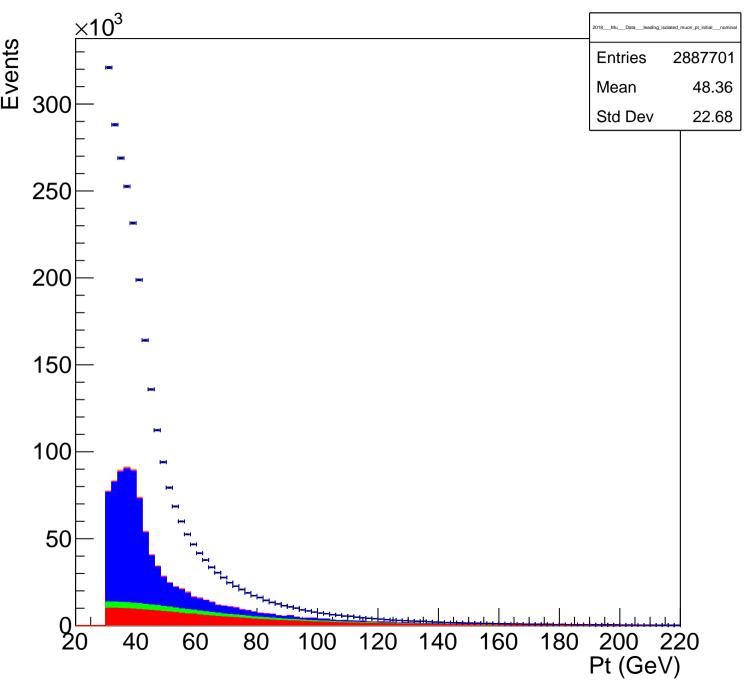
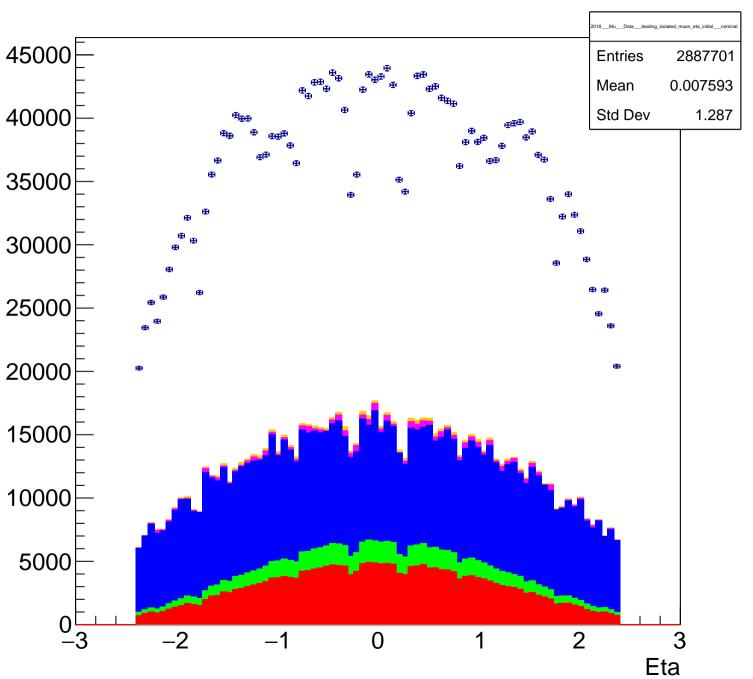
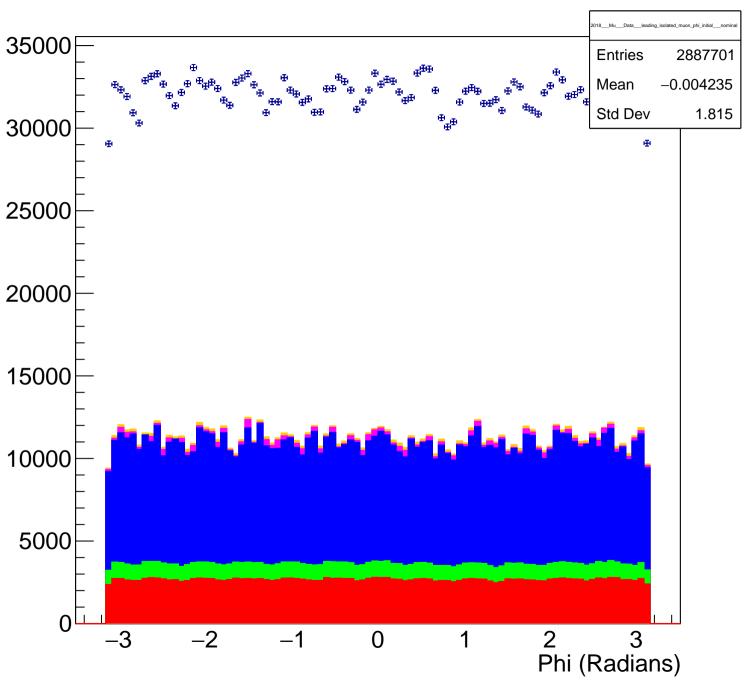
Leading Isolated Muon Transverse Momentum (One Muon, No Electrons)



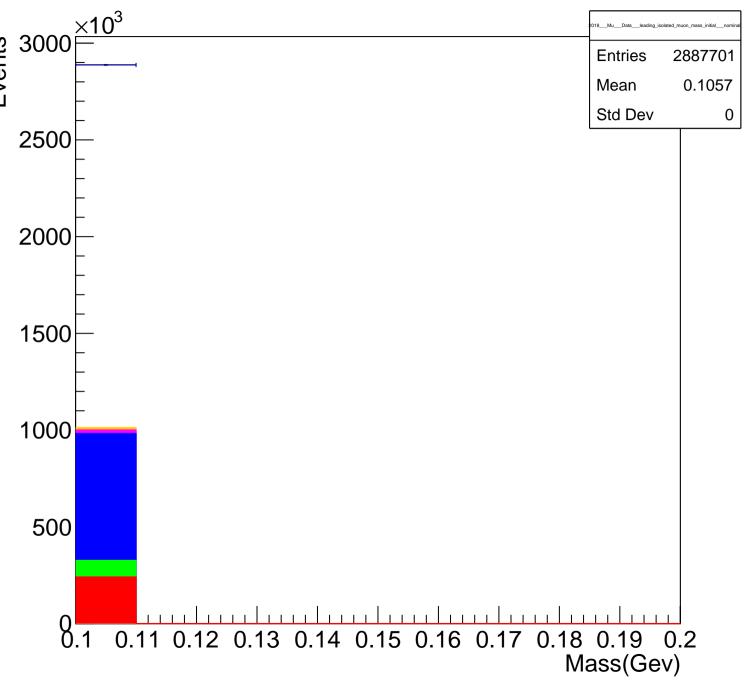
Leading Isolated Muon Pseudorapidity (One Muon, No Electrons)



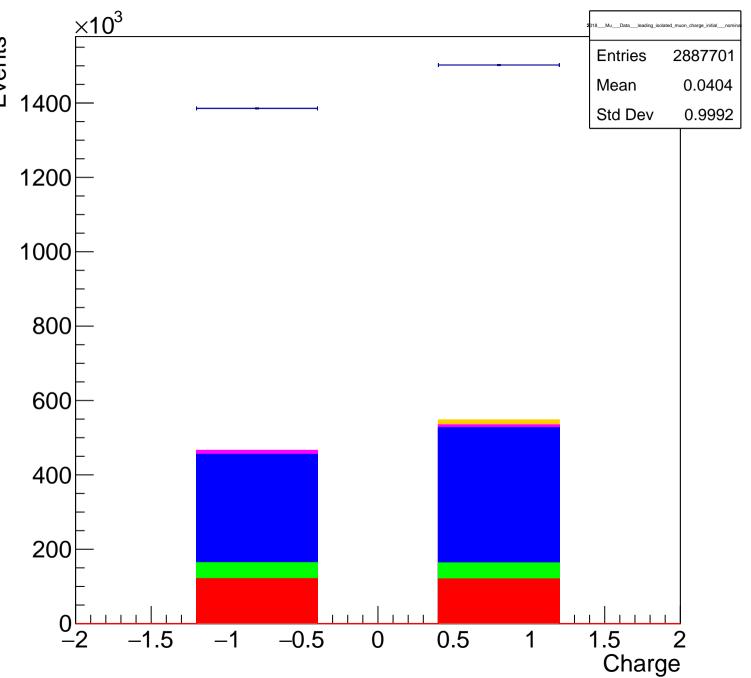
Leading Isolated Muon Angle (One Muon, No Electrons)



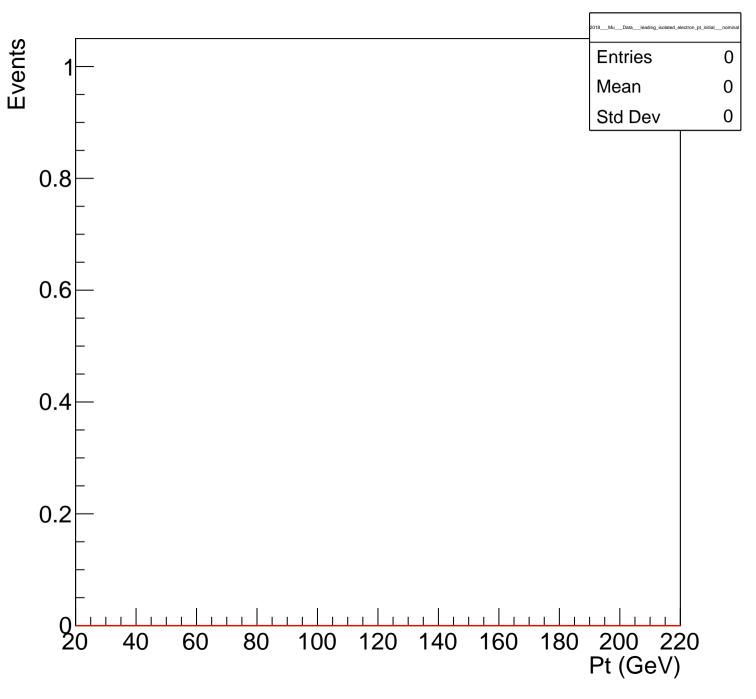
Leading Isolated Muon Mass (One Muon, No Electrons)



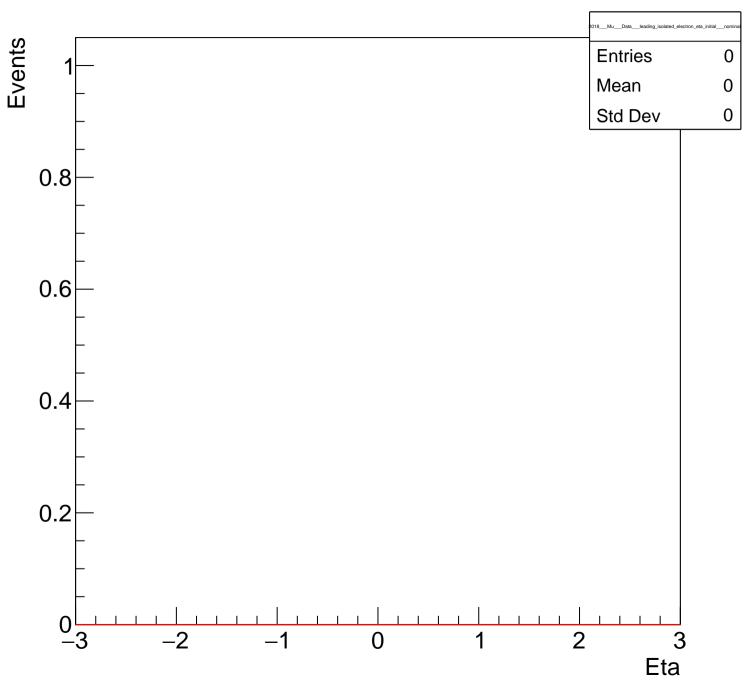
Leading Isolated Muon Charge (One Muon, No Electrons)



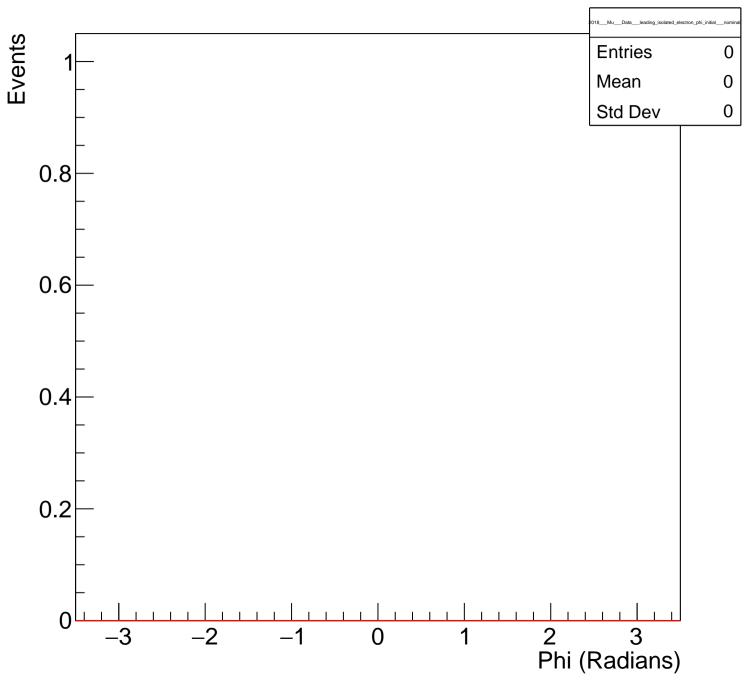
Leading Isolated Electron Transverse Momentum (One Electron, No Muons)



Leading Isolated Electron Pseudorapidity (One Electron, No Muons)



Leading Isolated Electron Angle (One Electron, No Muons)



Leading Isolated Electron Mass (One Electron, No Muons) **Entries** 0 Mean 0 Std Dev 0 0.00010.00020.00030.00040.00050.00060.00070.00080.0009 0.001

Mass(Gev)

Events

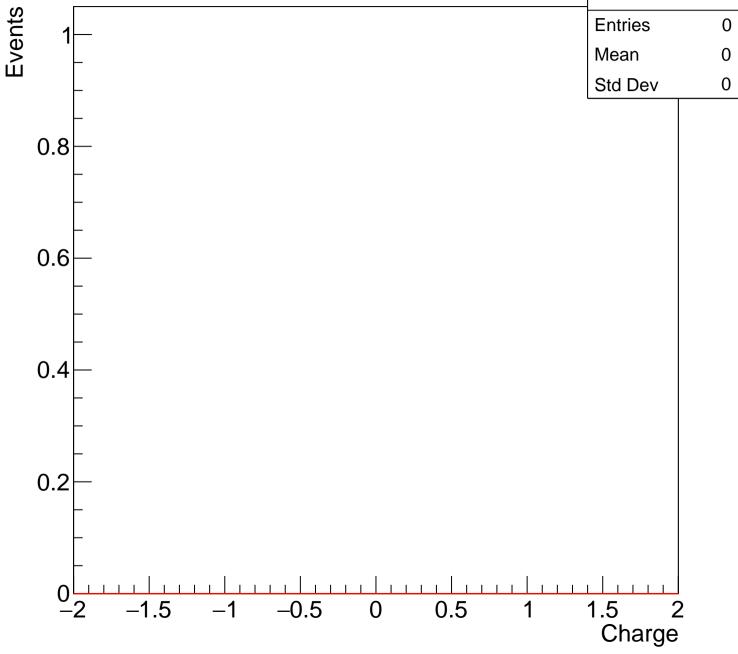
8.0

0.6

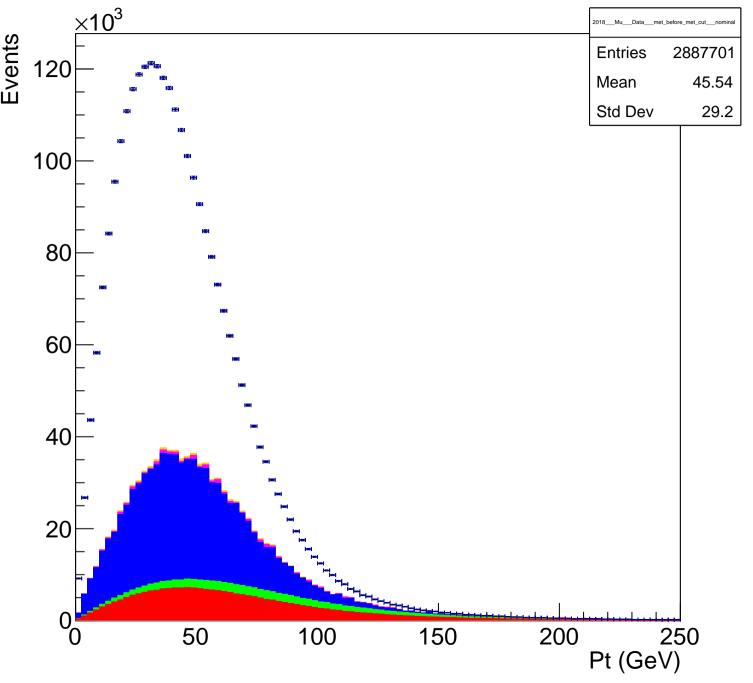
0.4

0.2

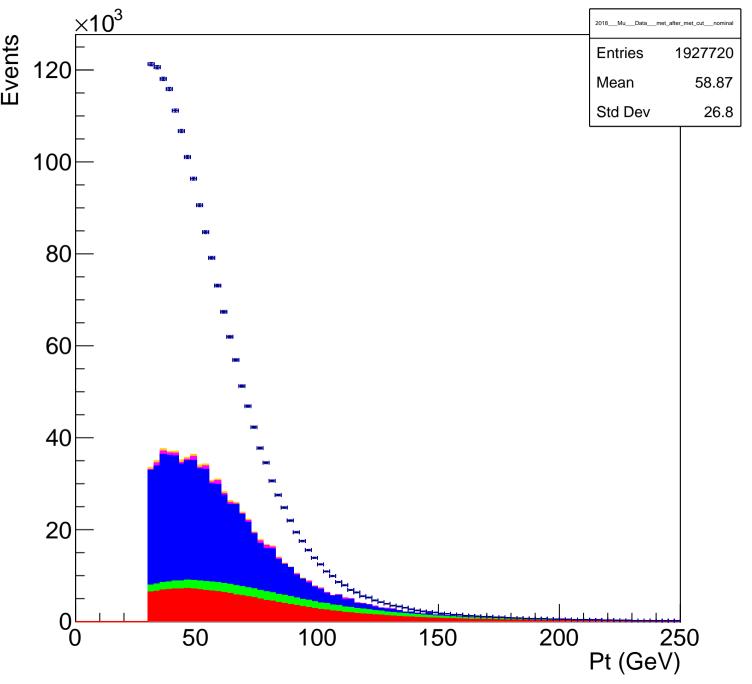
Leading Isolated Electron Charge (One Electron, No Muons) **Entries** 0 Mean 0 Std Dev



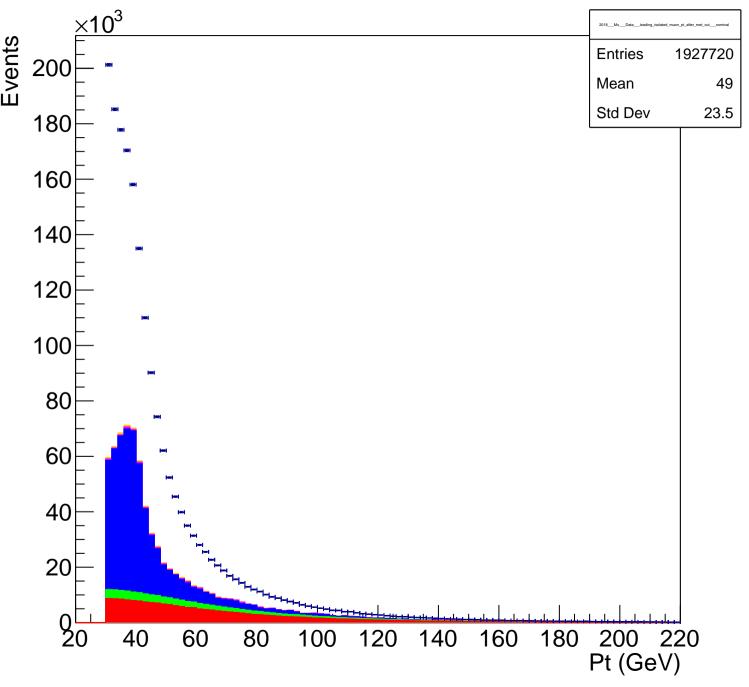
MET Before MET Cut



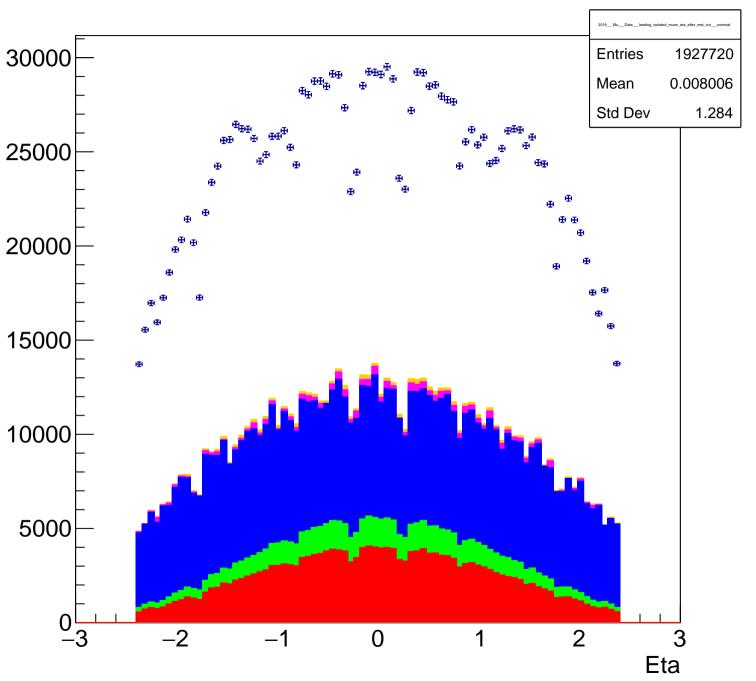
MET After MET Cut



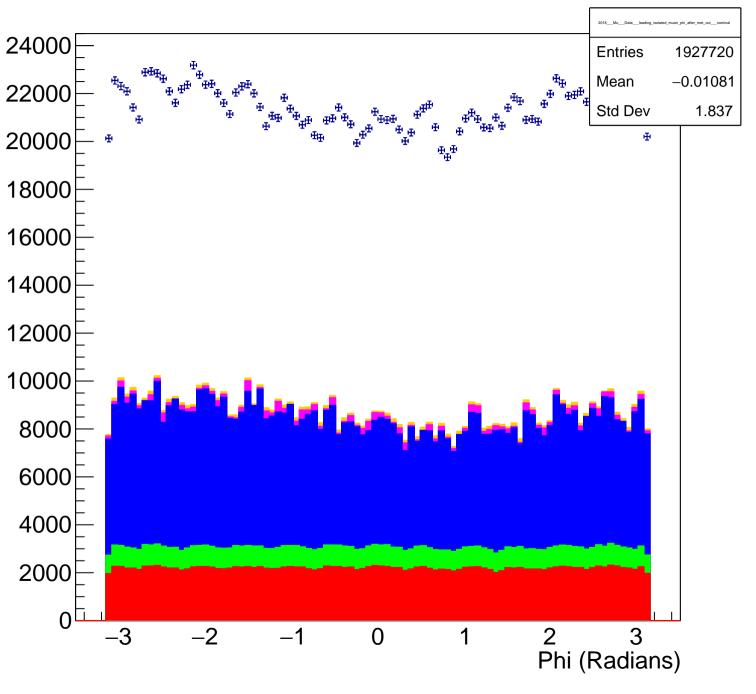
Leading Isolated Muon Transverse Momentum After MET Cut



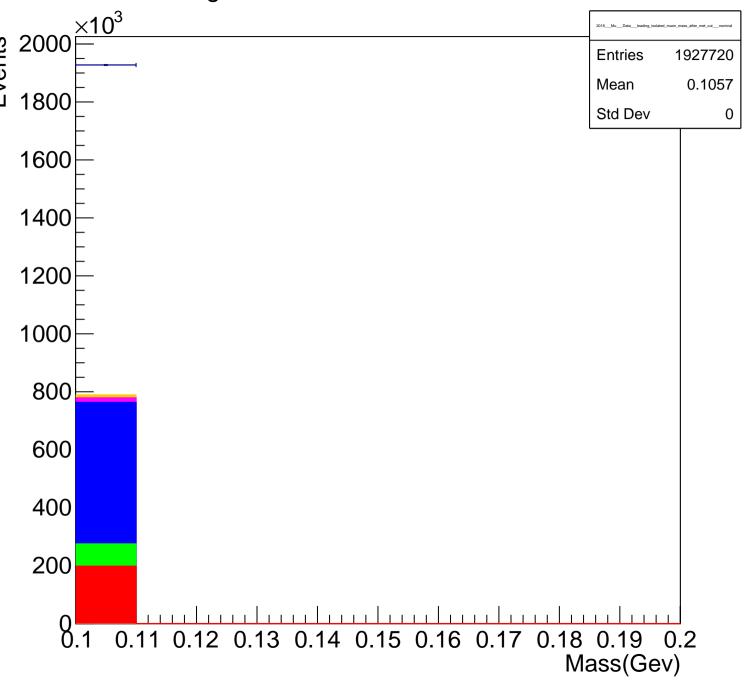
Leading Isolated Muon Pseudorapidity After MET Cut



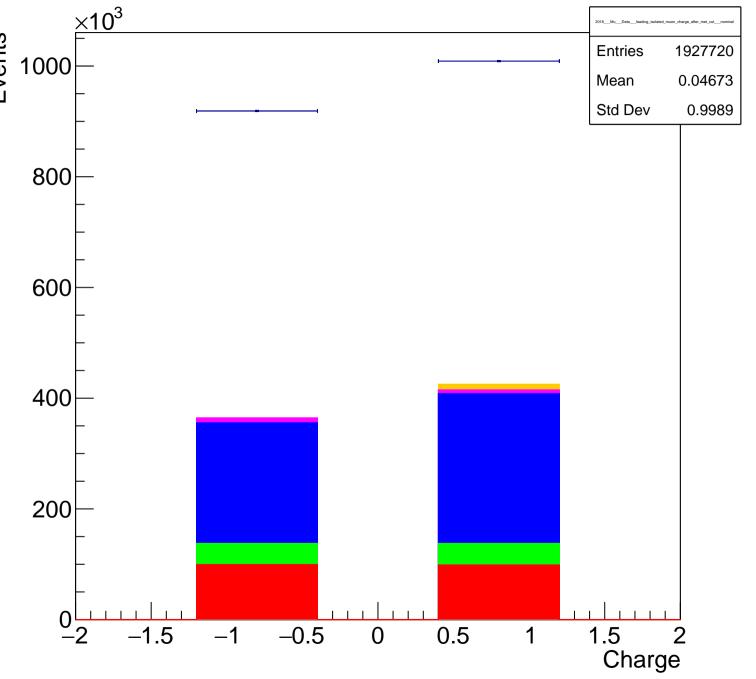
Leading Isolated Muon Angle After MET Cut



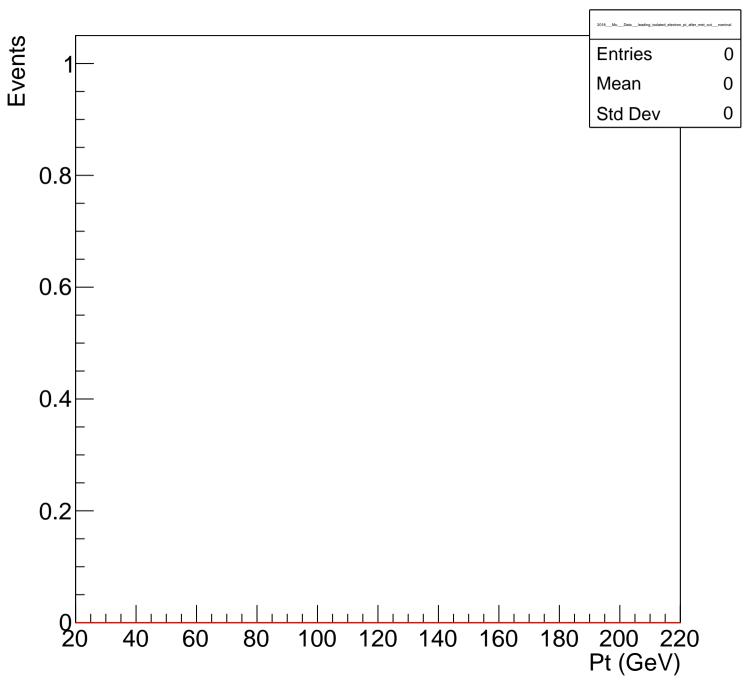
Leading Isolated Muon Mass After MET Cut



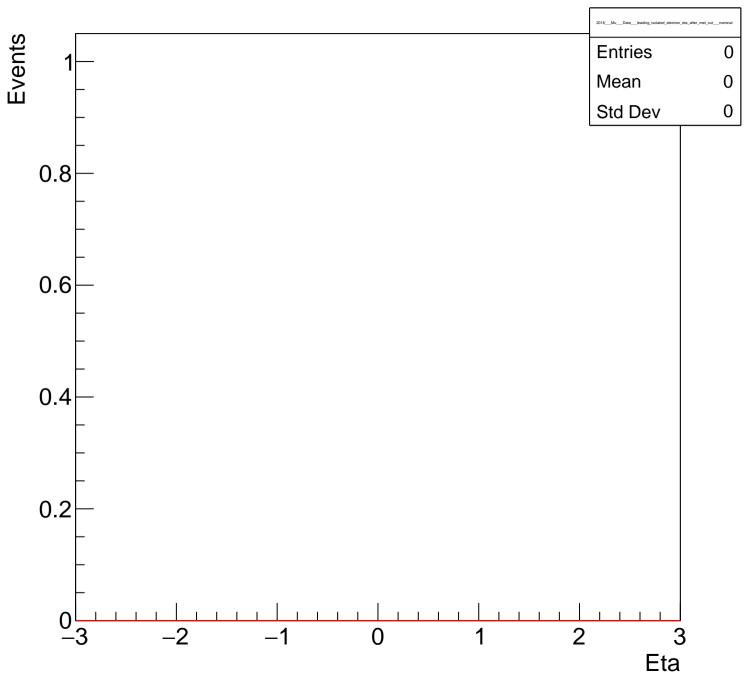
Leading Isolated Muon Charge After MET Cut



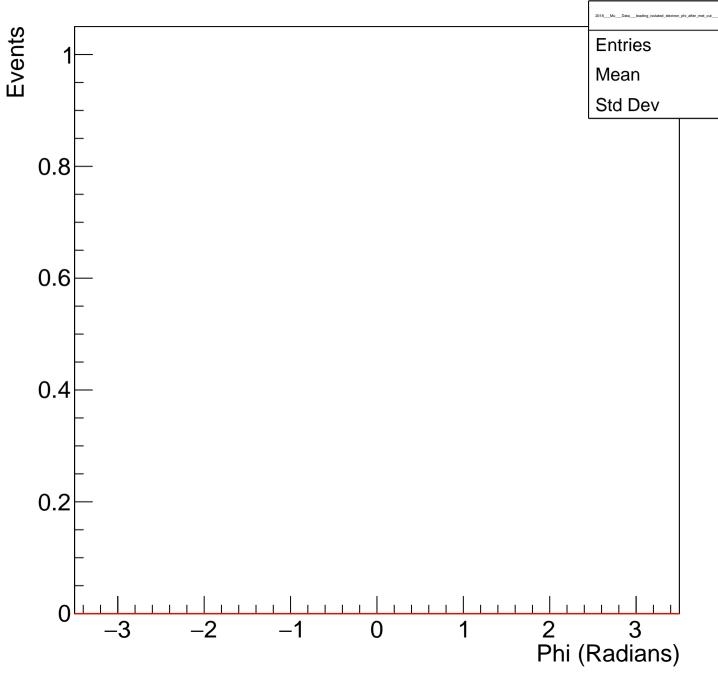
Leading Isolated Electron Transverse Momentum After MET Cut



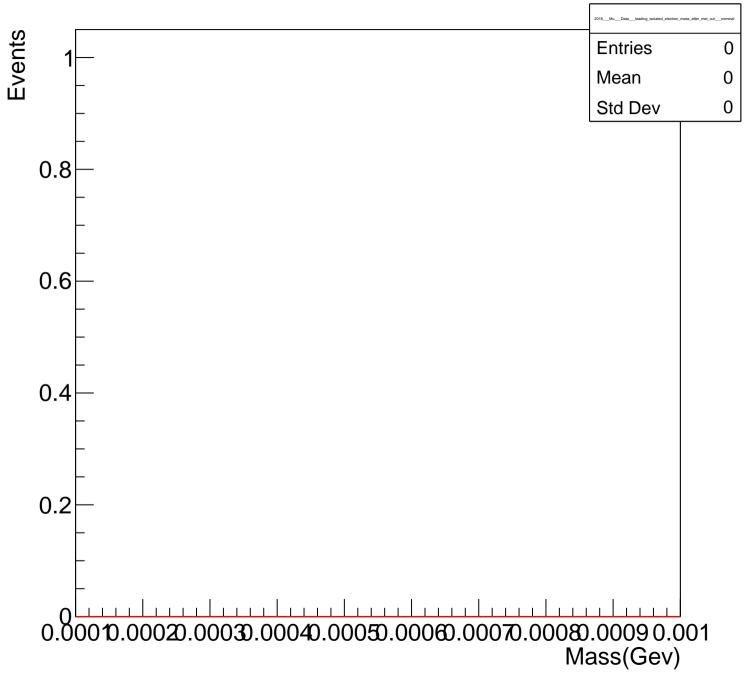
Leading Isolated Electron Pseudorapidity After MET Cut



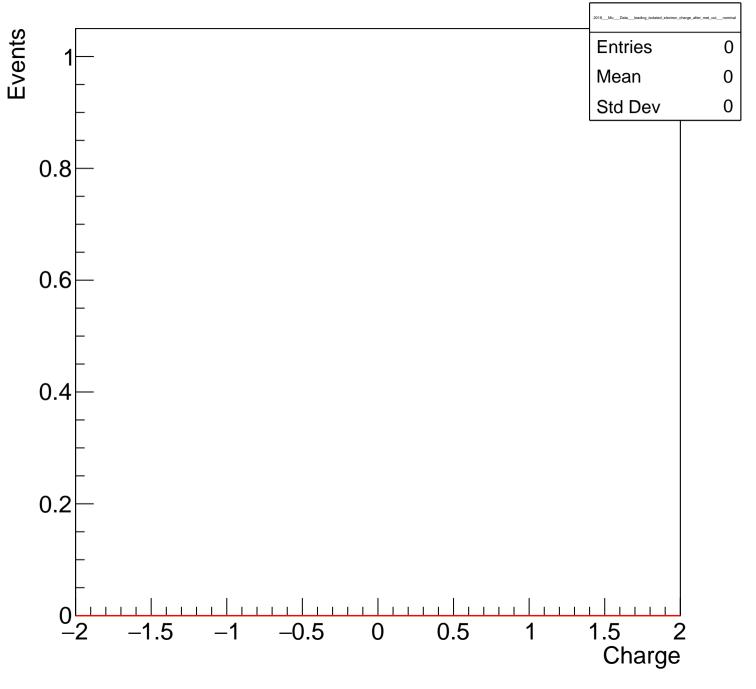
Leading Isolated Electron Angle After MET Cut



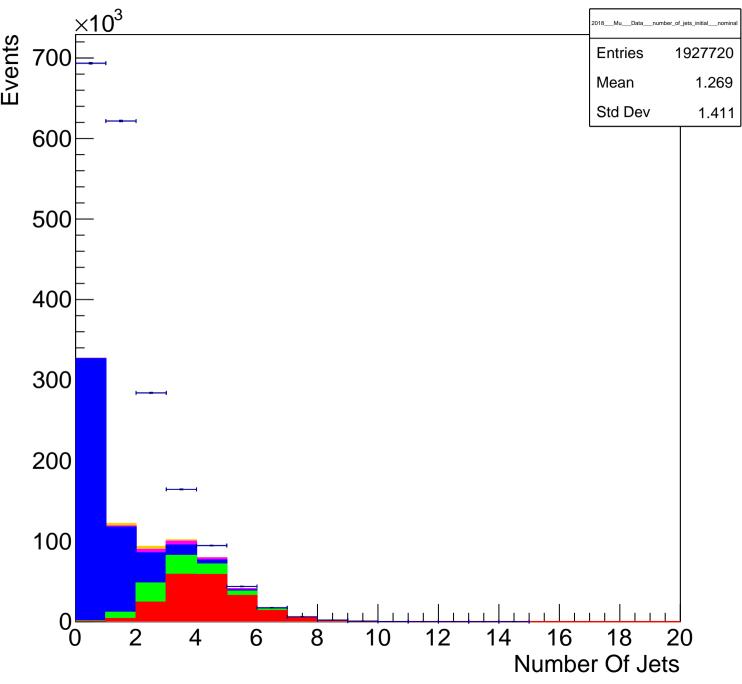
Leading Isolated Electron Mass After MET Cut



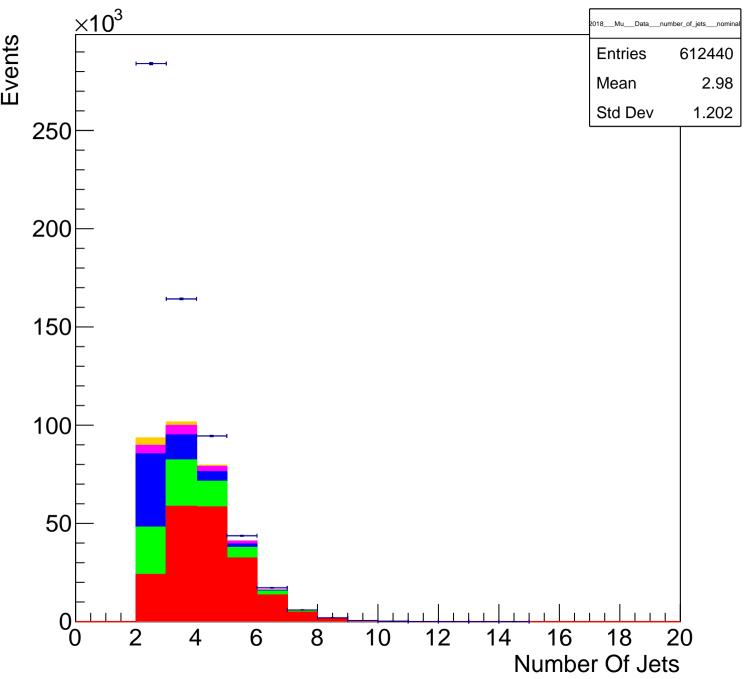
Leading Isolated Electron Charge After MET Cut



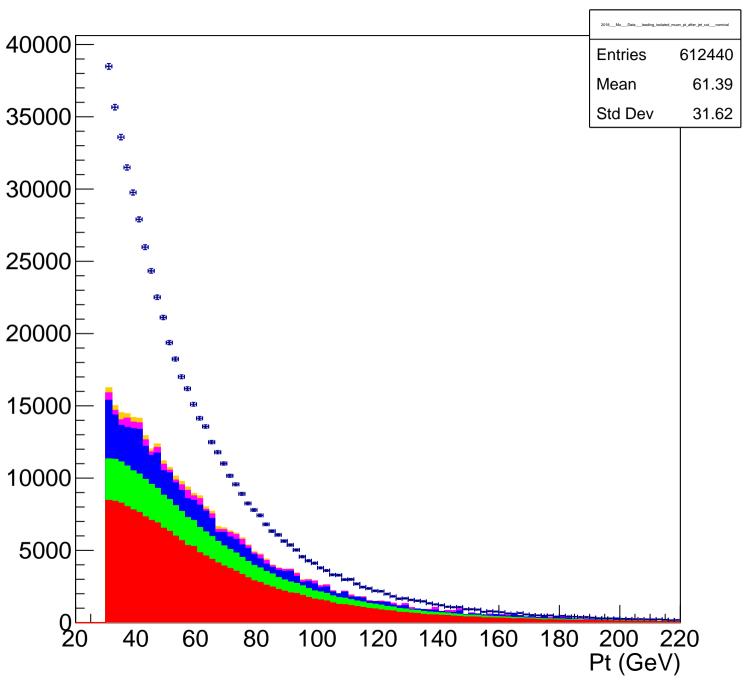
Number of Jets Before Jet Cut



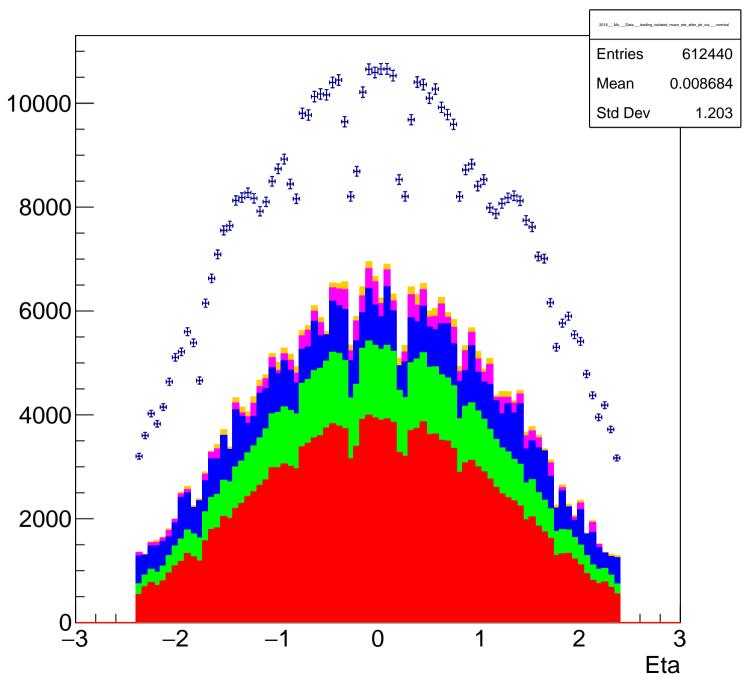
Number Of Jets



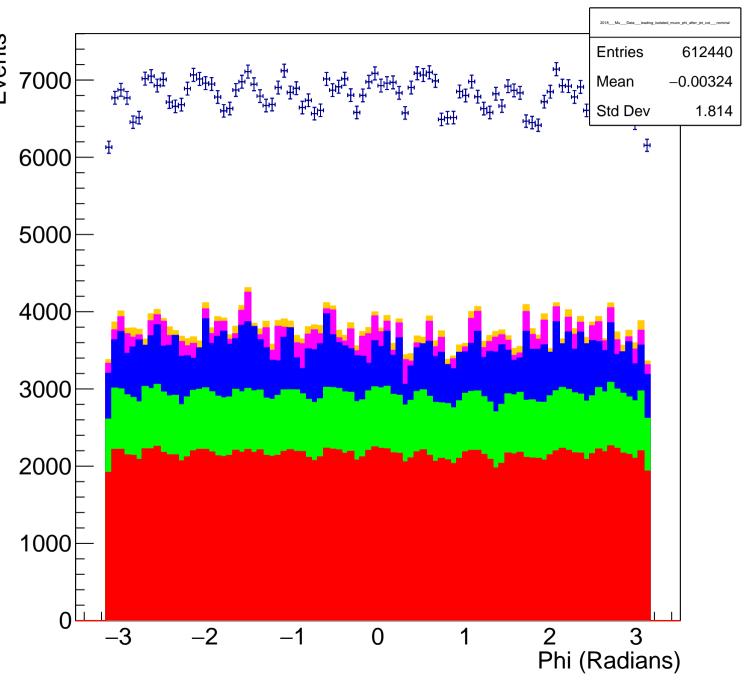
Leading Isolated Muon Transverse Momentum After Jet Cut



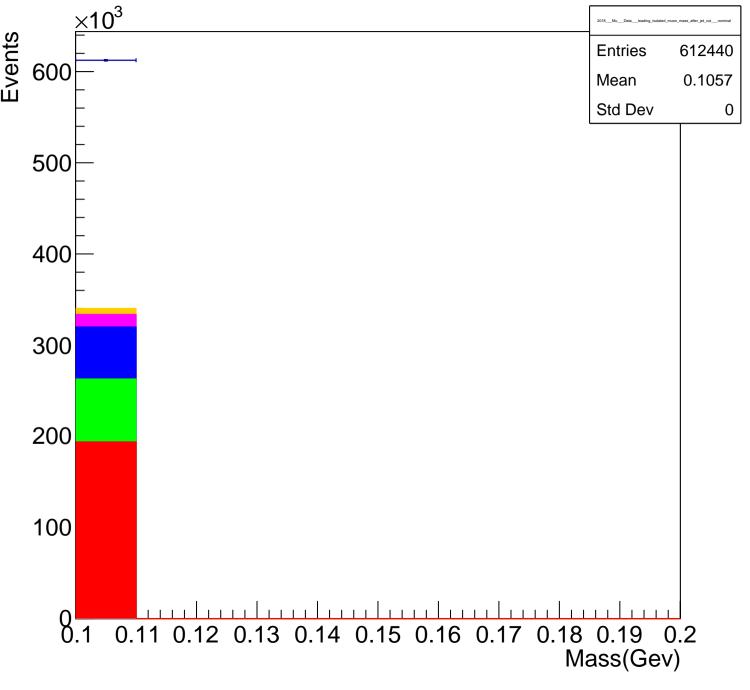
Leading Isolated Muon Pseudorapidity After Jet Cut



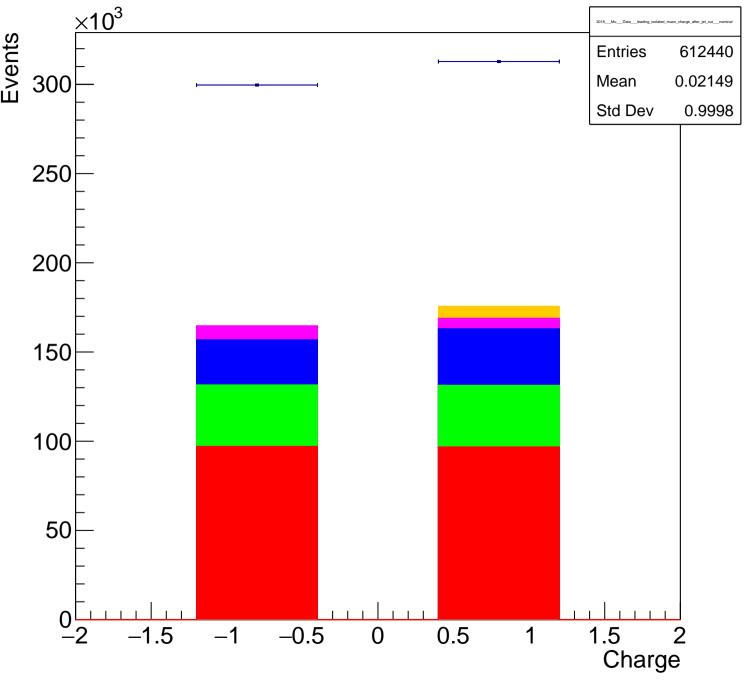
Leading Isolated Muon Angle After Jet Cut



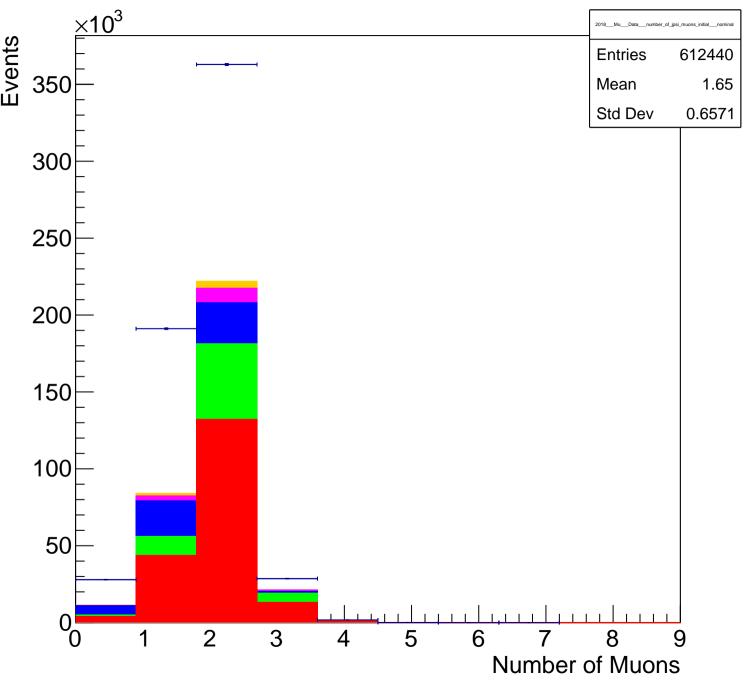
Leading Isolated Muon Mass After Jet Cut



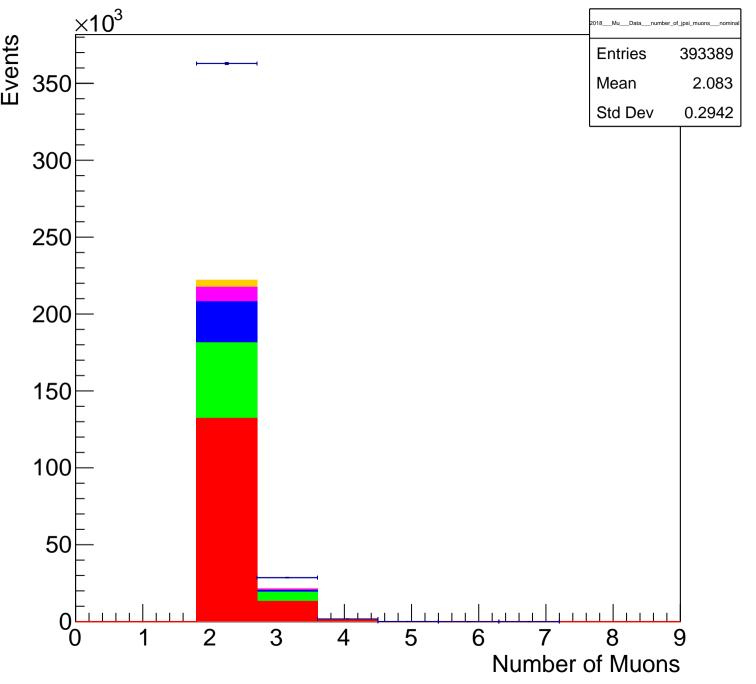
Leading Isolated Muon Charge After Jet Cut



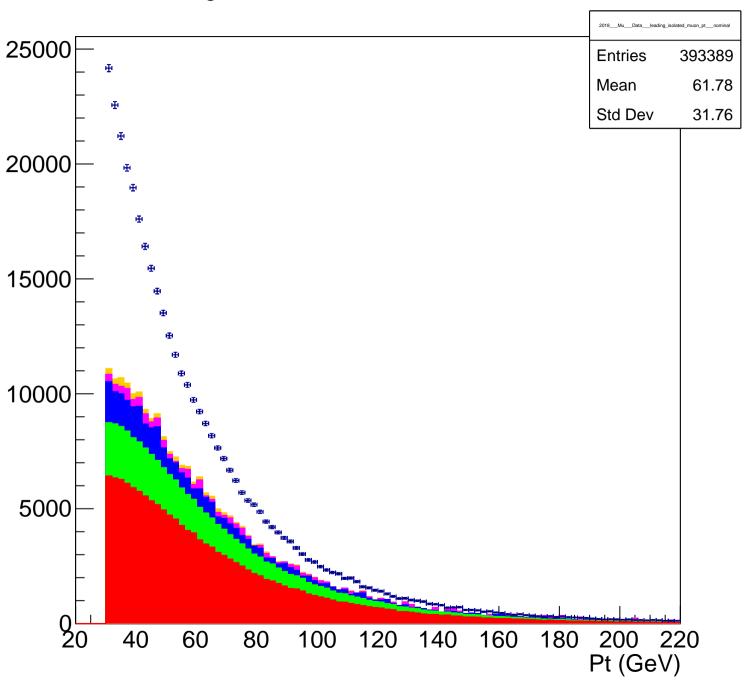
Number of JPsi Muons Before JPsi Muon Cut



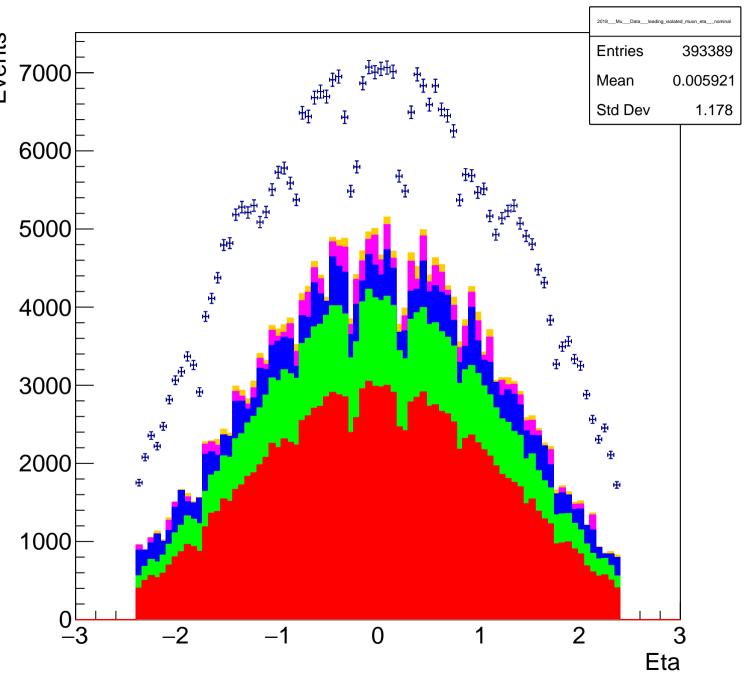
Number of JPsi Muons



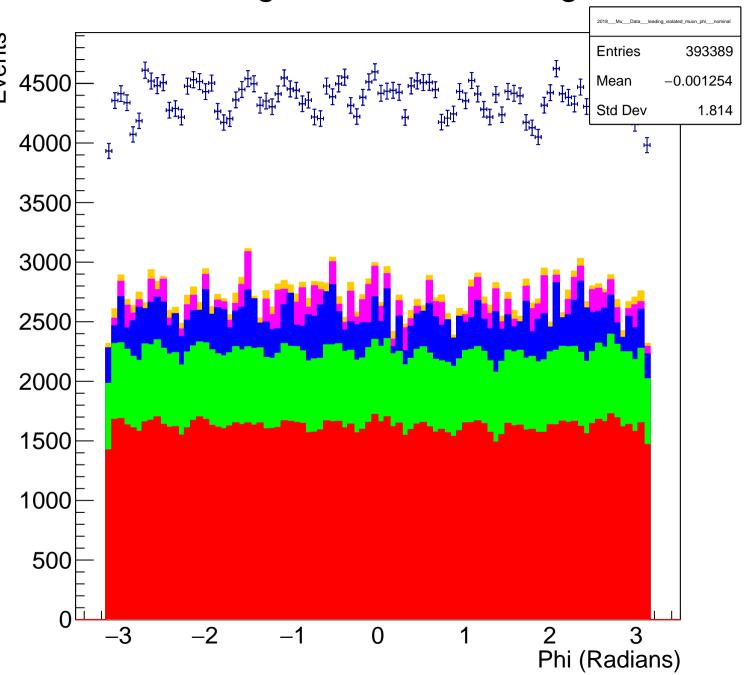
Leading Isolated Muon Transverse Momentum



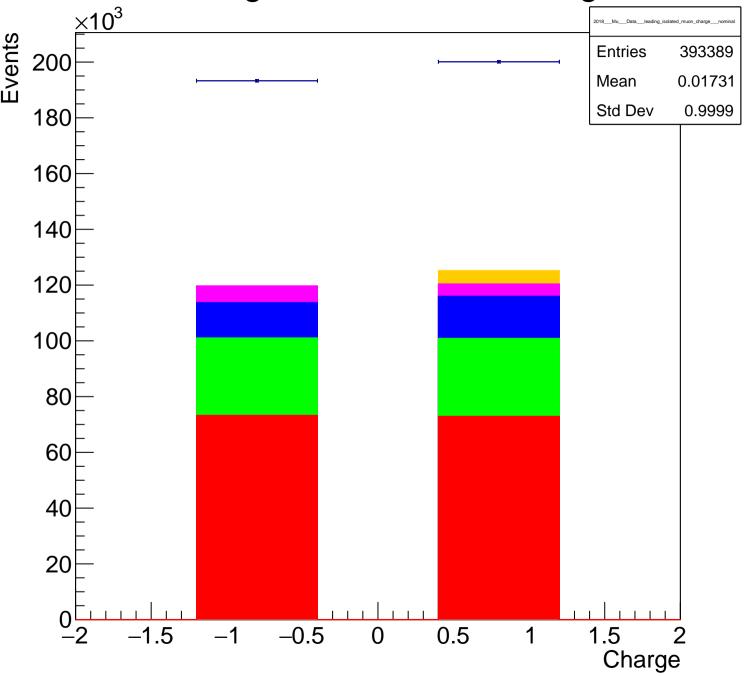
Leading Isolated Muon Pseudorapidity



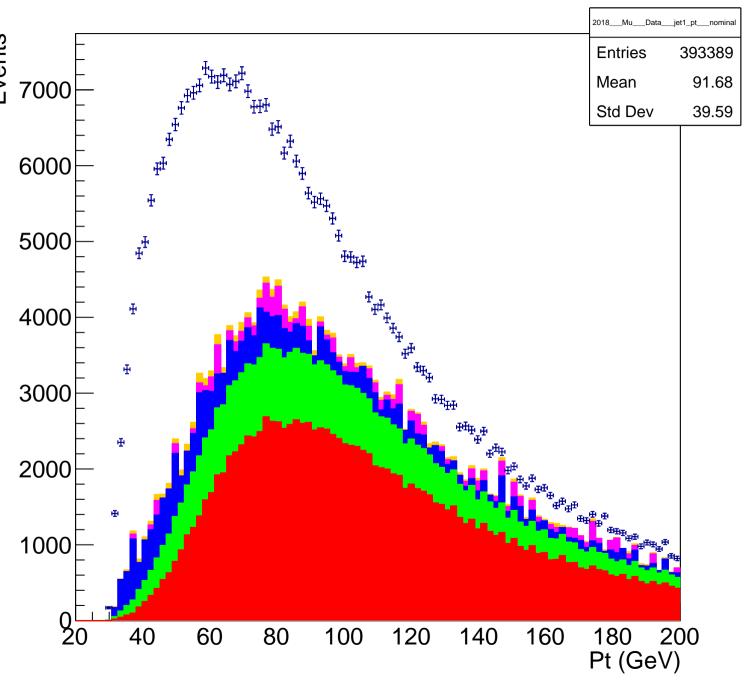
Leading Isolated Muon Angle



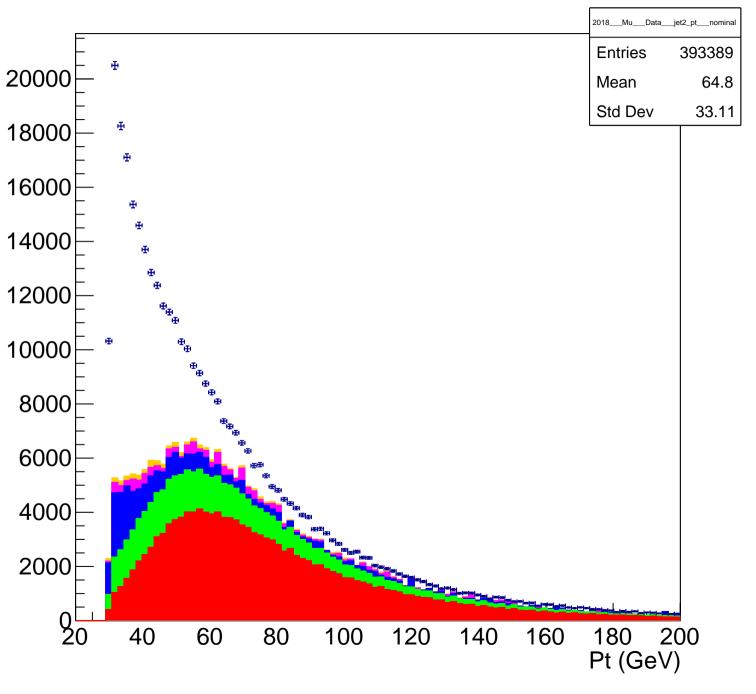
Leading Isolated Muon Charge



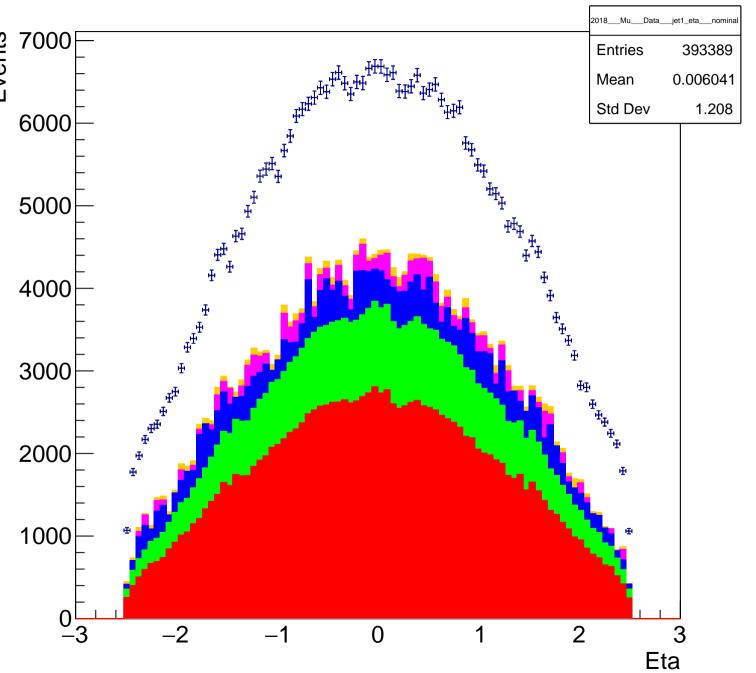
Jet Transverse Momentum for Leading Jet



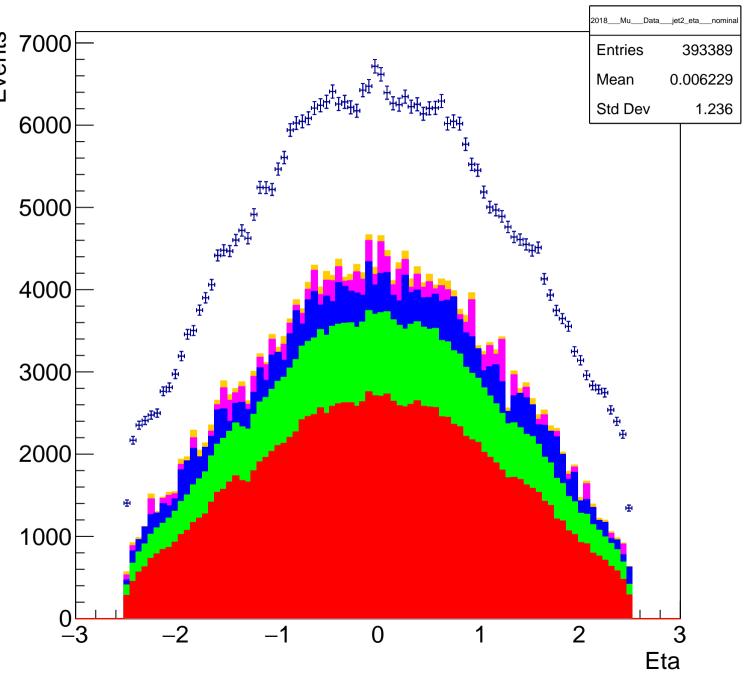
Jet Transverse Momentum for Subleading Jet



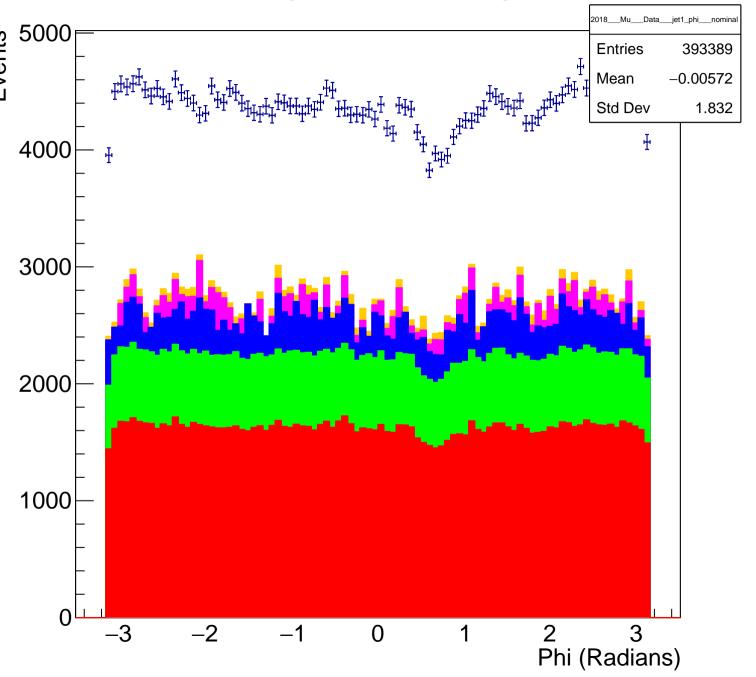
Jet Pseudorapidity for Leading Jet



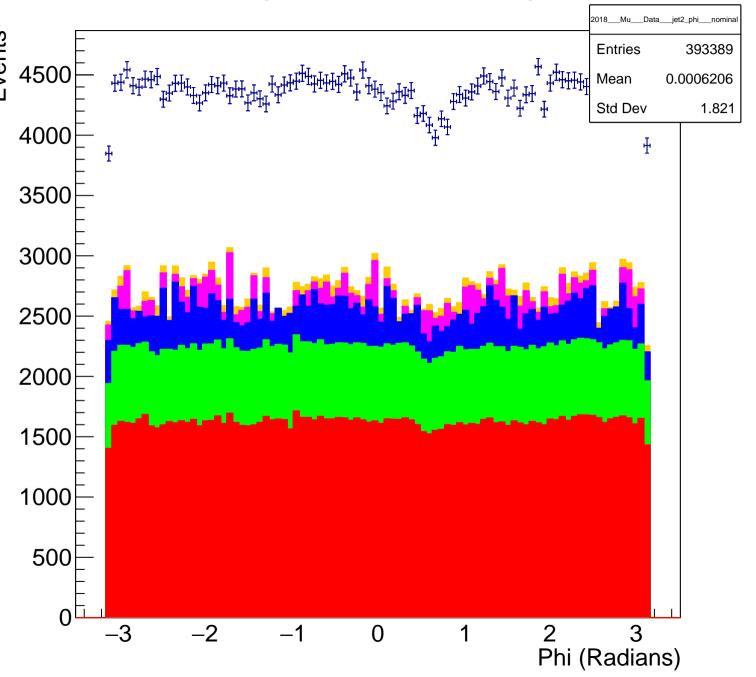
Jet Pseudorapidity for Subleading Jet



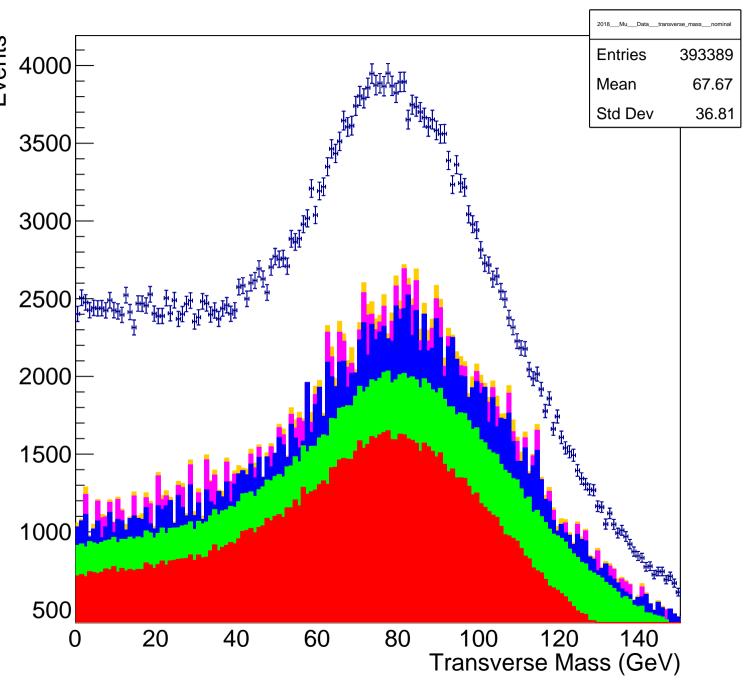
Jet Angle for Leading Jet



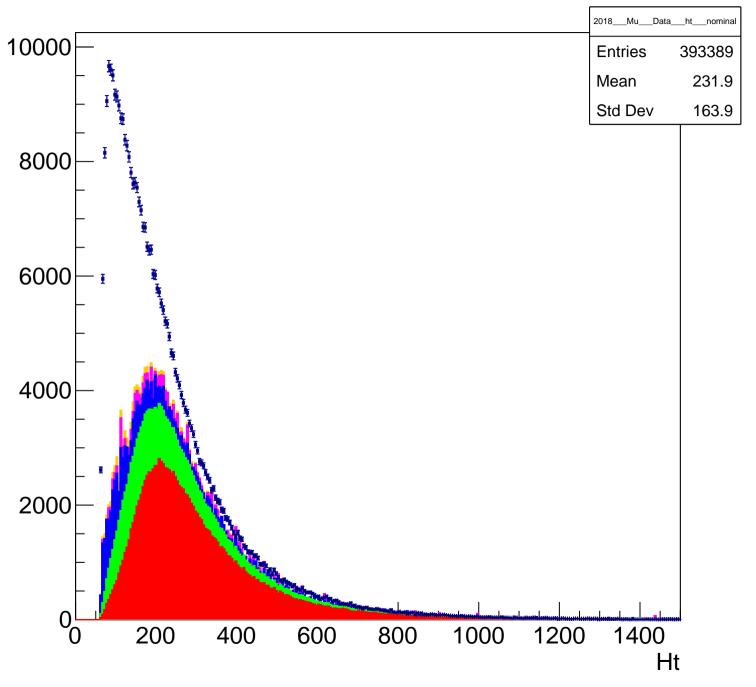
Jet Angle for Subleading Jet



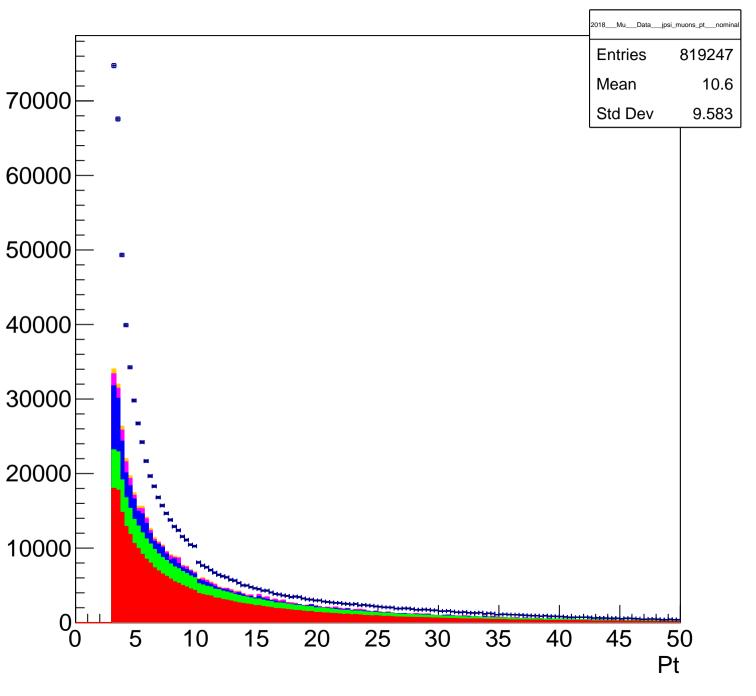
Transverse Mass



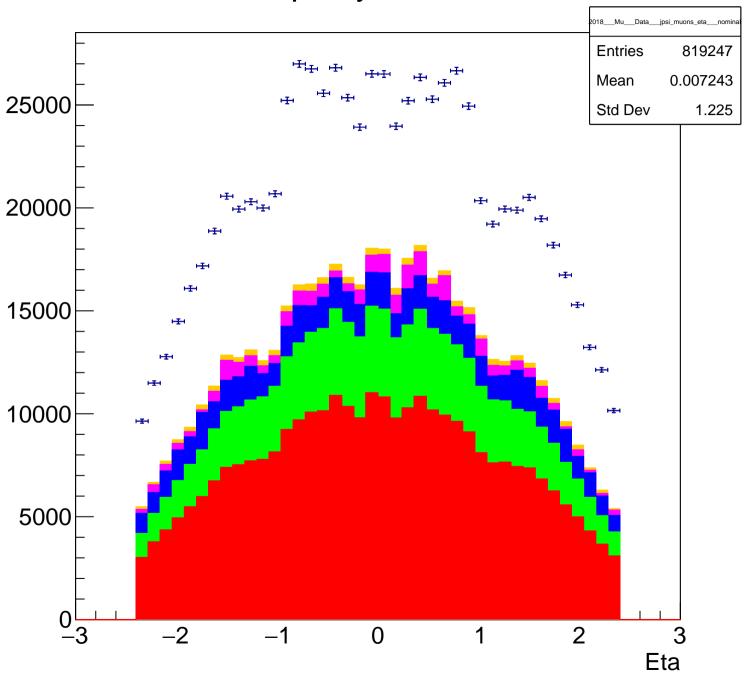
Ht



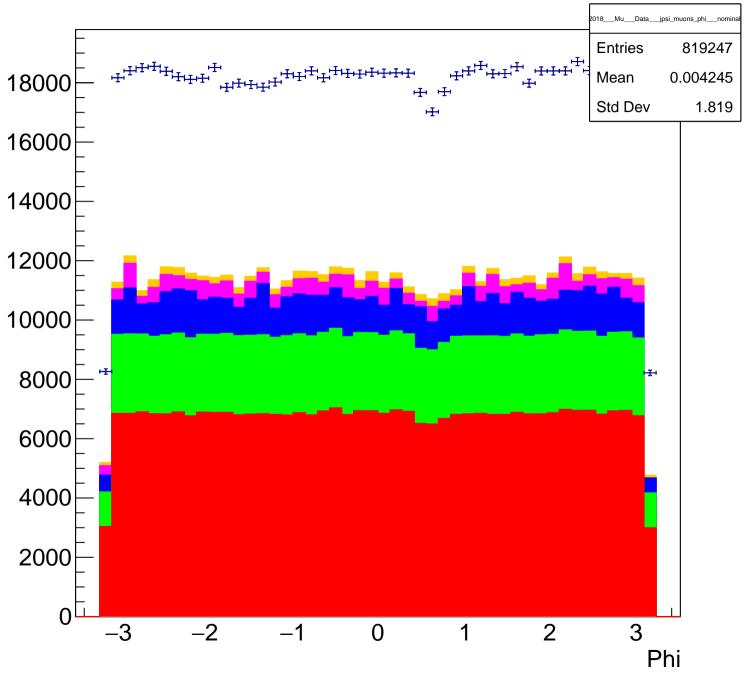
Transverse Momentum for JPsi Muons



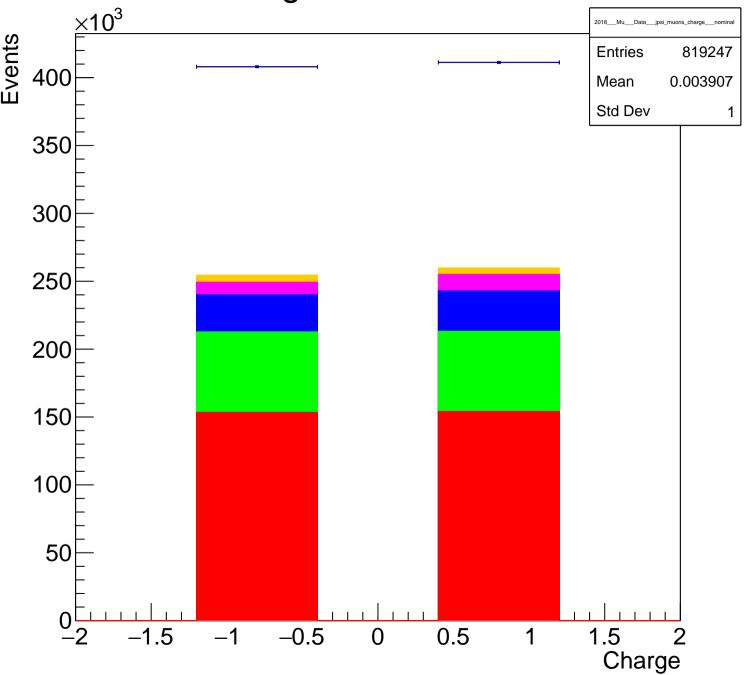
Pseudorapidity for JPsi Muons



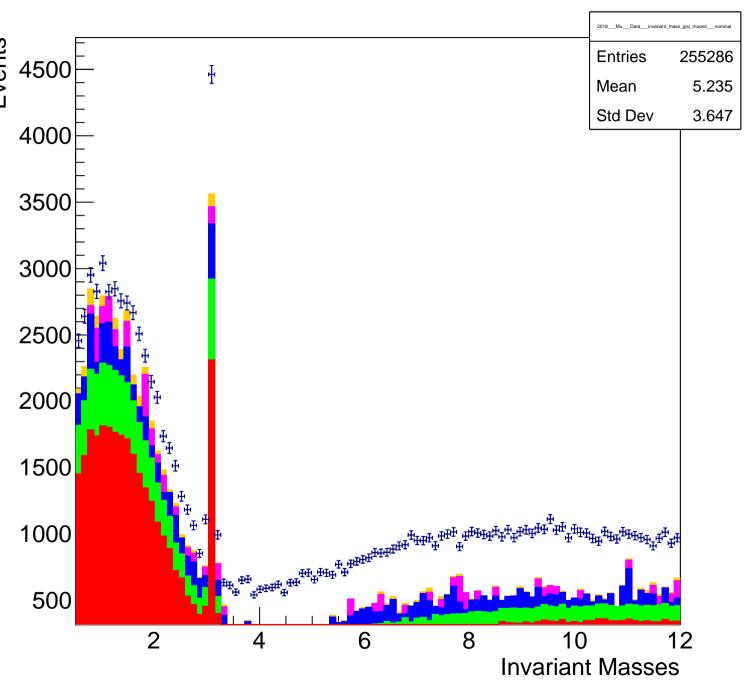
Angle for JPsi Muons



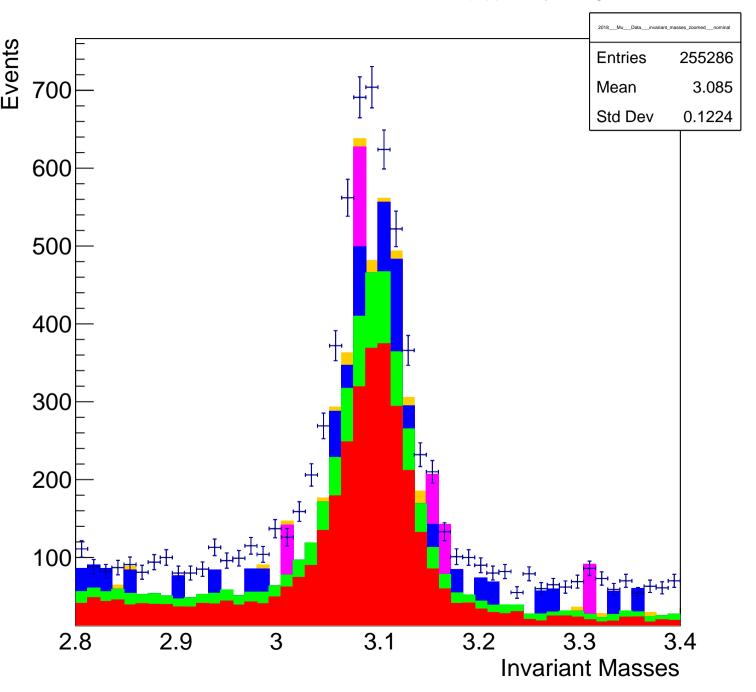
Charge of JPsi Muons



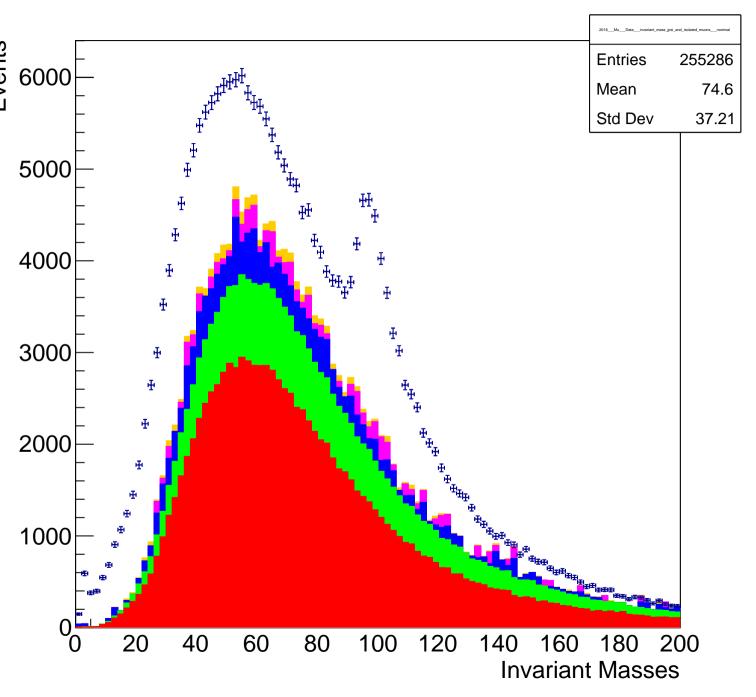
Invariant Masses for J/Psi Candidate Muons (Oppositely Charged)



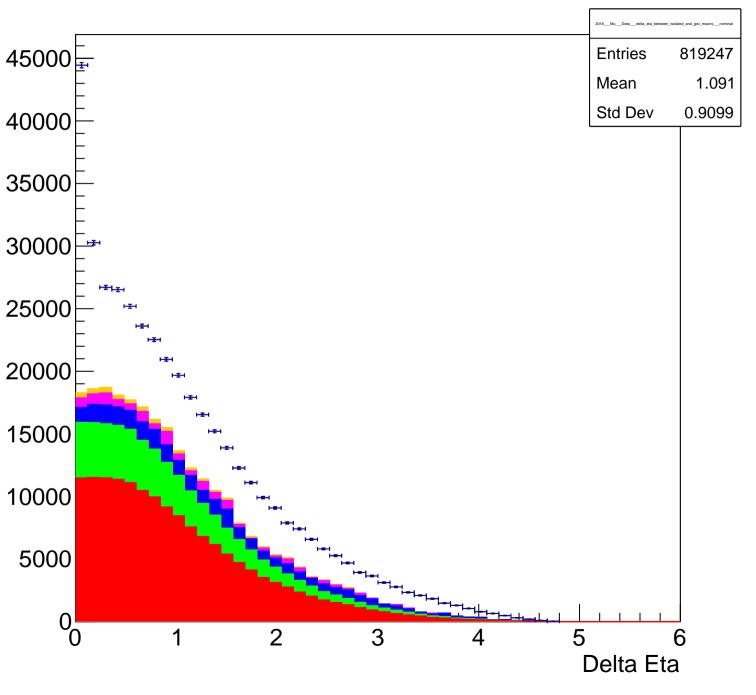
Invariant Masses for J/Psi Candidate Muons (Oppositely Charged)



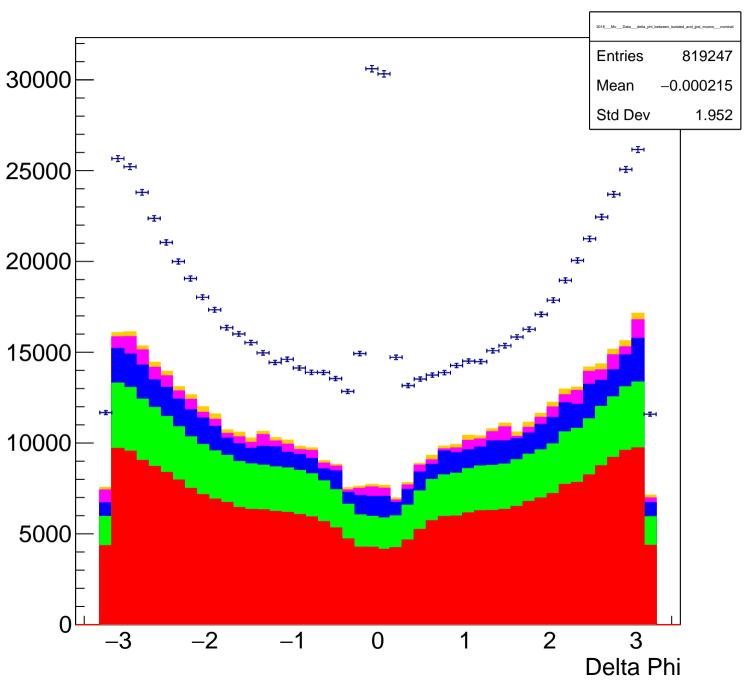
Invariant Masses for J/Psi Candidate And Isolated Muons



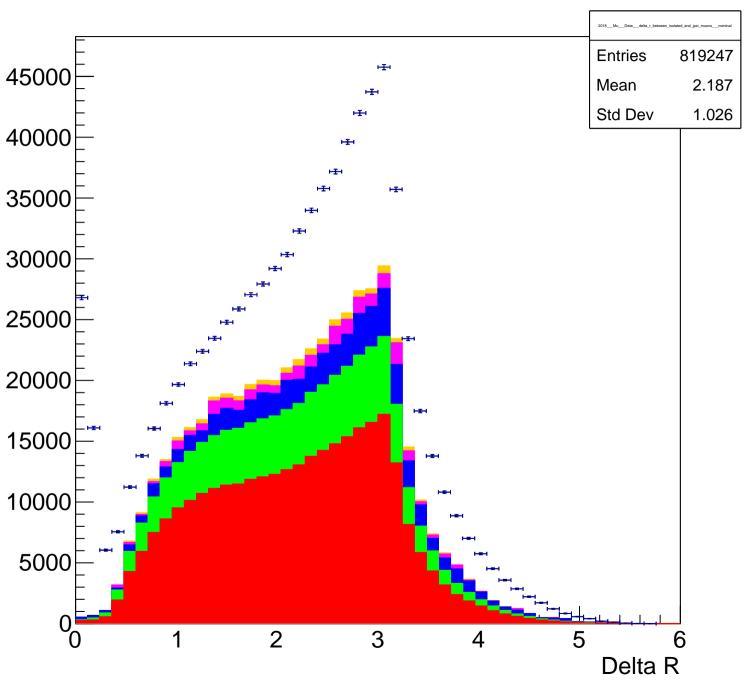
Delta Eta for Isolated Muon - JPsi Muons



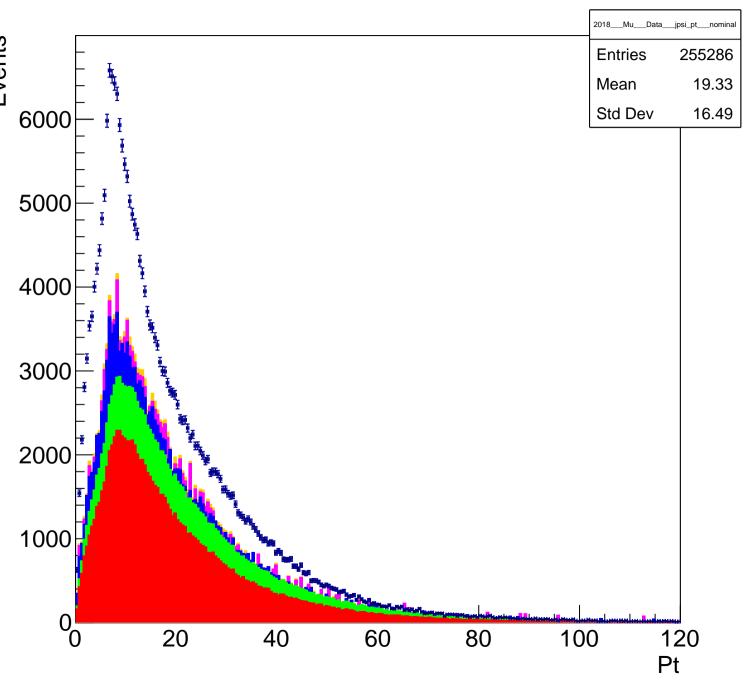
Delta Phi for Isolated Muon - JPsi Muons



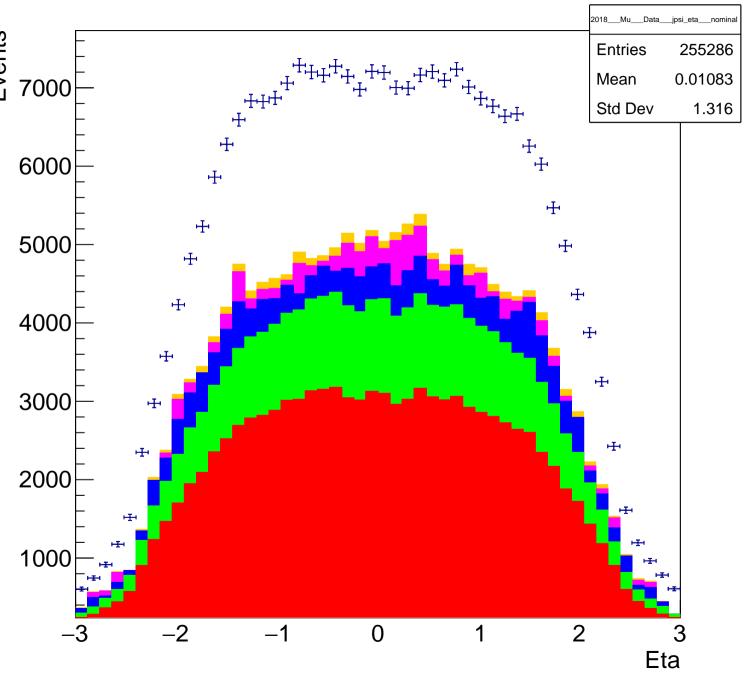
Delta R for Isolated and JPsi Muons



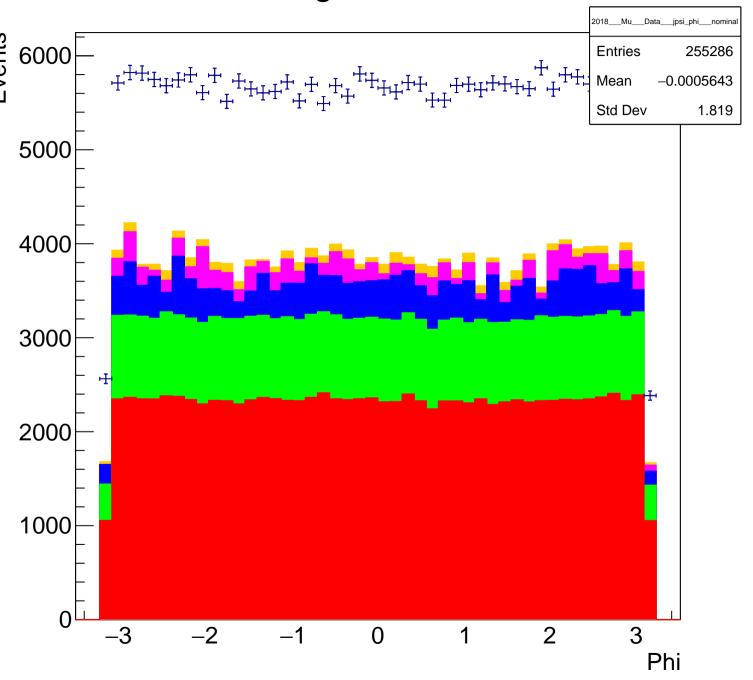
Transverse Momentum for JPsi



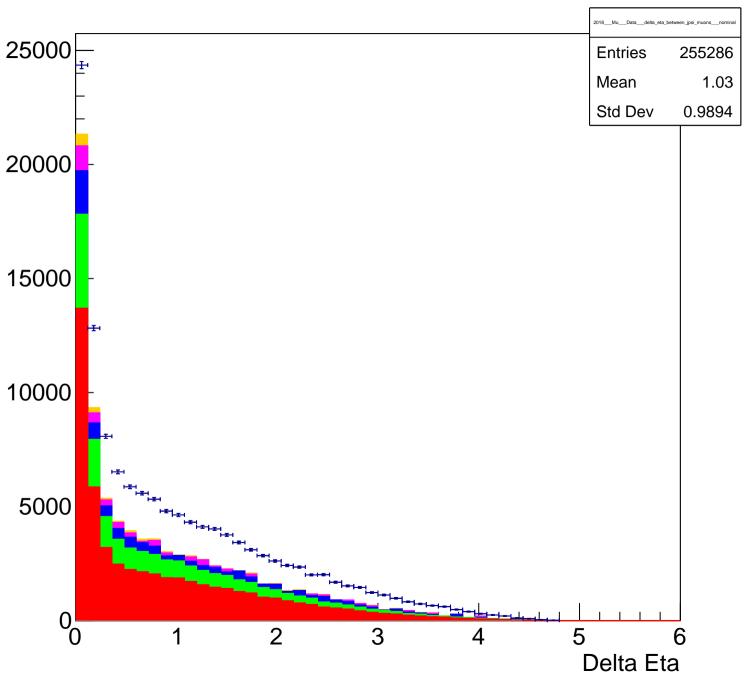
Pseudorapidity for JPsi



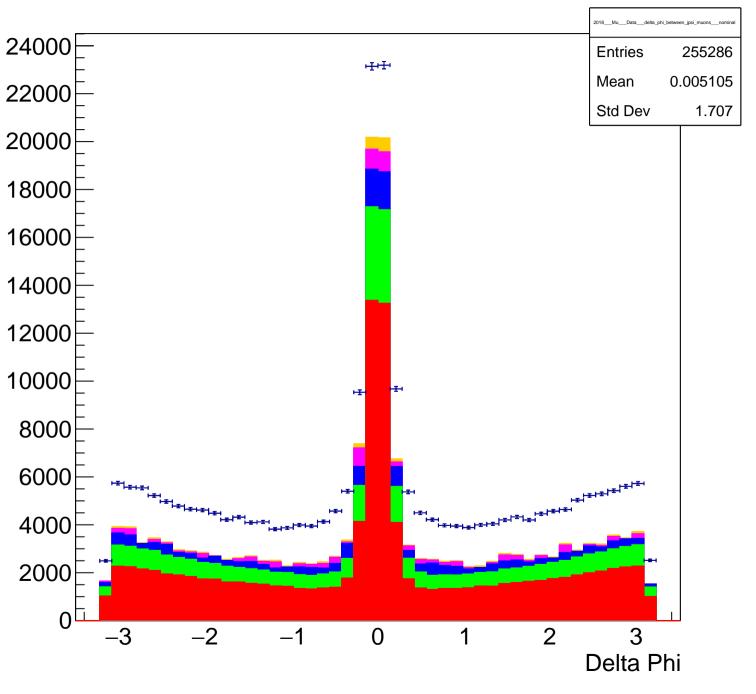
Angle for JPsi



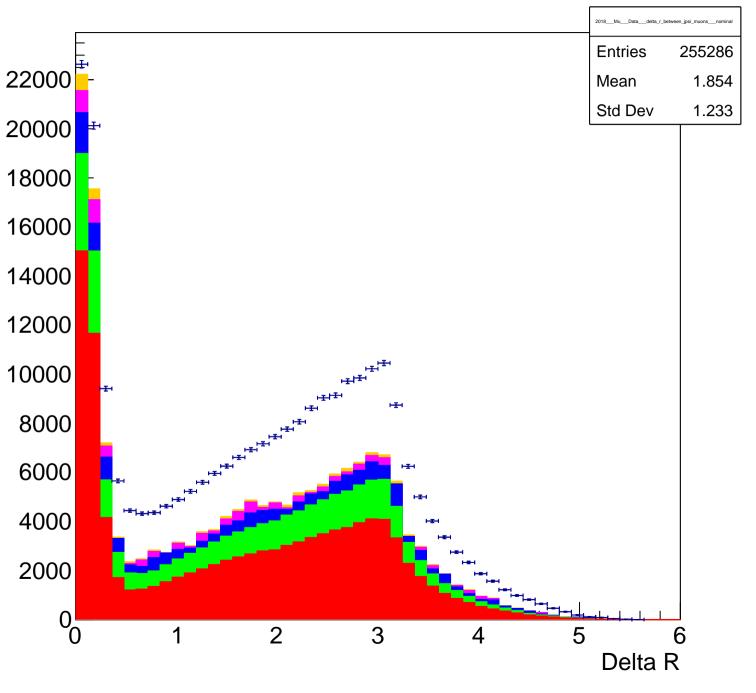
Delta Eta for JPsi Muons



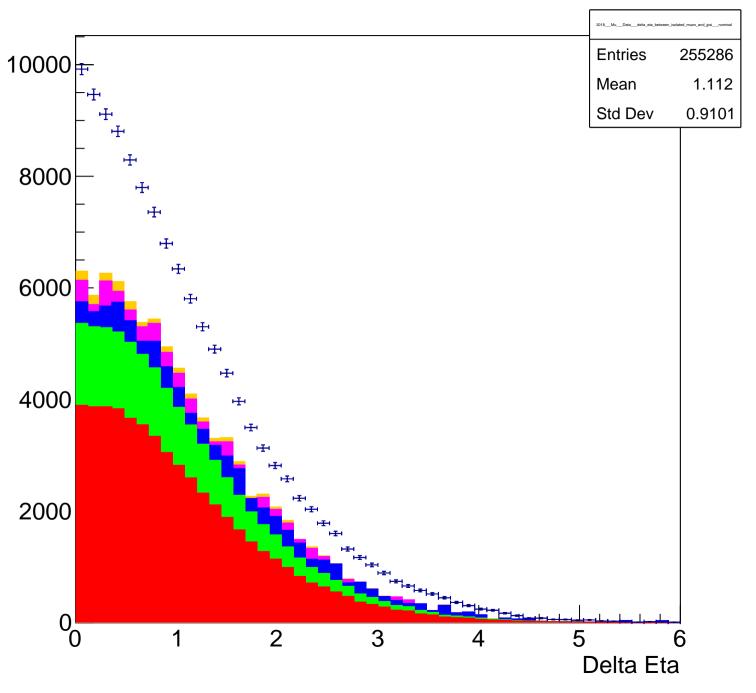
Delta Phi for JPsi Muons



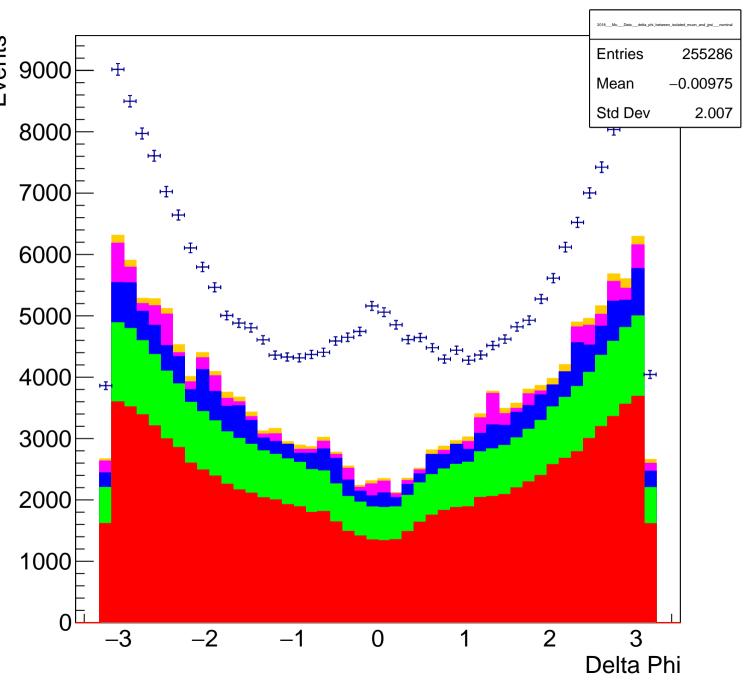
Delta R for JPsi Muons



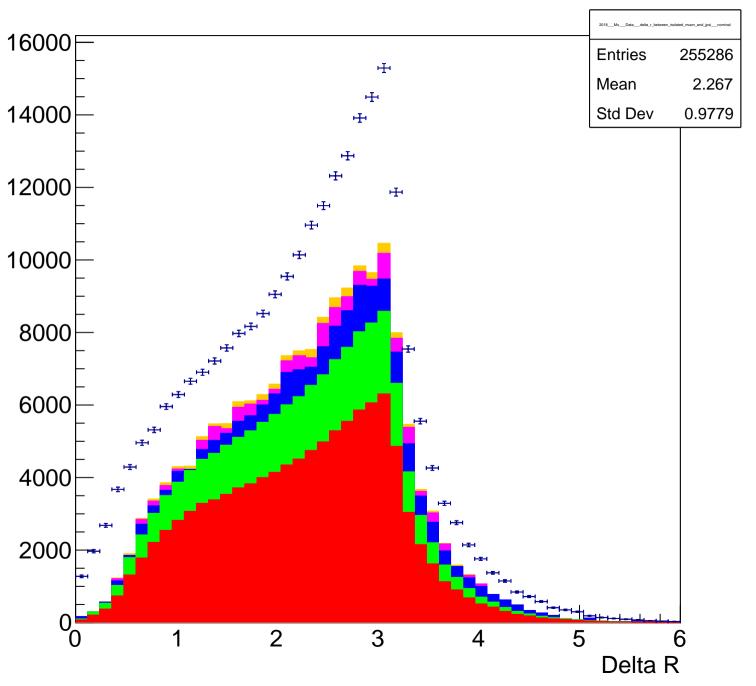
Delta Eta for Isolated Muon And JPsi



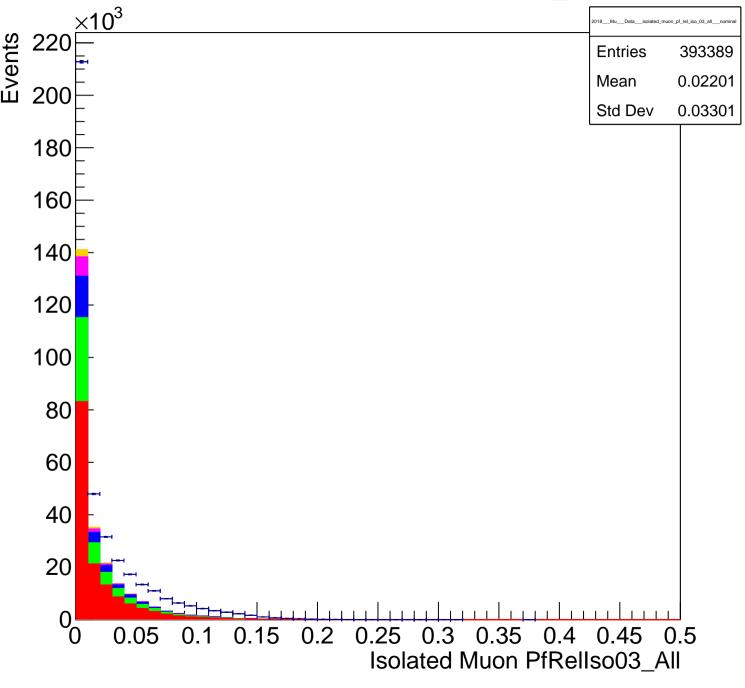
Delta Phi for Isolated Muon And JPsi



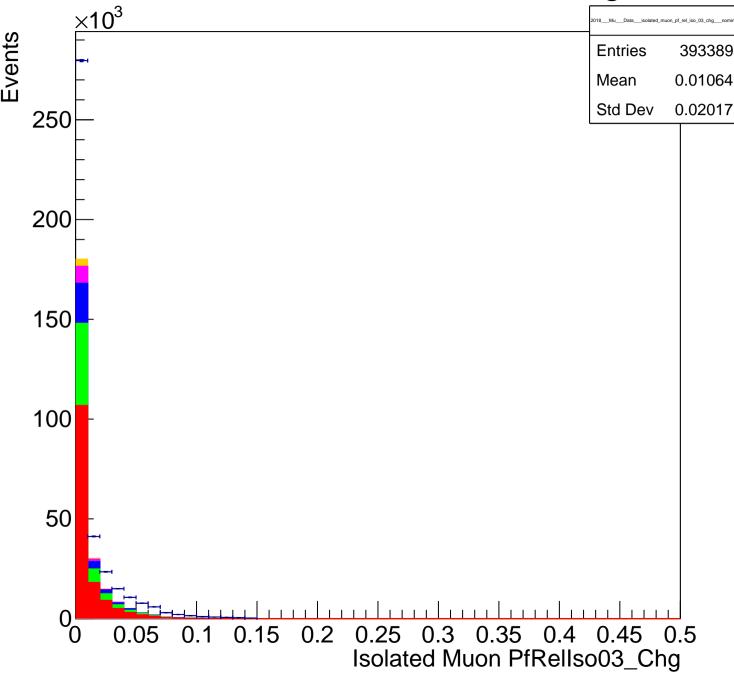
Delta R for Isolated Muon And JPsi



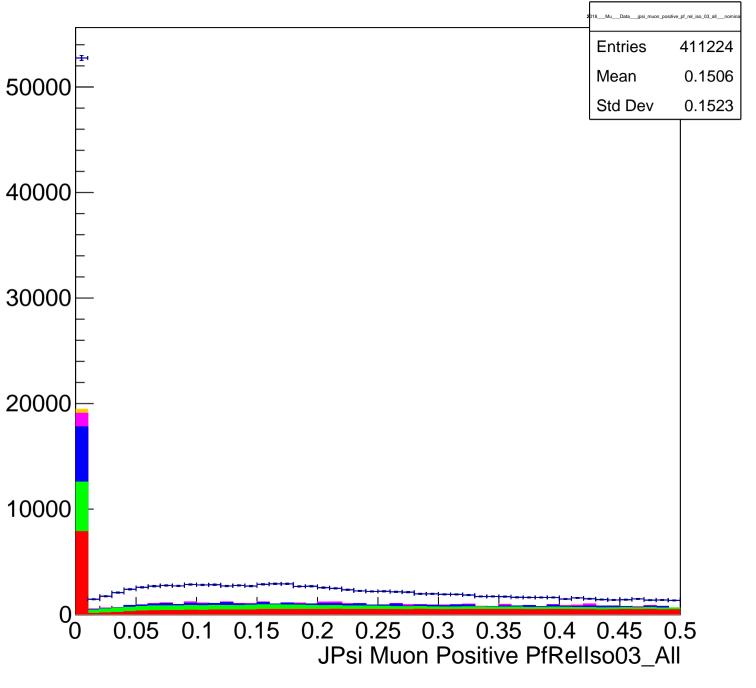
Isolated Muon PfRellso03_All



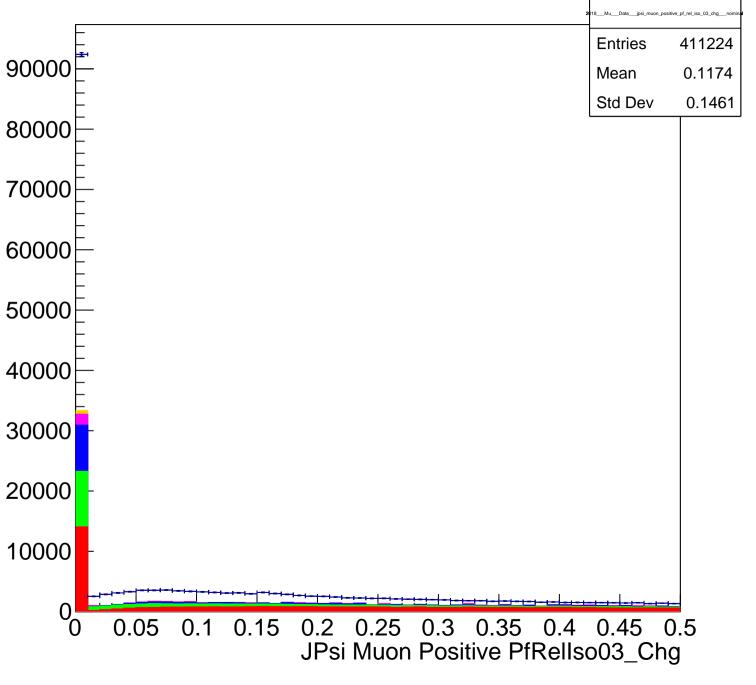
Isolated Muon PfRellso03_Chg



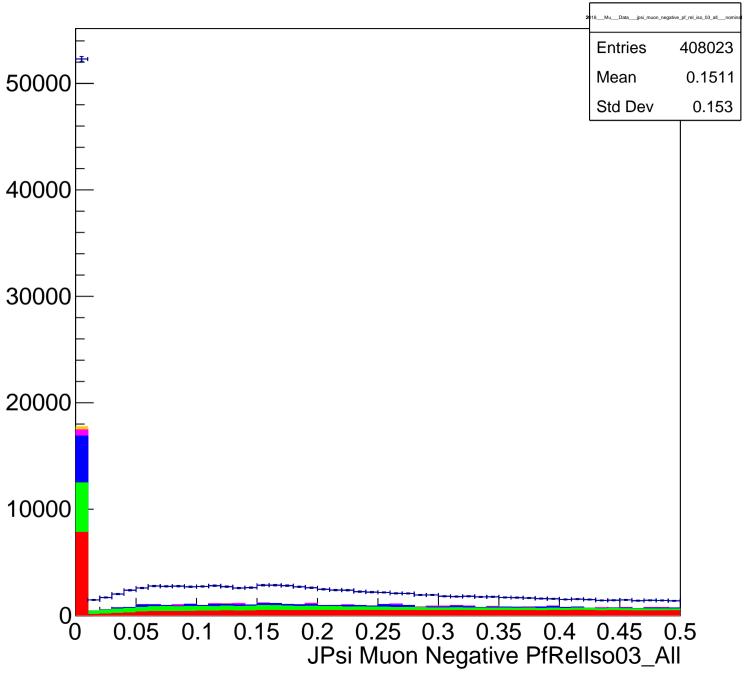
JPsi Muon Positive PfRellso03_All



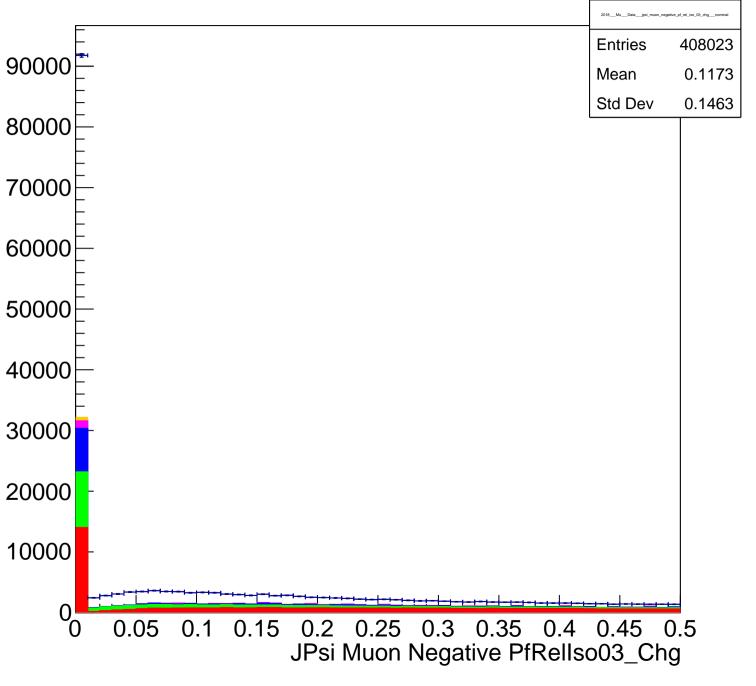
JPsi Muon Positive PfRellso03_Chg



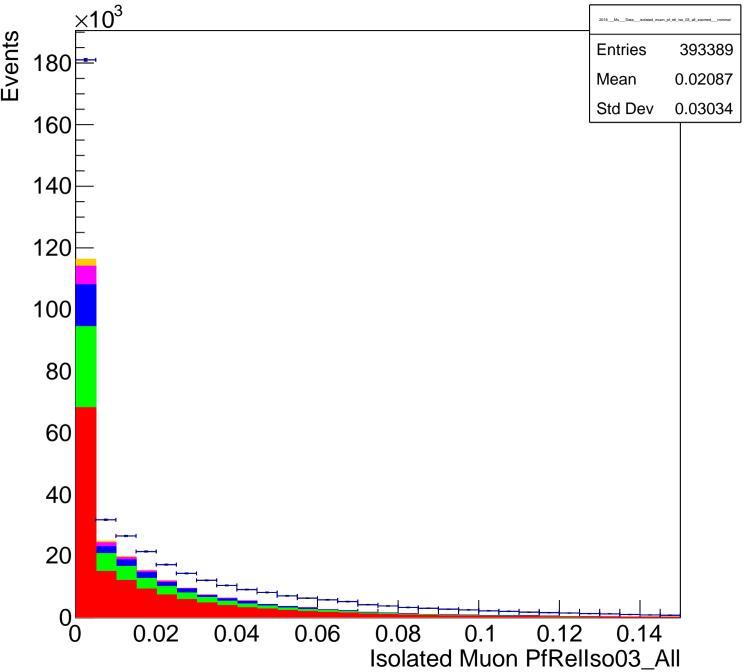
JPsi Muon Negative PfRellso03_All



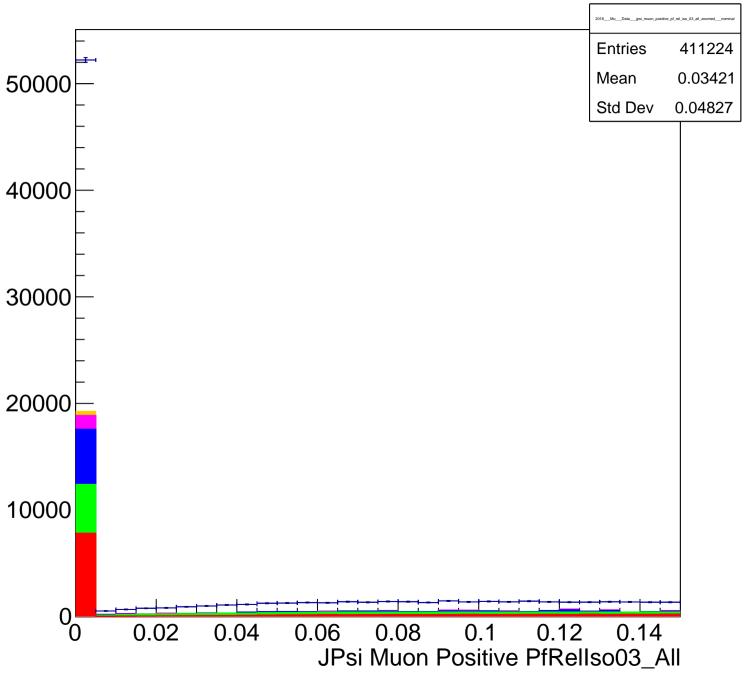
JPsi Muon Negative PfRellso03_Chg



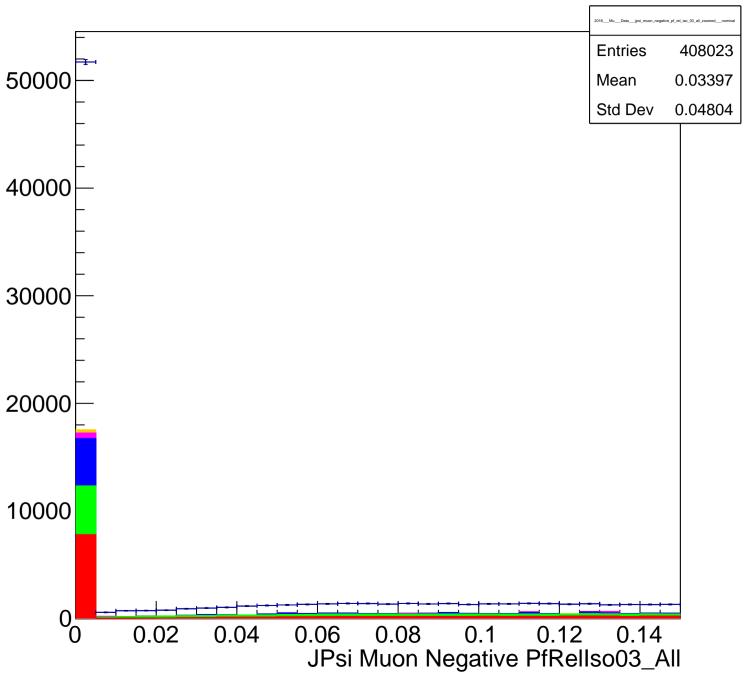
Isolated Muon PfRelIso03_All Zoomed



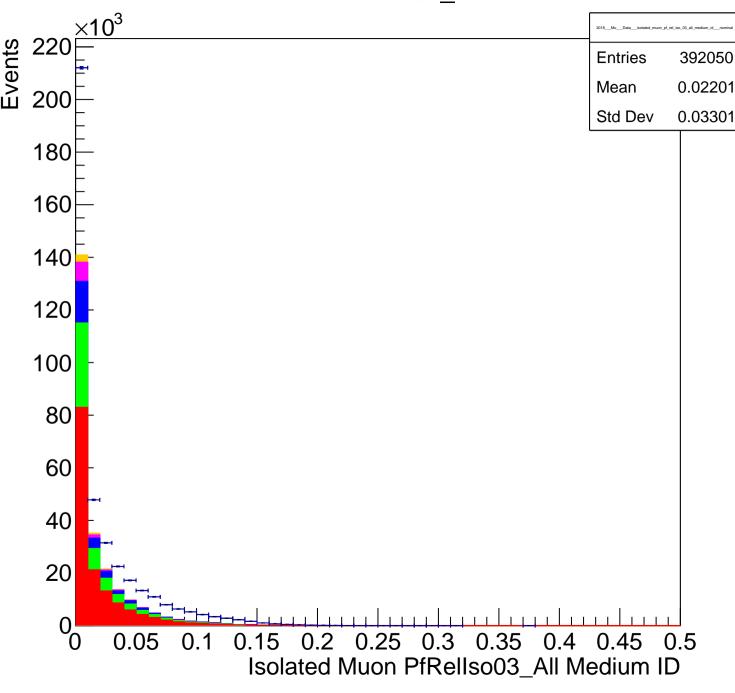
JPsi Muon Positive PfRellso03_All Zoomed



JPsi Muon Negative PfRellso03_All Zoomed



Isolated Muon PfRelIso03_All Medium ID



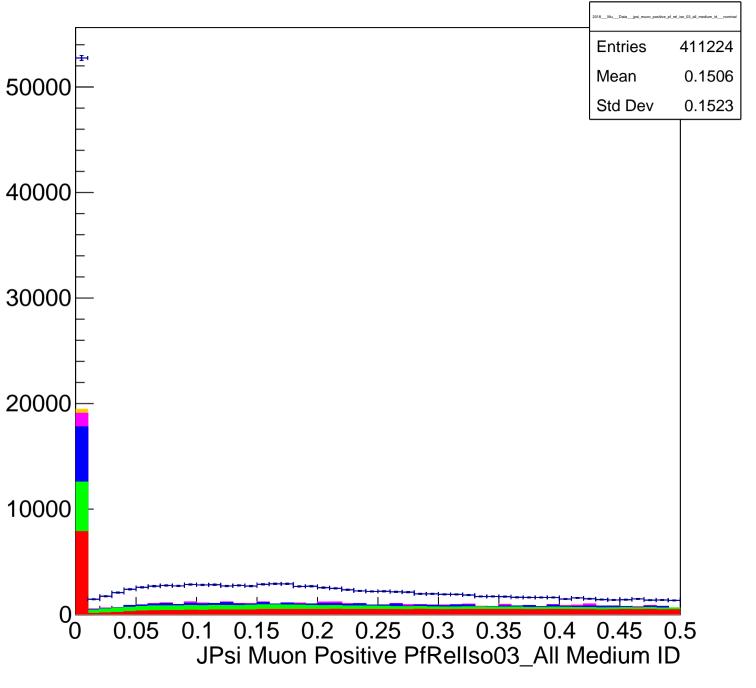
 $\times 10^3$ Events **Entries** 392050 180 Mean 0.02087 Std Dev 0.03033 160 140 120 100 80 60 40 20 0.04 0.06 0.1 0.12 0.14 0.02 80.0 Isolated Muon PfRelIso03_All Medium ID

Isolated Muon PfRelIso03_All Medium ID Zoomed

Isolated Muon PfRelIso03_Chg Medium ID ×10³ Events **Entries** 392050 Mean 0.01064 Std Dev 0.02017 250 200 150 100 50 0.1 0.3 0.35 0.45 0.2 0.25 0.4

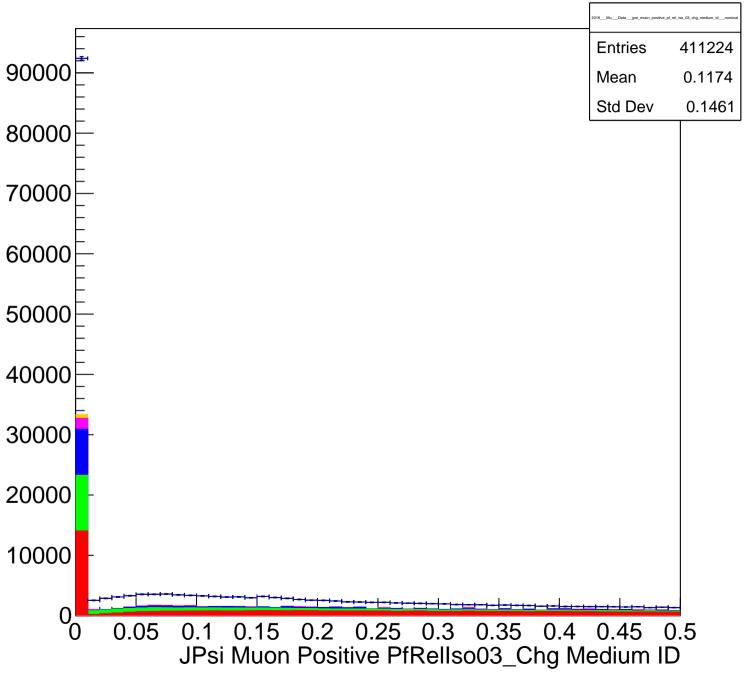
Isolated Muon PfRelIso03_Chg Medium ID

JPsi Muon Positive PfRellso03_All Medium ID

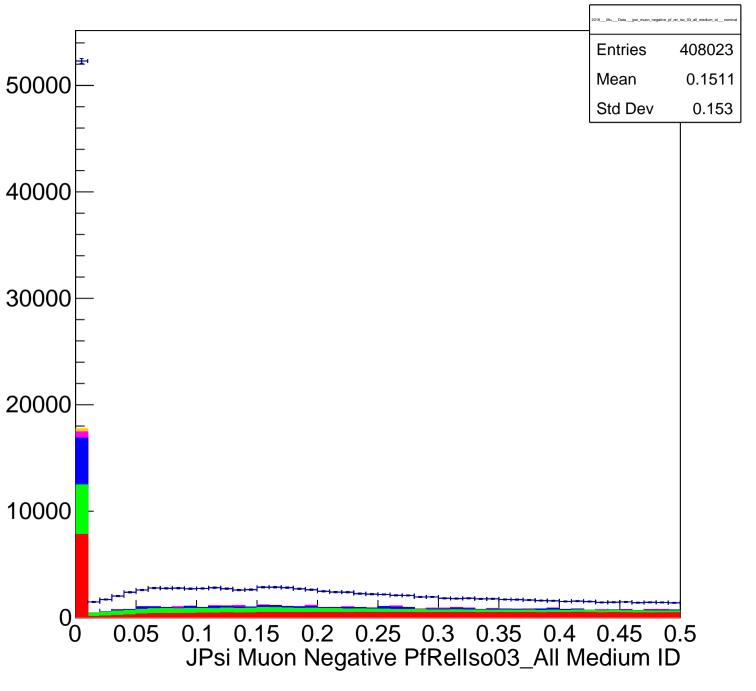


JPsi Muon Positive PfRellso03_All Zoomed Medium ID **Entries** 411224 Mean 0.03421 50000 Std Dev 0.04827 40000 30000 20000 10000 0.12 0.14 0.02 0.06 0.08 0.1 0.04 JPsi Muon Positive PfRellso03_All Medium ID

JPsi Muon Positive PfRellso03_Chg Medium ID

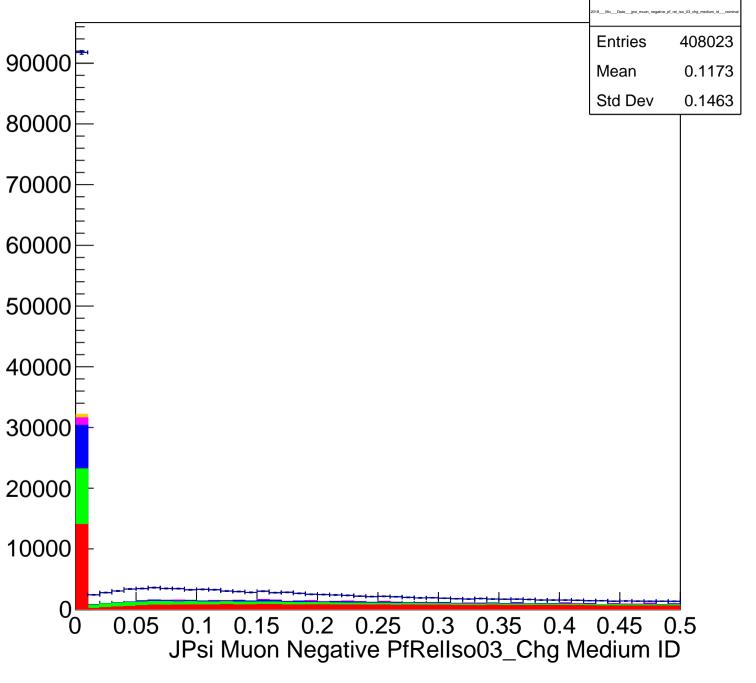


JPsi Muon Negative PfRelIso03_All Medium ID

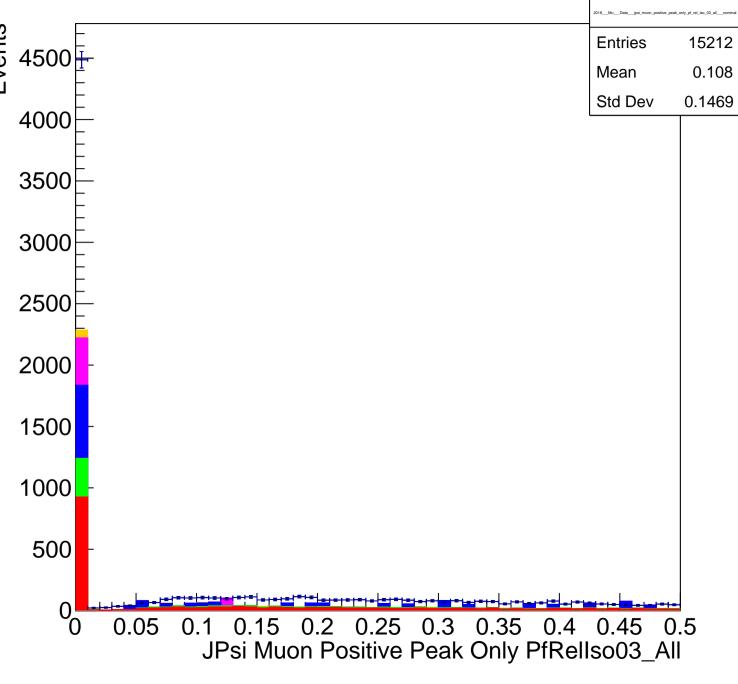


JPsi Muon Negative PfRellso03_All Zoomed Medium ID **Entries** 408023 50000 Mean 0.03397 Std Dev 0.04804 40000 30000 20000 10000 0, 0.14 0.02 0.04 0.06 80.0 0.1 0.12 JPsi Muon Negative PfRellso03_All Medium ID

JPsi Muon Negative PfRellso03_Chg Medium ID

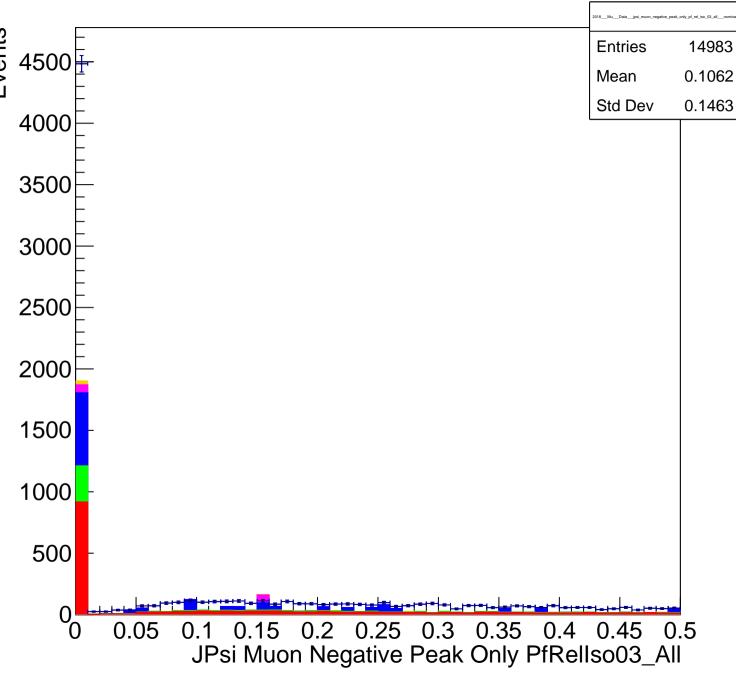


JPsi Muon Positive Peak Only PfRellso03_All



JPsi Muon Positive Peak Only PfRellso03_Chg **Entries** 15212 Mean 0.08165 Std Dev 0.1333 6000 5000 4000 3000 2000 1000 0.4 0.45 0.5 0.05 0.2 0.25 0.3 0.35 0.15 JPsi Muon Positive Peak Only PfRellso03_Chg

JPsi Muon Negative Peak Only PfRellso03_All



JPsi Muon Negative Peak Only PfRellso03_Chg **Entries** 14983 Mean 0.07807 Std Dev 0.1292 0.05 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5

JPsi Muon Negative Peak Only PfRellso03_Chg

6000

5000

4000

3000

2000

1000