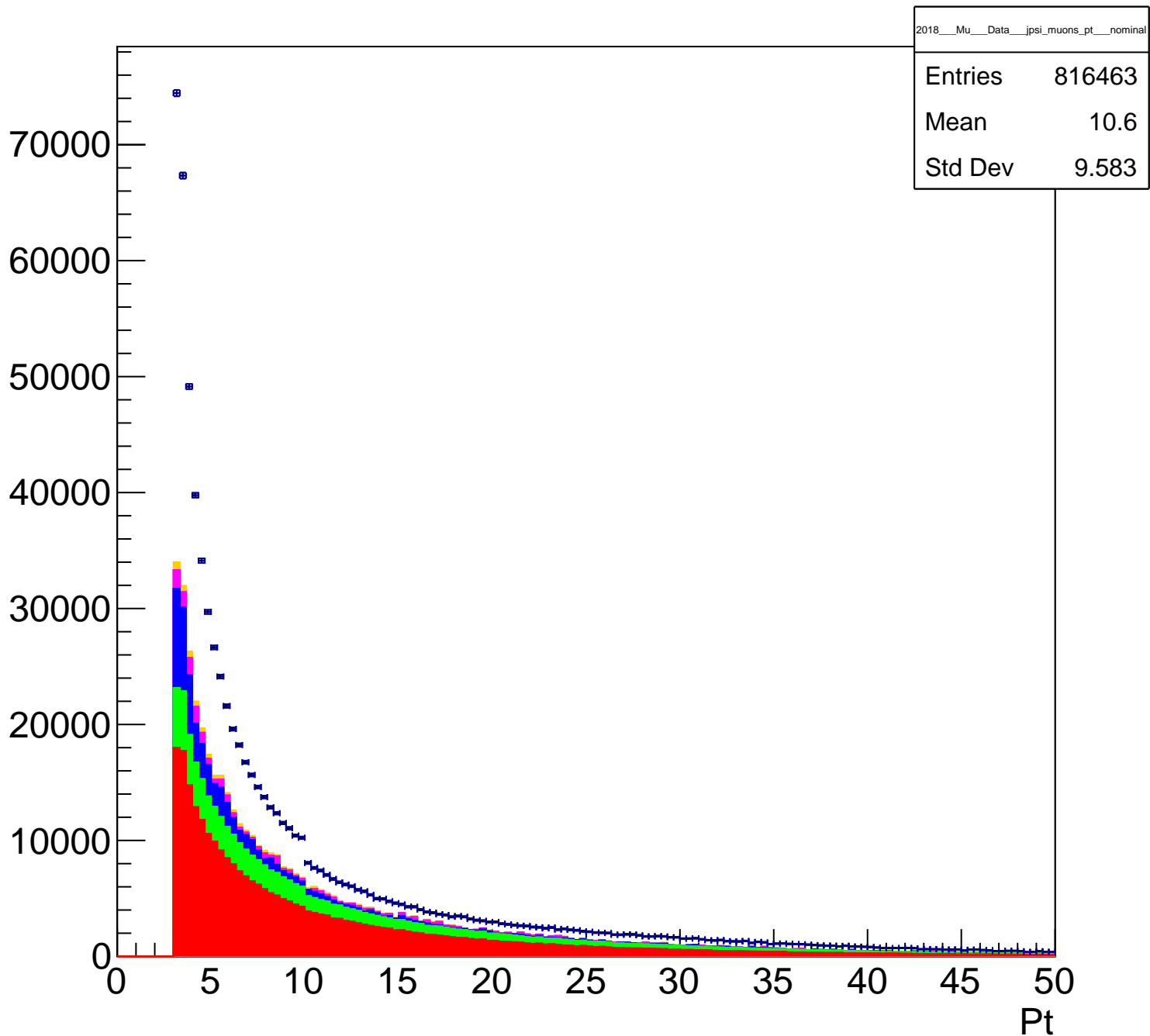


# Ht

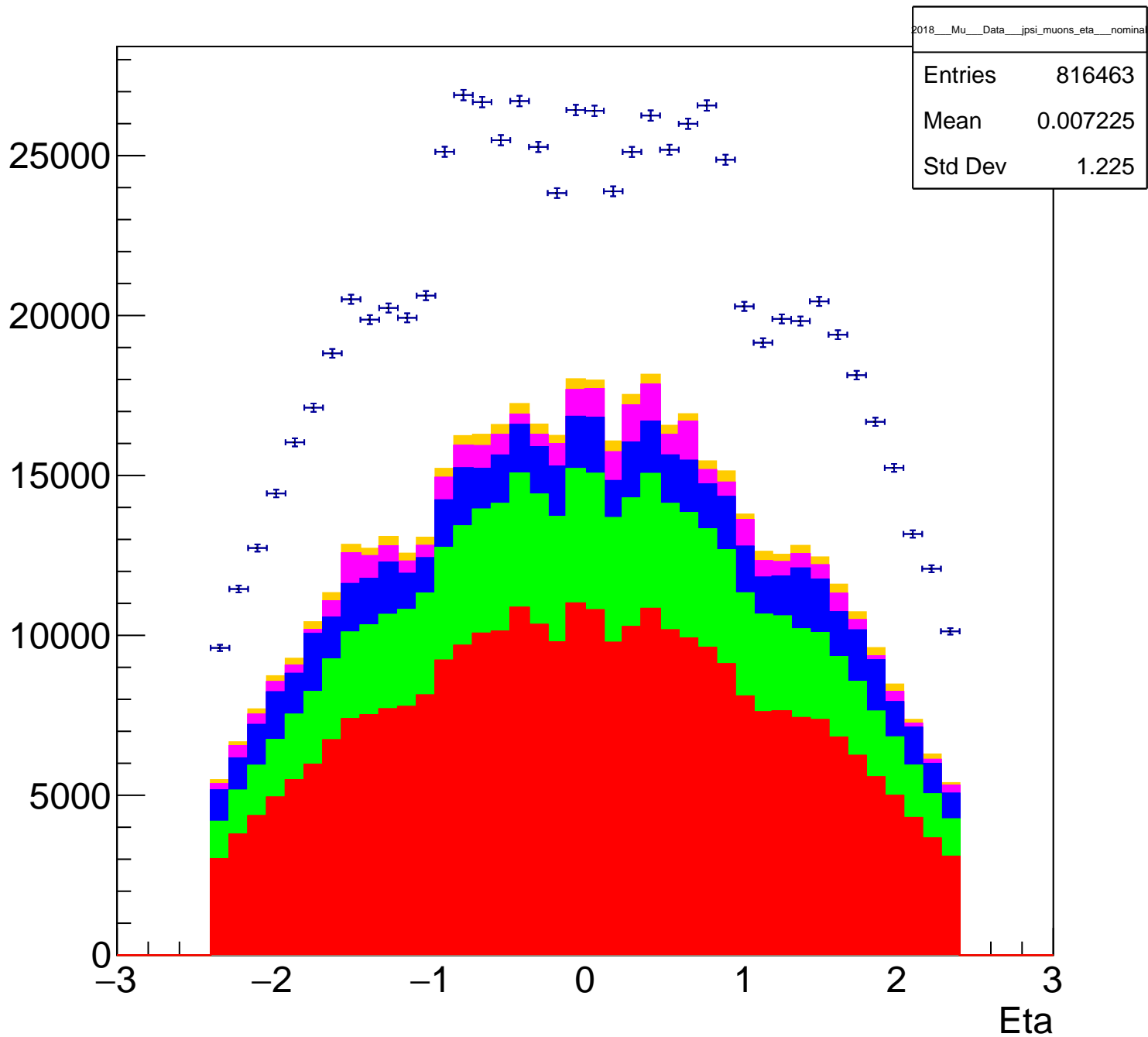
2018__Mu__Data__ht__nominal	
Entries	392050
Mean	231.9
Std Dev	163.9



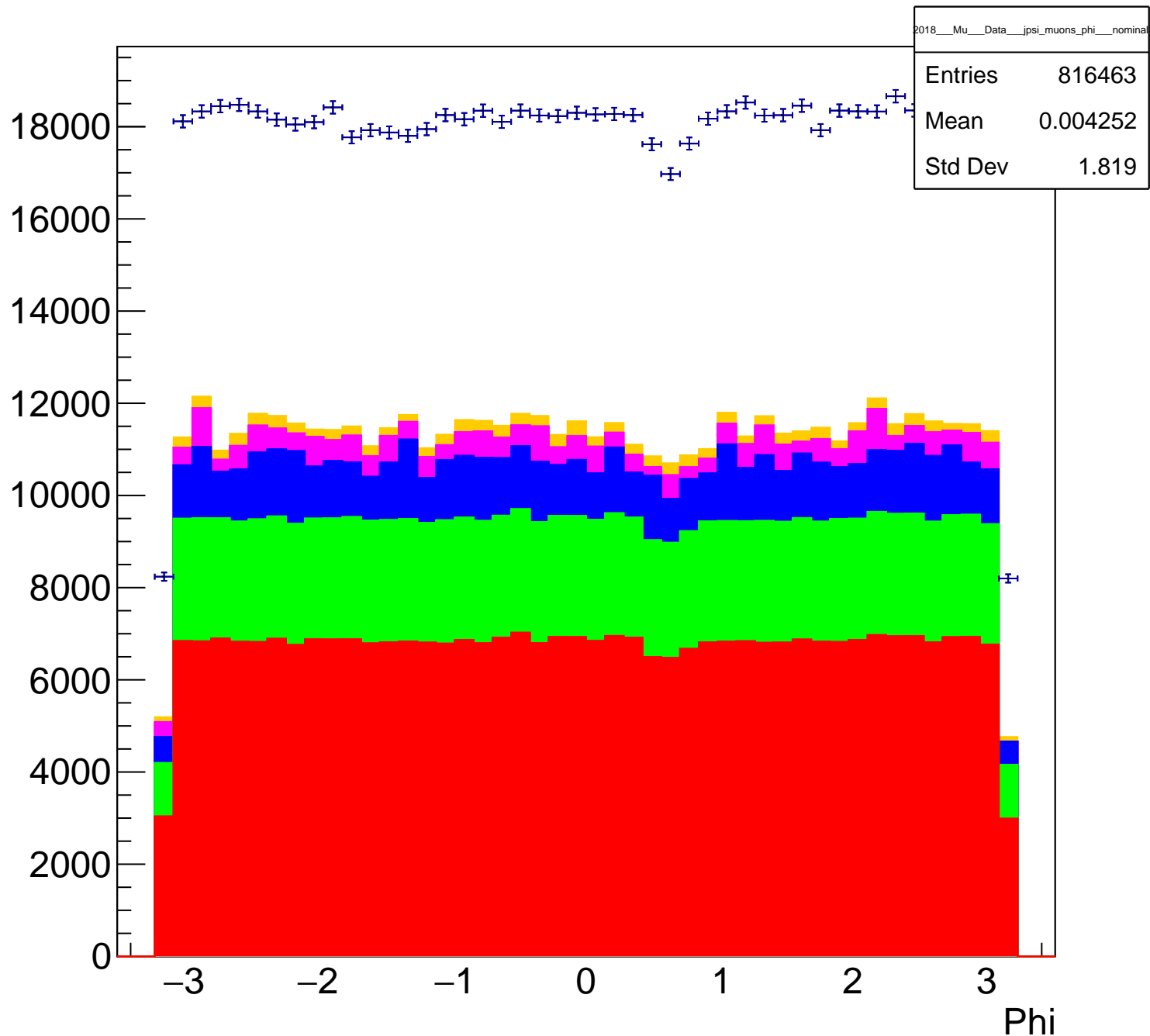
# Transverse Momentum for JPsi Muons



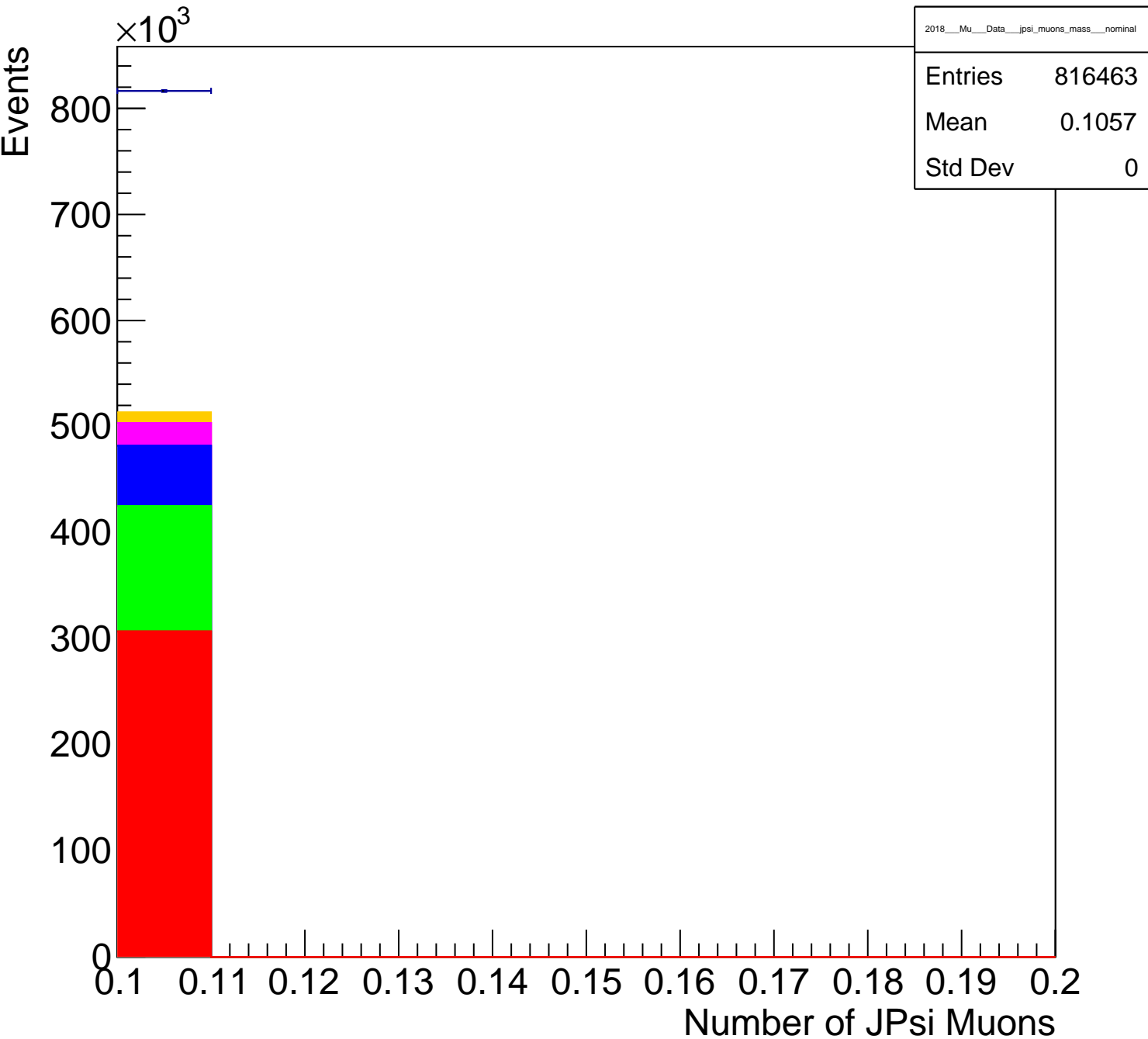
# Pseudorapidity for JPsi Muons



# Angle for JPsi Muons

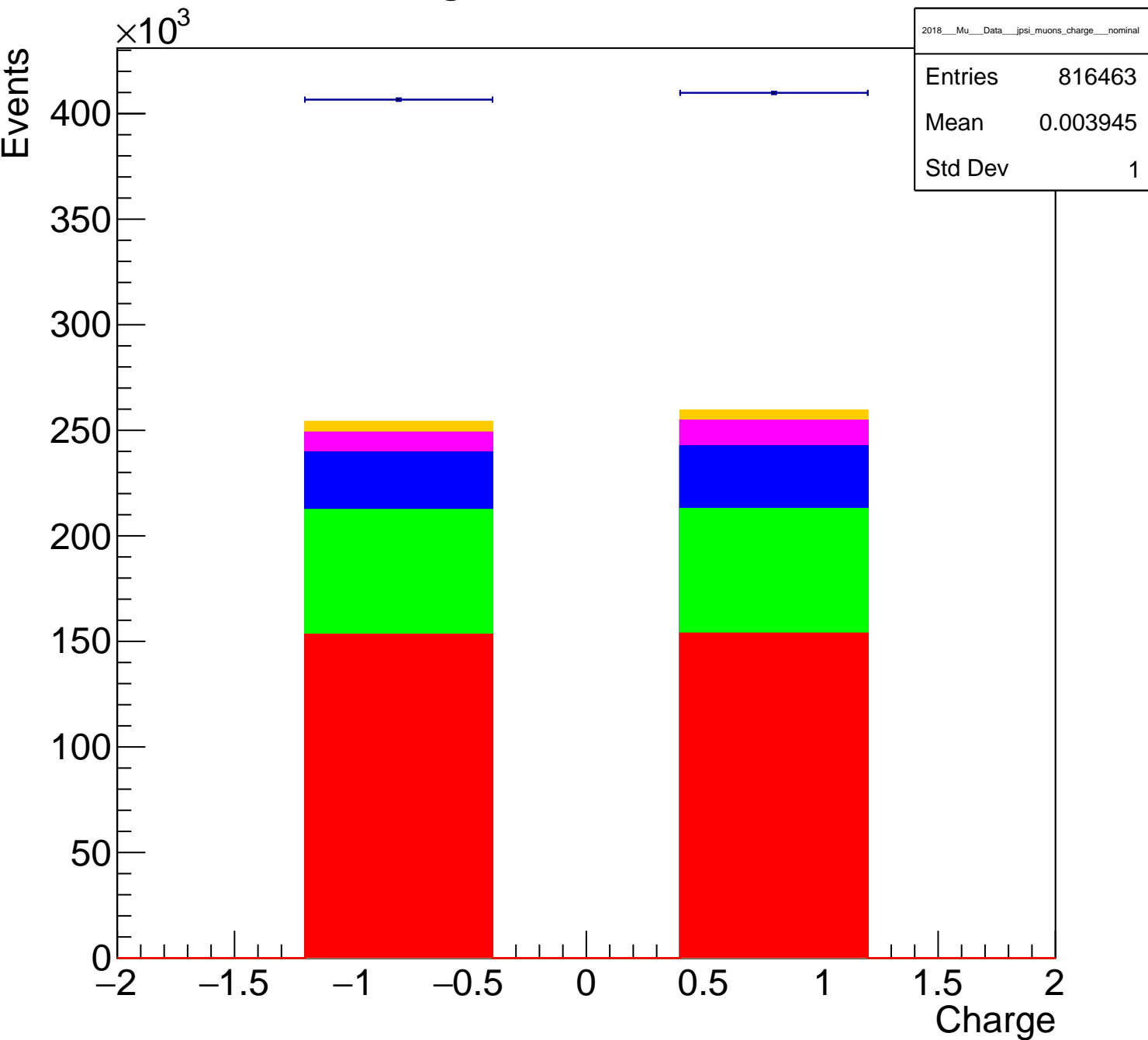


# Mass of JPsi Muons

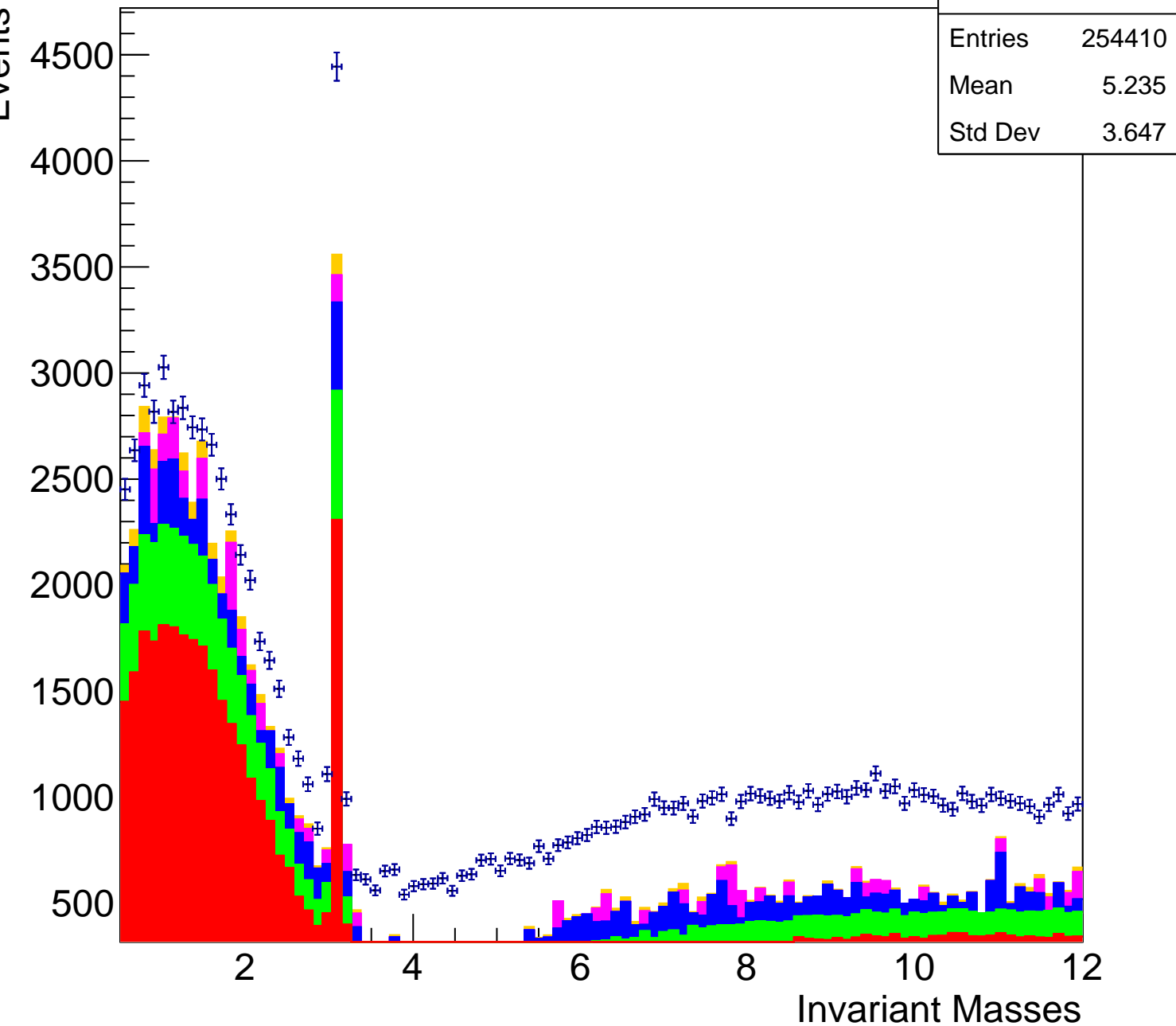




# Charge of JPsi Muons

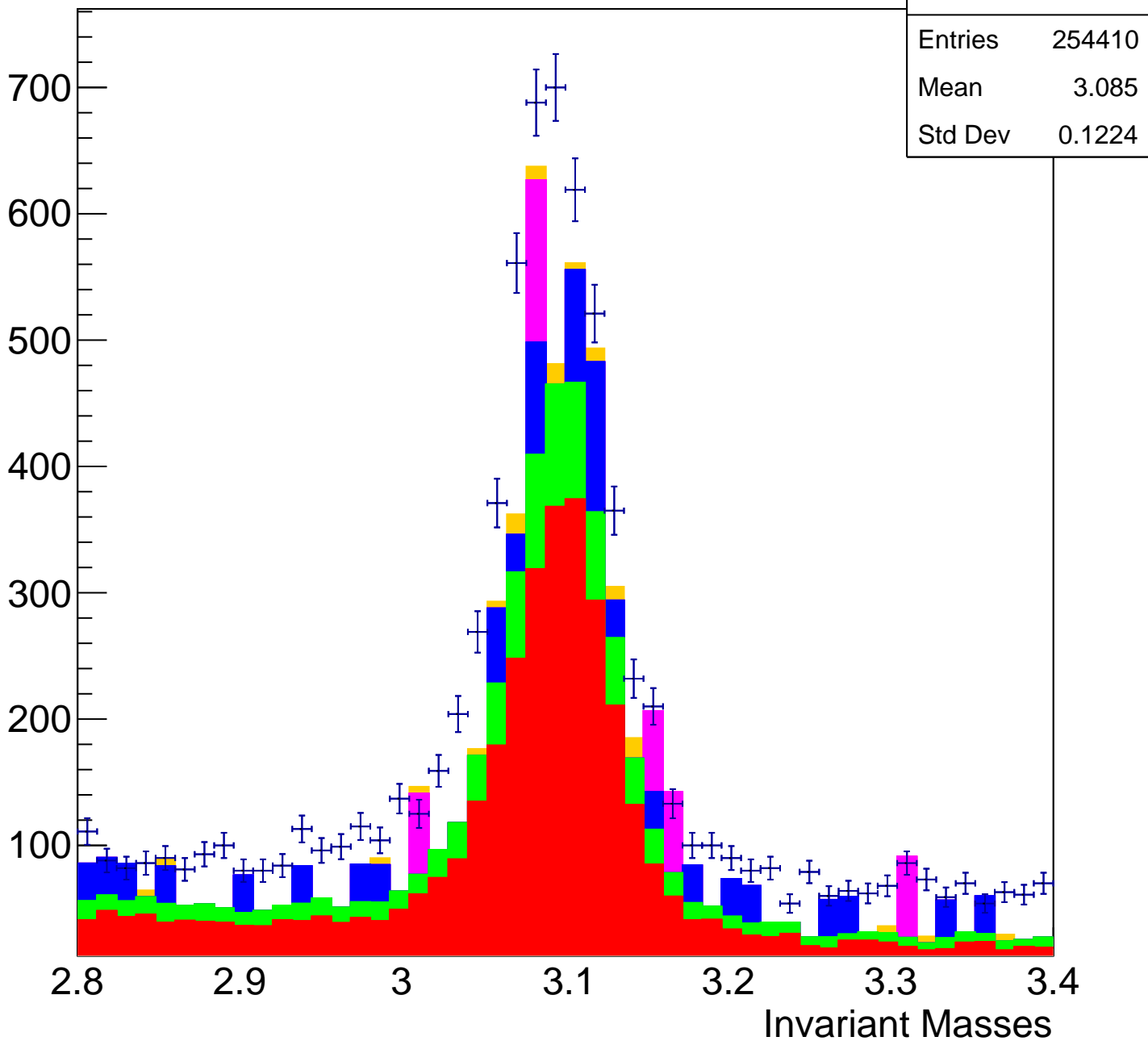


Invariant Masses for J/Psi Candidate Muons (Oppositely Charged)



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

Events

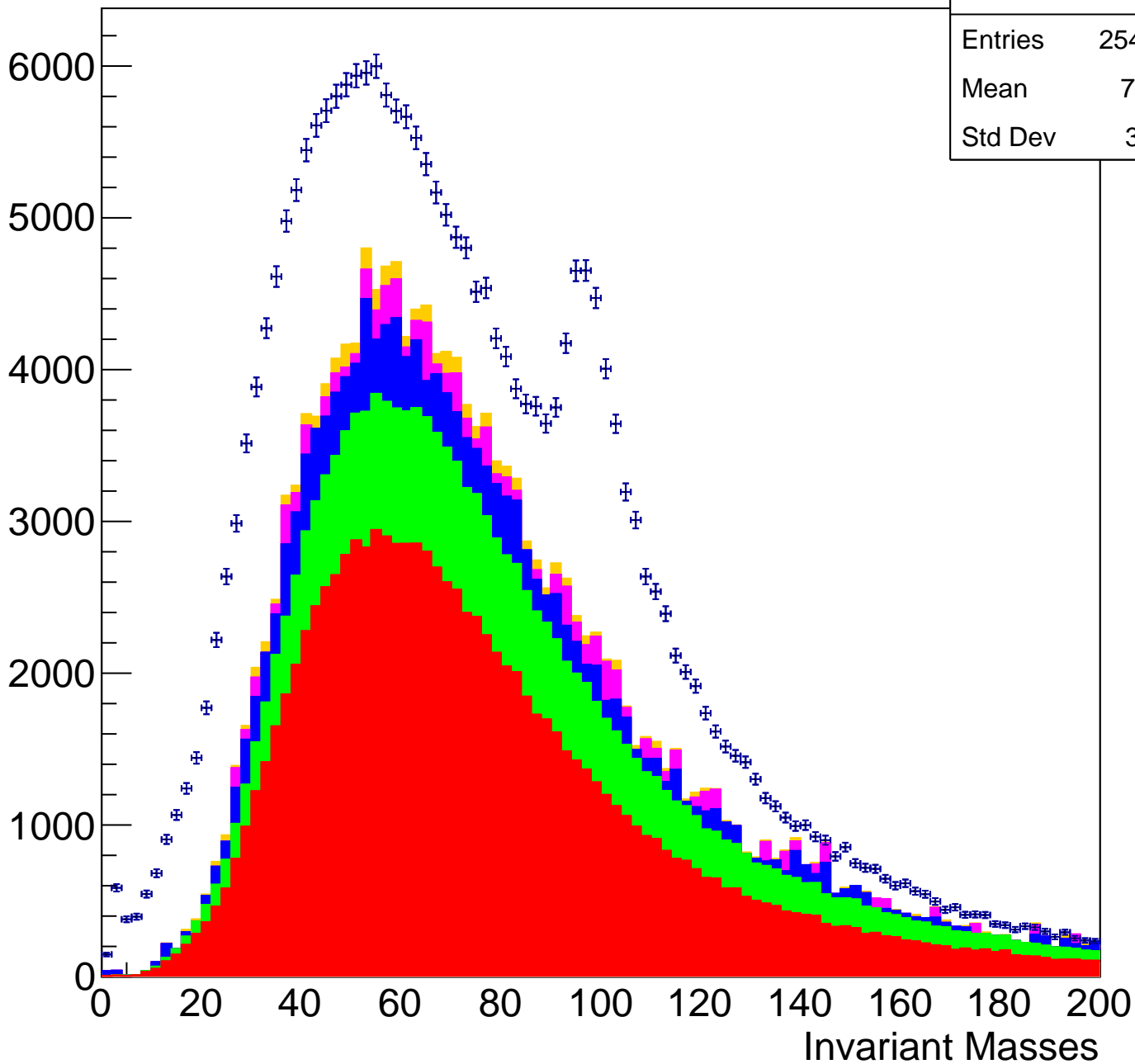


# Invariant Masses for J/Psi Candidate And Isolated Muons

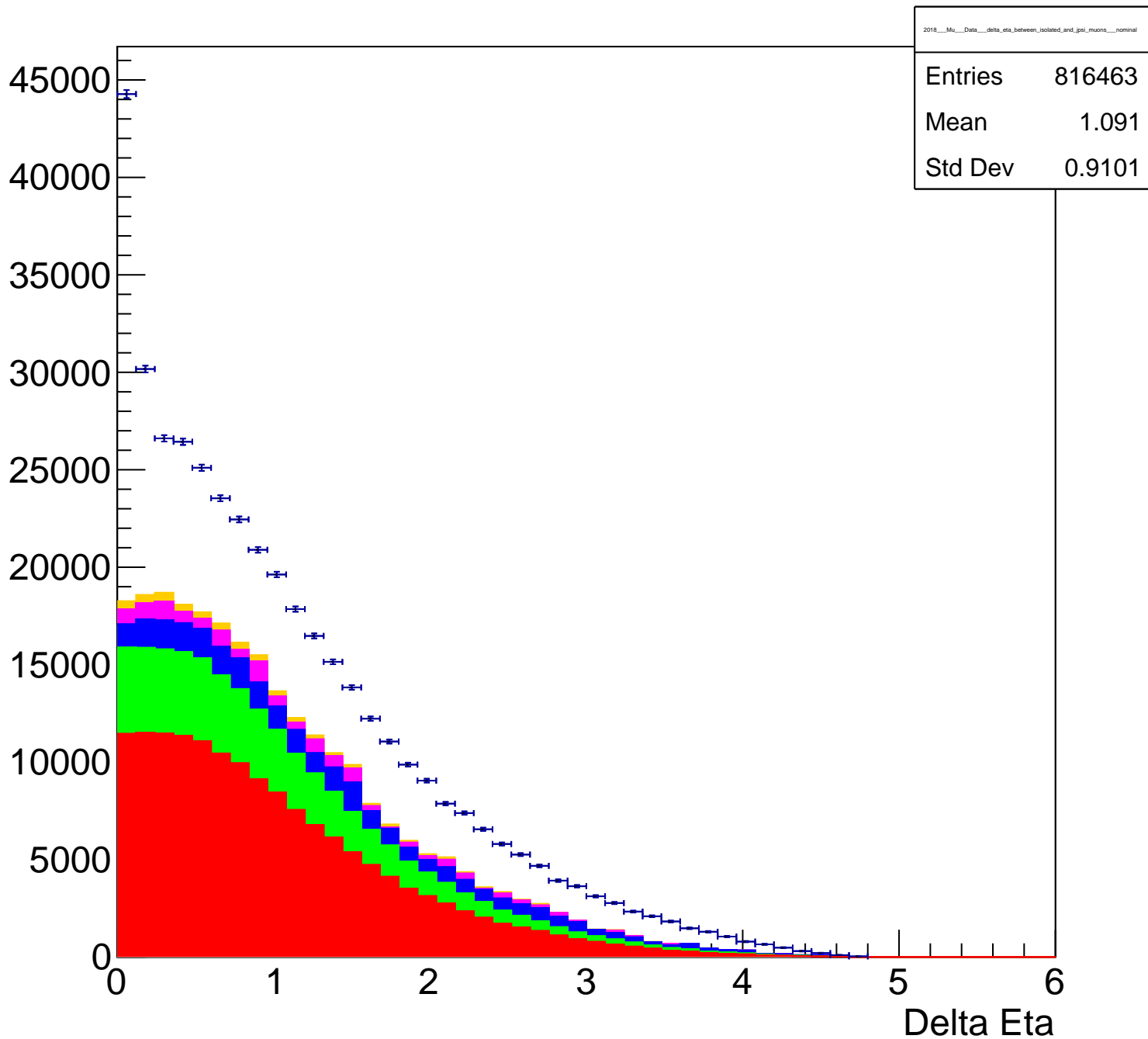
Events

2018\_Mu\_Data\_invariant\_mass\_psi\_and\_isolated\_muons\_nominal

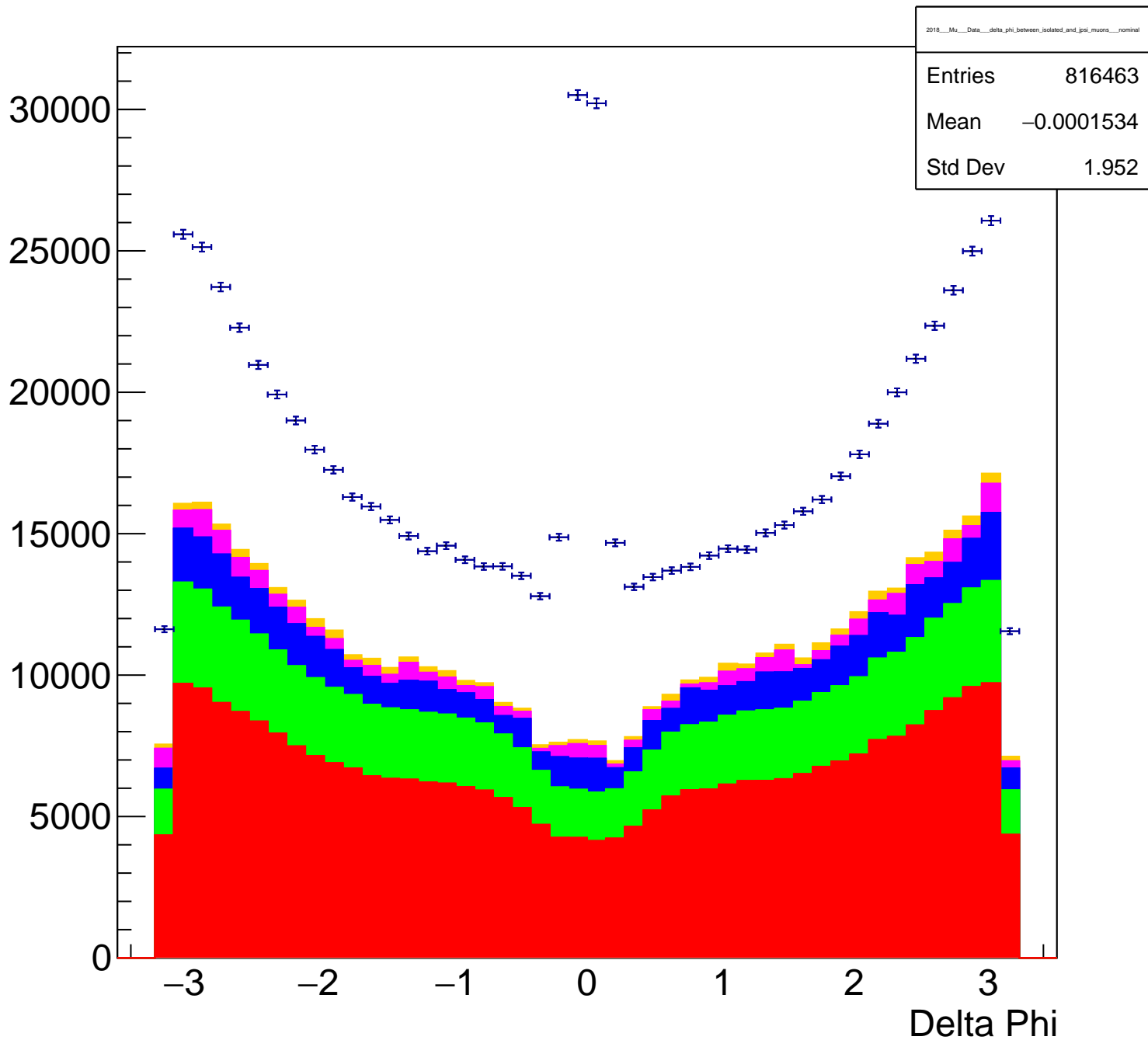
Entries	254410
Mean	74.59
Std Dev	37.21



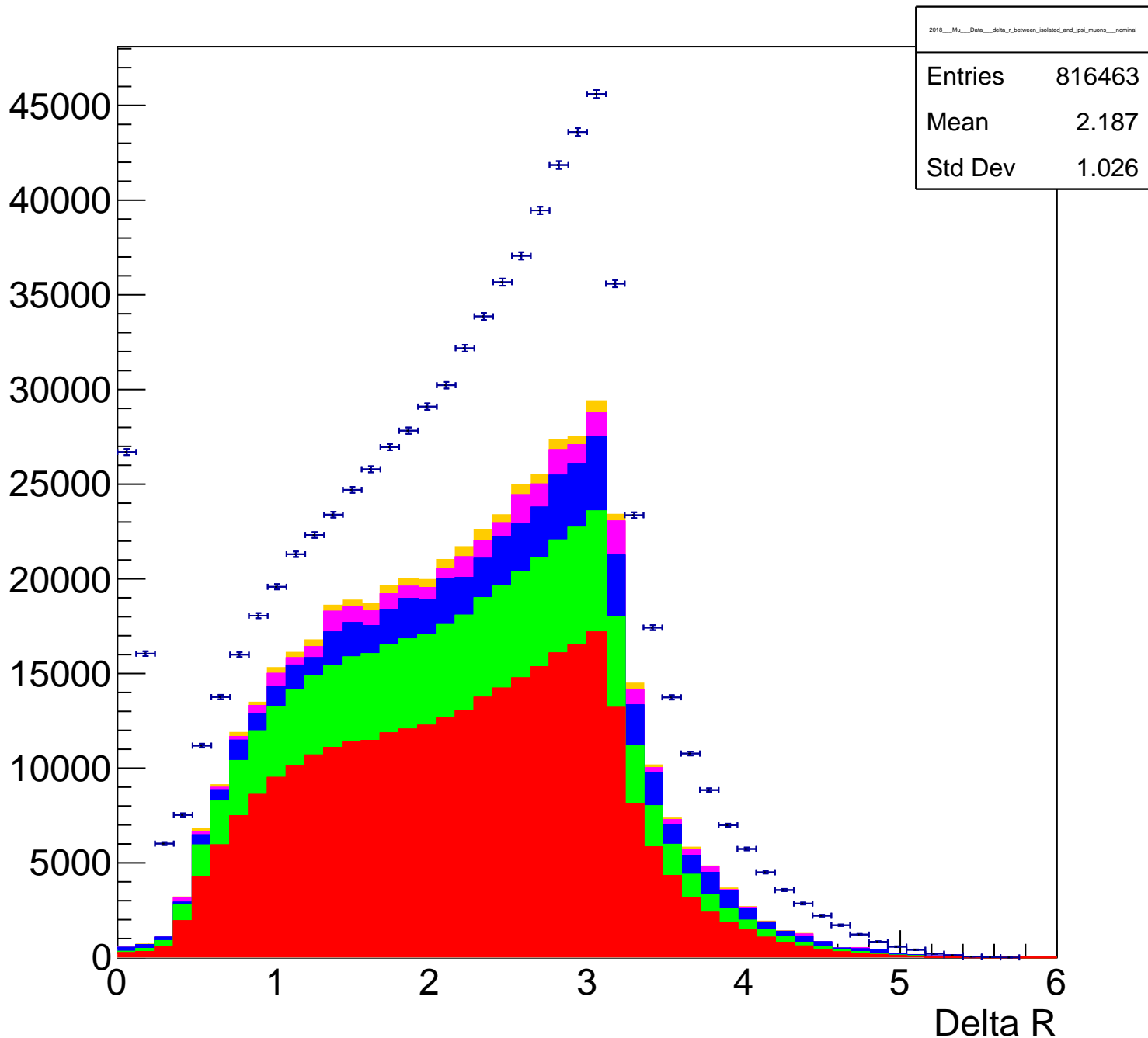
# Delta Eta for Isolated Muon - JPsi Muons



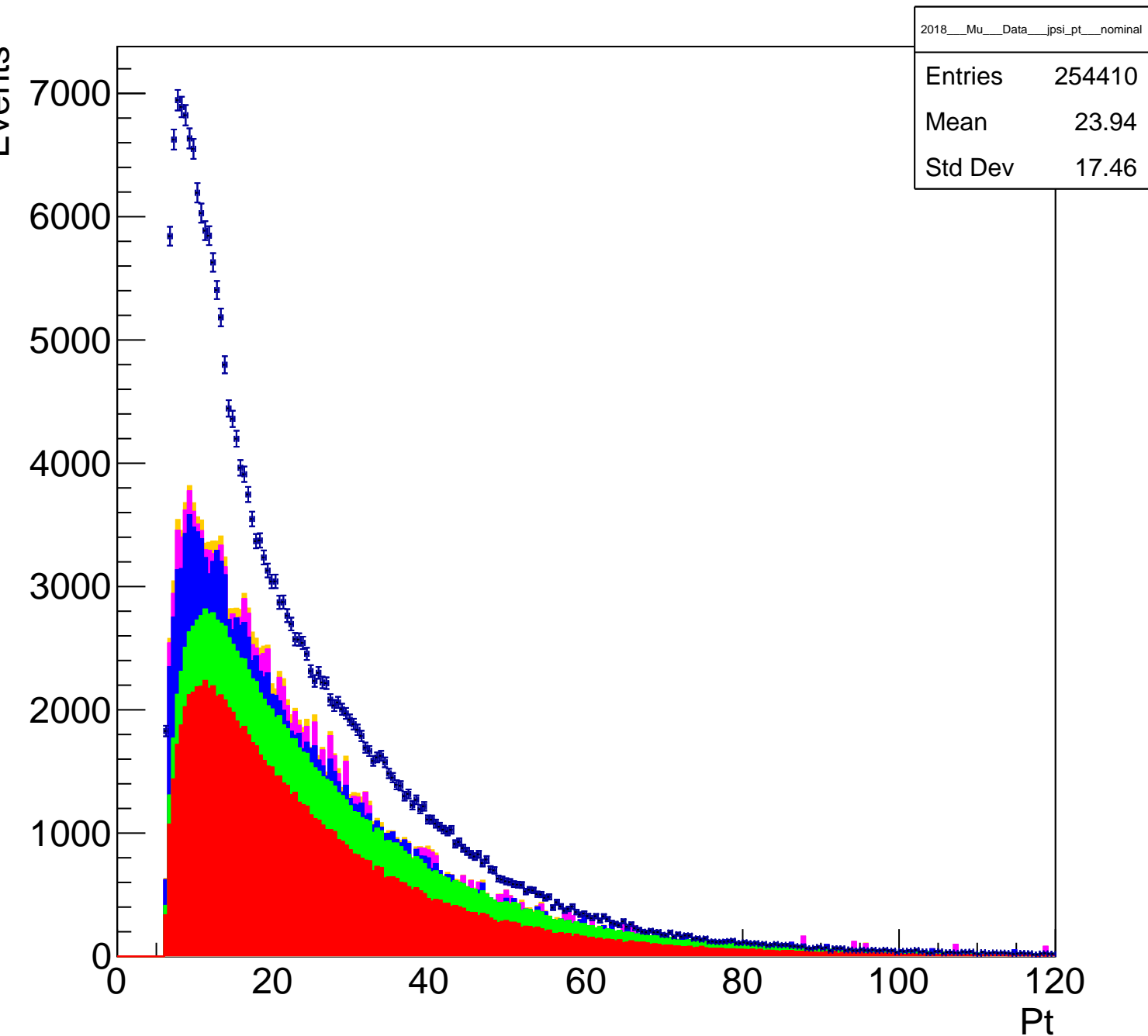
# Delta Phi for Isolated Muon - JPsi Muons



# Delta R for Isolated and JPsi Muons

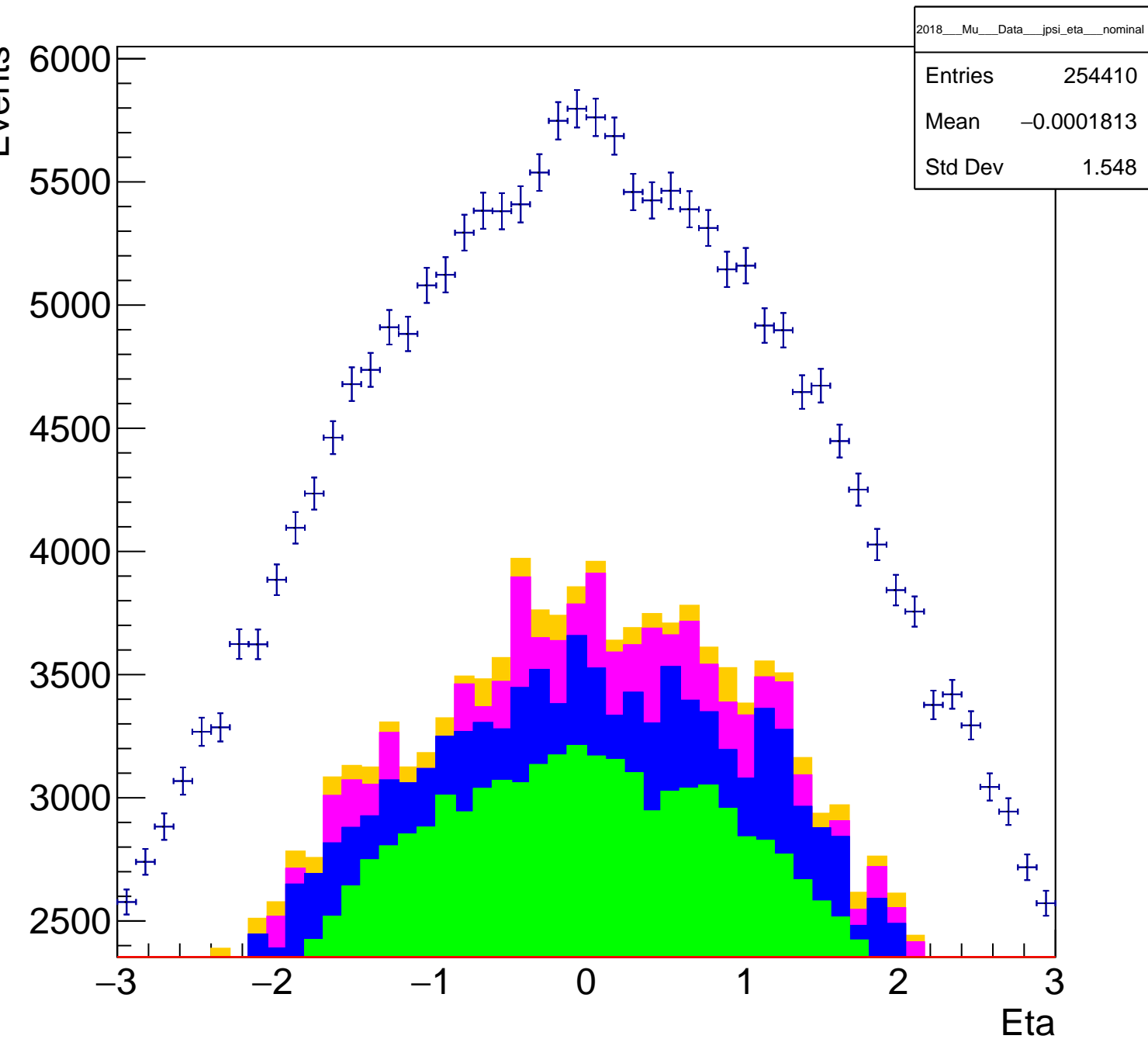


# Transverse Momentum for JPsi

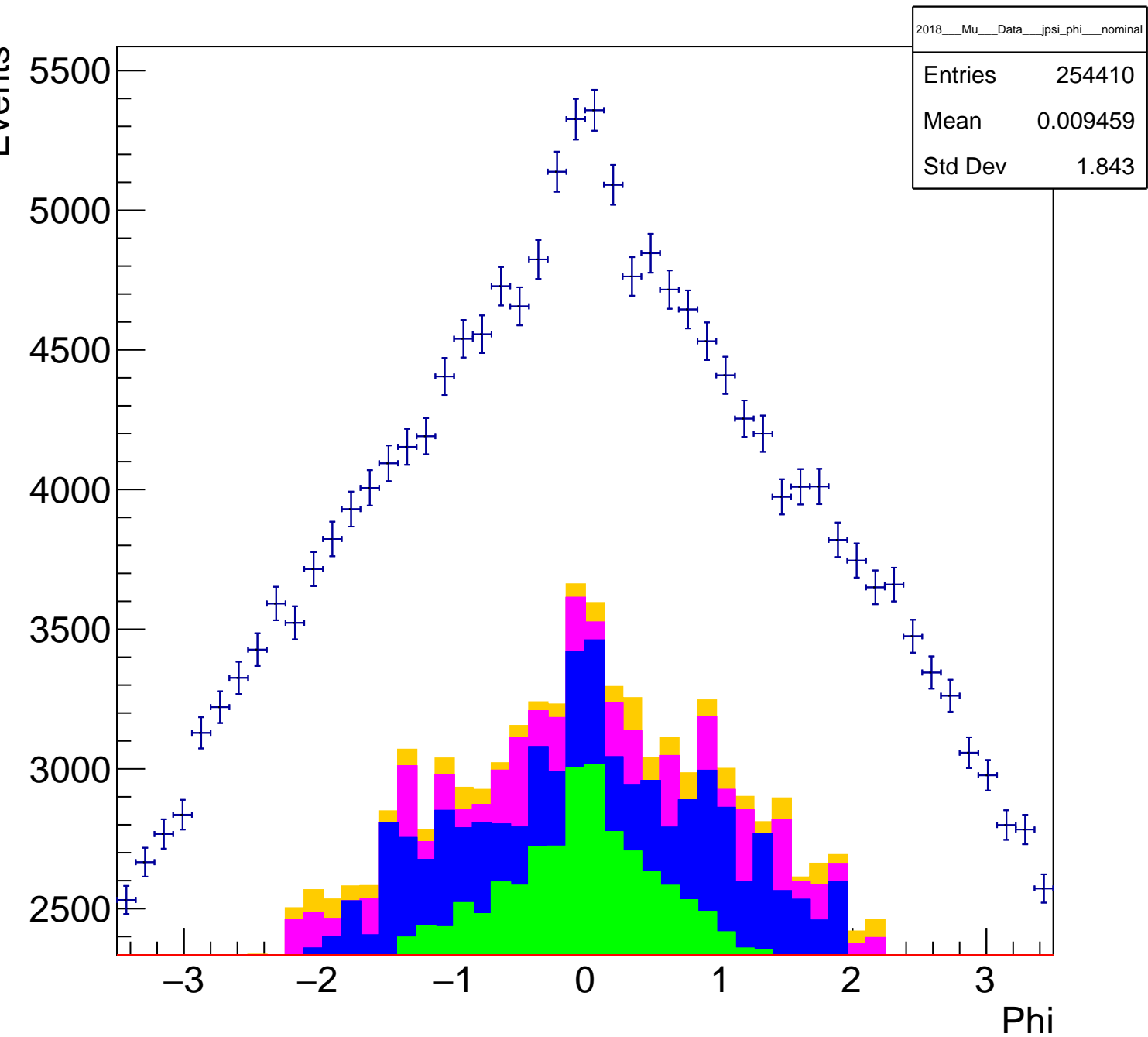




# Pseudorapidity for JPsi

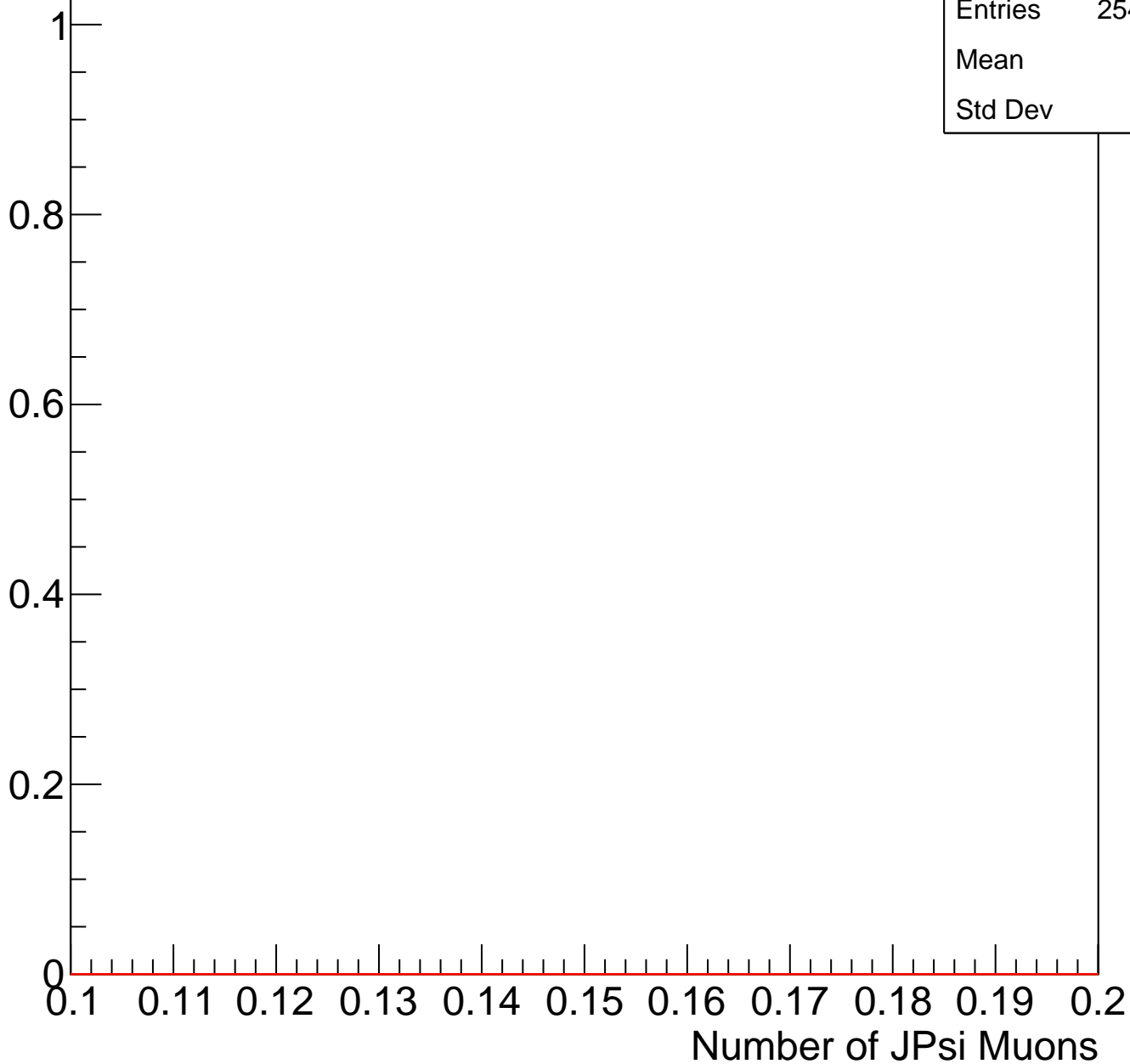


# Angle for JPsi



# Mass of JPsi

Events



# Charge of JPsi

