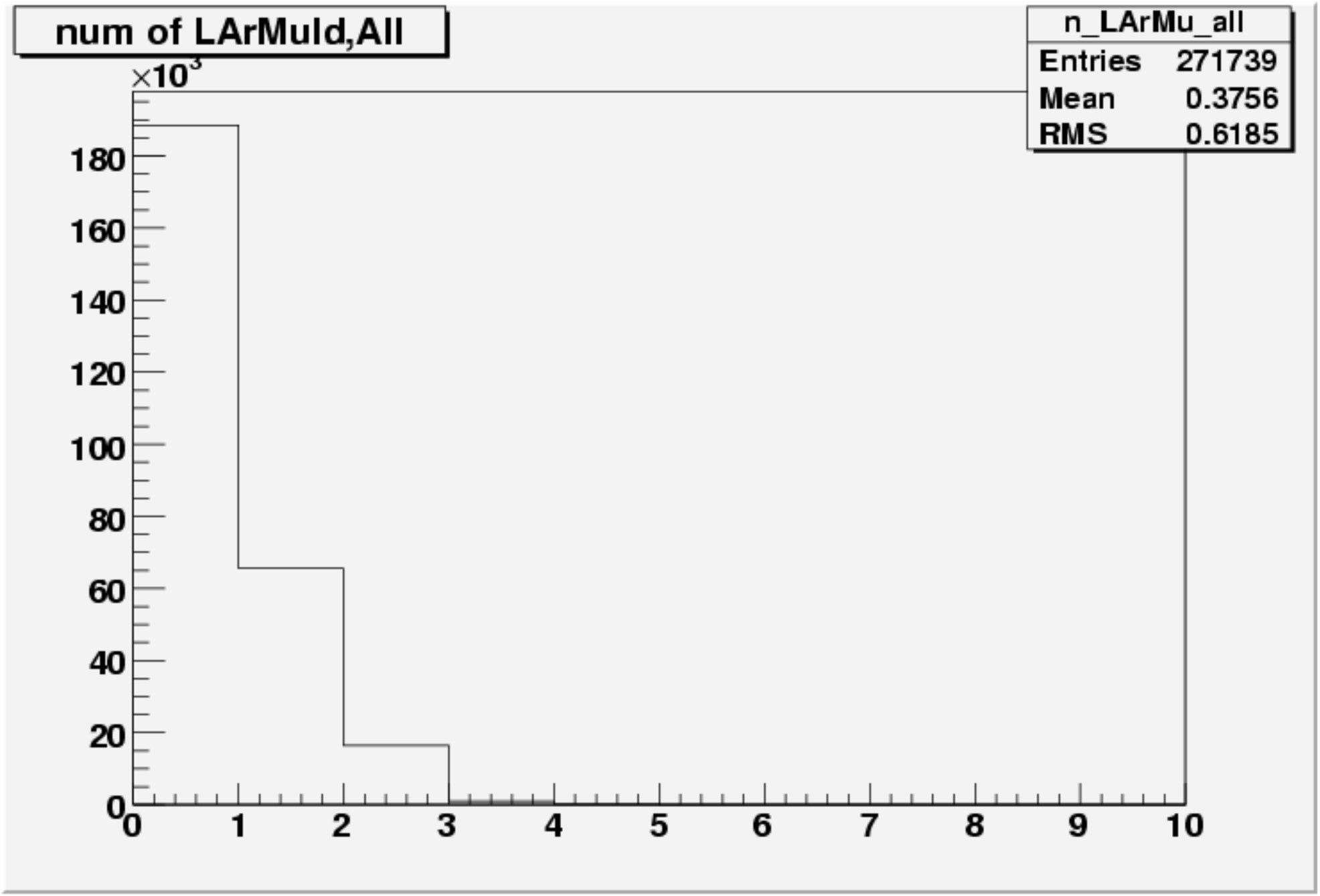
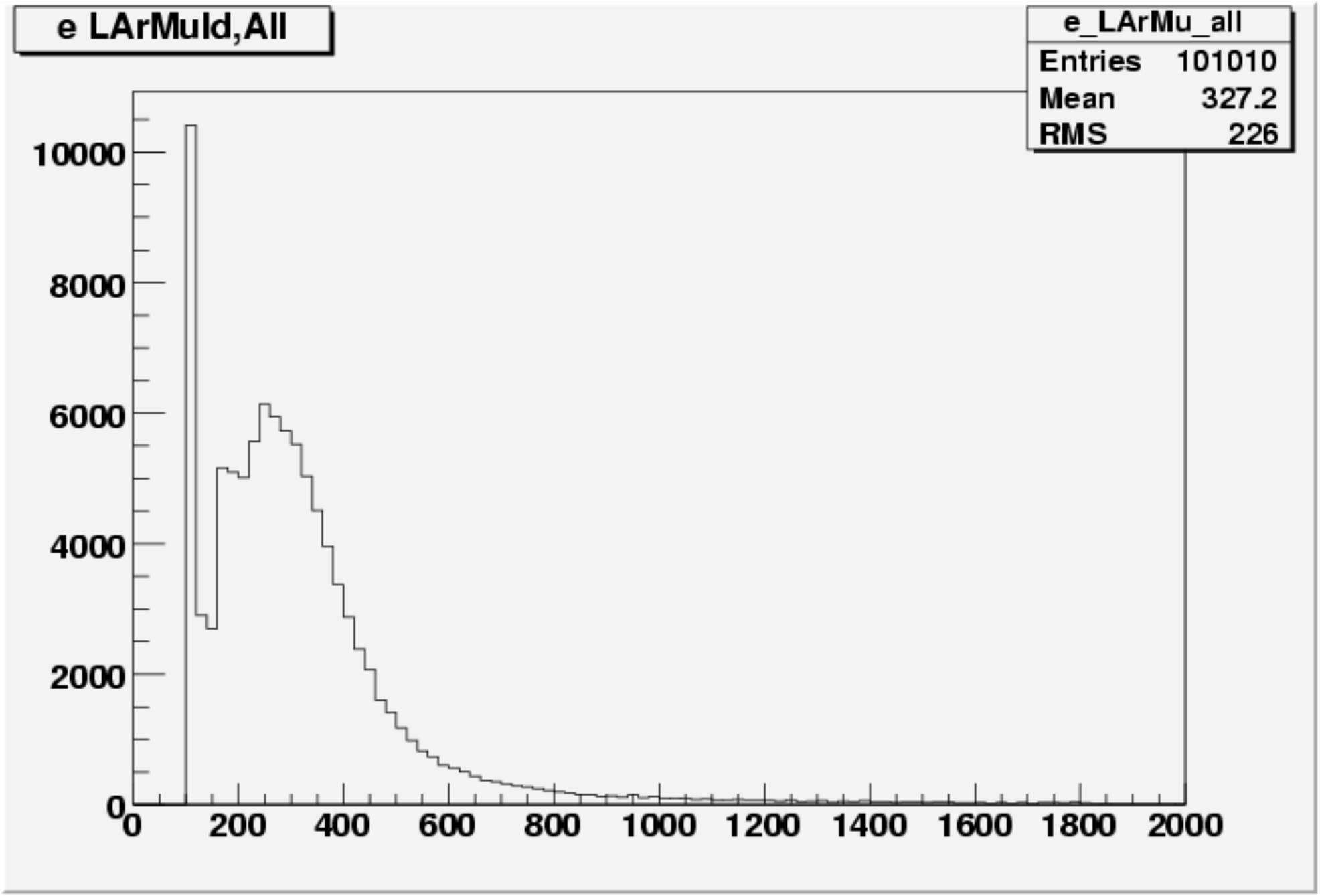
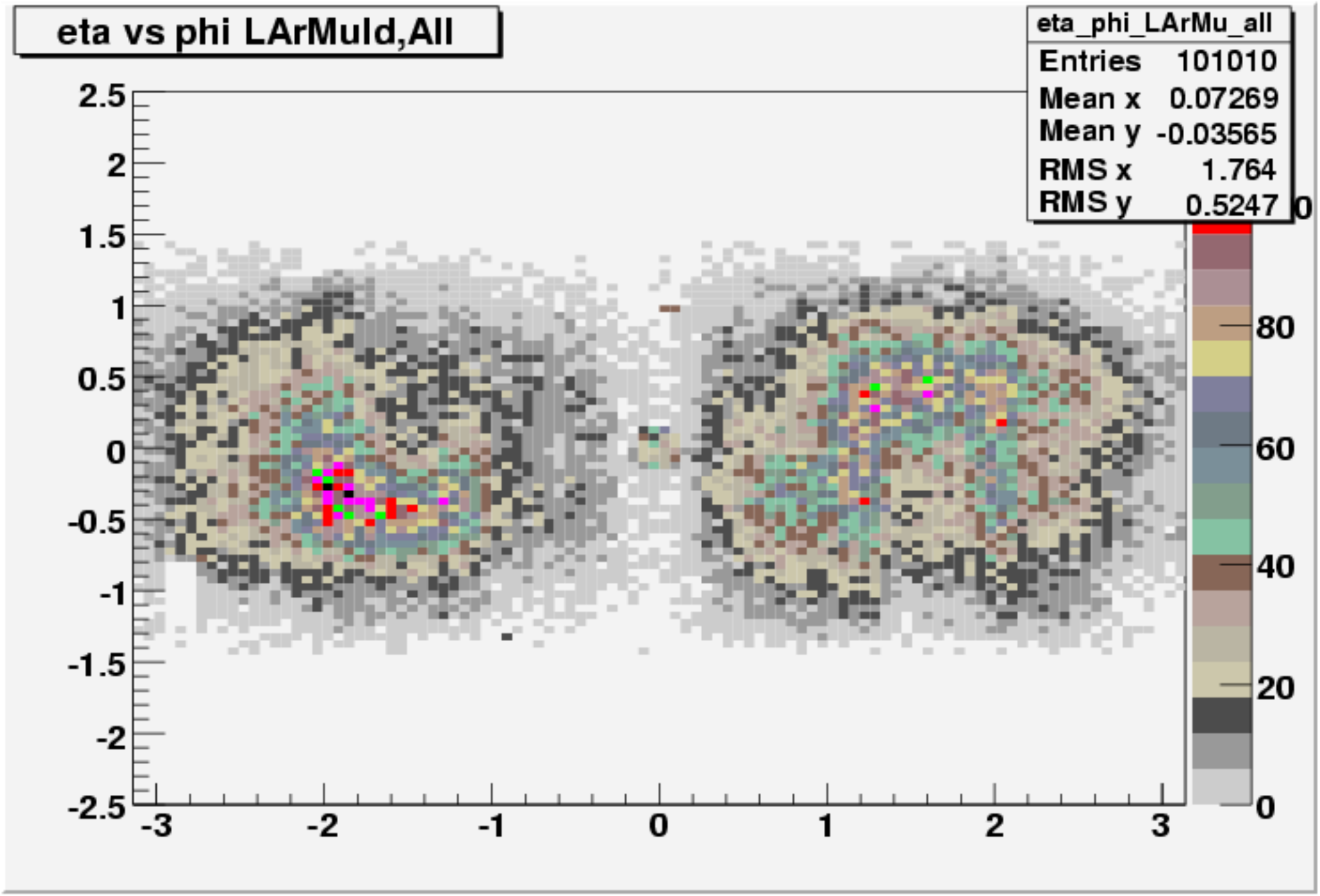
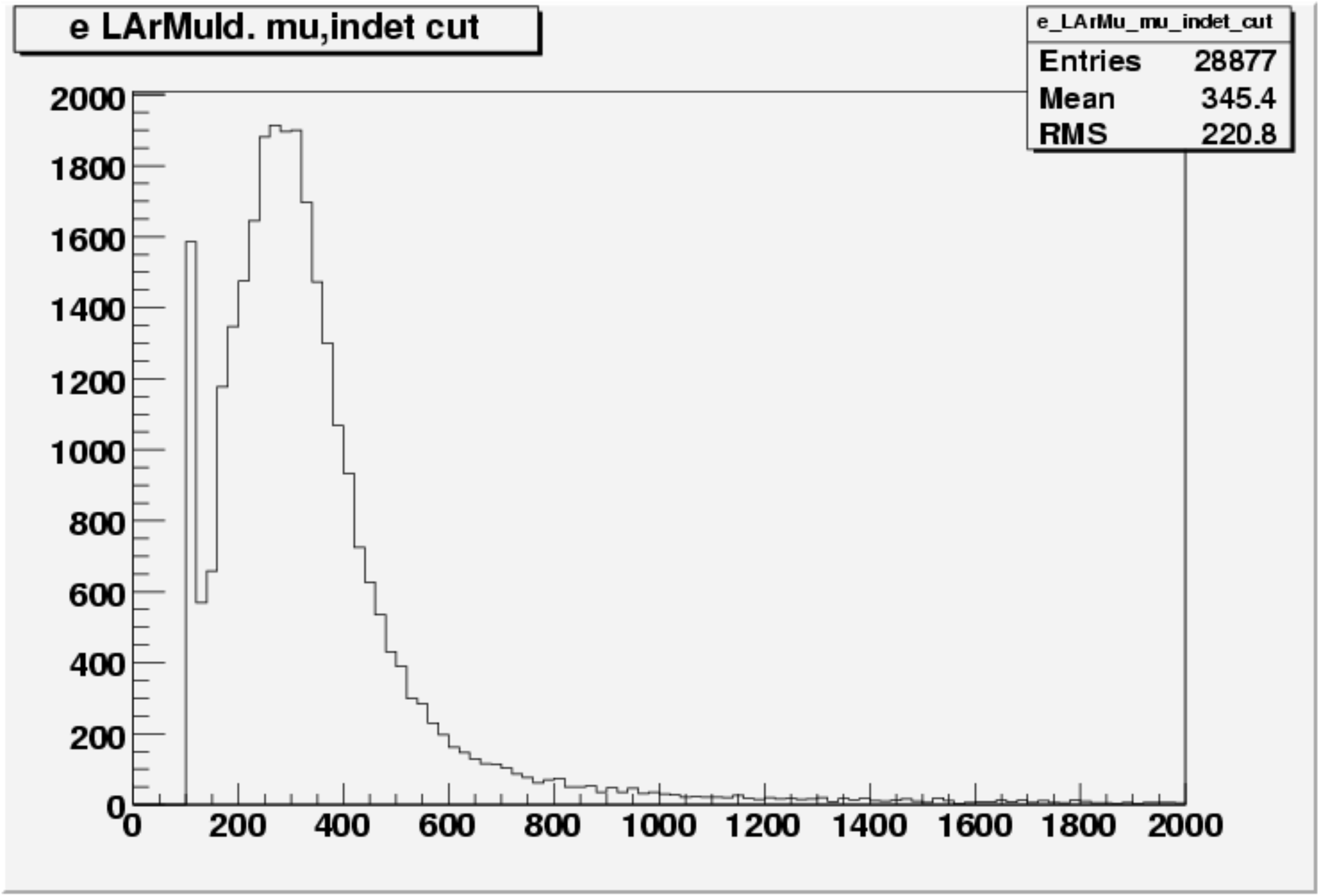
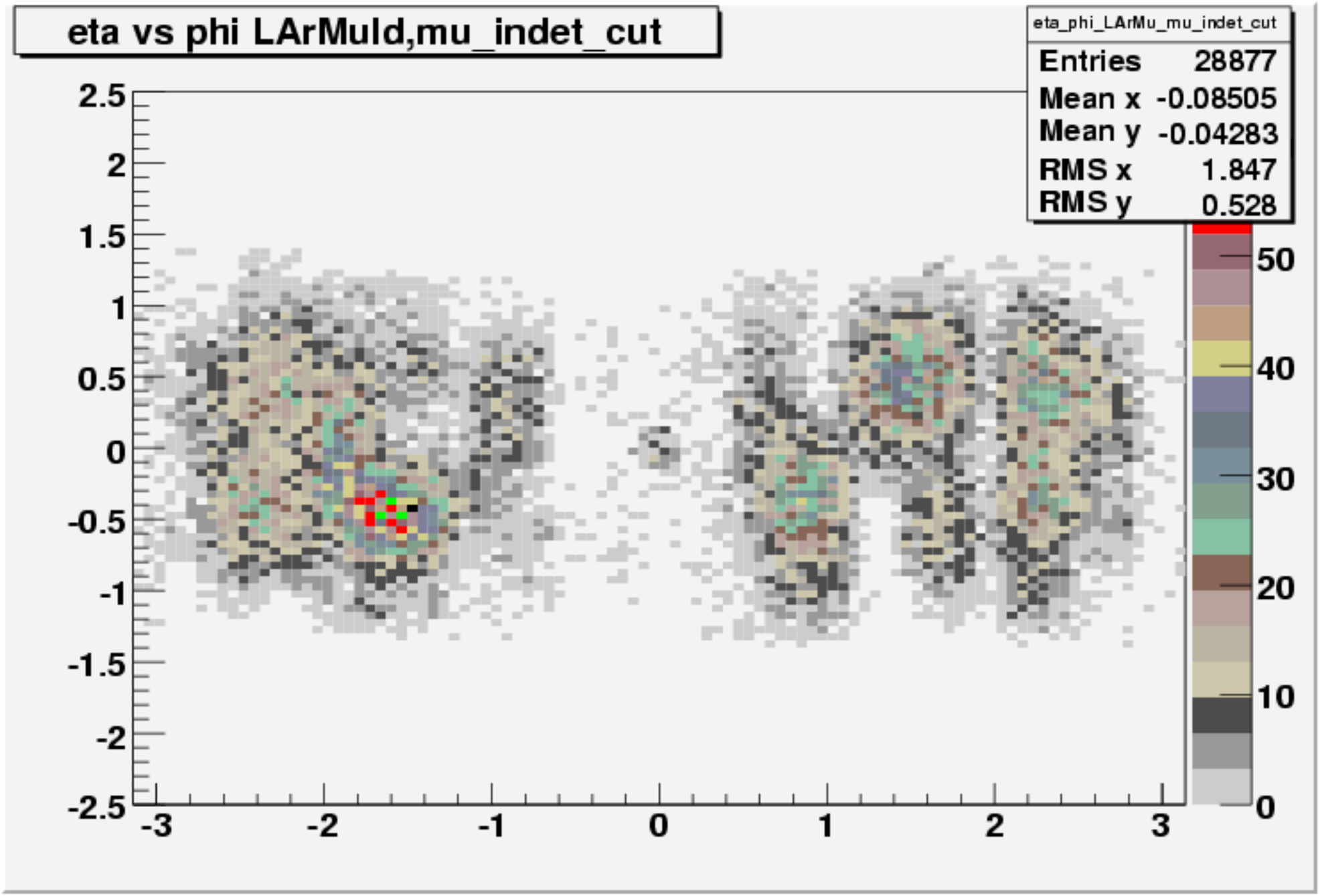
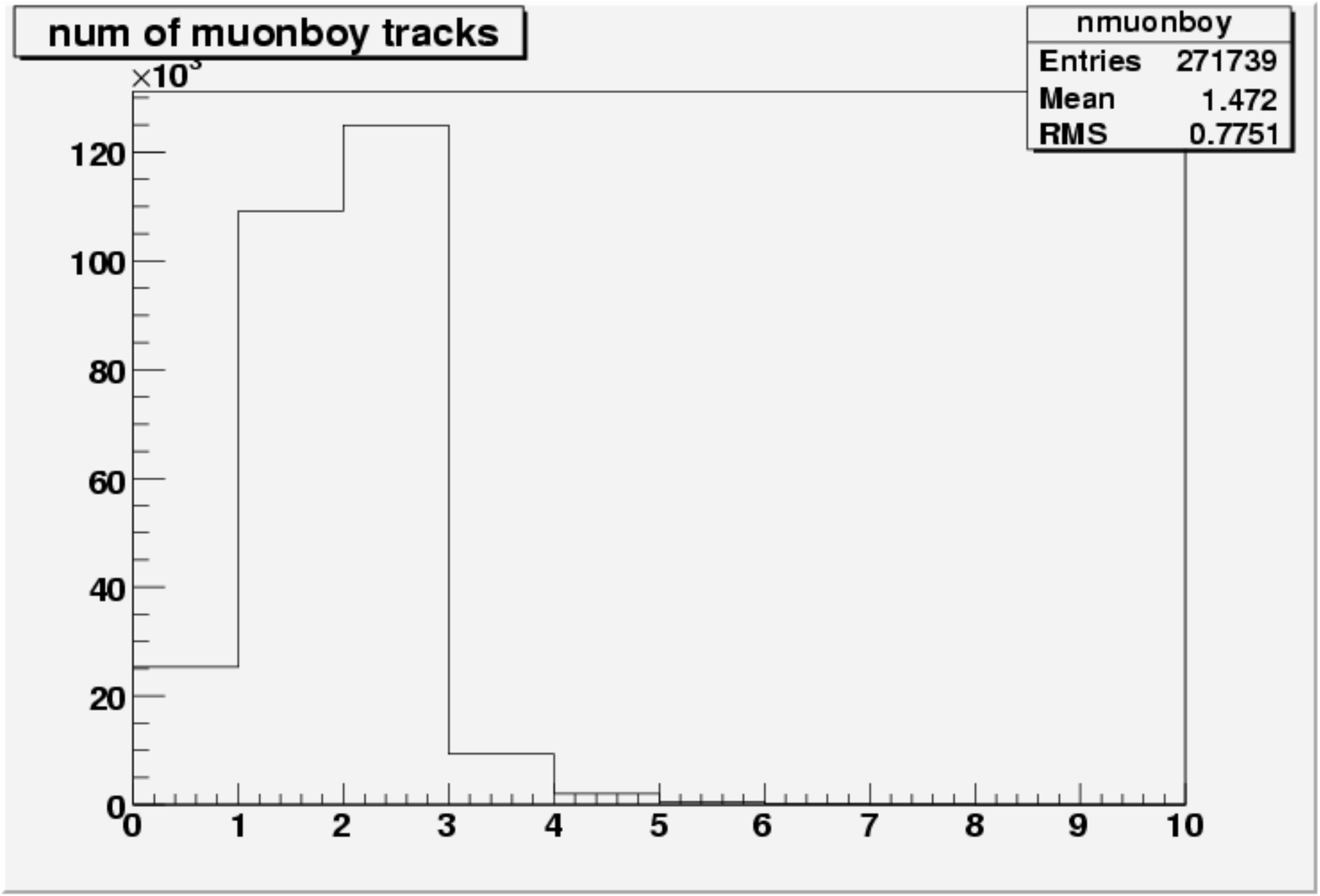

num of LArMuId,All
n_LArMu_all
Entries 271739
Mean 0.3756
RMS 0.6185
×10³
180
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
9
10

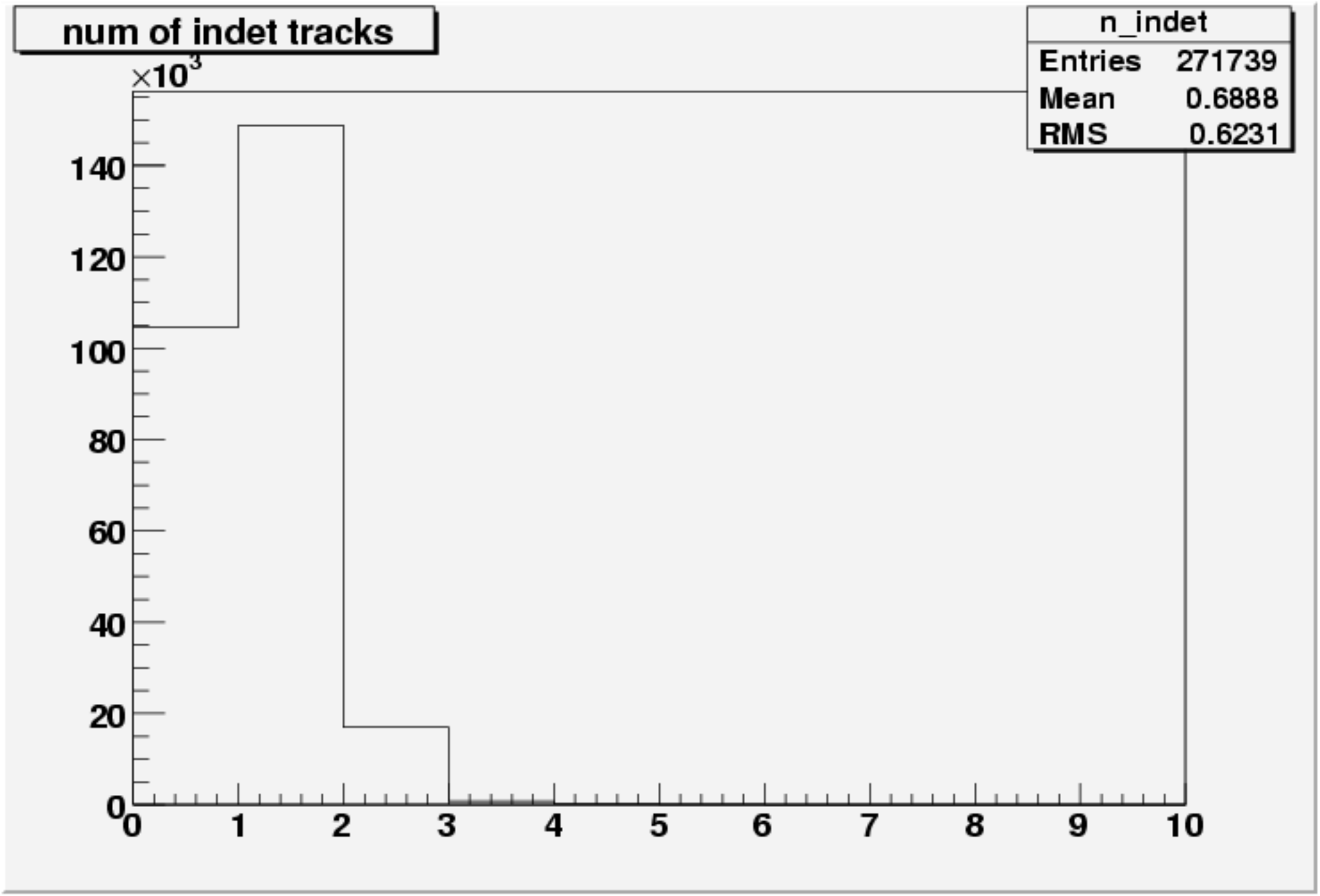

e LArMuId,All
e_LArMu_all
Entries 101010
Mean 327.2
RMS 226
10000
8000
6000
4000
2000
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000

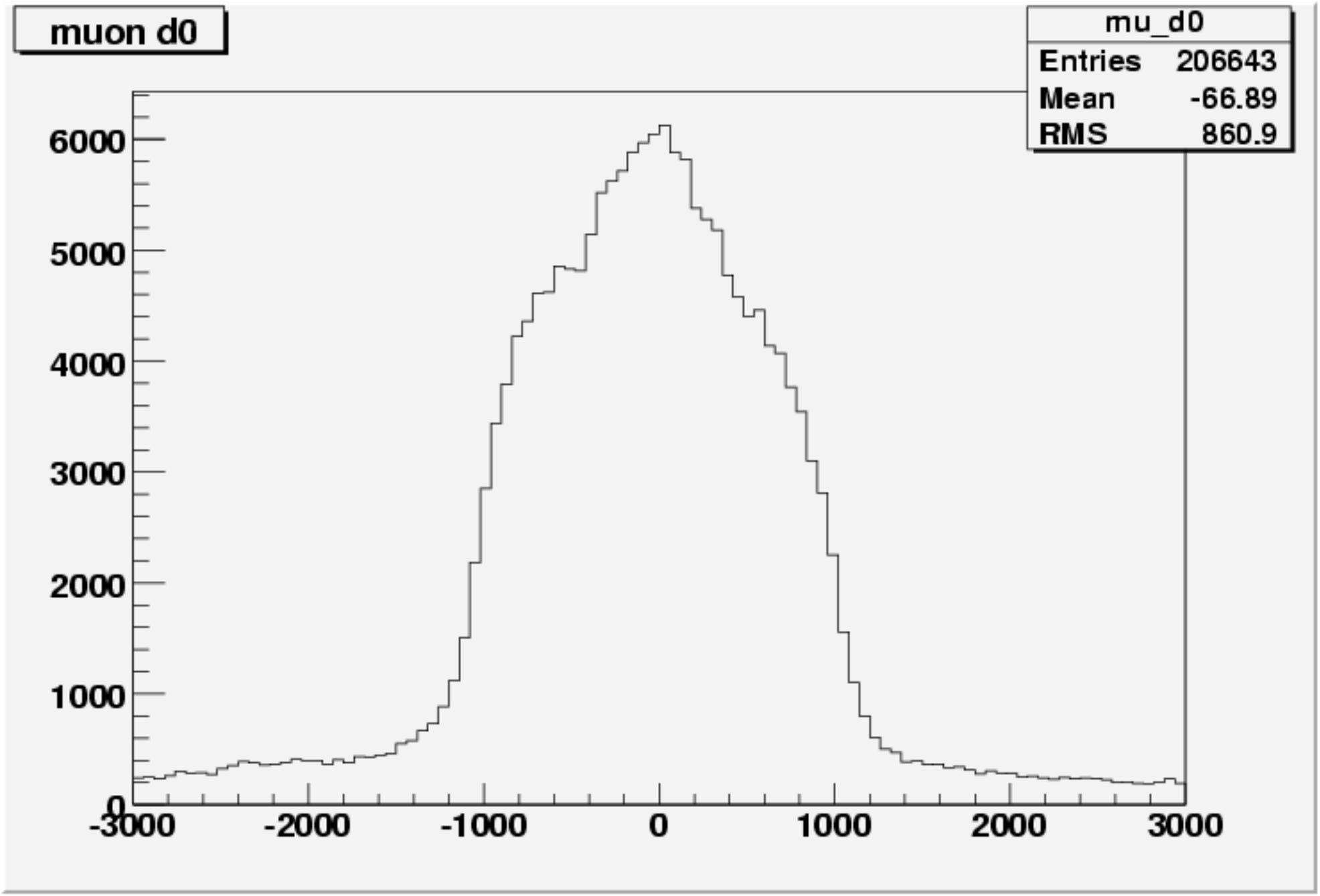

eta vs phi LArMuId,All
eta_phi_LArMu_all
Entries 101010
Mean x 0.07269
Mean y -0.03565
RMS x 1.764
RMS y 0.5247
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-2
-1
0
1
2
3
80
60
40
20
0

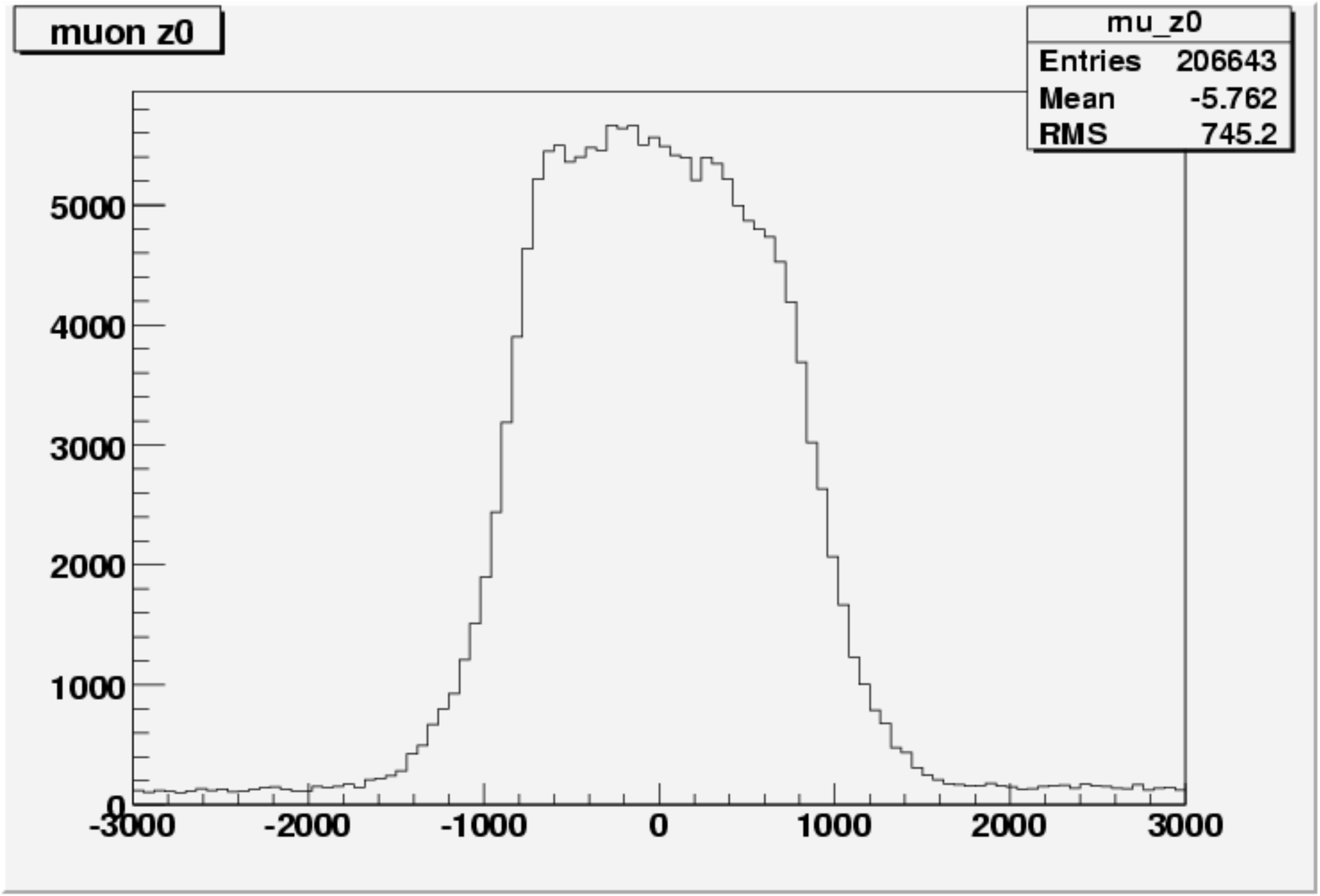

e LArMuld. mu,indet cut
e_LArMu_mu_indet_cut
Entries 28877
Mean 345.4
RMS 220.8
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000

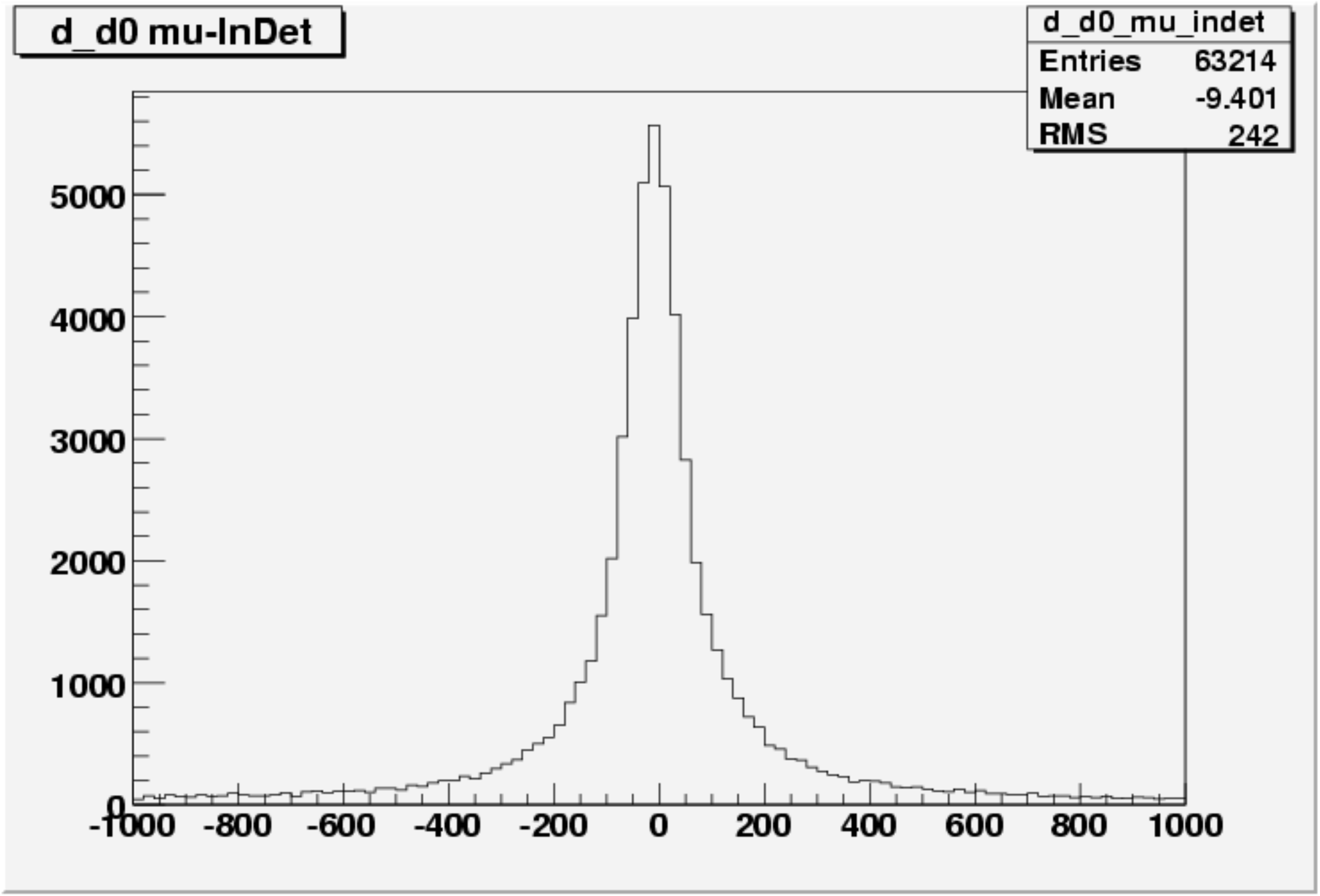

eta vs phi LArMuId,mu_indet_cut
eta_phi_LArMu_mu_indet_cut
Entries 28877
Mean x -0.08505
Mean y -0.04283
RMS x 1.847
RMS y 0.528
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-2
-1
0
1
2
3
50
40
30
20
10
0

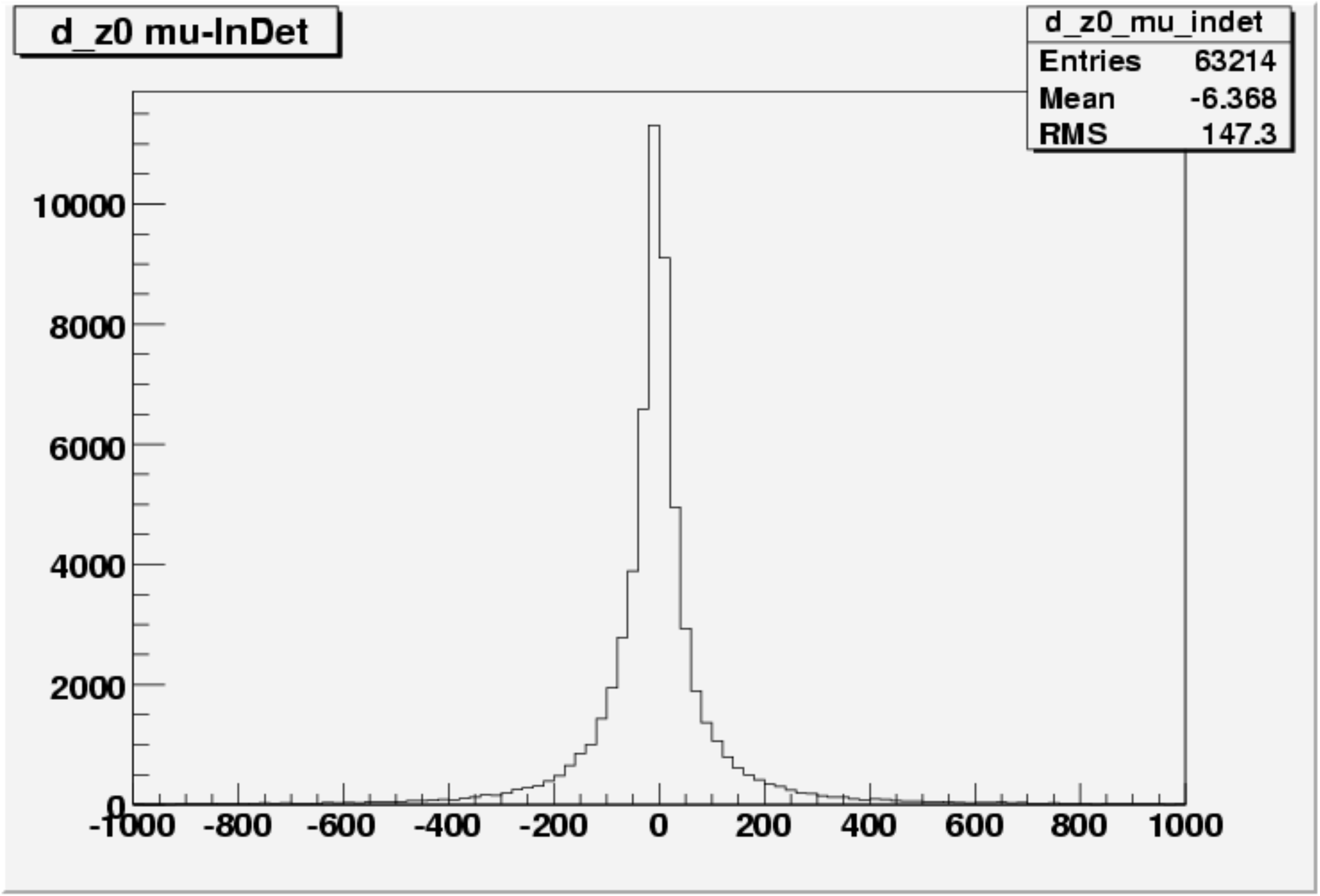

num of muonboy tracks
nmuonboy
Entries 271739
Mean 1.472
RMS 0.7751
×10³
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
9
10

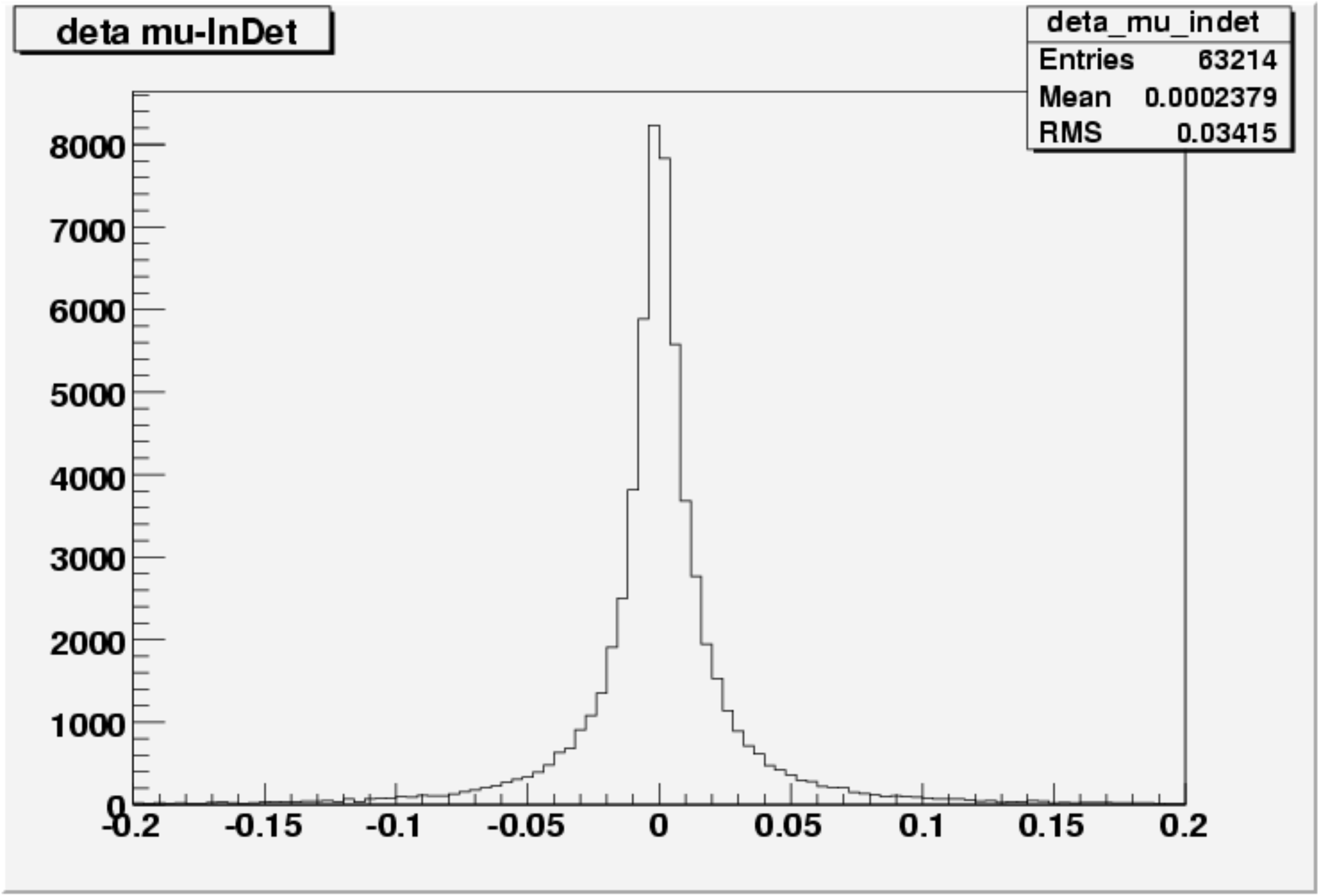

num of indet tracks
n_indet
Entries 271739
Mean 0.6888
RMS 0.6231
×10^3
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
9
10

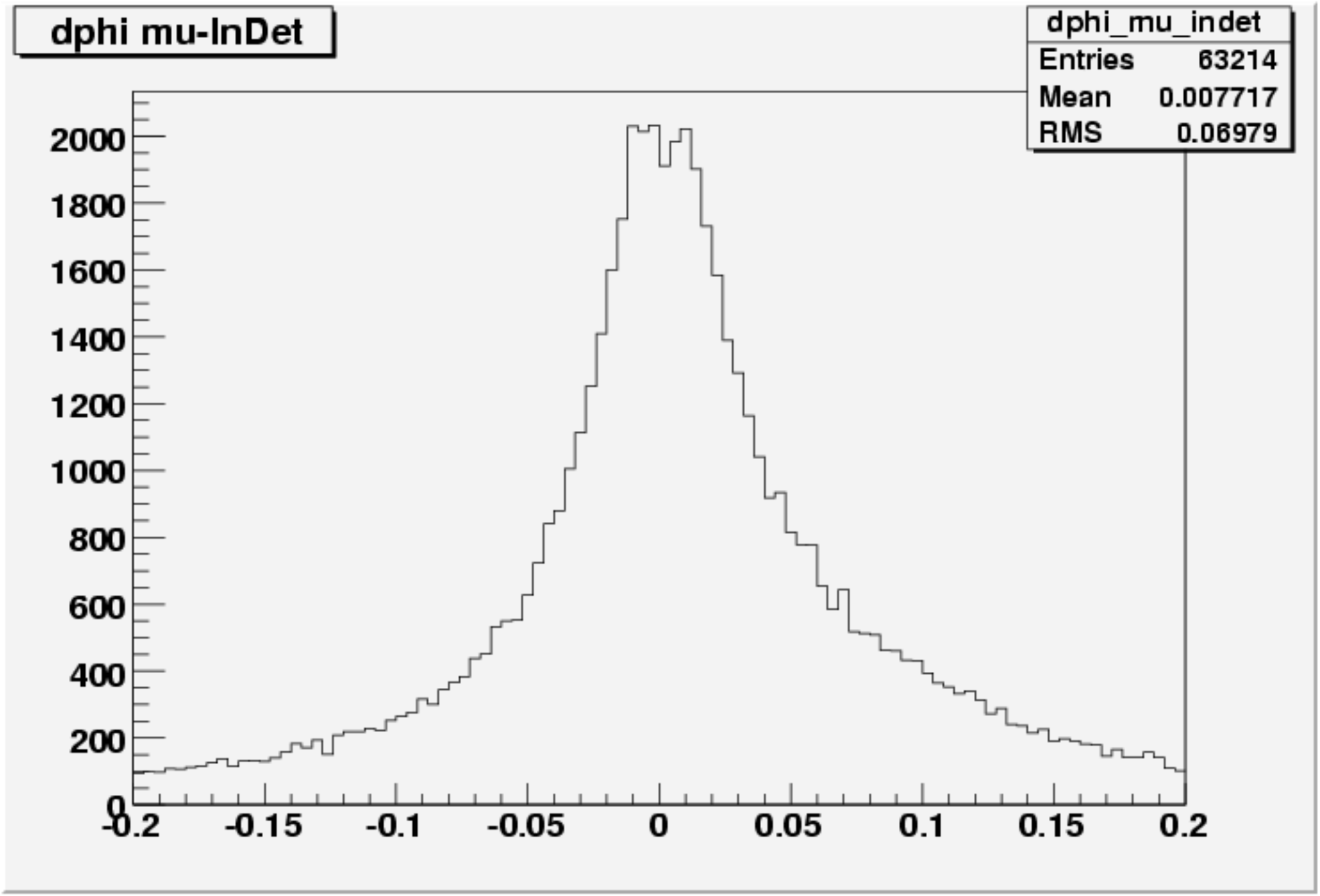

muon d0
mu_d0
Entries 206643
Mean -66.89
RMS 860.9
6000
5000
4000
3000
2000
1000
0
-3000
-2000
-1000
0
1000
2000
3000

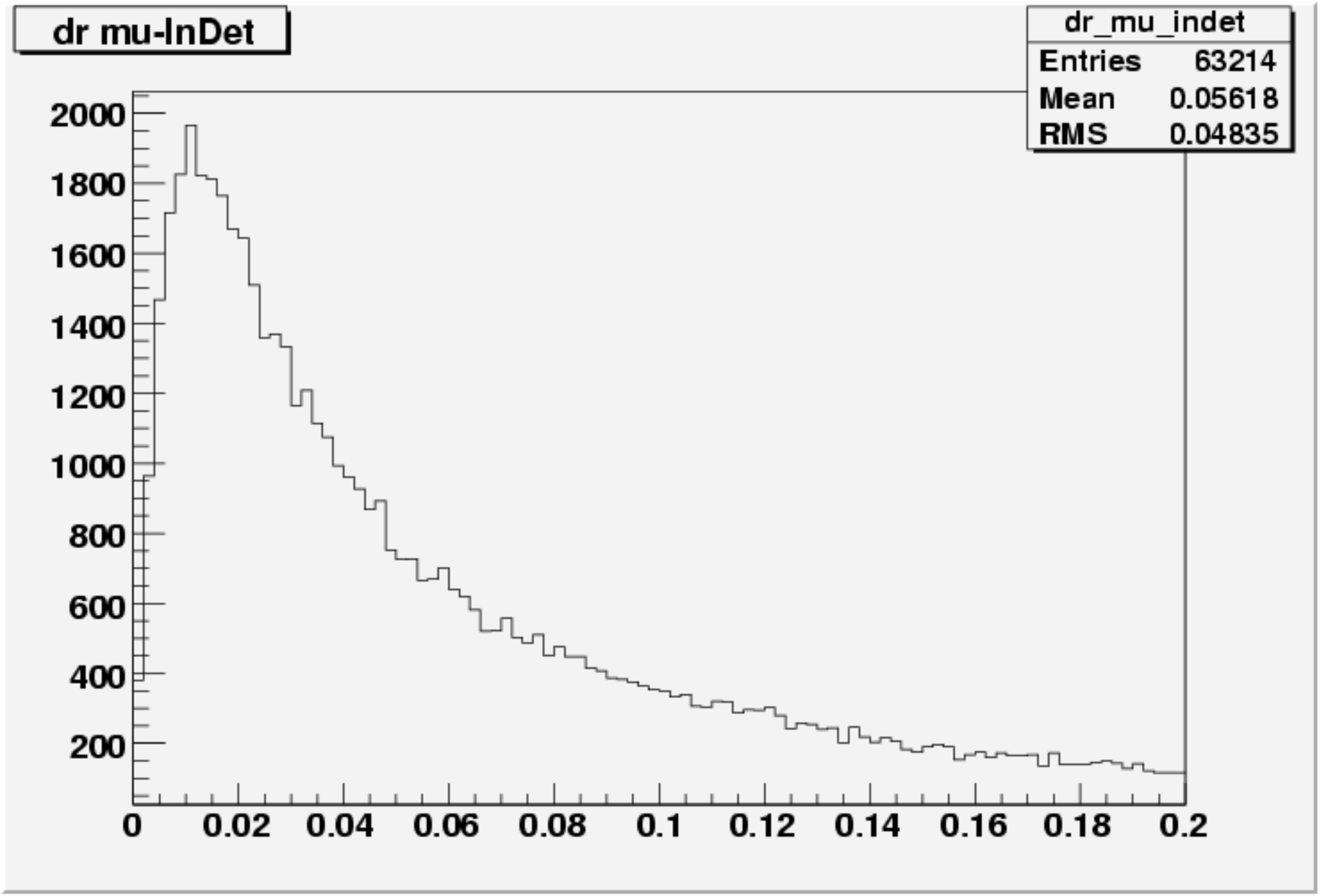

muon z0
mu_z0
Entries 206643
Mean -5.762
RMS 745.2
5000
4000
3000
2000
1000
0
-3000
-2000
-1000
0
1000
2000
3000

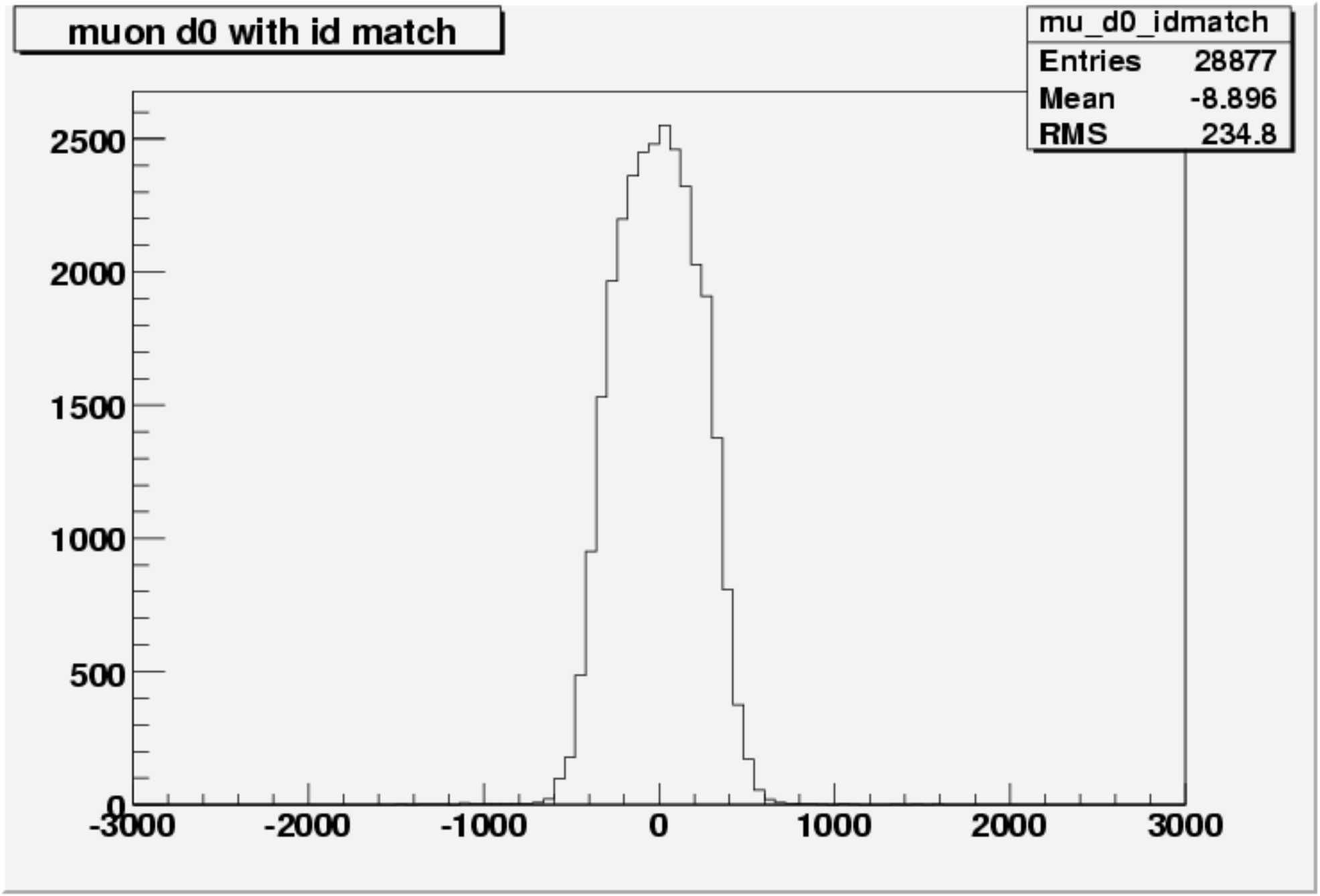

d_d0 mu-InDet
d_d0_mu_indet
Entries 63214
Mean -9.401
RMS 242
5000
4000
3000
2000
1000
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000

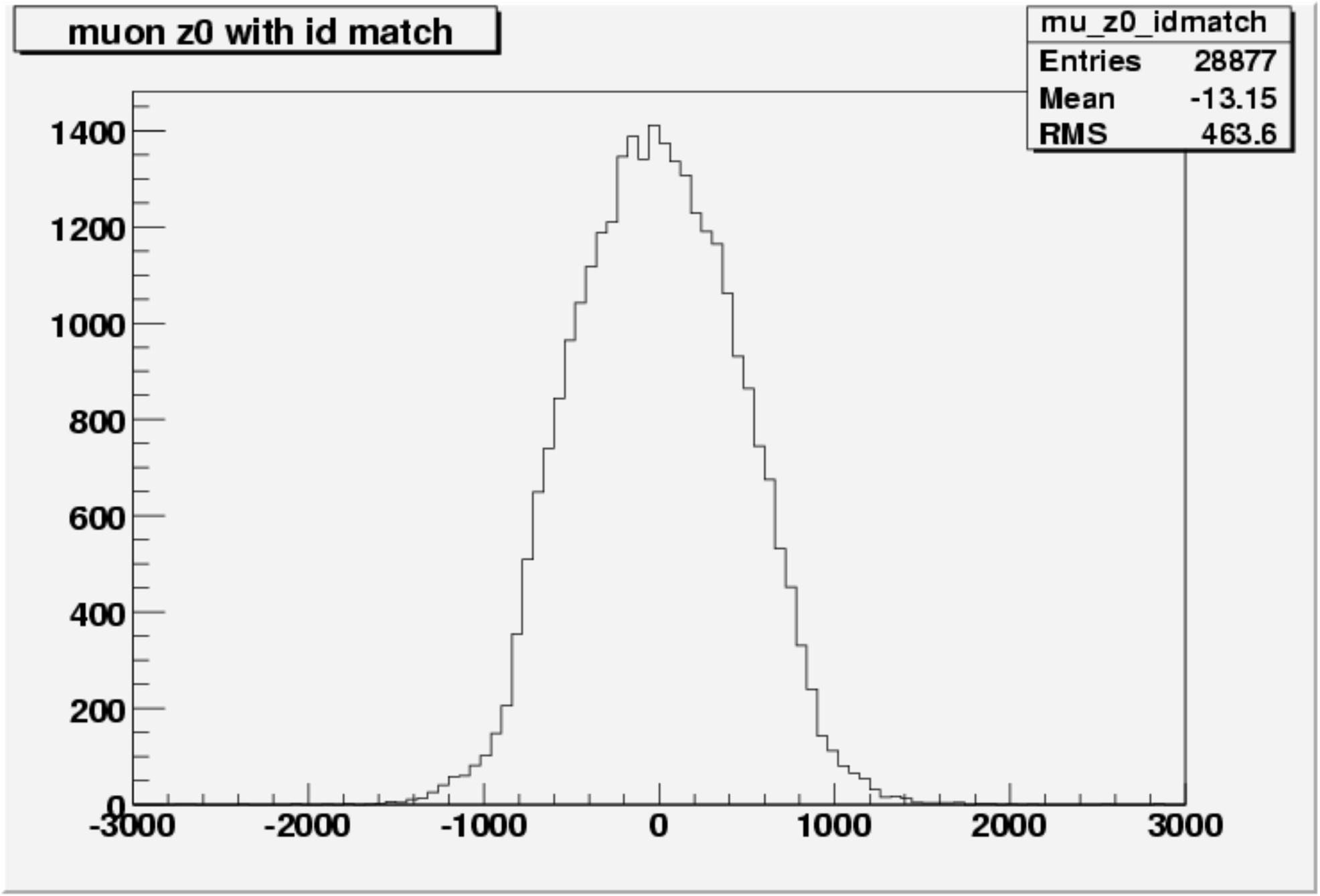

d_z0 mu-InDet
d_z0_mu_indet
Entries 63214
Mean -6.368
RMS 147.3
10000
8000
6000
4000
2000
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000

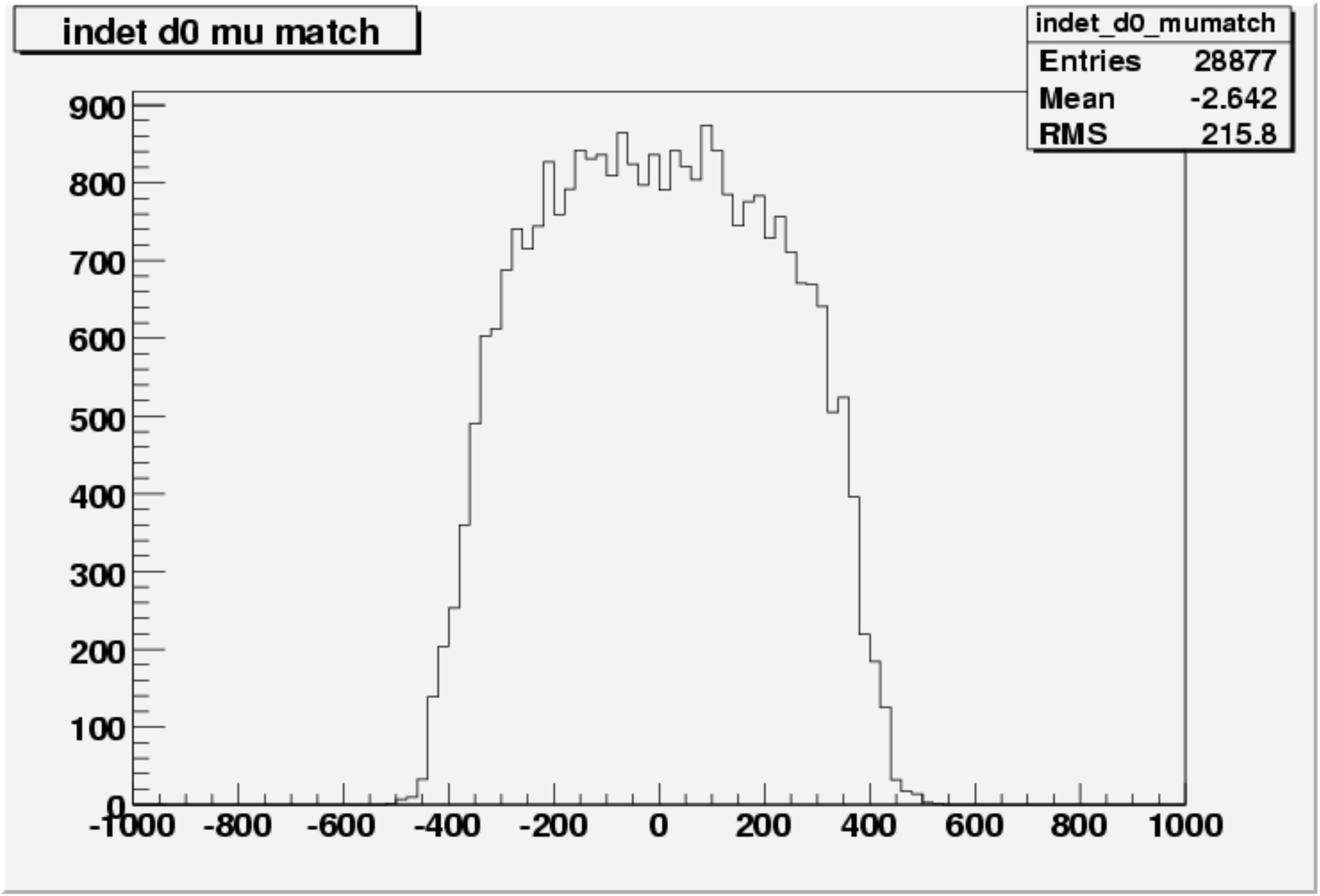

deta mu-InDet
deta_mu_indet
Entries 63214
Mean 0.0002379
RMS 0.03415
8000
7000
6000
5000
4000
3000
2000
1000
0
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2

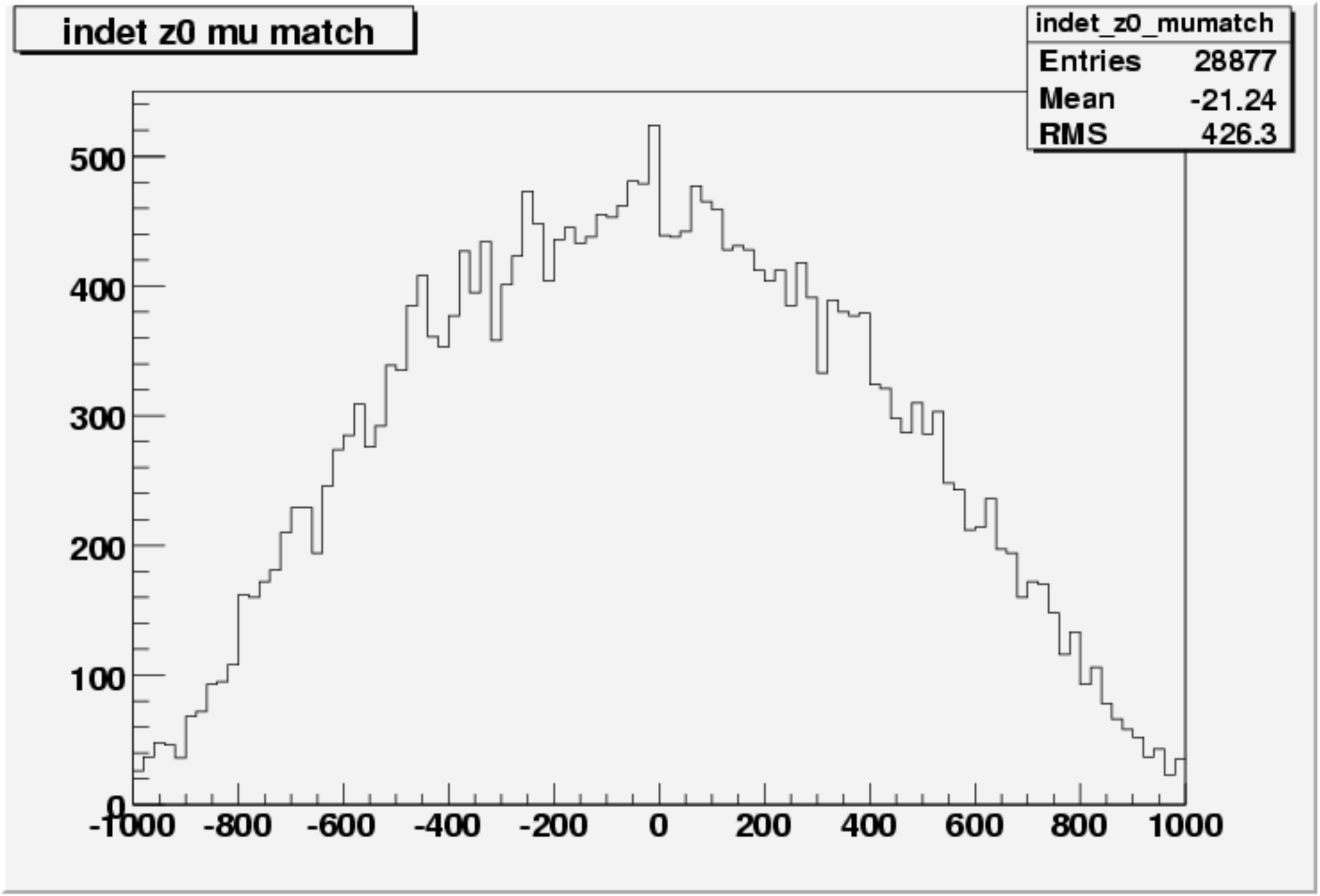

dphi mu-InDet
dphi_mu_indet
Entries 63214
Mean 0.007717
RMS 0.06979
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2

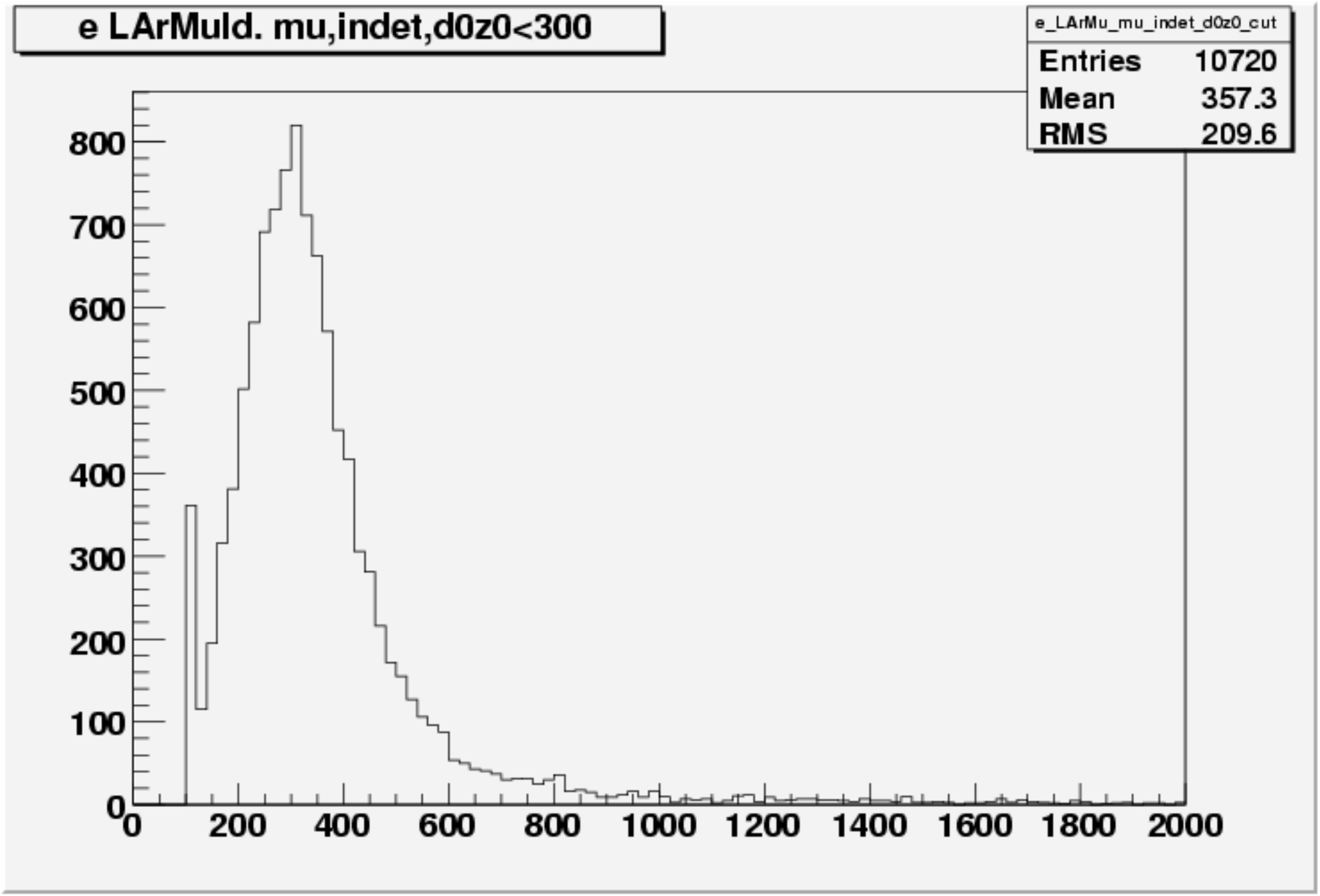

dr mu-InDet
dr_mu_indet
Entries 63214
Mean 0.05618
RMS 0.04835
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2

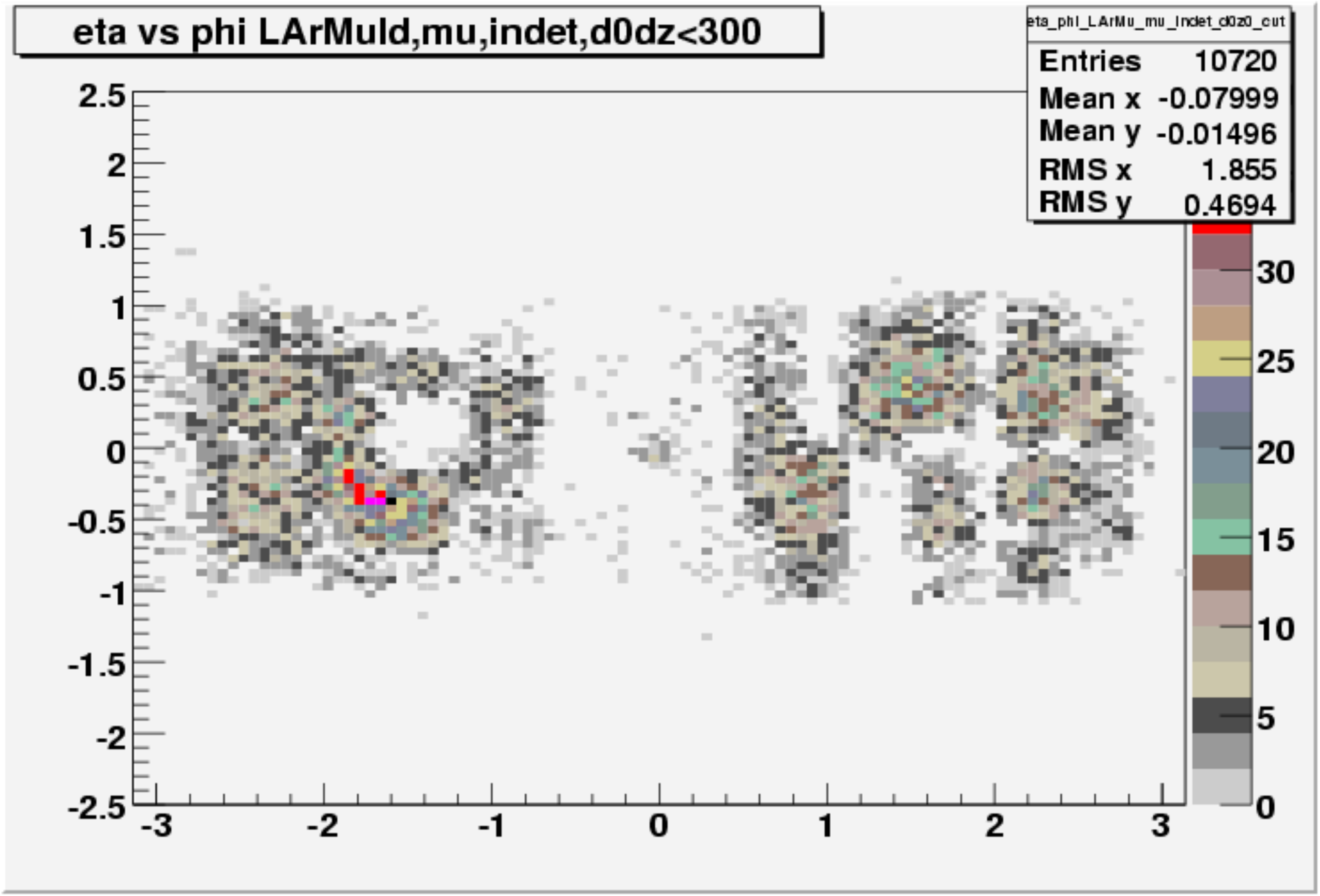

muon d0 with id match
mu_d0_idmatch
Entries 28877
Mean -8.896
RMS 234.8
2500
2000
1500
1000
500
0
-3000
-2000
-1000
0
1000
2000
3000

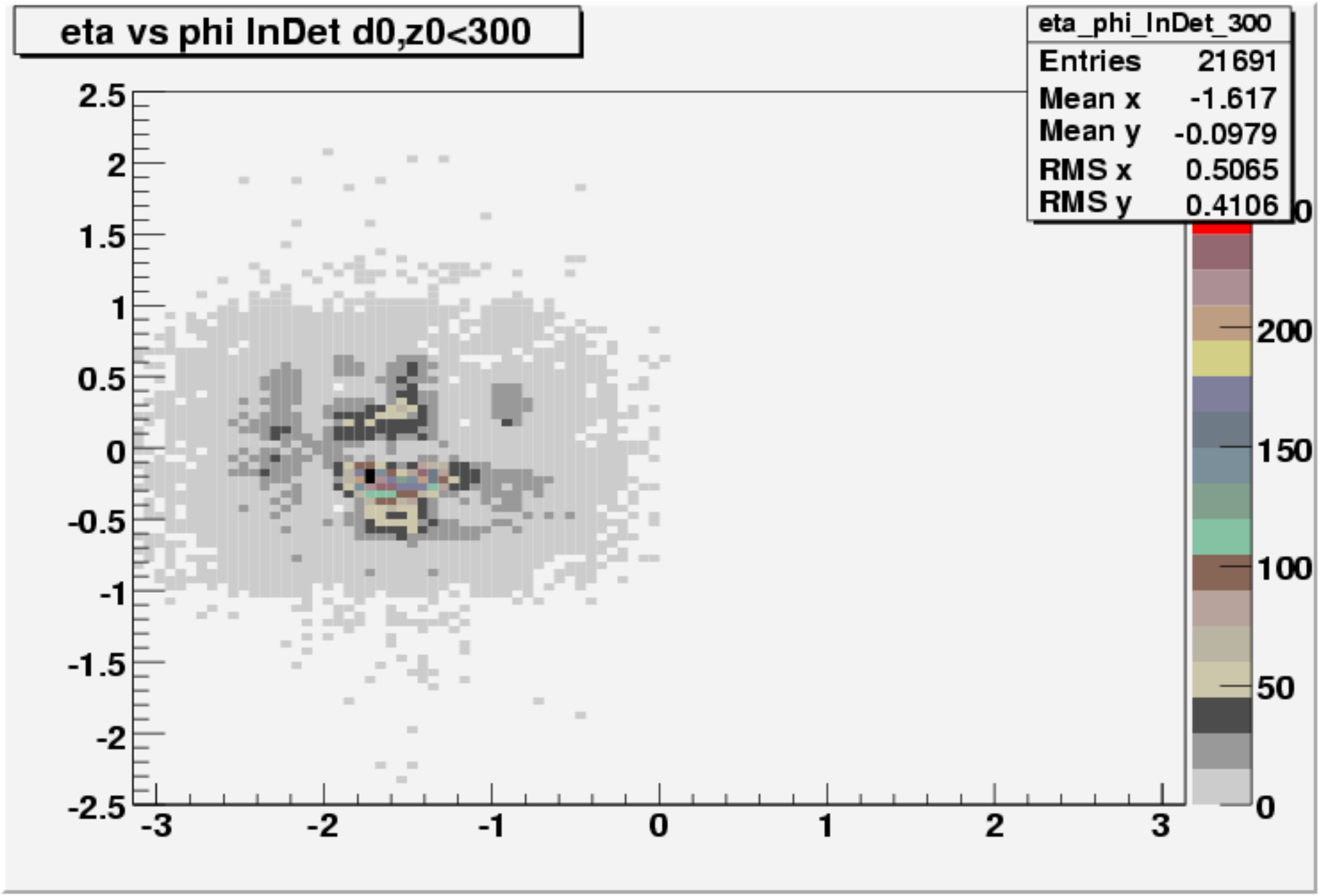

muon z0 with id match
mu_z0_idmatch
Entries 28877
Mean -13.15
RMS 463.6
1400
1200
1000
800
600
400
200
0
-3000
-2000
-1000
0
1000
2000
3000


indet d0 mu match
indet_d0_mumatch
Entries 28877
Mean -2.642
RMS 215.8
900
800
700
600
500
400
300
200
100
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000


indet z0 mu match
indet_z0_mumatch
Entries 28877
Mean -21.24
RMS 426.3
500
400
300
200
100
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000


e LArMuld. mu,indet,d0z0<300
e_LArMu_mu_indet_d0z0_cut
Entries 10720
Mean 357.3
RMS 209.6
800
700
600
500
400
300
200
100
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000


eta vs phi LArMuld,mu,indet,d0dz<300
eta_phi_LArMu_mu_Indet_d0z0_cut
Entries 10720
Mean x -0.07999
Mean y -0.01496
RMS x 1.855
RMS y 0.4694
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-2
-1
0
1
2
3
30
25
20
15
10
5
0


eta vs phi InDet d0,z0<300
eta_phi_InDet_300
Entries 21691
Mean x -1.617
Mean y -0.0979
RMS x 0.5065
RMS y 0.4106
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-2
-1
0
1
2
3
200
150
100
50
0