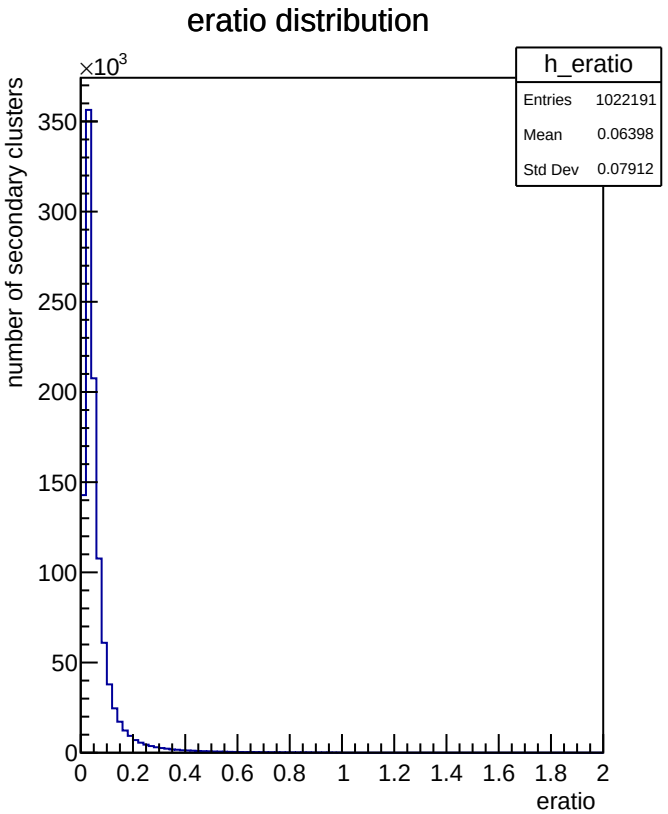
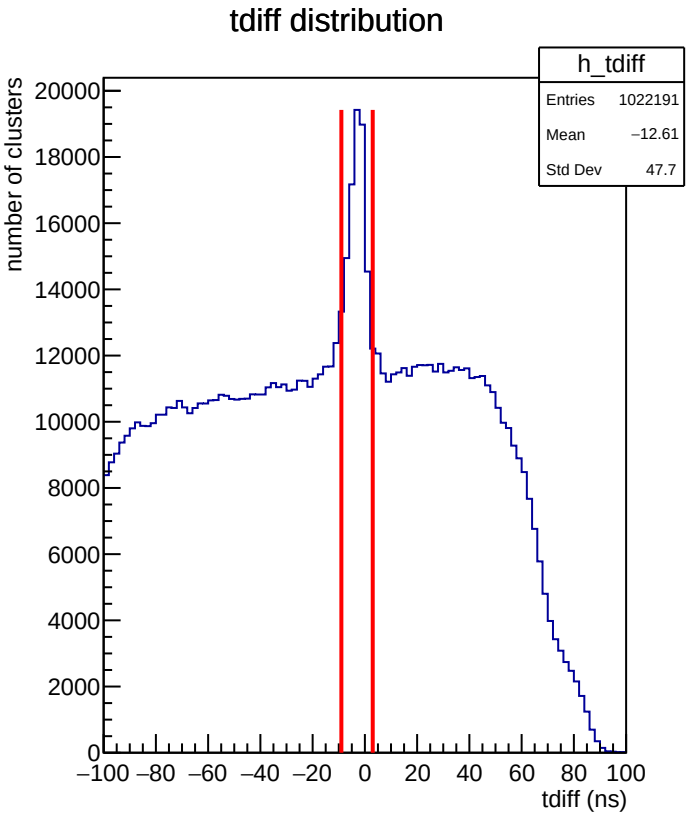
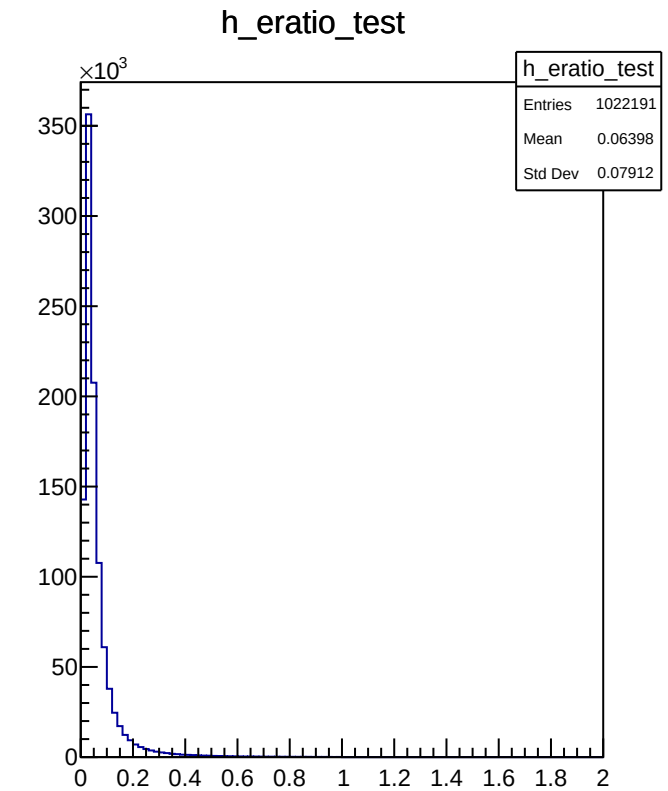
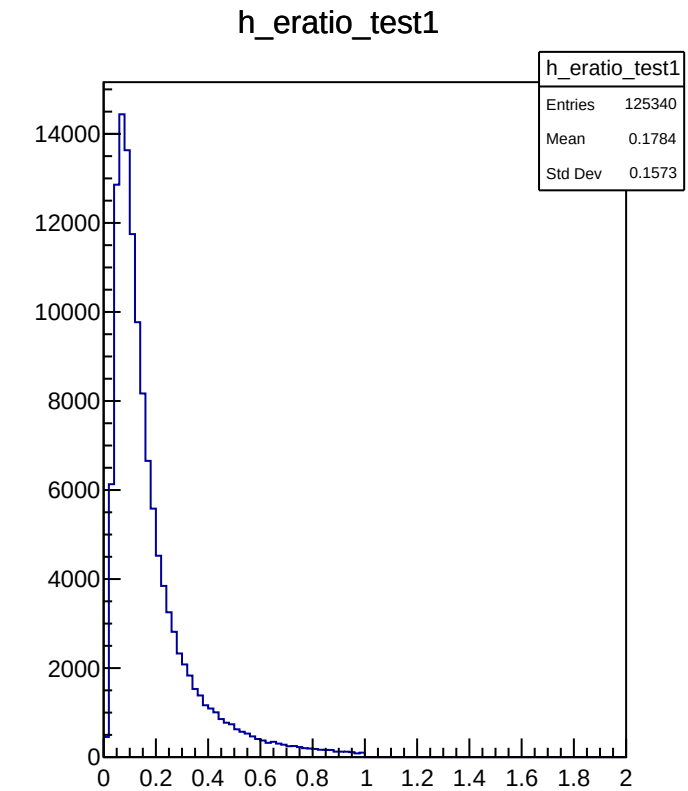
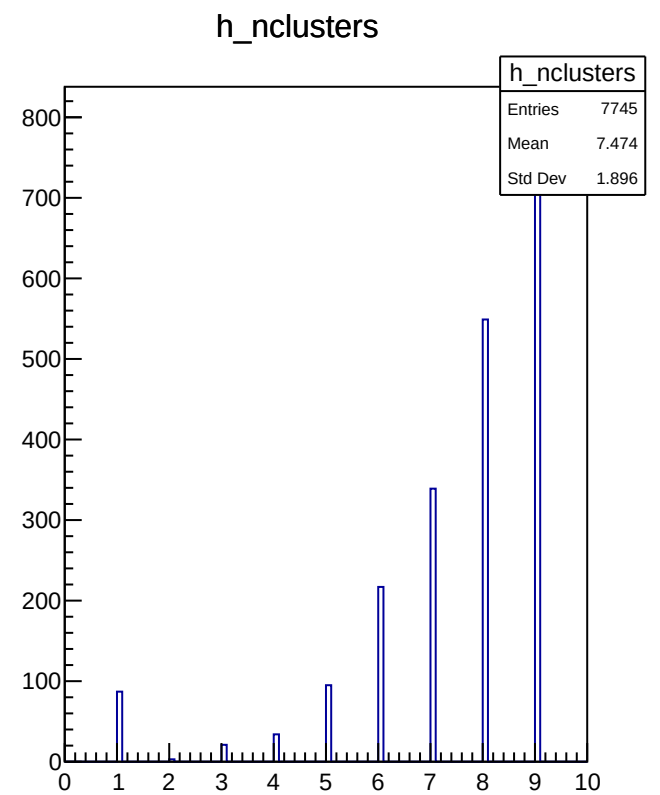
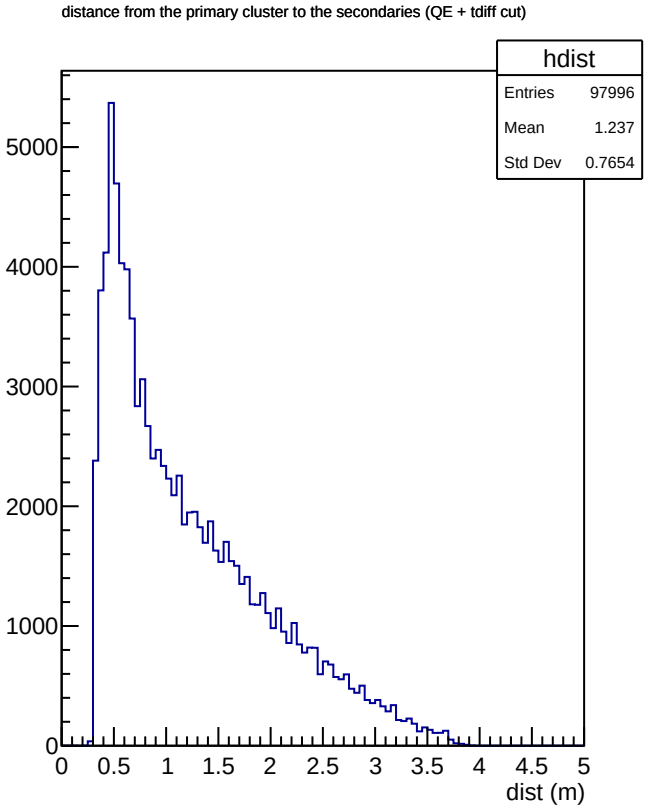

eratio distribution
h_eratio
Entries 1022191
Mean 0.06398
Std Dev 0.07912
×10^3
number of secondary clusters
eratio

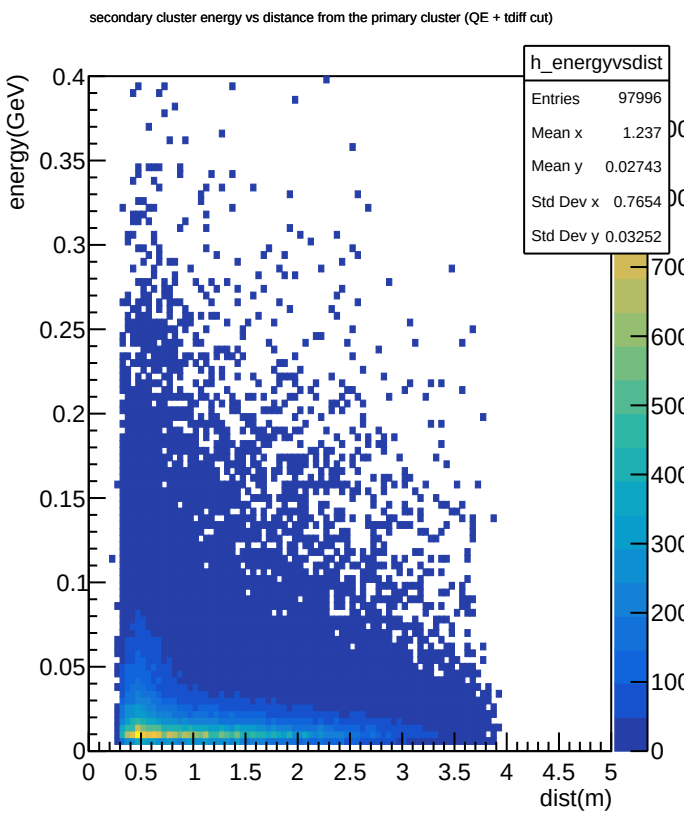

tdiff distribution
h_tdiff
Entries 1022191
Mean −12.61
Std Dev 47.7
number of clusters
tdiff (ns)

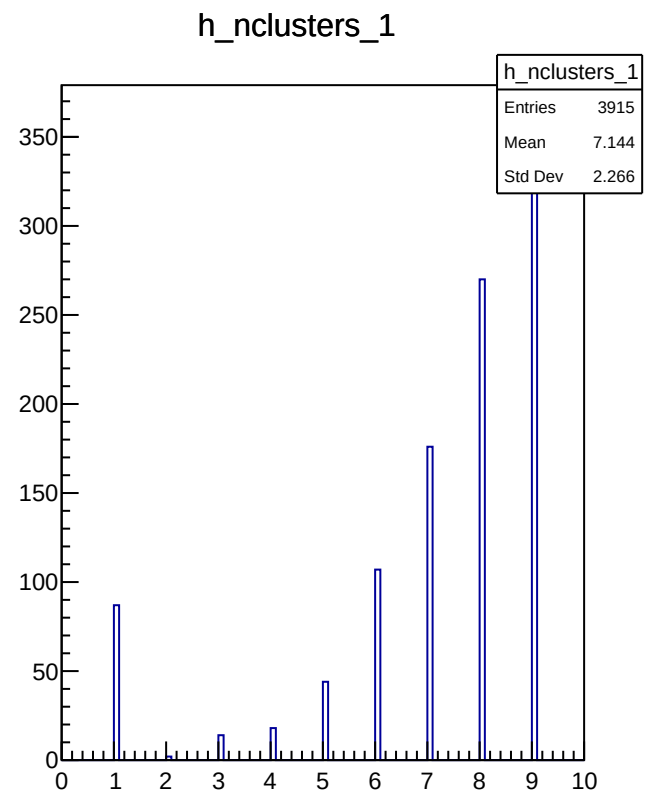

h_eratio_test
h_eratio_test
Entries 1022191
Mean 0.06398
Std Dev 0.07912
×10^3

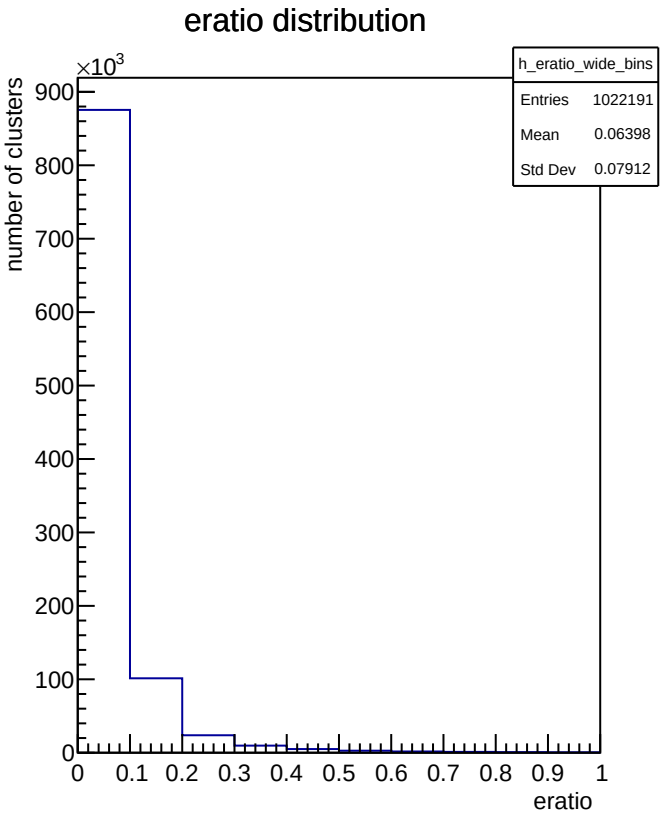

h_eratio_test1
h_eratio_test1
Entries 125340
Mean 0.1784
Std Dev 0.1573

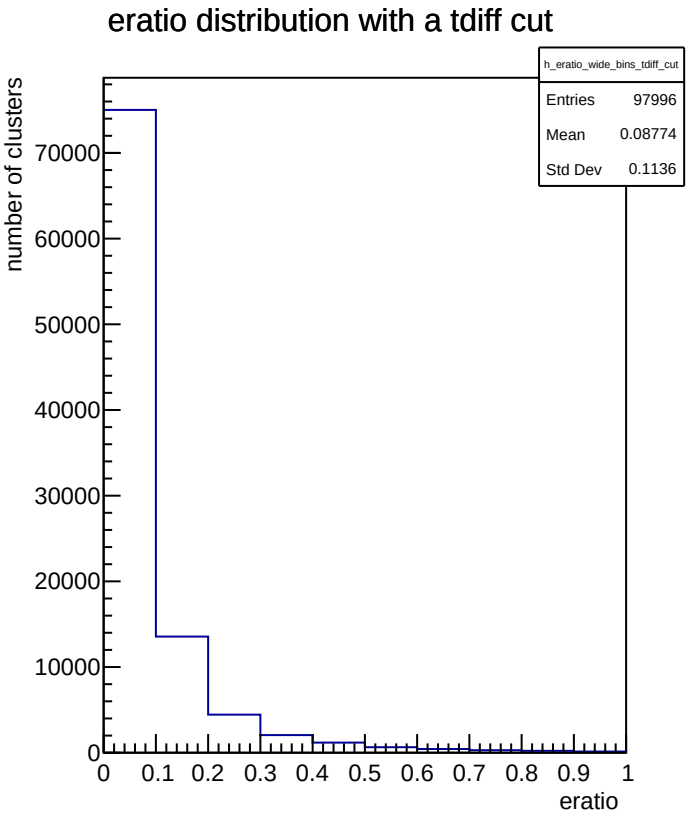

h_nclusters
h_nclusters
Entries 7745
Mean 7.474
Std Dev 1.896

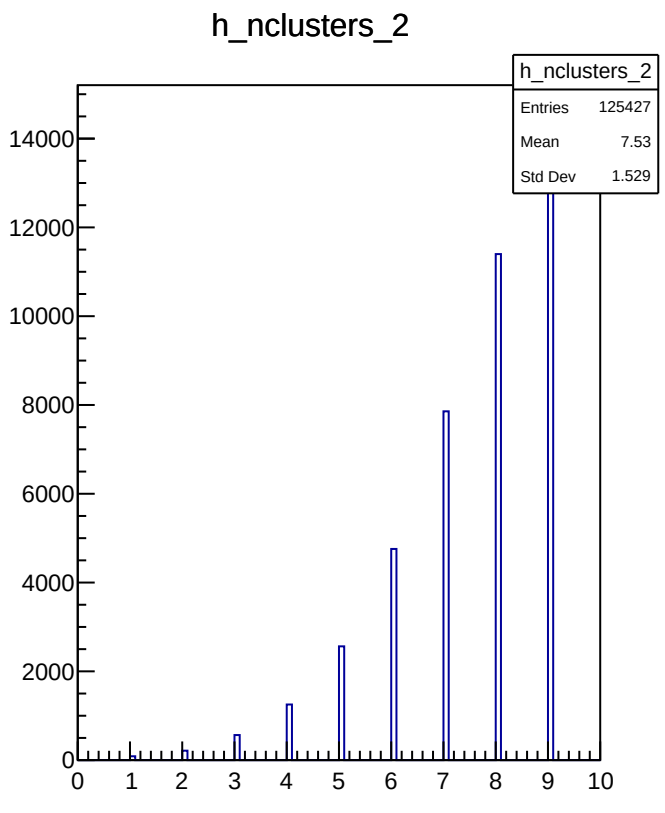

distance from the primary cluster to the secondaries (QE + tdiff cut)
hdist
Entries 97996
Mean 1.237
Std Dev 0.7654
dist (m)

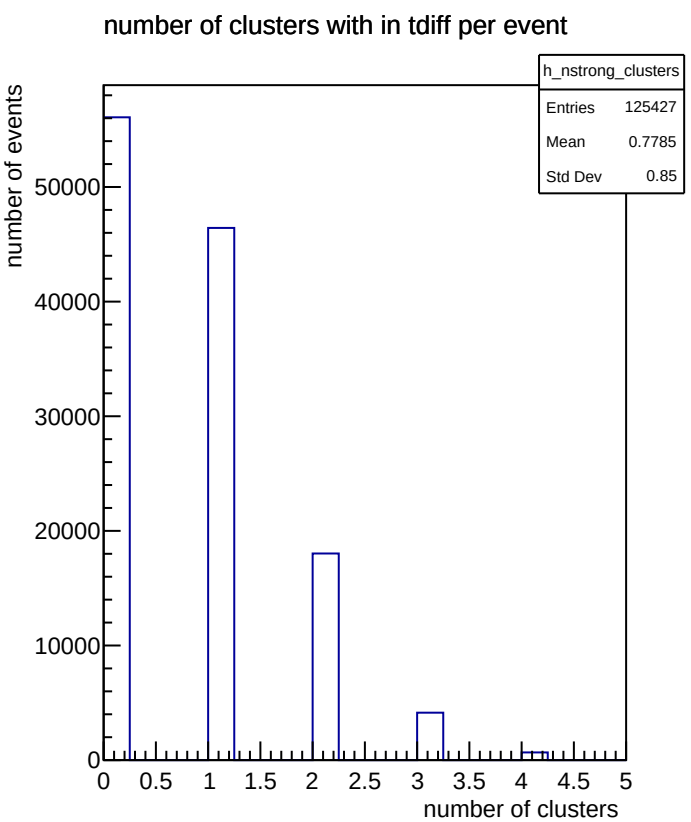

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut)
h_energyvsdist
Entries 97996
Mean x 1.237
Mean y 0.02743
Std Dev x 0.7654
Std Dev y 0.03252
energy(GeV)
dist(m)

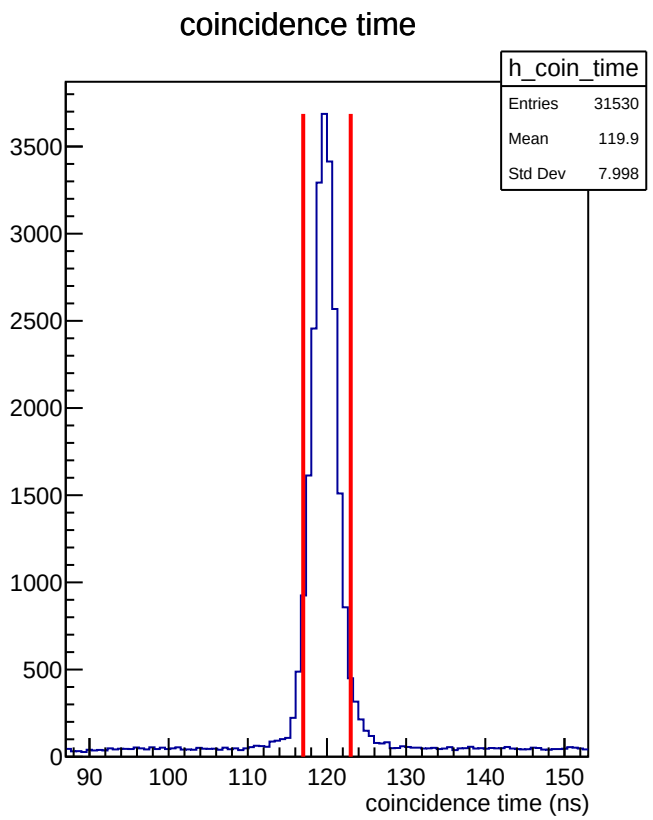

h_nclusters_1
h_nclusters_1
Entries 3915
Mean 7.144
Std Dev 2.266

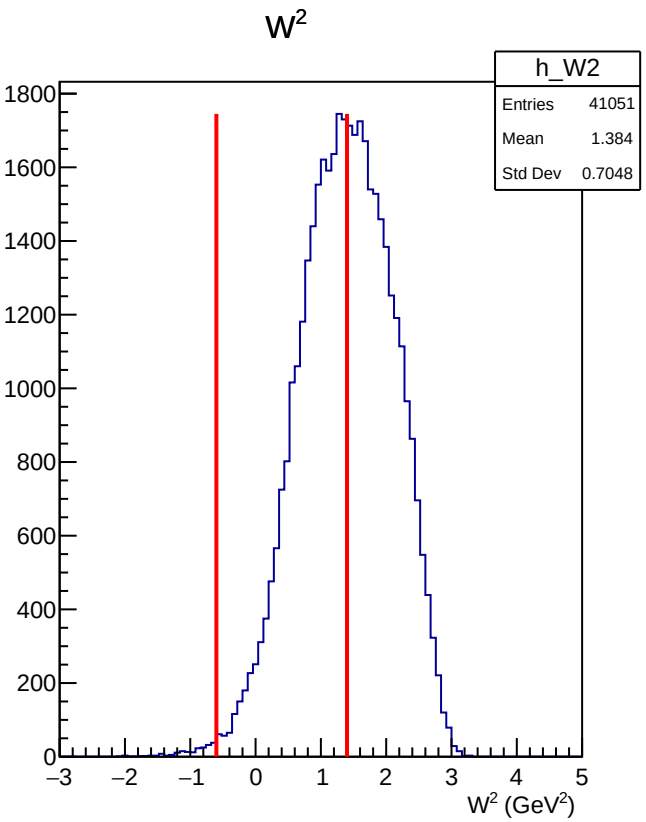

eratio distribution
h_eratio_wide_bins
Entries 1022191
Mean 0.06398
Std Dev 0.07912
number of clusters
eratio

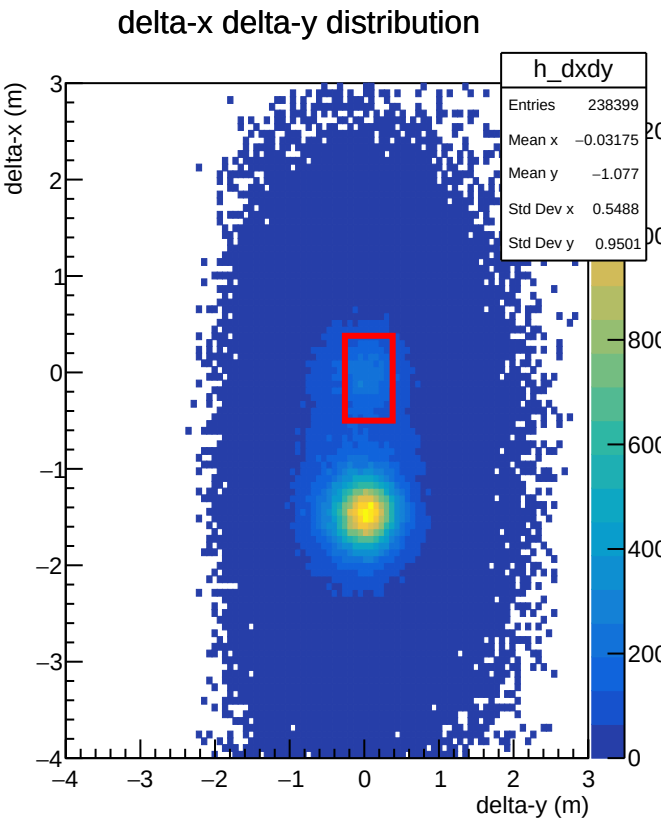

eratio distribution with a tdiff cut
h_eratio_wide_bins_tdiff_cut
Entries 97996
Mean 0.08774
Std Dev 0.1136
number of clusters
eratio


h_nclusters_2
h_nclusters_2
Entries 125427
Mean 7.53
Std Dev 1.529

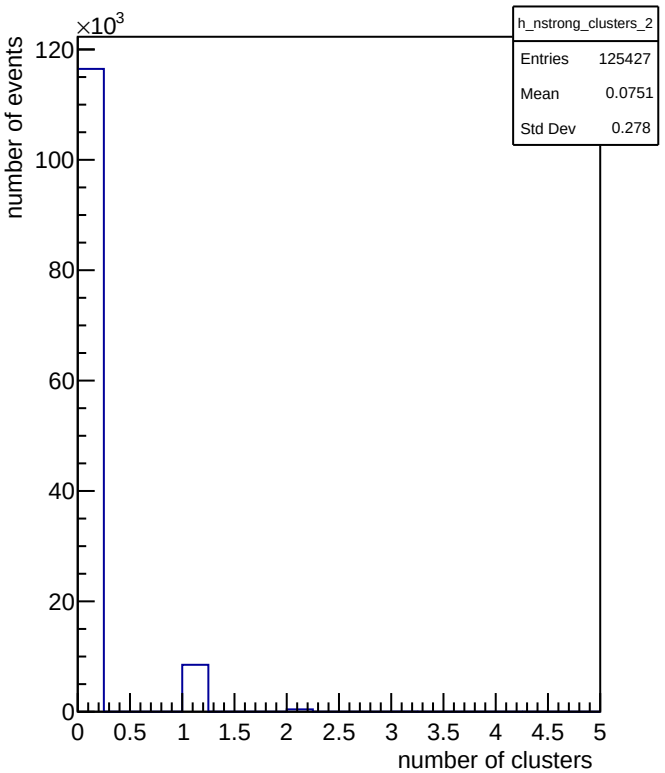

number of clusters with in tdiff per event
h_nstrong_clusters
Entries 125427
Mean 0.7785
Std Dev 0.85
number of events
number of clusters


coincidence time
h_coin_time
Entries 31530
Mean 119.9
Std Dev 7.998
coincidence time (ns)

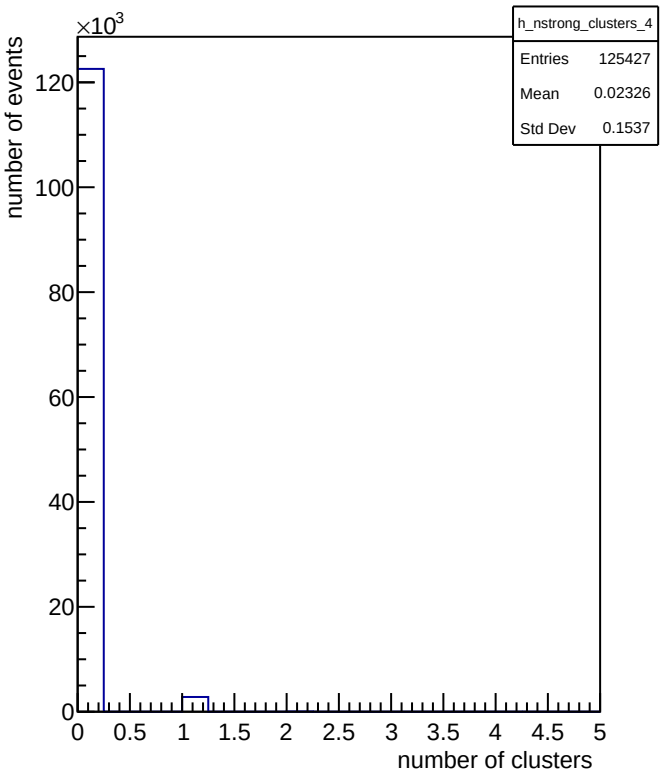

W2
h_W2
Entries 41051
Mean 1.384
Std Dev 0.7048
W2 (GeV2)


delta-x delta-y distribution
h_dxdy
Entries 238399
Mean x −0.03175
Mean y −1.077
Std Dev x 0.5488
Std Dev y 0.9501
delta-x (m)
delta-y (m)

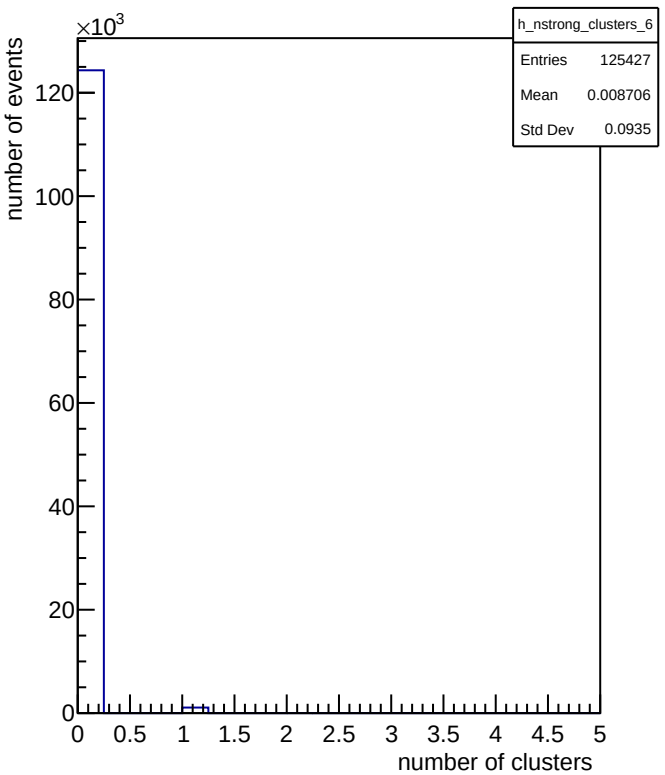
number of clusters with in tdiff with eratio>0.2 per event



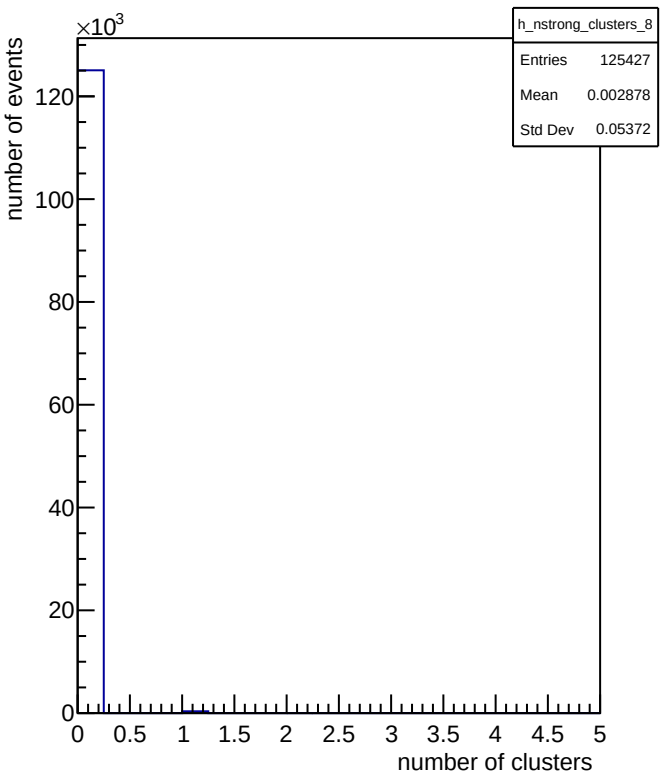
number of clusters with in tdiff with eratio>0.4 per event

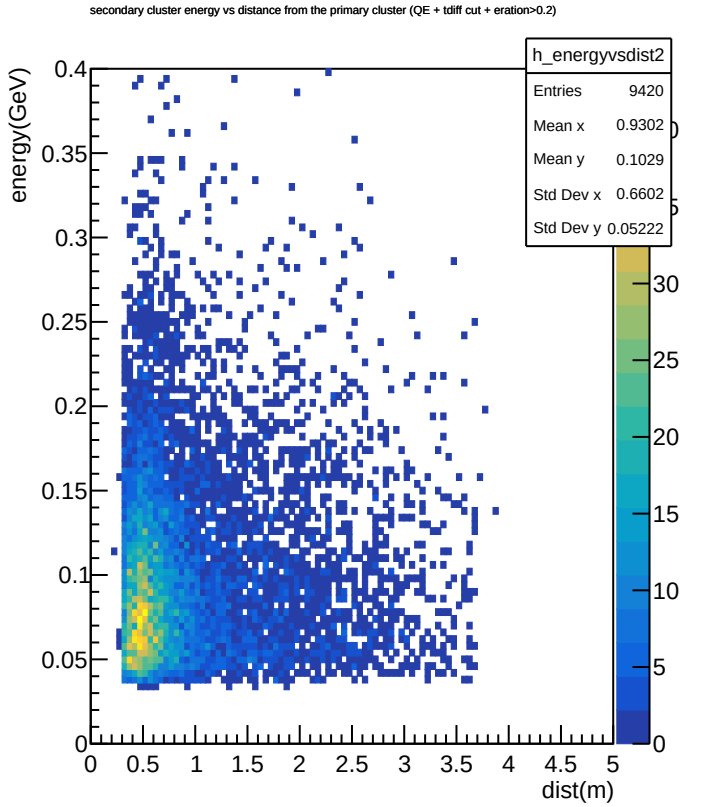


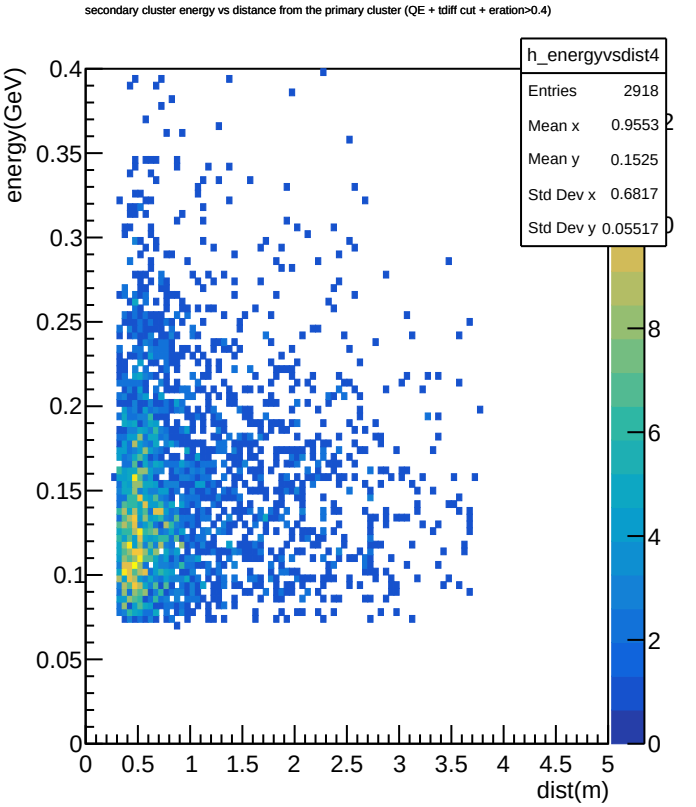
number of clusters with in tdiff with eratio>0.6 per event

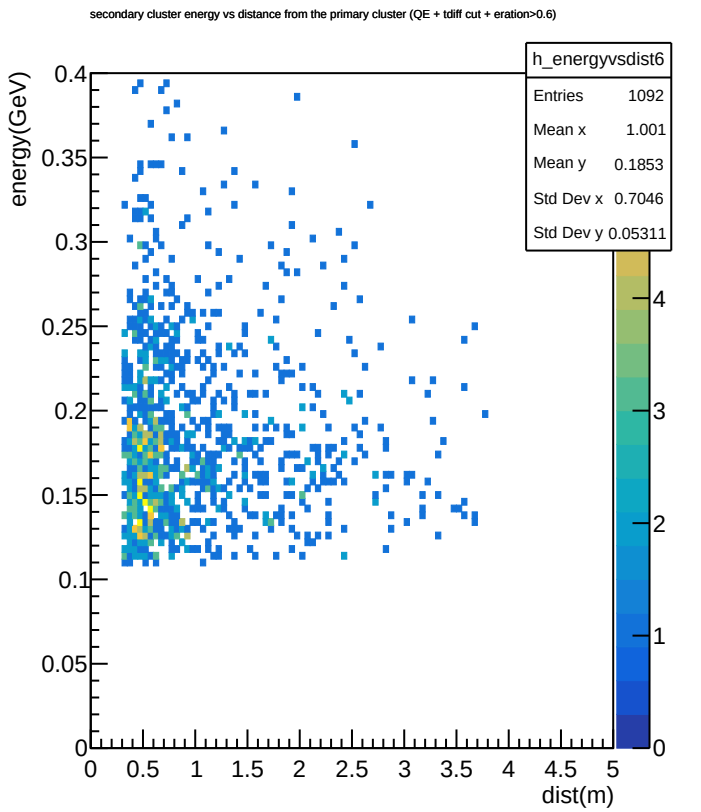


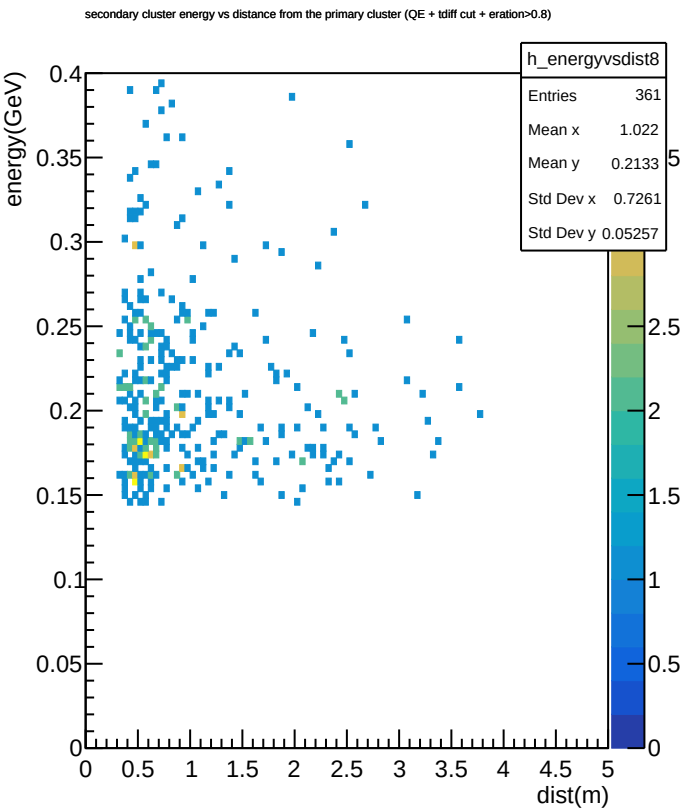
number of clusters with in tdiff with eratio>0.8 per event



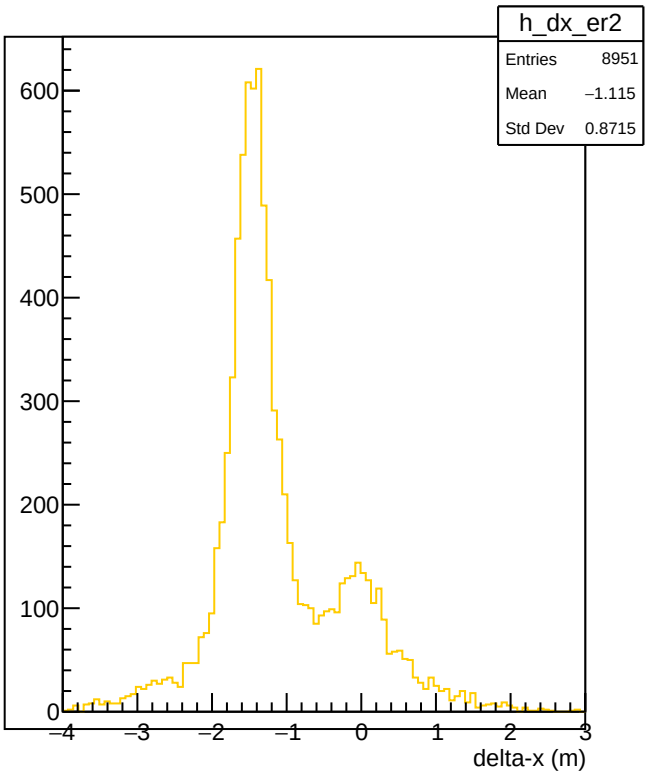

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.2)
h_energyvsdist2
Entries 9420
Mean x 0.9302
Mean y 0.1029
Std Dev x 0.6602
Std Dev y 0.05222
energy(GeV)
dist(m)


secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.4)
h_energyvsdist4
Entries 2918
Mean x 0.9553
Mean y 0.1525
Std Dev x 0.6817
Std Dev y 0.05517
energy(GeV)
dist(m)

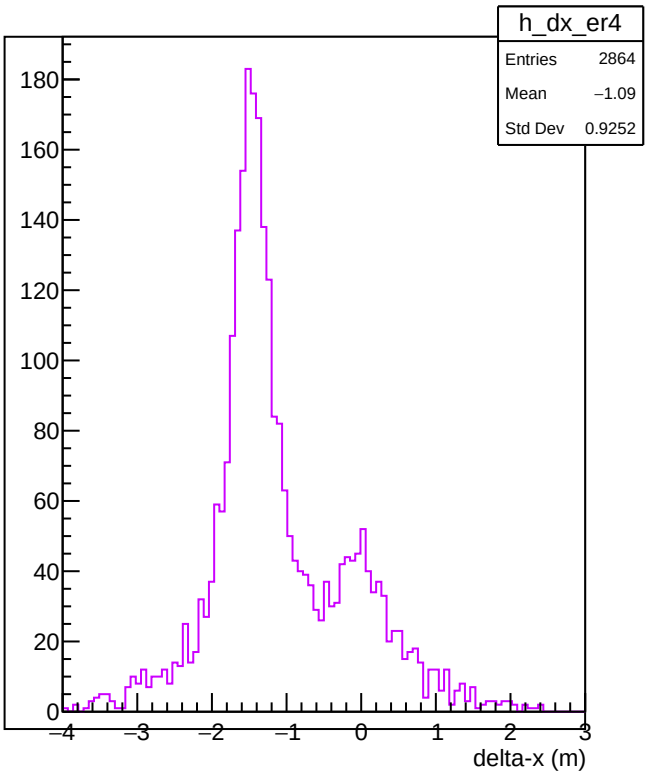

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.6)
h_energyvsdist6
Entries 1092
Mean x 1.001
Mean y 0.1853
Std Dev x 0.7046
Std Dev y 0.05311
energy(GeV)
dist(m)


secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.8)
h_energyvsdist8
Entries 361
Mean x 1.022
Mean y 0.2133
Std Dev x 0.7261
Std Dev y 0.05257
energy(GeV)
dist(m)

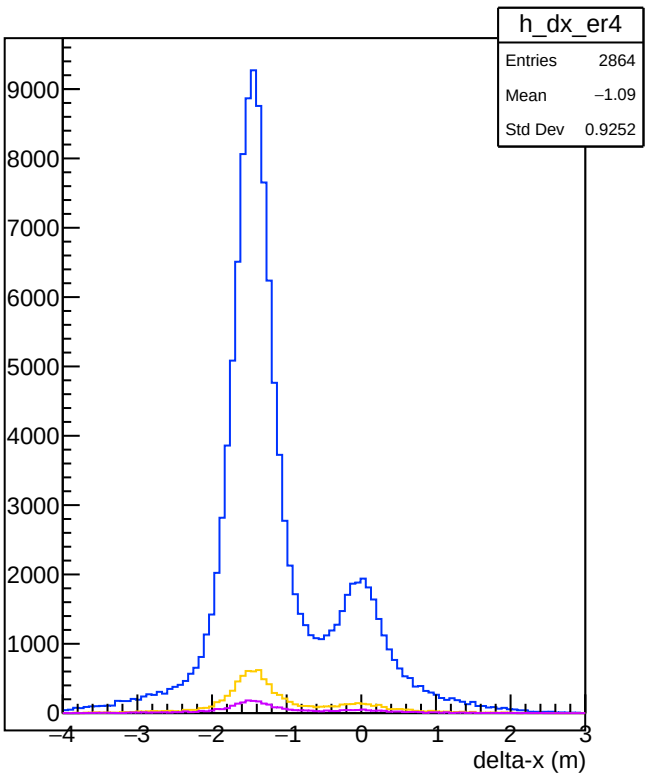
delta-x distribution for eratio<0.2 with other QE cuts



delta-x distribution for eratio<0.4 with other QE cuts



delta-x distribution with QE cuts

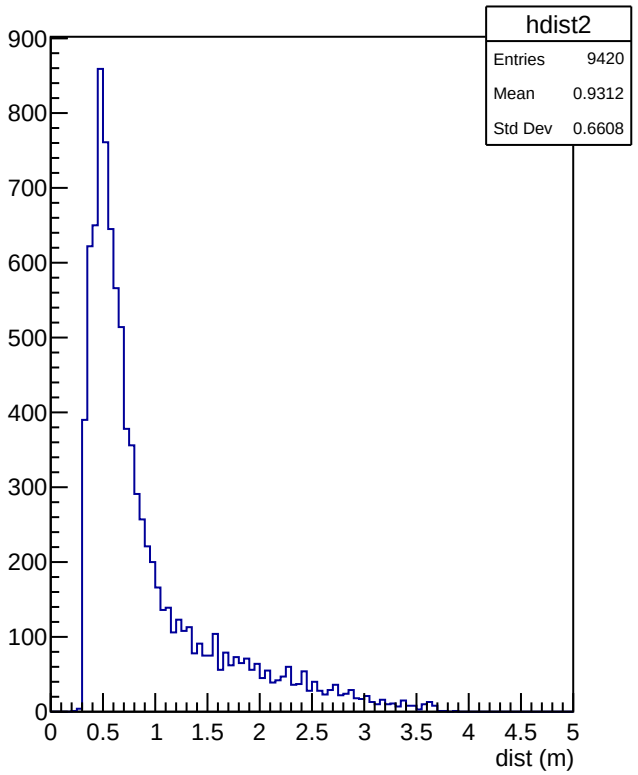


primary clusters

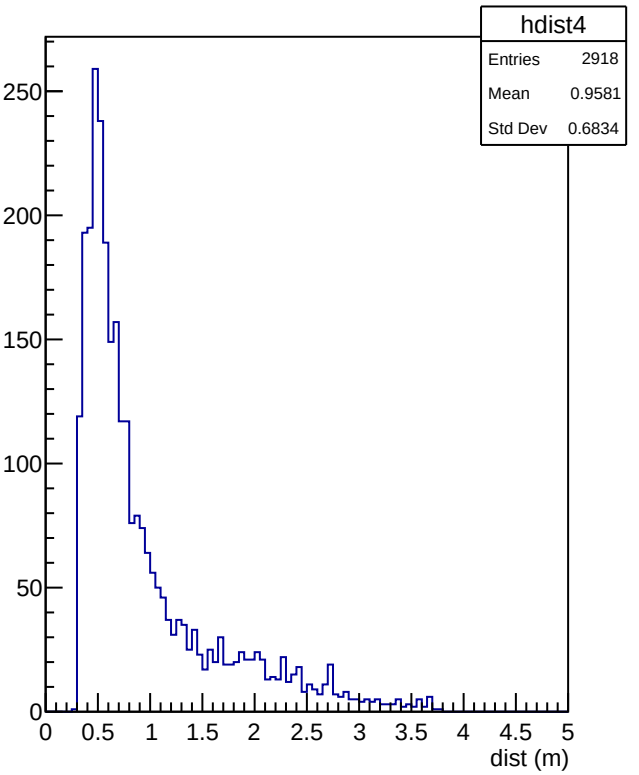
$E_{sec}/E_{prim} > 0.2$

$E_{sec}/E_{prim} > 0.4$

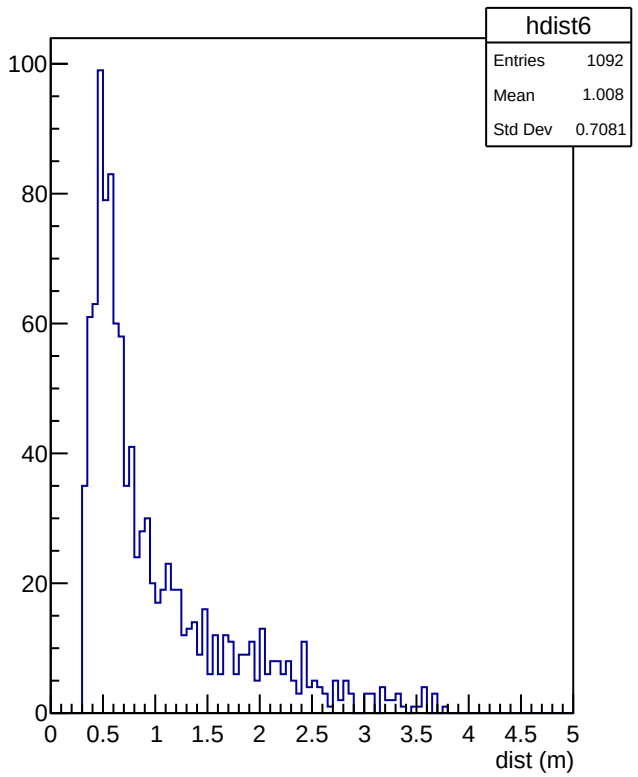
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.2)



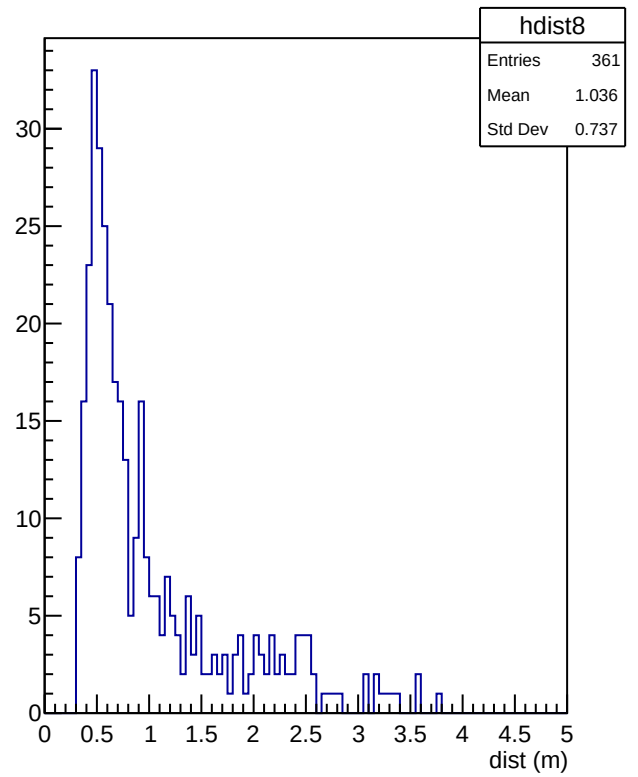
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.4)

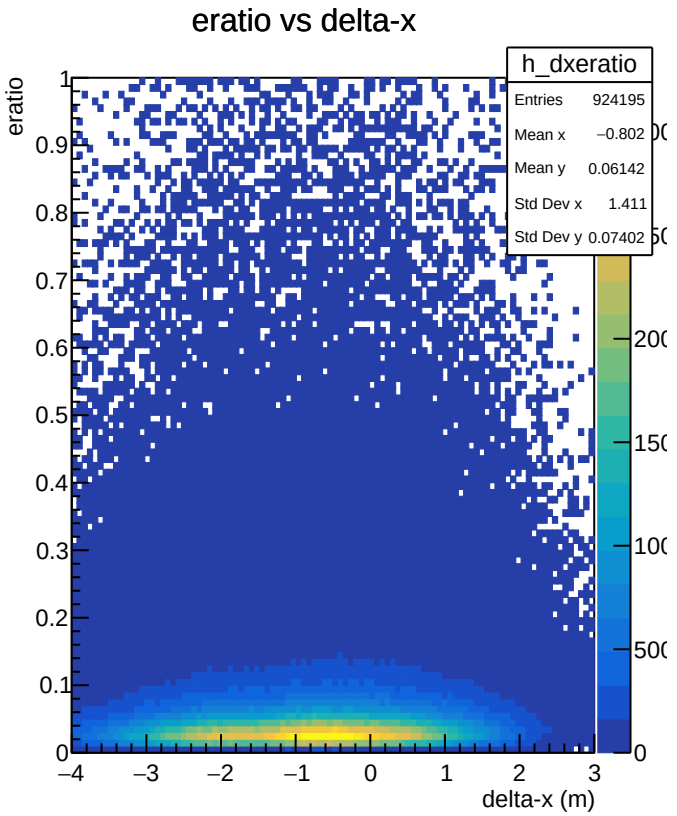


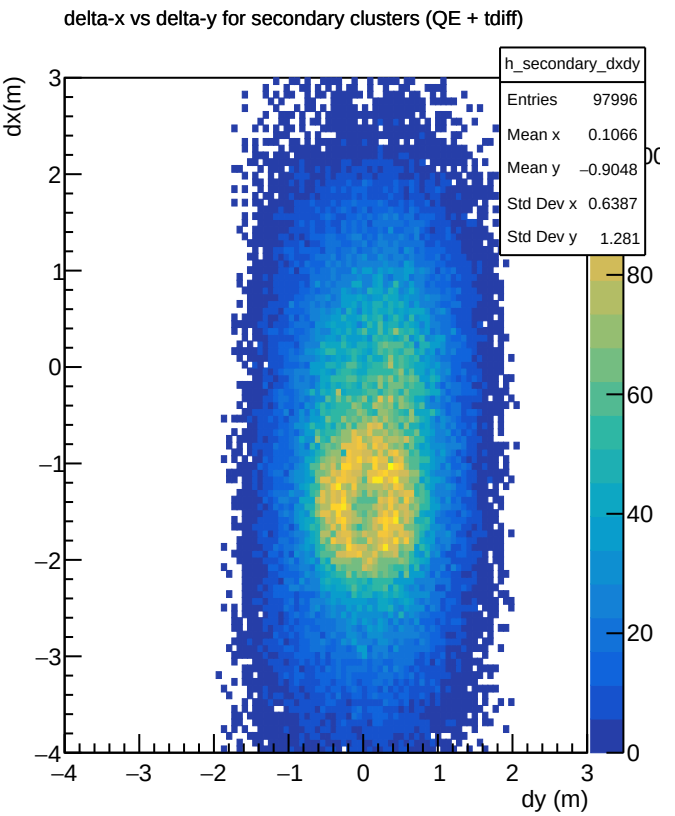
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.6)

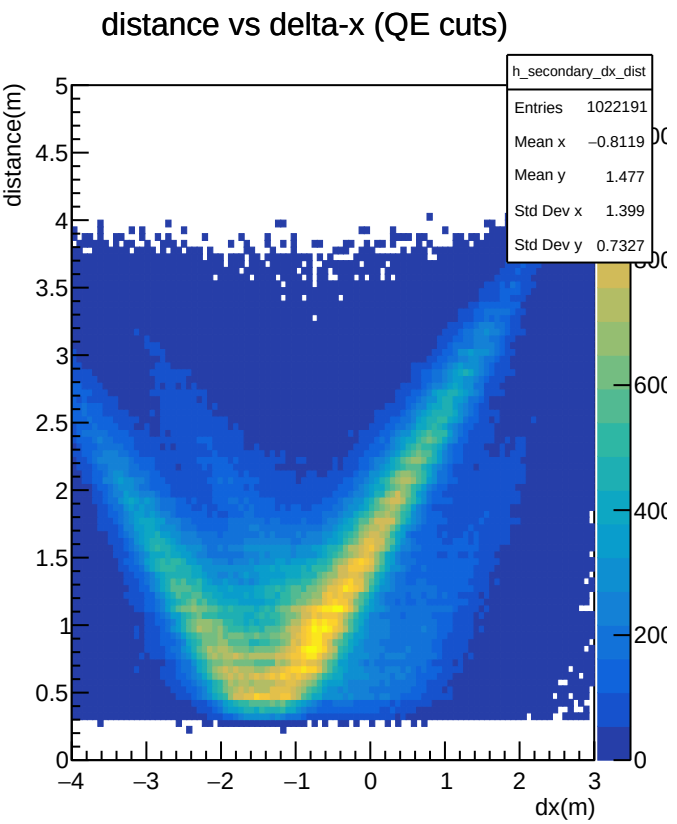


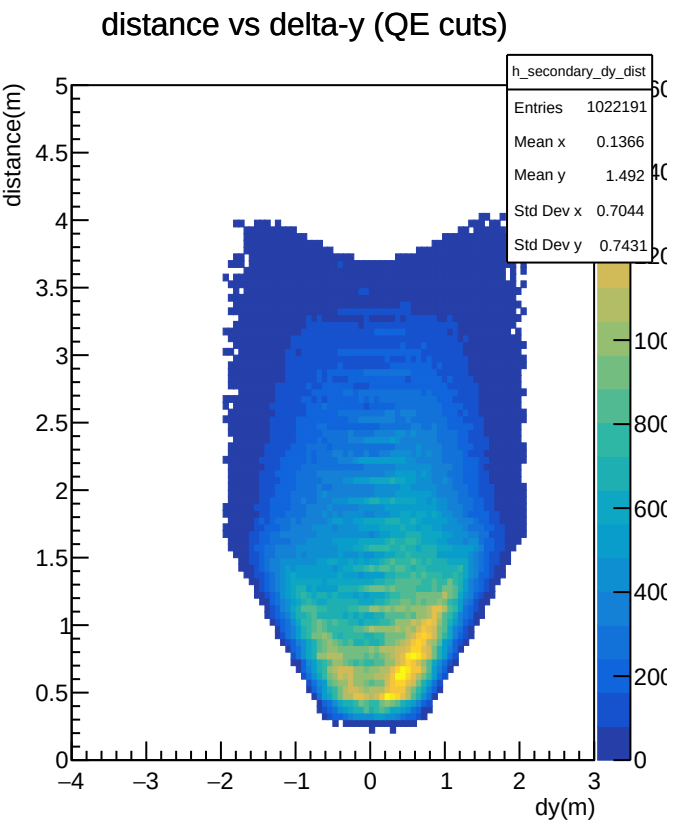
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.8)

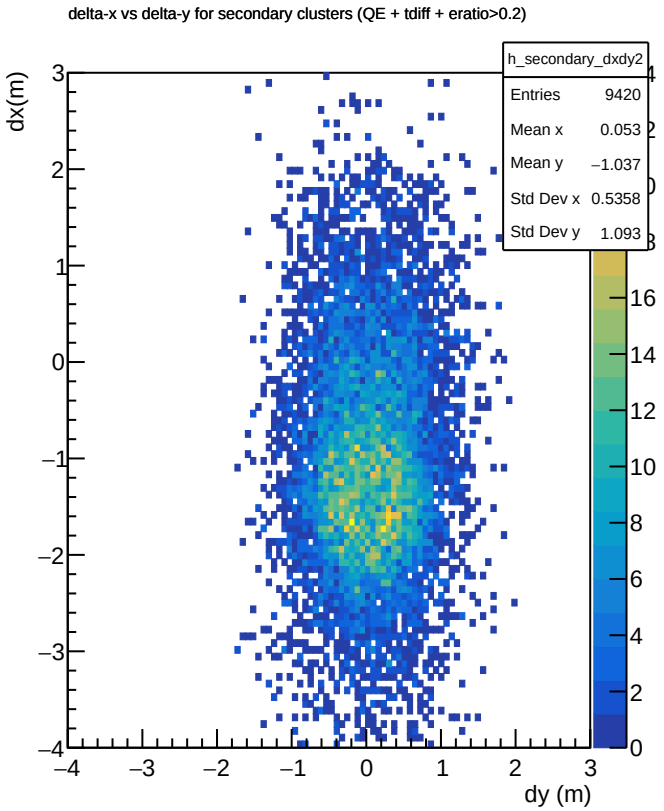


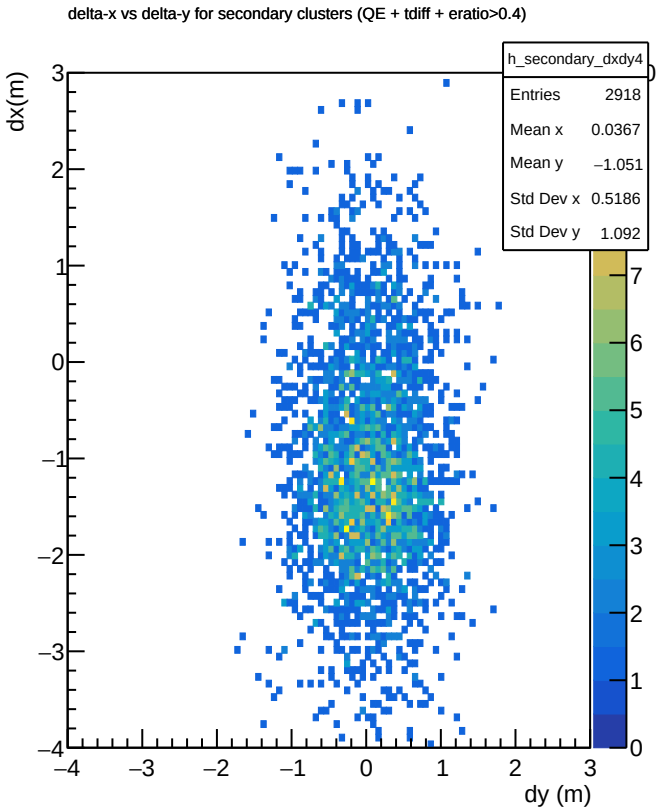

eratio vs delta-x
h_dxeratio
Entries 924195
Mean x −0.802
Mean y 0.06142
Std Dev x 1.411
Std Dev y 0.07402
eratio
delta-x (m)

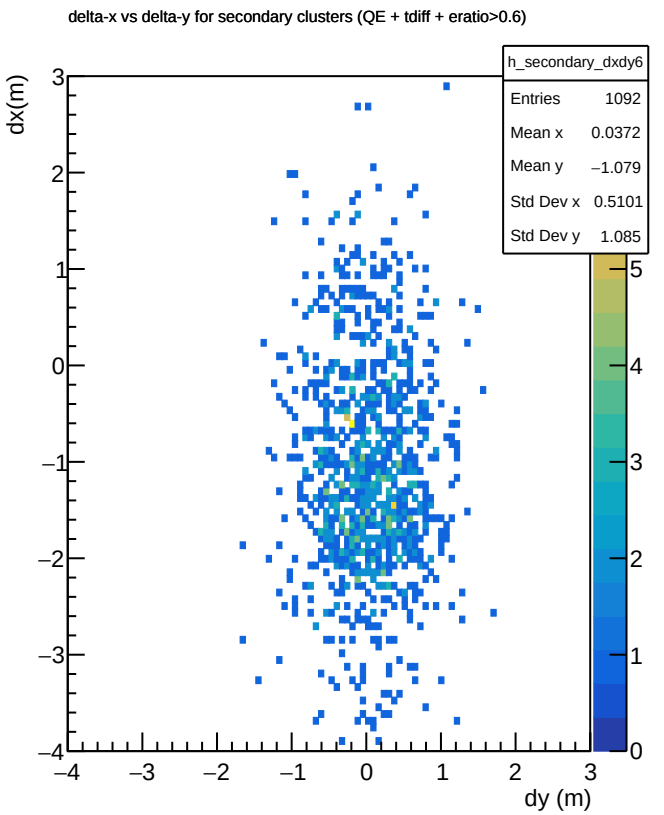

delta-x vs delta-y for secondary clusters (QE + tdiff)
h_secondary_dxdy
Entries 97996
Mean x 0.1066
Mean y −0.9048
Std Dev x 0.6387
Std Dev y 1.281
dx(m)
dy (m)

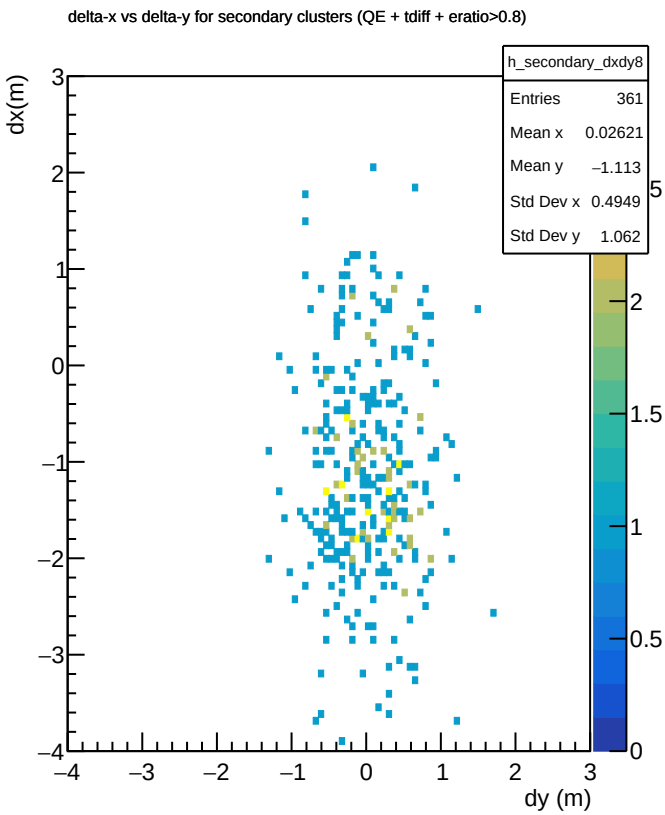

distance vs delta-x (QE cuts)
h_secondary_dx_dist
Entries 1022191
Mean x −0.8119
Mean y 1.477
Std Dev x 1.399
Std Dev y 0.7327
distance(m)
dx(m)

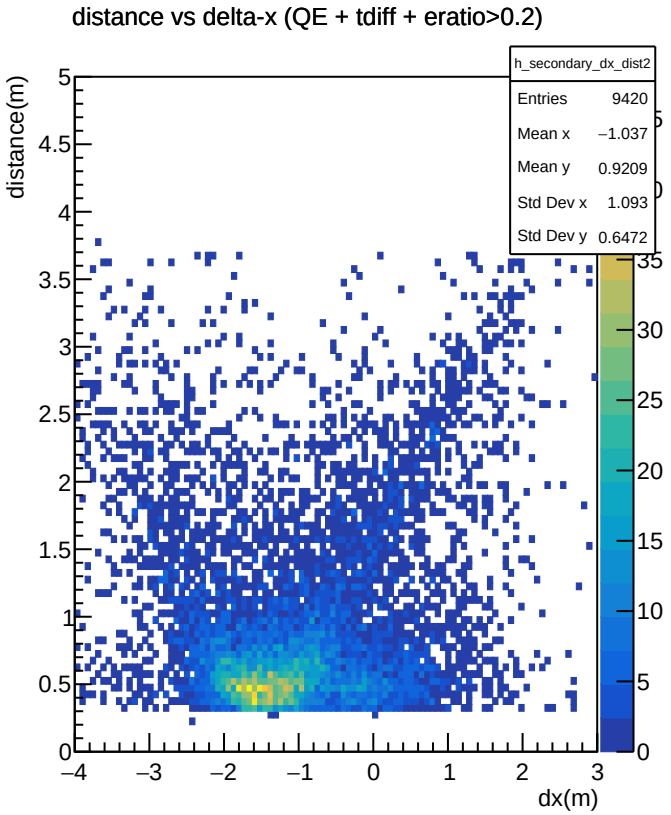

distance vs delta-y (QE cuts)
h_secondary_dy_dist
Entries 1022191
Mean x 0.1366
Mean y 1.492
Std Dev x 0.7044
Std Dev y 0.7431
distance(m)
dy(m)

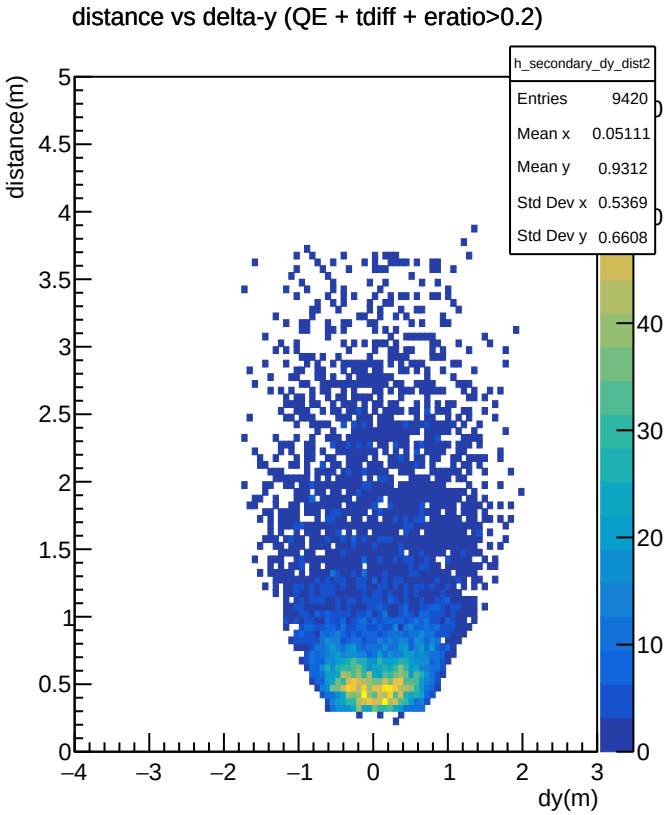

delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.2)
h_secondary_dxdy2
Entries 9420
Mean x 0.053
Mean y −1.037
Std Dev x 0.5358
Std Dev y 1.093
dx(m)
dy (m)

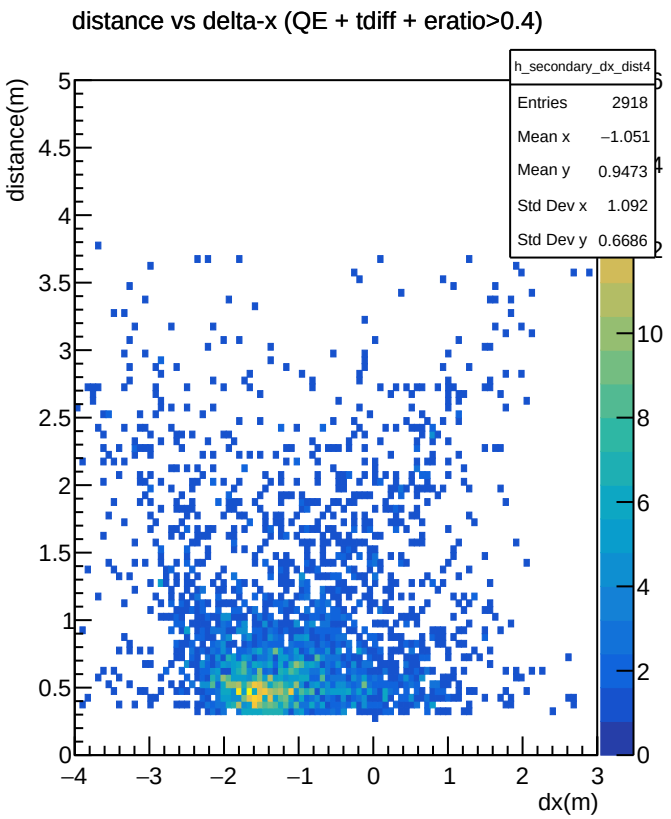

delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.4)
h_secondary_dxdy4
Entries 2918
Mean x 0.0367
Mean y −1.051
Std Dev x 0.5186
Std Dev y 1.092
dx(m)
dy (m)

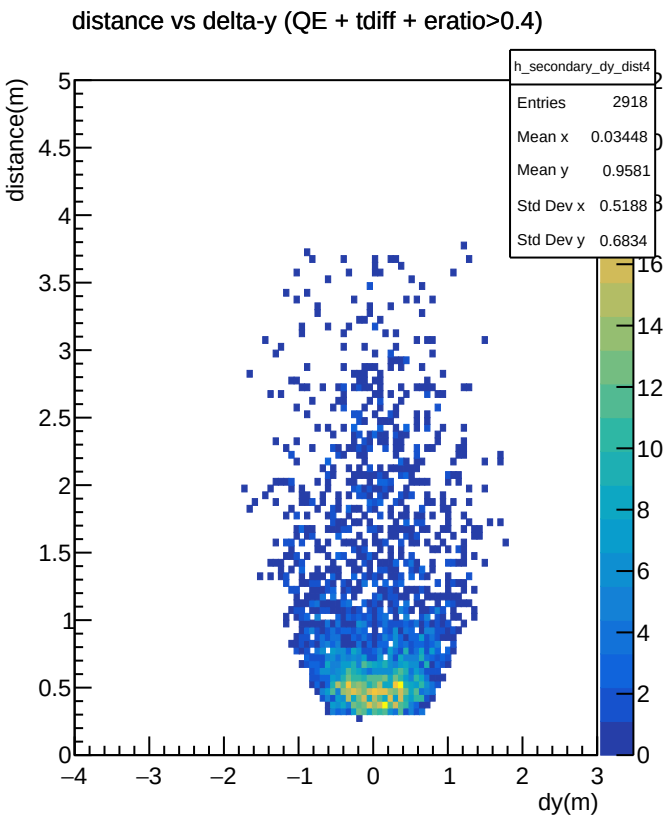

delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.6)
h_secondary_dxdy6
Entries 1092
Mean x 0.0372
Mean y −1.079
Std Dev x 0.5101
Std Dev y 1.085
dx(m)
dy (m)


delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.8)
h_secondary_dxdy8
Entries 361
Mean x 0.02621
Mean y −1.113
Std Dev x 0.4949
Std Dev y 1.062
dx(m)
dy (m)


distance vs delta-x (QE + tdiff + eratio>0.2)
h_secondary_dx_dist2
Entries 9420
Mean x −1.037
Mean y 0.9209
Std Dev x 1.093
Std Dev y 0.6472
distance(m)
dx(m)


distance vs delta-y (QE + tdiff + eratio>0.2)
h_secondary_dy_dist2
Entries 9420
Mean x 0.05111
Mean y 0.9312
Std Dev x 0.5369
Std Dev y 0.6608
distance(m)
dy(m)


distance vs delta-x (QE + tdiff + eratio>0.4)
h_secondary_dx_dist4
Entries 2918
Mean x −1.051
Mean y 0.9473
Std Dev x 1.092
Std Dev y 0.6686
distance(m)
dx(m)


distance vs delta-y (QE + tdiff + eratio>0.4)
h_secondary_dy_dist4
Entries 2918
Mean x 0.03448
Mean y 0.9581
Std Dev x 0.5188
Std Dev y 0.6834
distance(m)
dy(m)