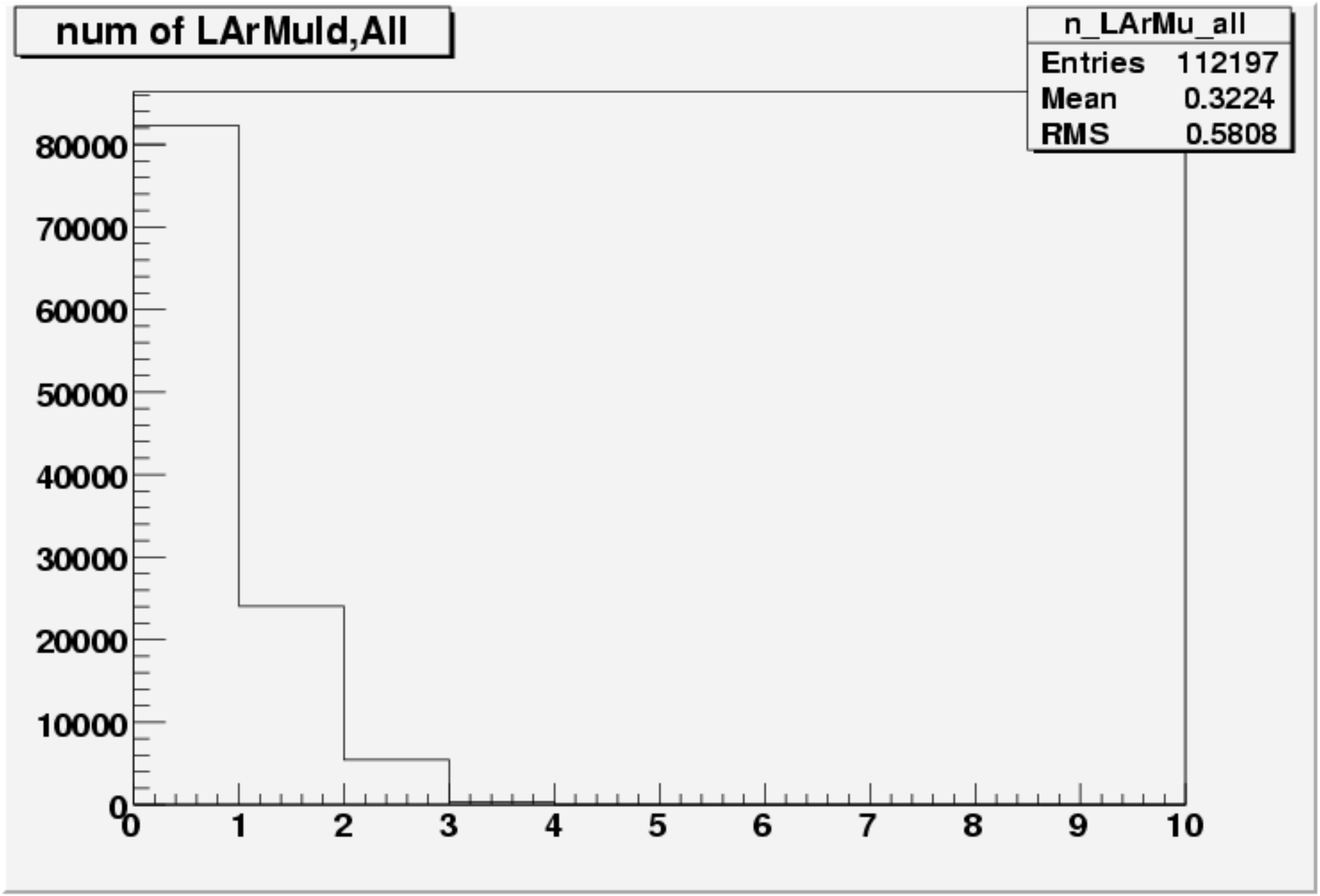
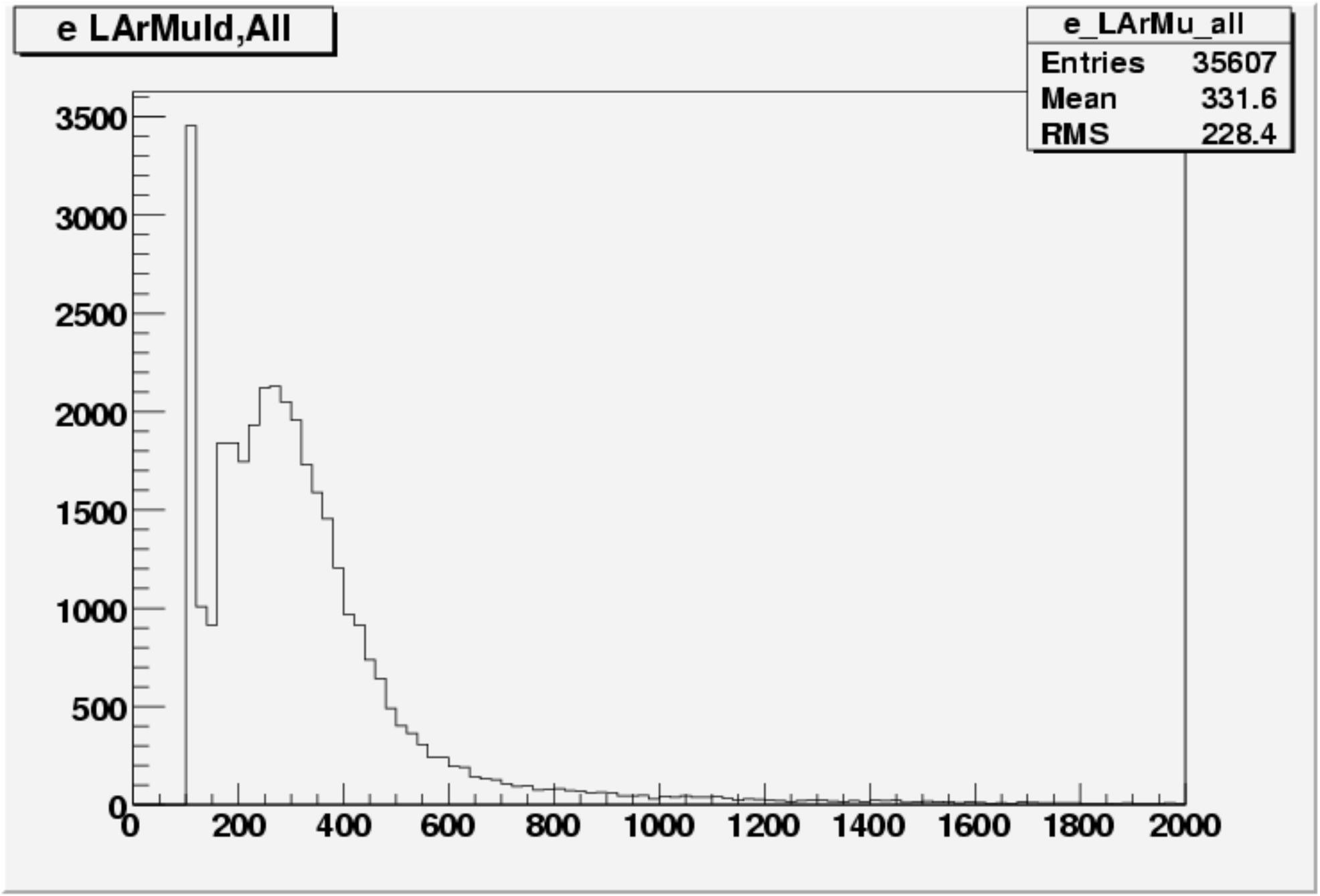
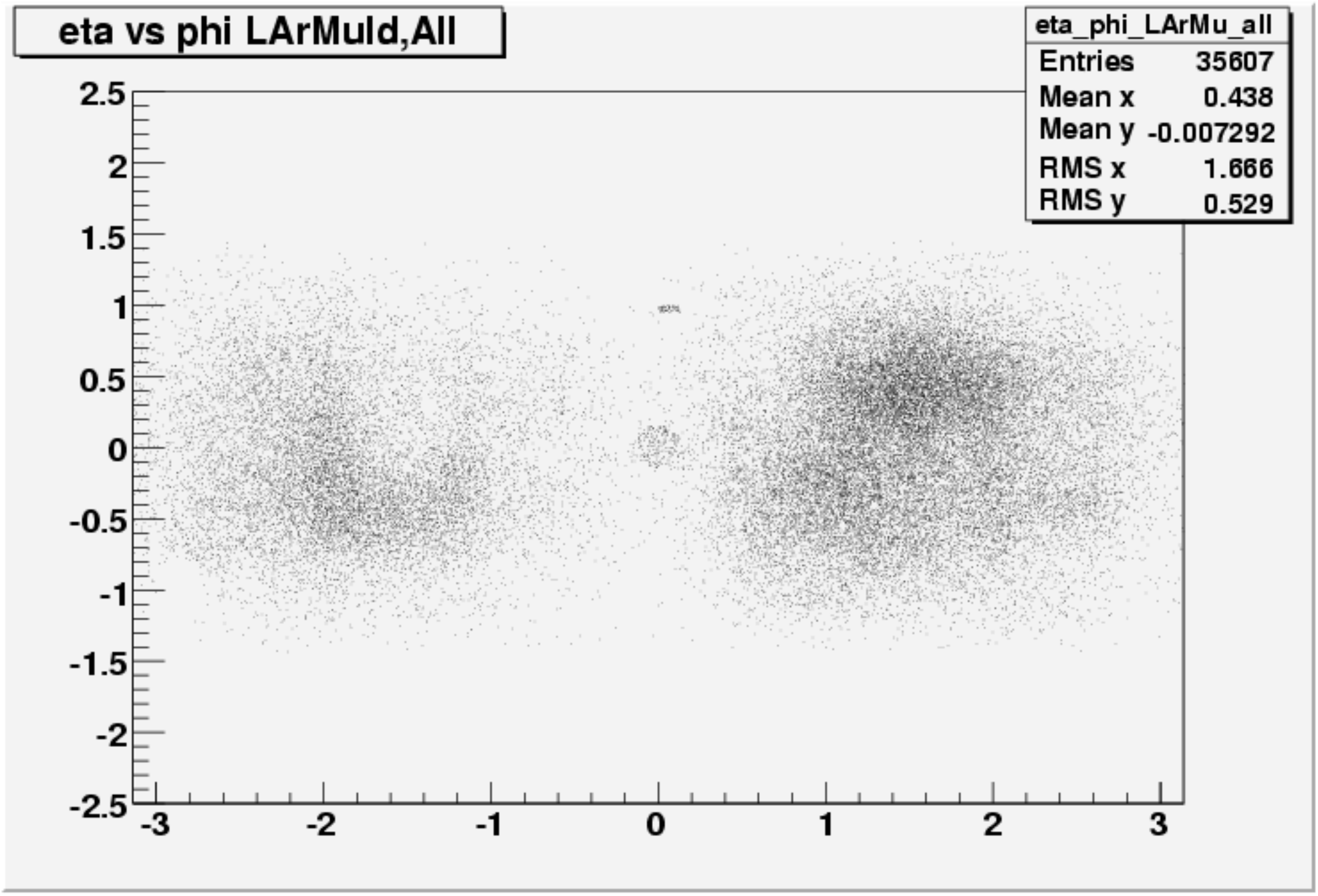
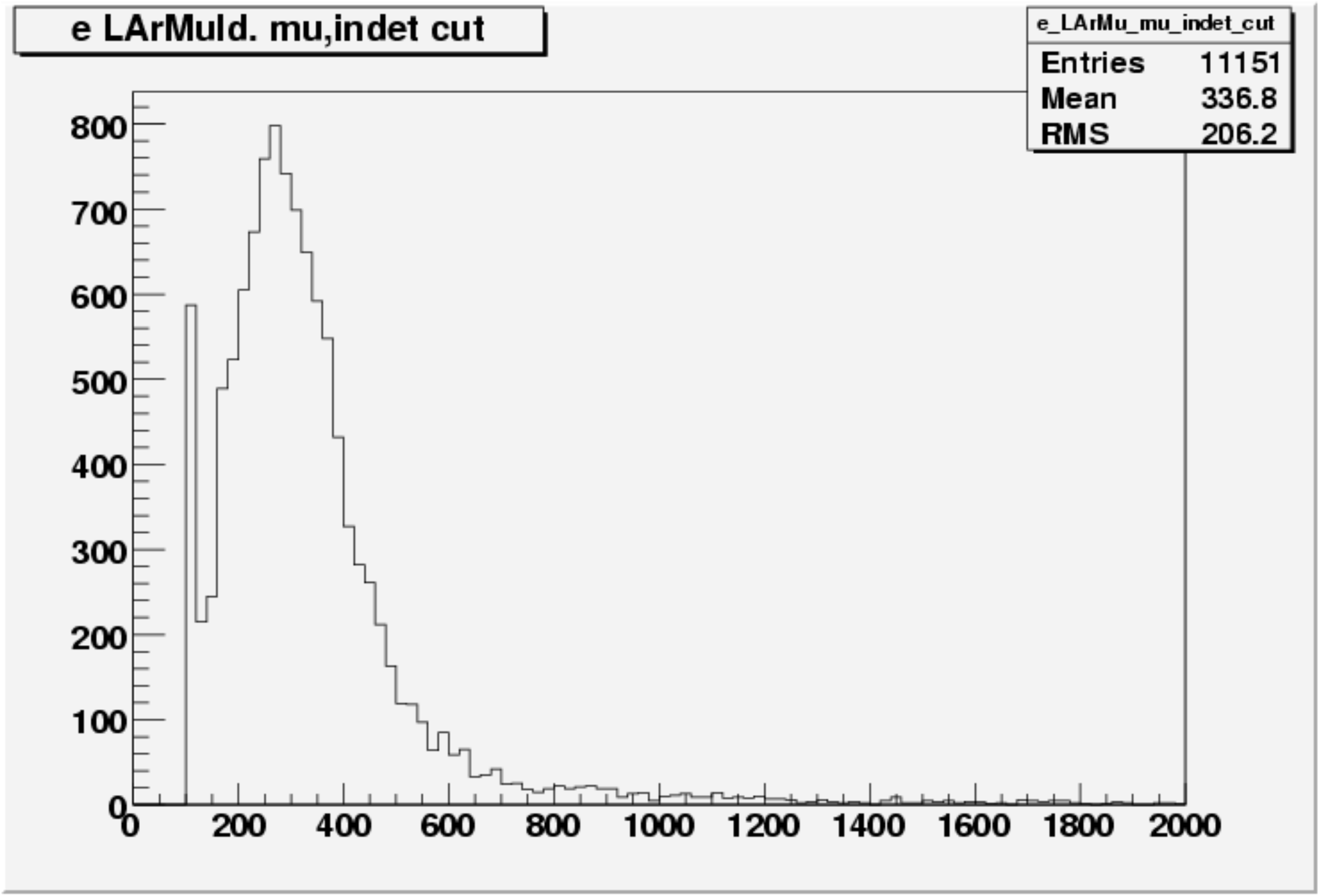
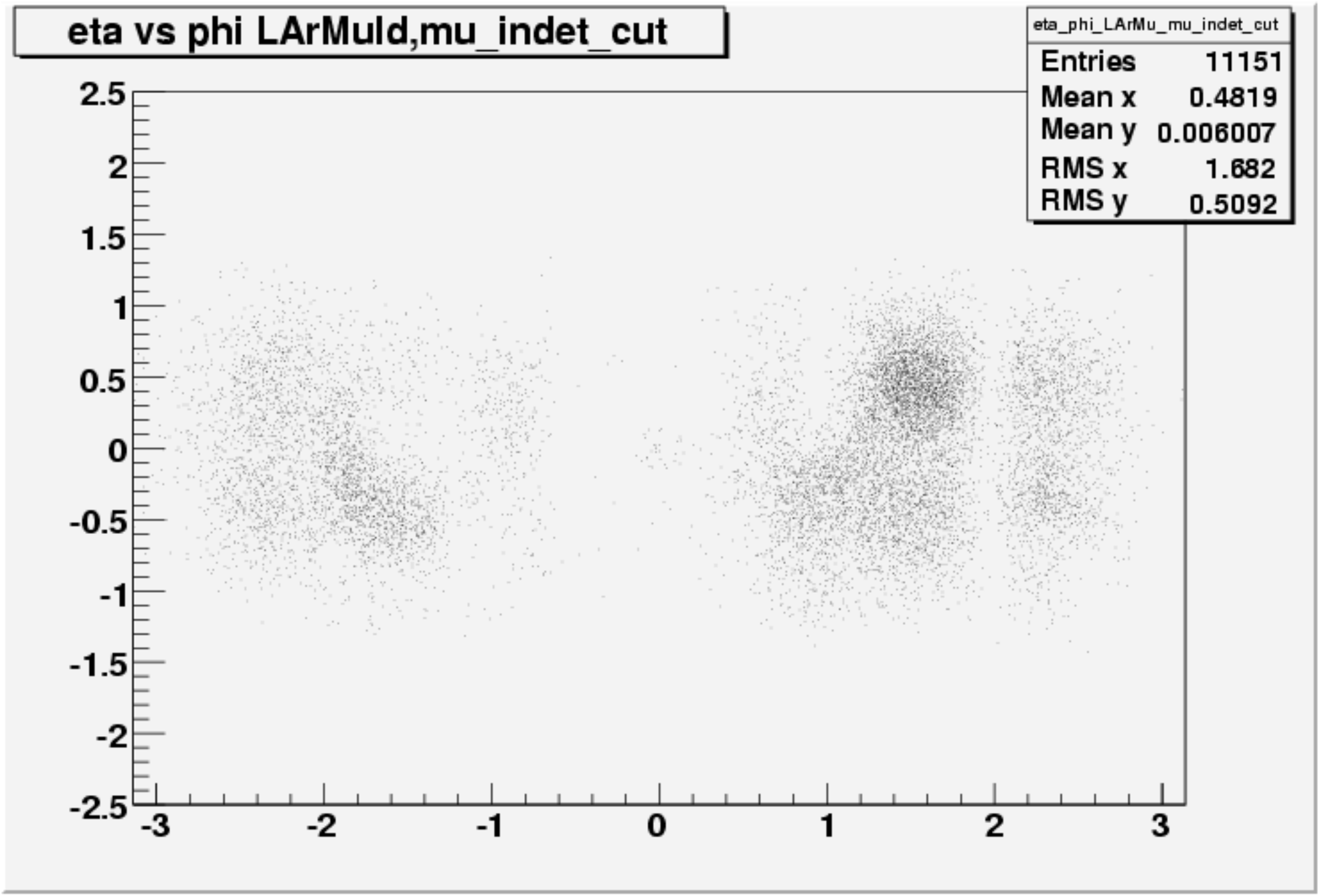
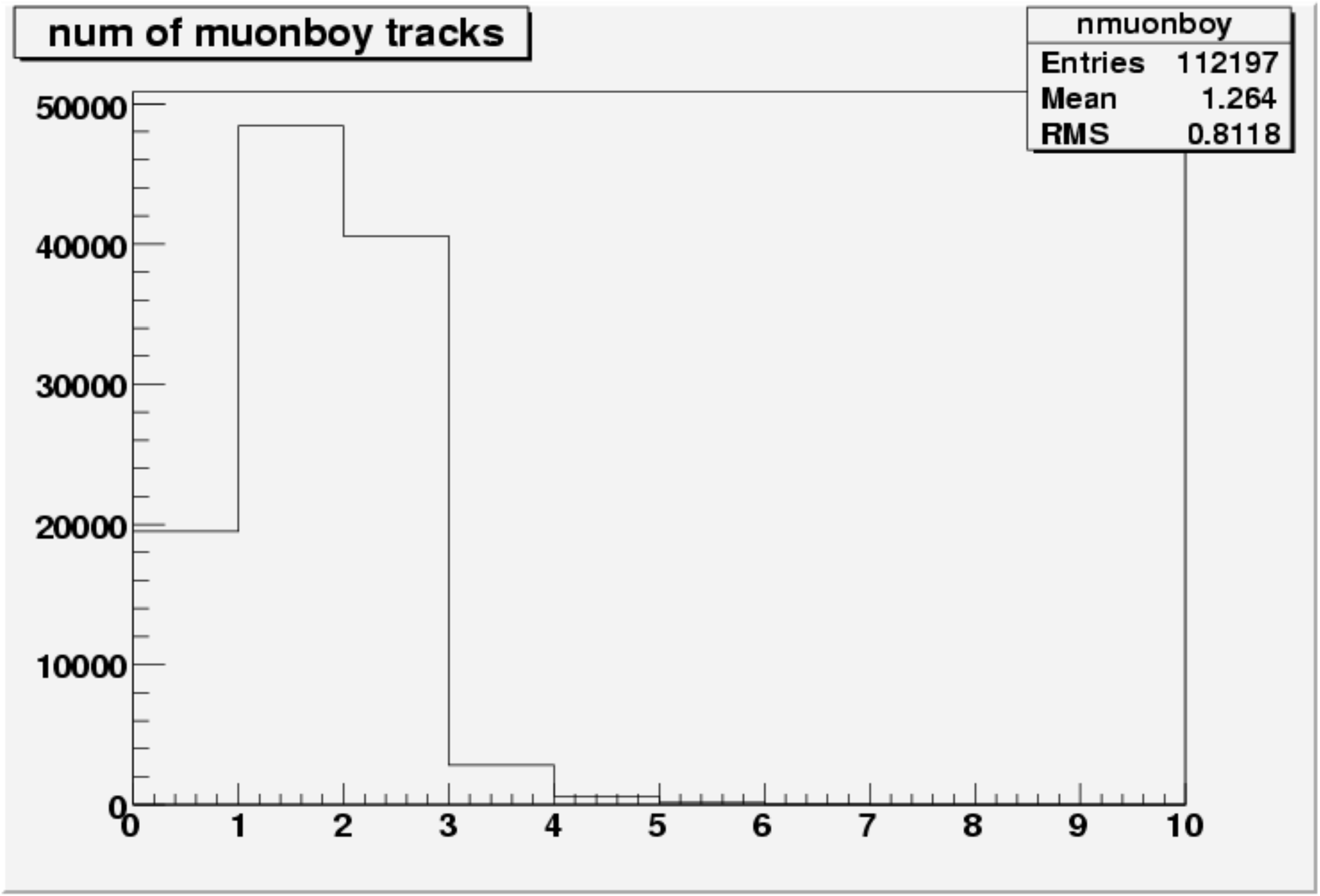

num of LArMuId,All
n_LArMu_all
Entries 112197
Mean 0.3224
RMS 0.5808
80000
70000
60000
50000
40000
30000
20000
10000
0
0
1
2
3
4
5
6
7
8
9
10

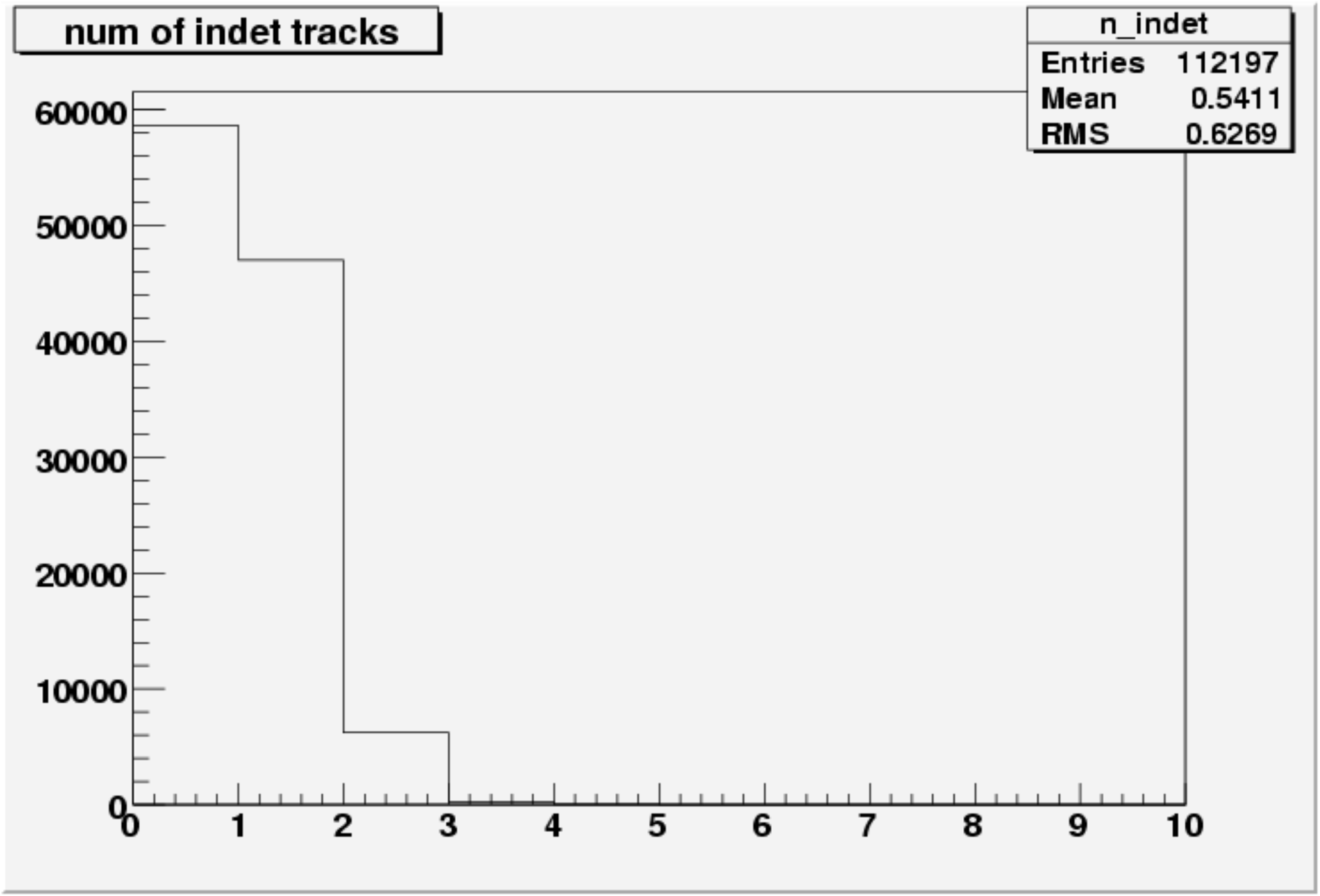

e LArMuId,All
e_LArMu_all
Entries 35607
Mean 331.6
RMS 228.4
3500
3000
2500
2000
1500
1000
500
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000

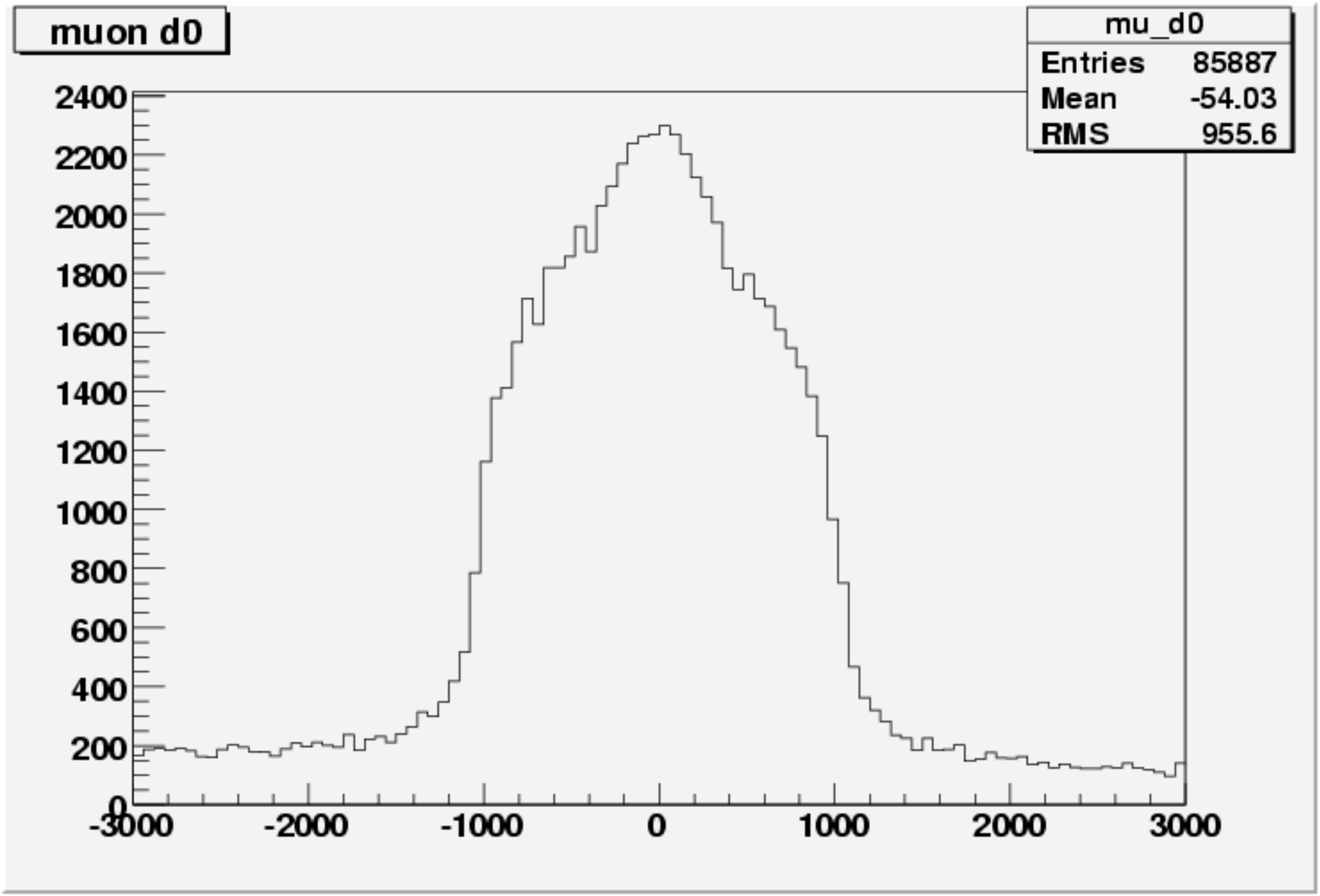

eta vs phi LArMuld,All
eta_phi_LArMu_all
Entries 35607
Mean x 0.438
Mean y -0.007292
RMS x 1.666
RMS y 0.529
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-2
-1
0
1
2
3

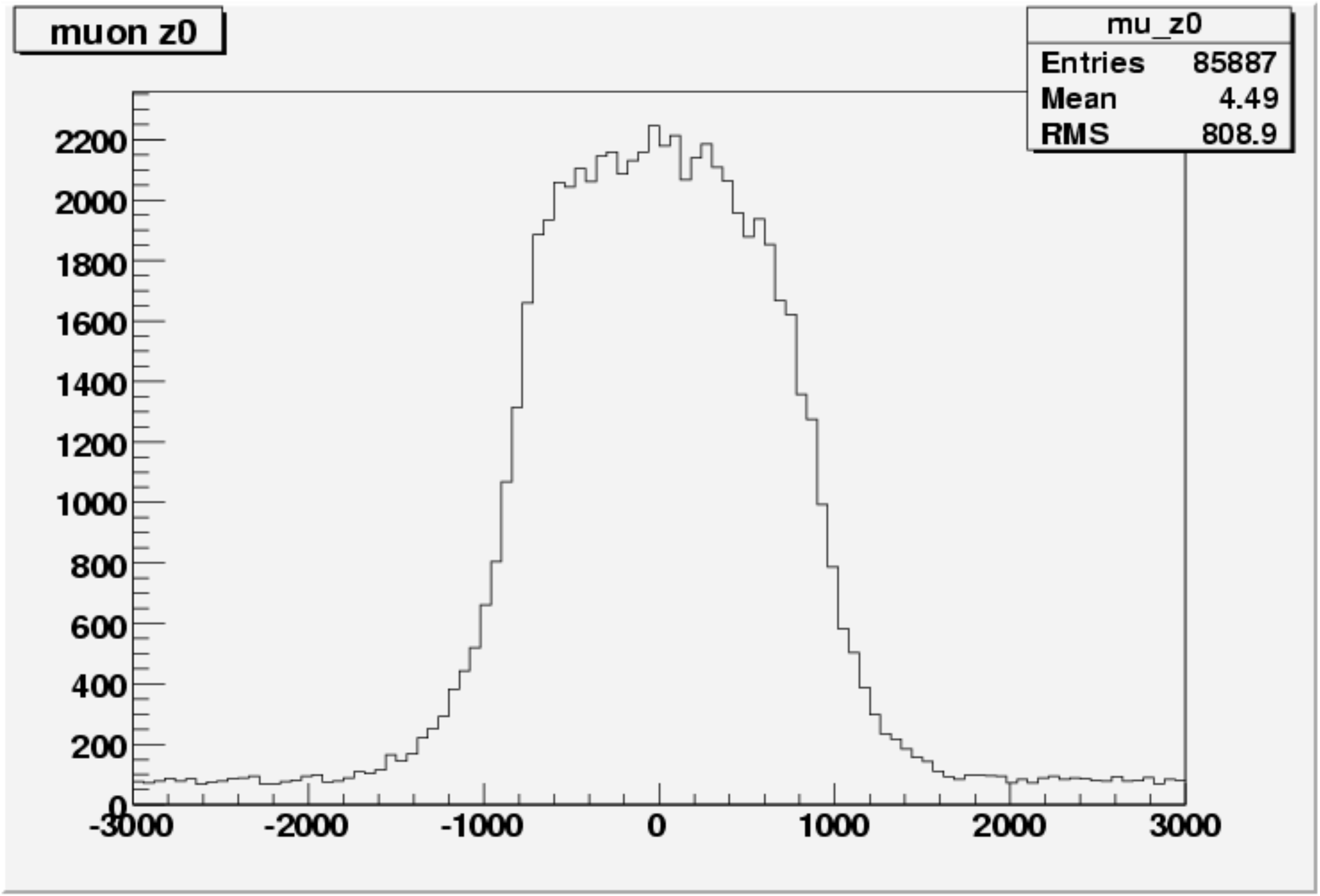

e LArMuld. mu,indet cut
e_LArMu_mu_indet_cut
Entries 11151
Mean 336.8
RMS 206.2
800
700
600
500
400
300
200
100
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000

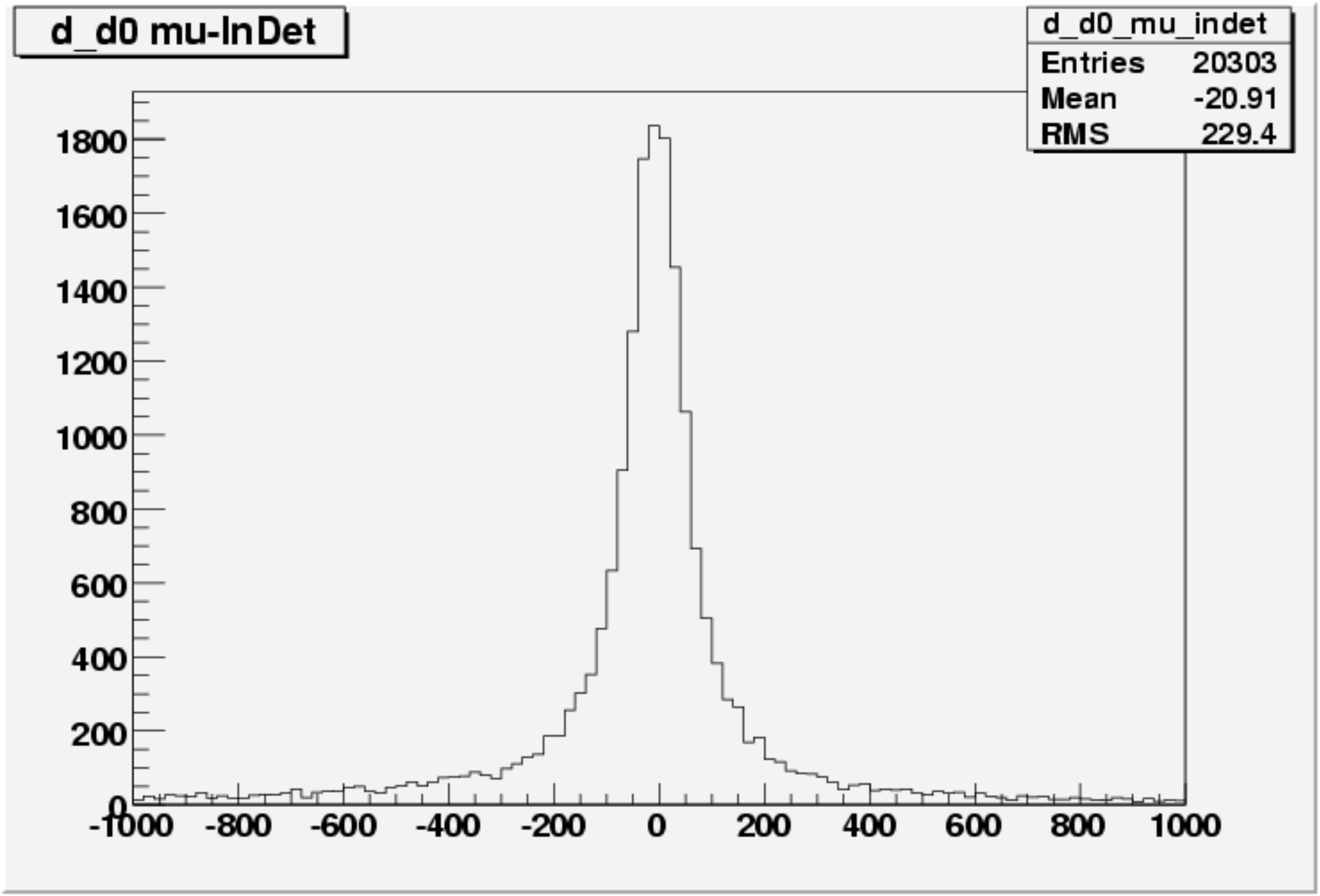

eta vs phi LArMuId,mu_indet_cut
eta_phi_LArMu_mu_indet_cut
Entries 11151
Mean x 0.4819
Mean y 0.006007
RMS x 1.682
RMS y 0.5092
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-2
-1
0
1
2
3

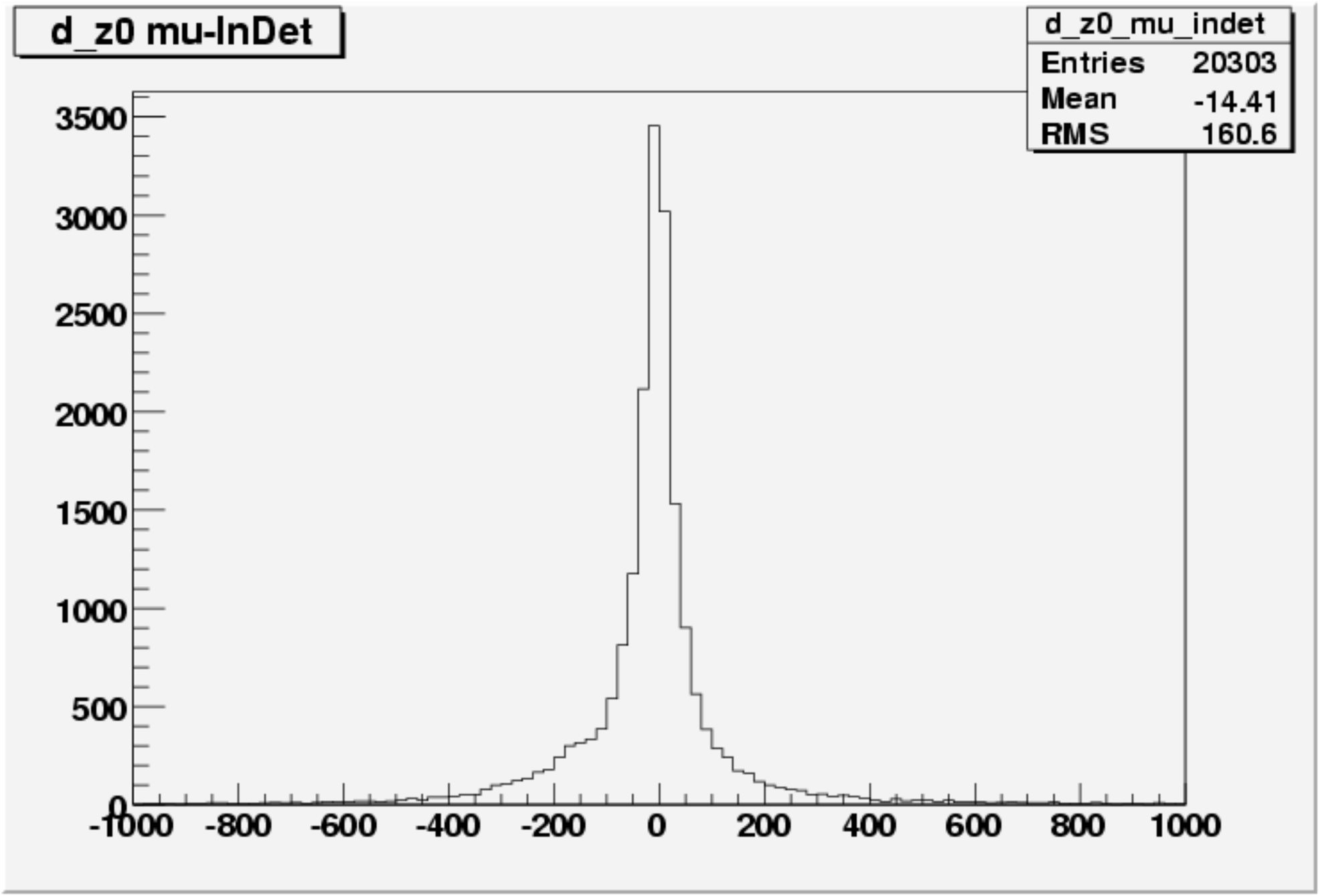

num of muonboy tracks
nmuonboy
Entries 112197
Mean 1.264
RMS 0.8118
50000
40000
30000
20000
10000
0
0
1
2
3
4
5
6
7
8
9
10

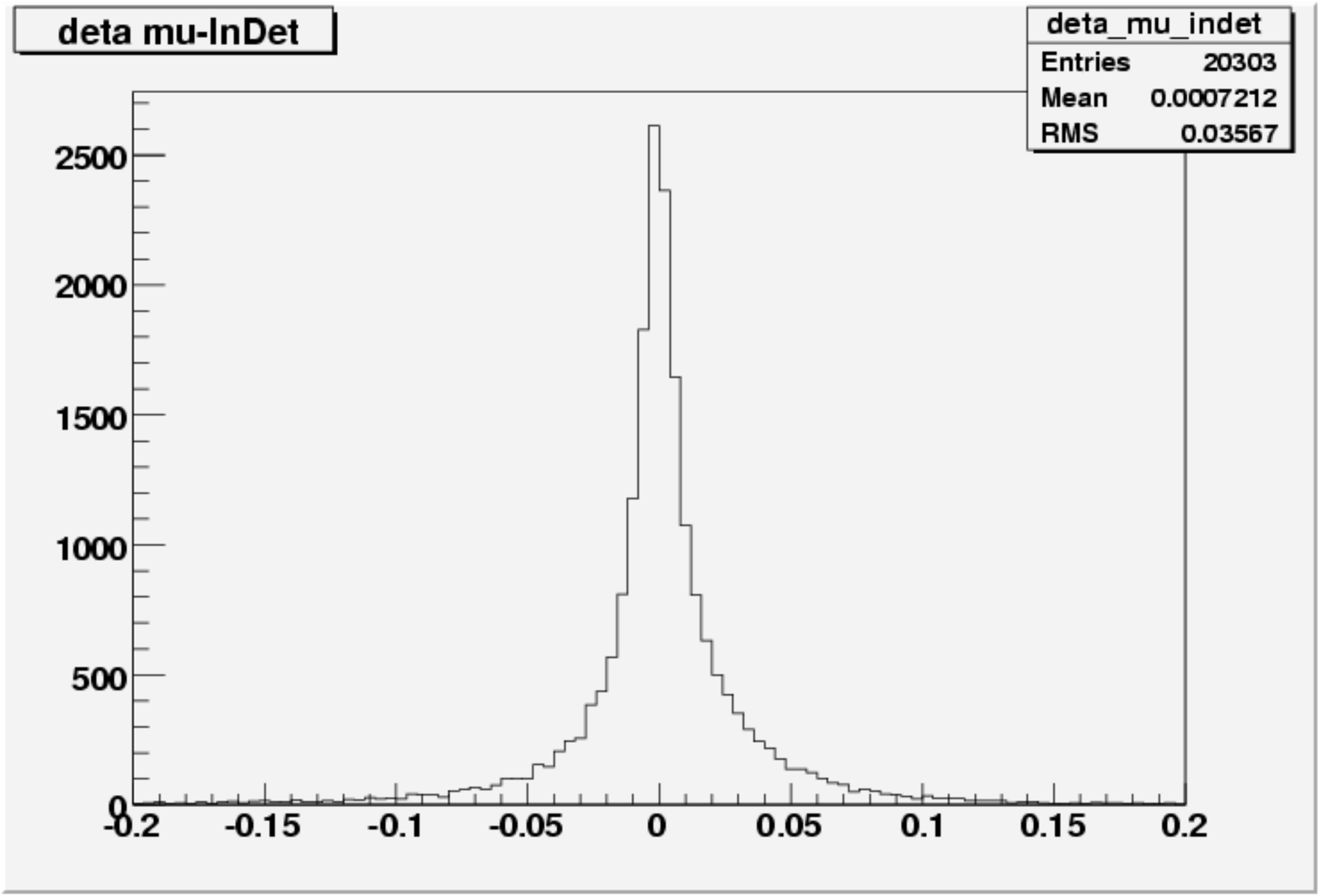

num of indet tracks
n_indet
Entries 112197
Mean 0.5411
RMS 0.6269
60000
50000
40000
30000
20000
10000
0
0
1
2
3
4
5
6
7
8
9
10

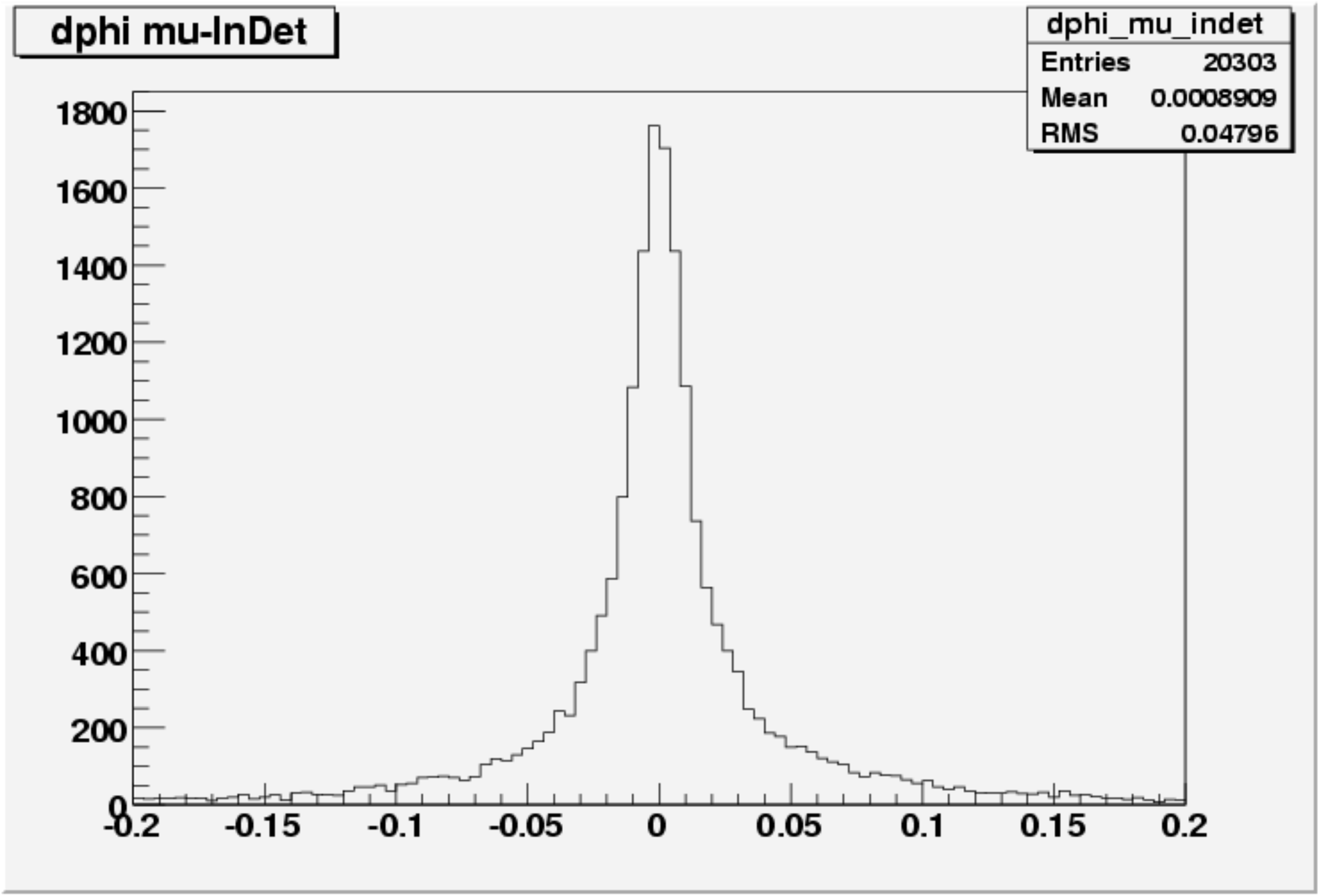

muon d0
mu_d0
Entries 85887
Mean -54.03
RMS 955.6
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-3000
-2000
-1000
0
1000
2000
3000

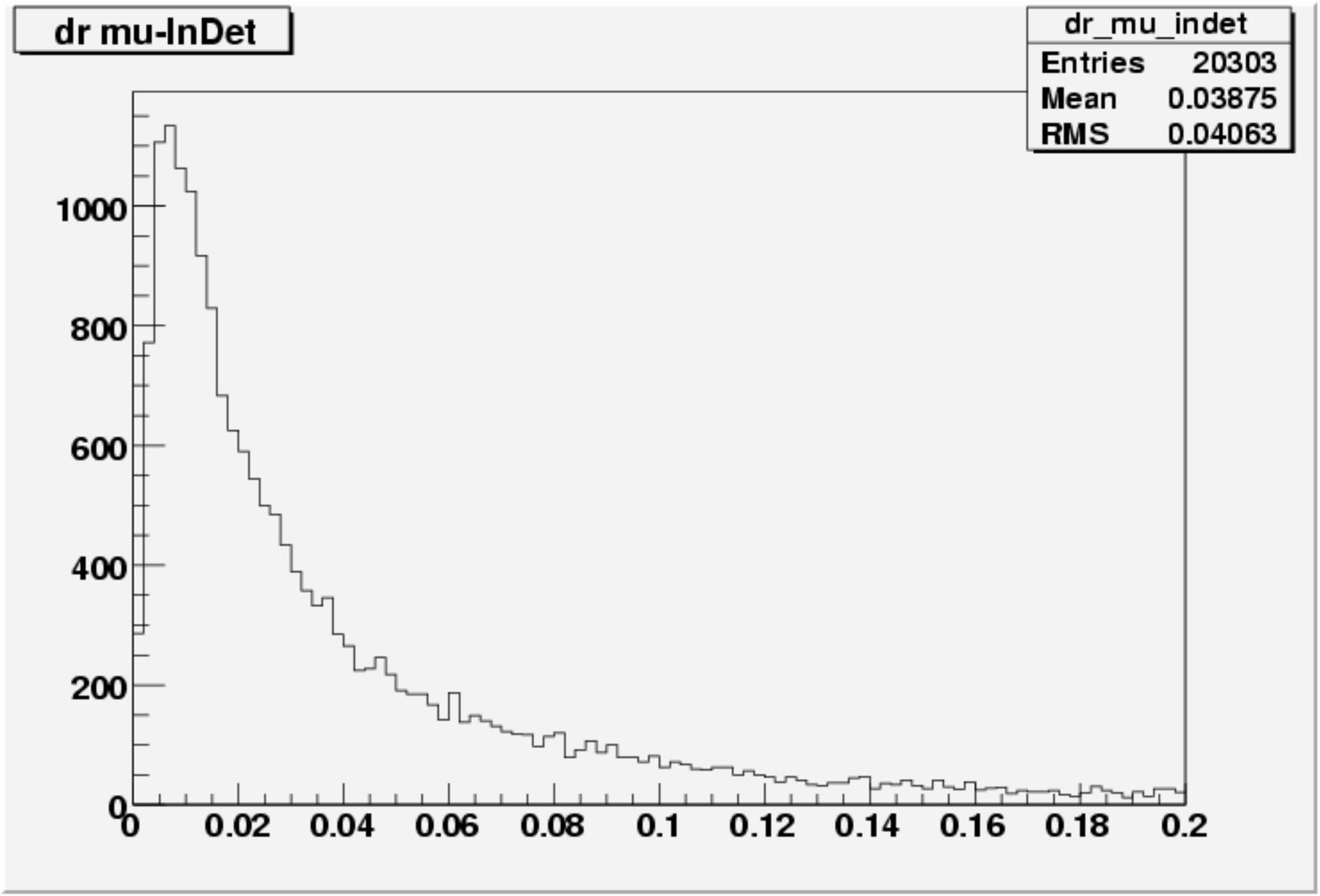

muon z0
mu_z0
Entries 85887
Mean 4.49
RMS 808.9
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-3000
-2000
-1000
0
1000
2000
3000


d_d0 mu-InDet
d_d0_mu_indet
Entries 20303
Mean -20.91
RMS 229.4
1800
1600
1400
1200
1000
800
600
400
200
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000


d_z0 mu-InDet
d_z0_mu_indet
Entries 20303
Mean -14.41
RMS 160.6
3500
3000
2500
2000
1500
1000
500
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000


deta mu-InDet
deta_mu_indet
Entries 20303
Mean 0.0007212
RMS 0.03567
2500
2000
1500
1000
500
0
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2


dphi mu-InDet
dphi_mu_indet
Entries 20303
Mean 0.0008909
RMS 0.04796
1800
1600
1400
1200
1000
800
600
400
200
0
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2


dr mu-InDet
dr_mu_indet
Entries 20303
Mean 0.03875
RMS 0.04063
1000
800
600
400
200
0
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2