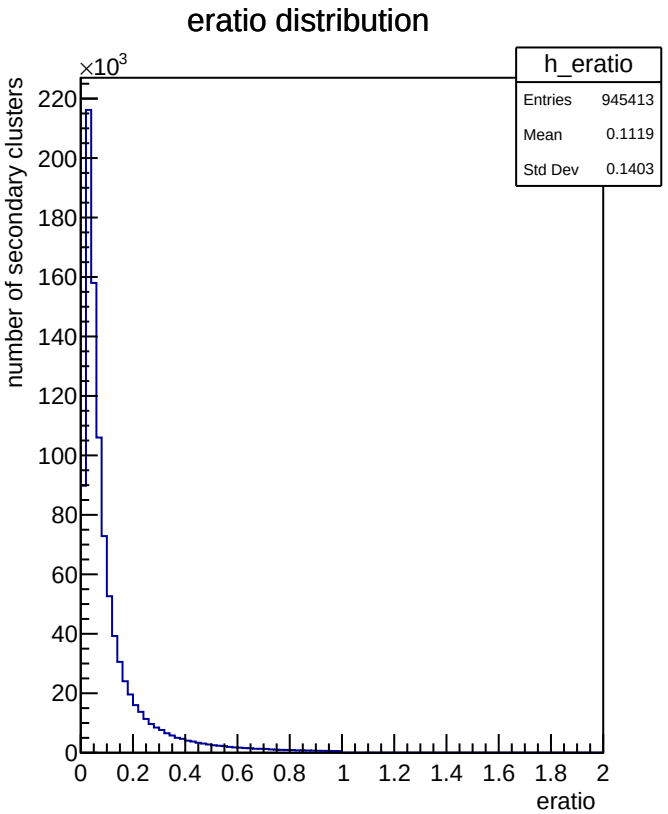
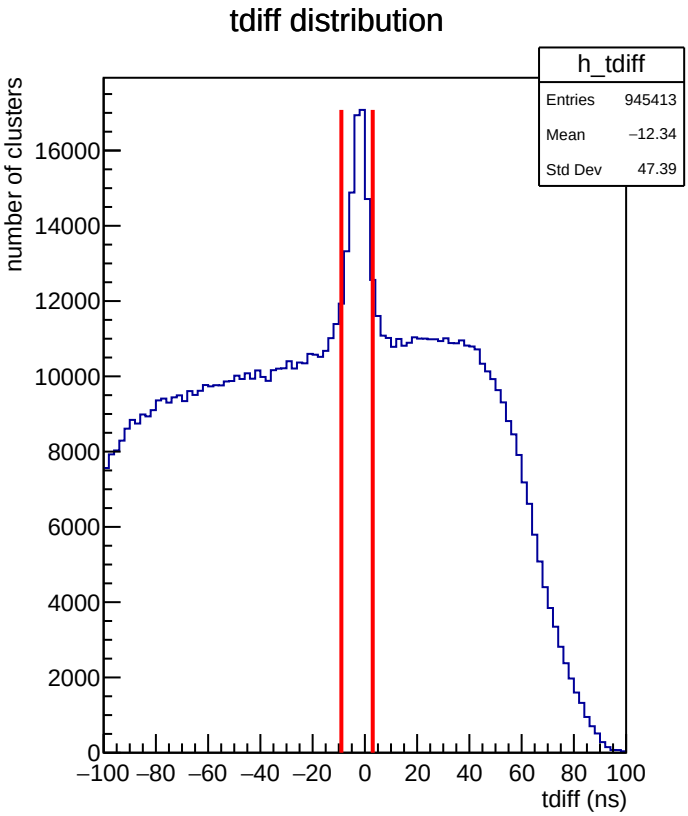
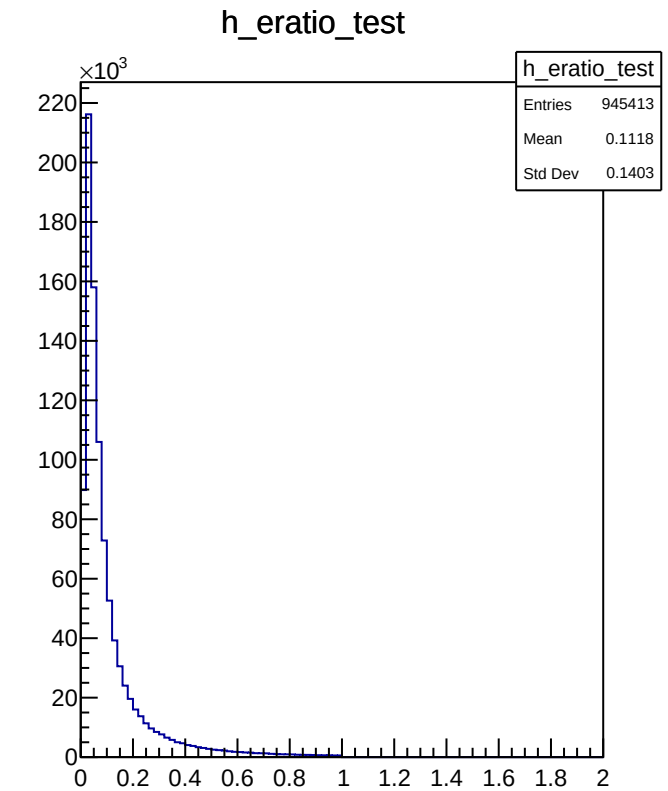
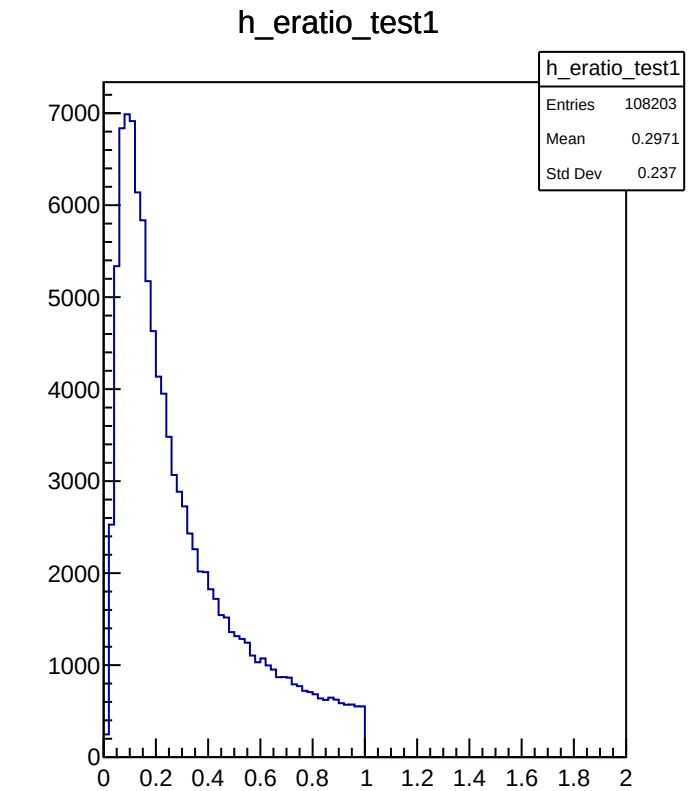
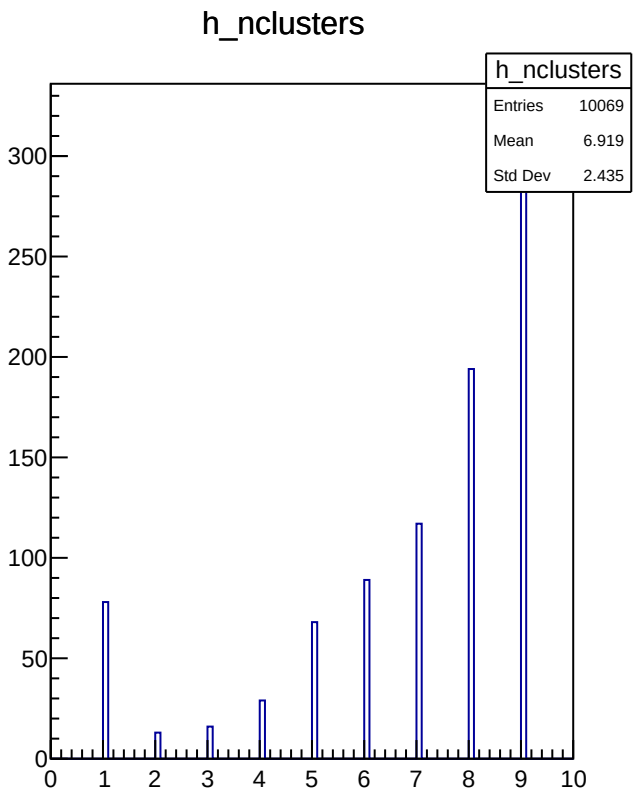
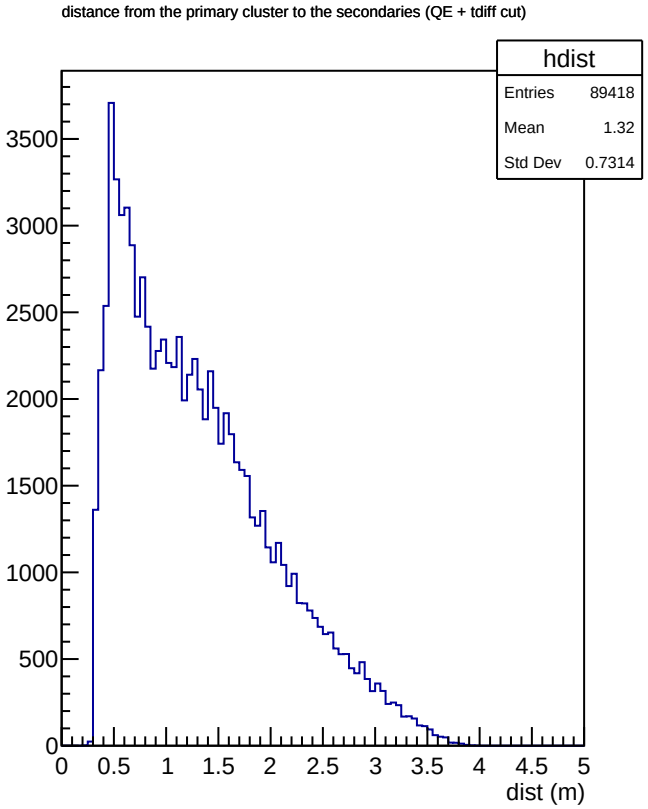

eratio distribution
h_eratio
Entries 945413
Mean 0.1119
Std Dev 0.1403
×10^3
number of secondary clusters
eratio

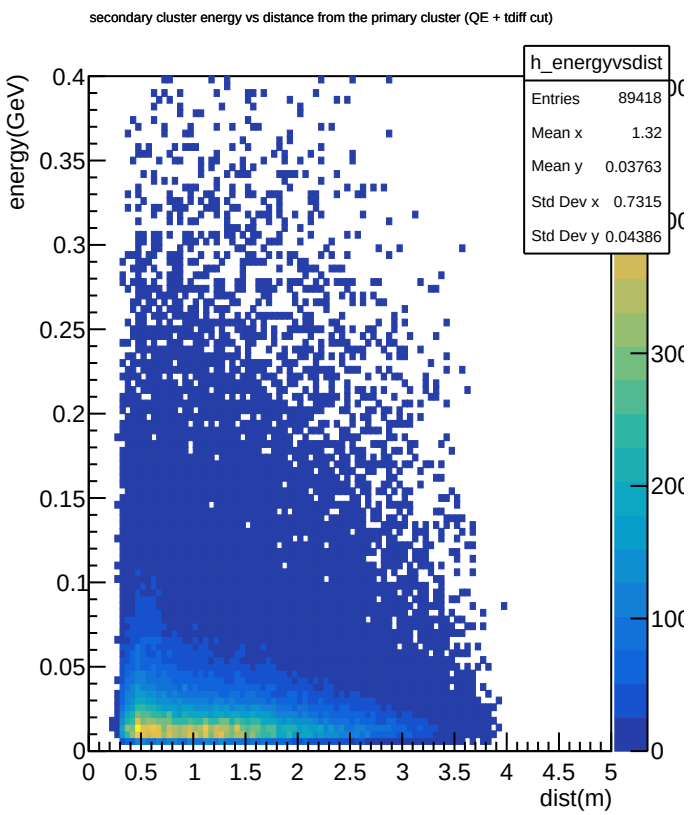

tdiff distribution
h_tdiff
Entries 945413
Mean −12.34
Std Dev 47.39
number of clusters
tdiff (ns)

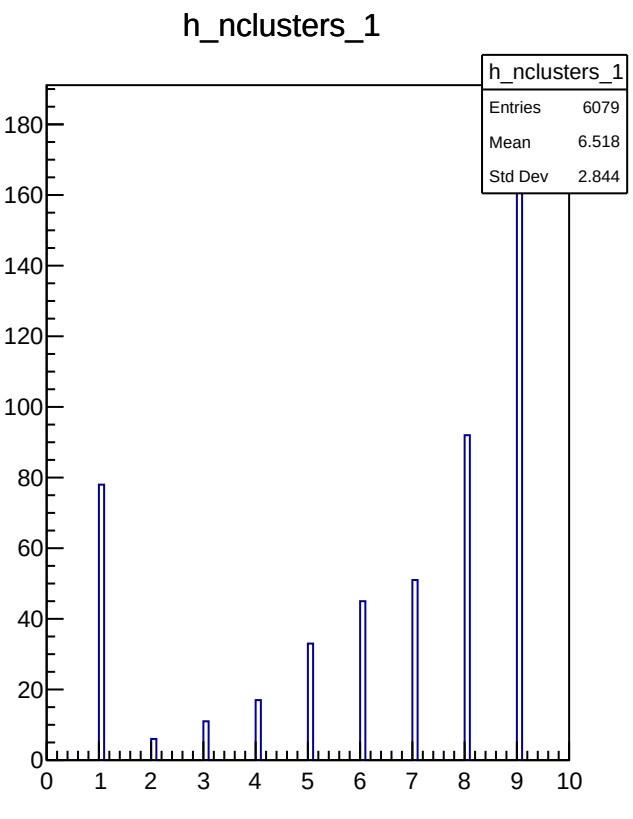

h_eratio_test
h_eratio_test
Entries 945413
Mean 0.1118
Std Dev 0.1403
×10^3

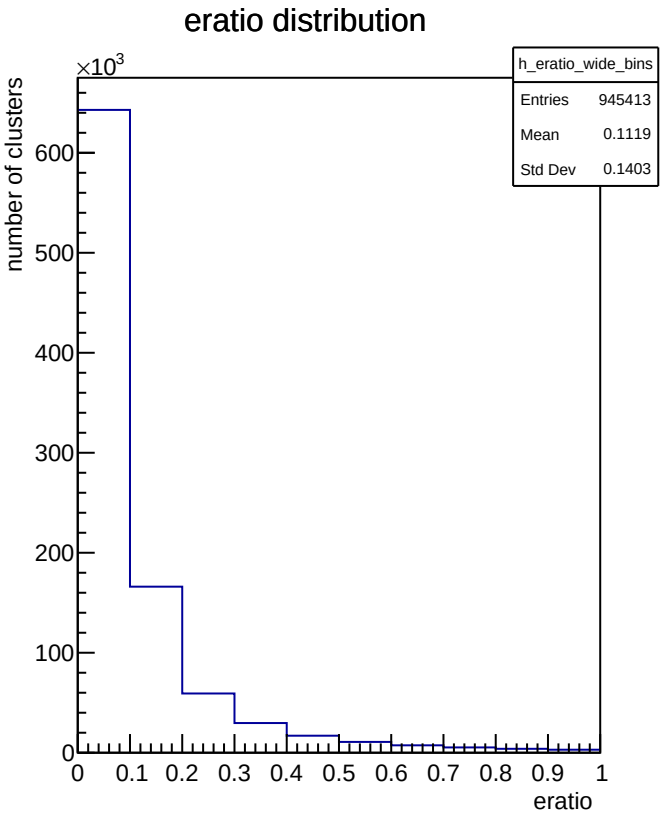

h_eratio_test1
h_eratio_test1
Entries 108203
Mean 0.2971
Std Dev 0.237

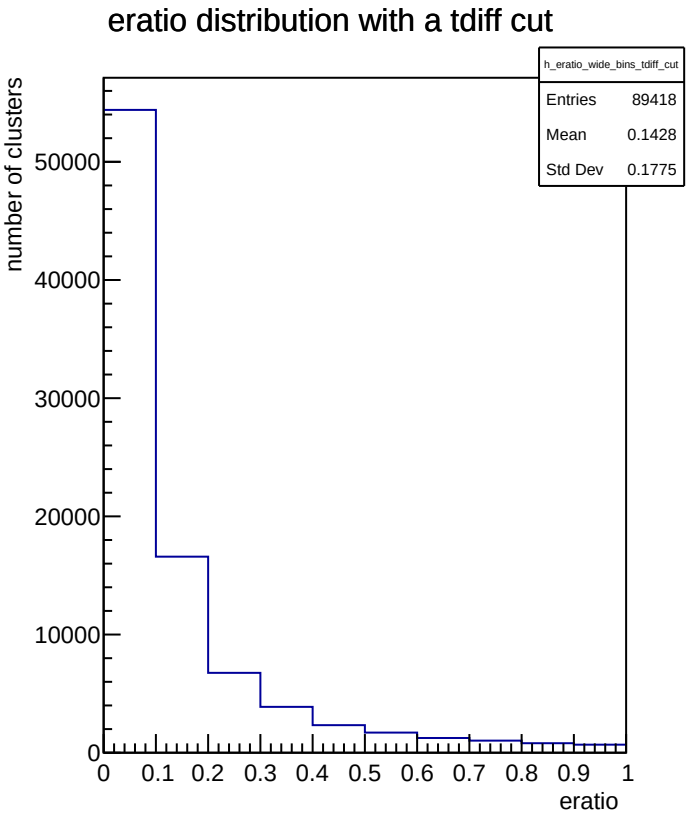

h_nclusters
h_nclusters
Entries 10069
Mean 6.919
Std Dev 2.435

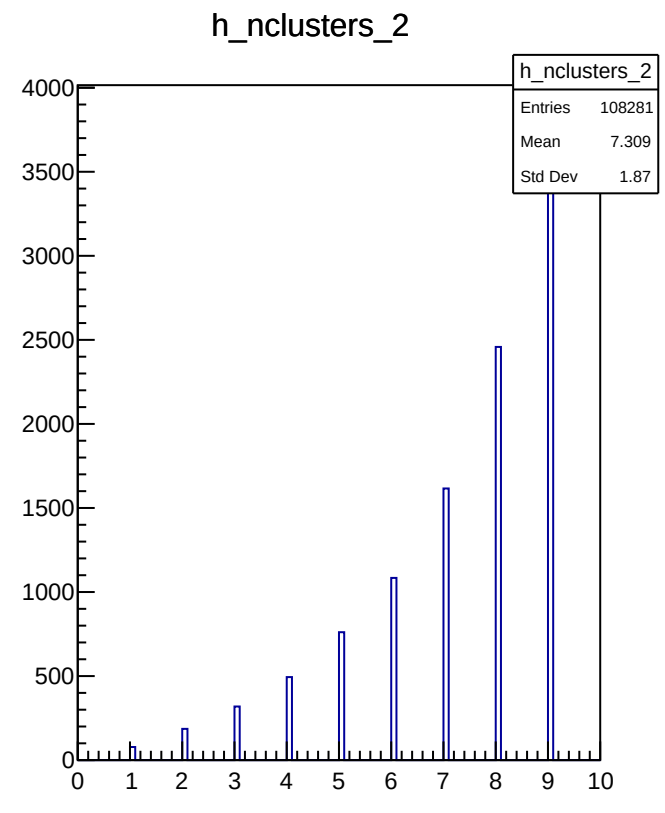

distance from the primary cluster to the secondaries (QE + tdiff cut)
hdist
Entries 89418
Mean 1.32
Std Dev 0.7314
dist (m)

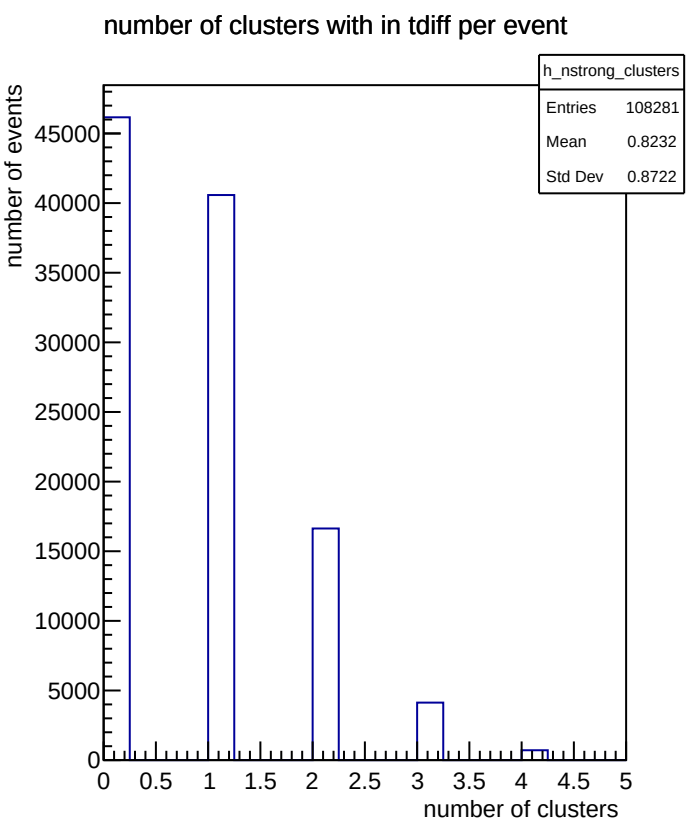

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut)
h_energyvsdist
Entries 89418
Mean x 1.32
Mean y 0.03763
Std Dev x 0.7315
Std Dev y 0.04386
energy(GeV)
dist(m)

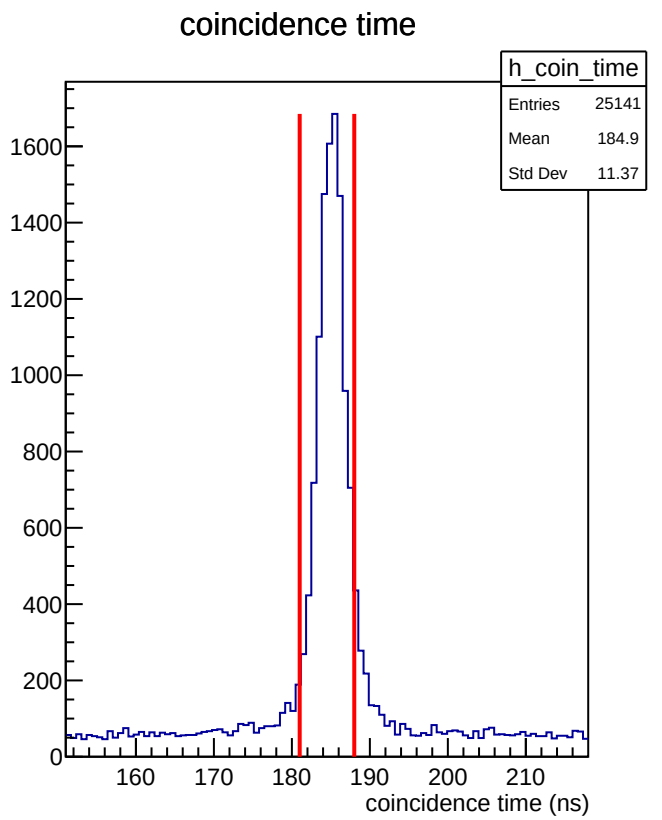

h_nclusters_1
h_nclusters_1
Entries 6079
Mean 6.518
Std Dev 2.844

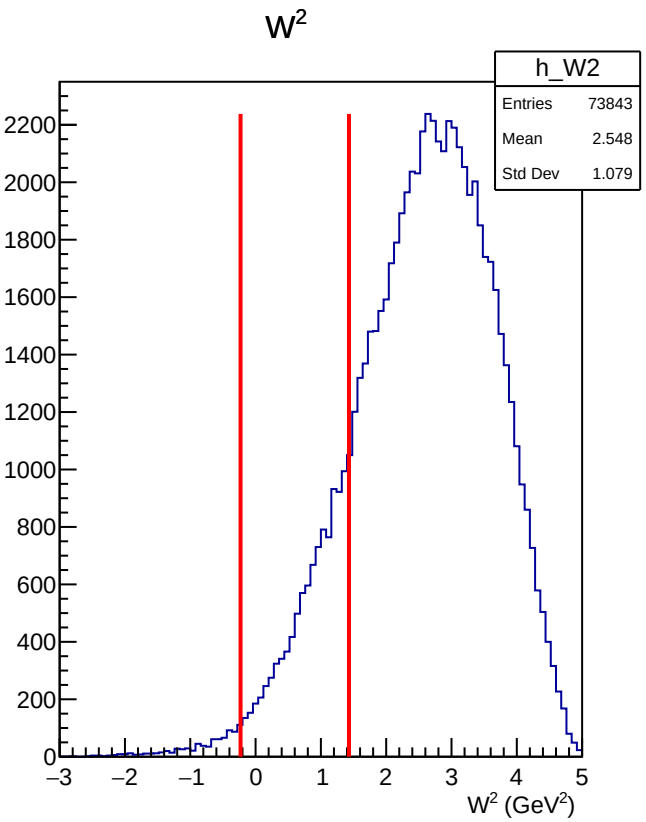

eratio distribution
h_eratio_wide_bins
Entries 945413
Mean 0.1119
Std Dev 0.1403
×10^3
number of clusters
eratio

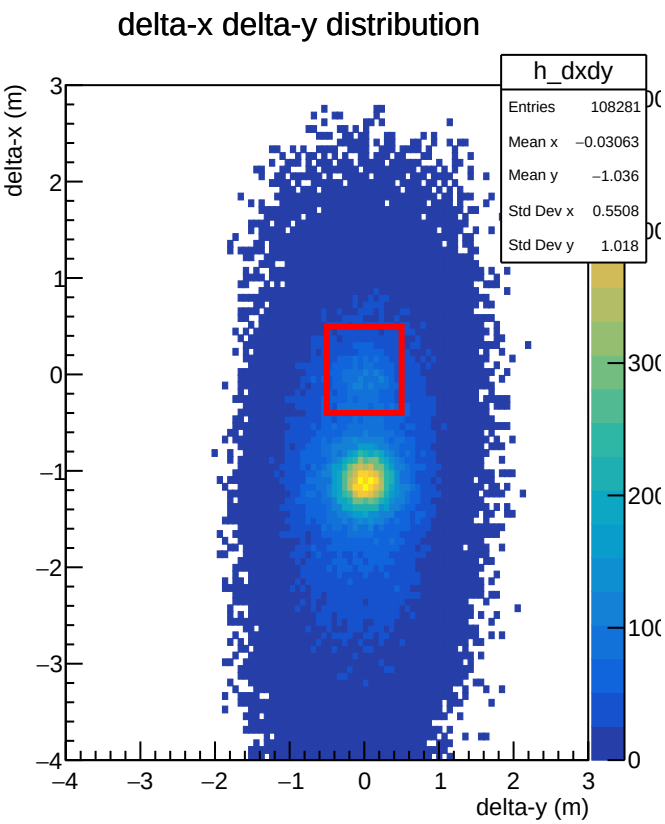

eratio distribution with a tdiff cut
h_eratio_wide_bins_tdiff_cut
Entries 89418
Mean 0.1428
Std Dev 0.1775
number of clusters
eratio


h_nclusters_2
h_nclusters_2
Entries 108281
Mean 7.309
Std Dev 1.87

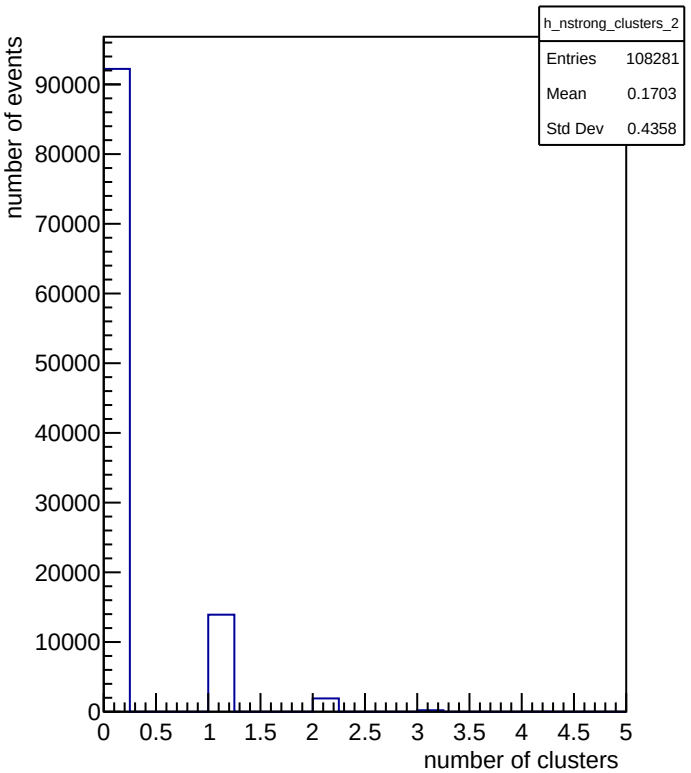

number of clusters with in tdiff per event
h_nstrong_clusters
Entries 108281
Mean 0.8232
Std Dev 0.8722
number of events
number of clusters


coincidence time
h_coin_time
Entries 25141
Mean 184.9
Std Dev 11.37
coincidence time (ns)

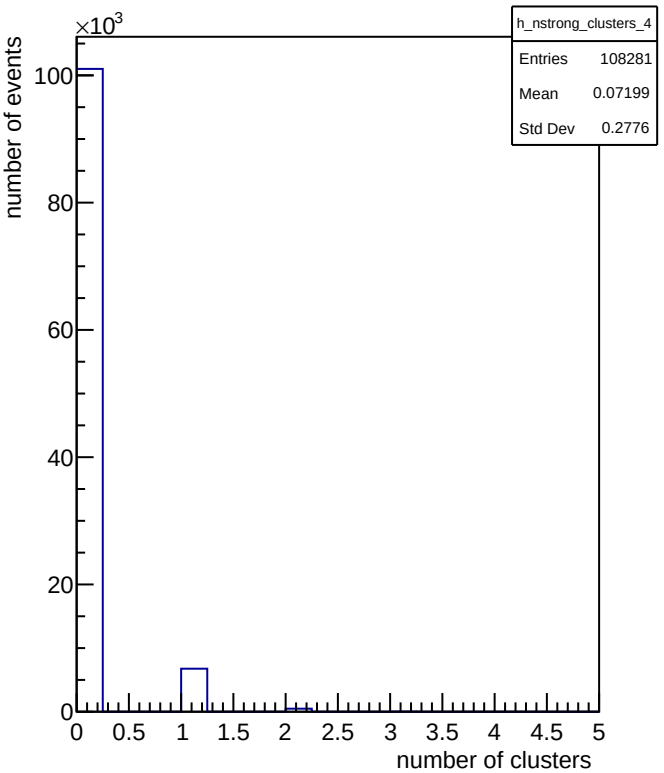

W²
h_W2
Entries 73843
Mean 2.548
Std Dev 1.079
W² (GeV²)


delta-x delta-y distribution
h_dxdy
Entries 108281
Mean x −0.03063
Mean y −1.036
Std Dev x 0.5508
Std Dev y 1.018
delta-x (m)
delta-y (m)

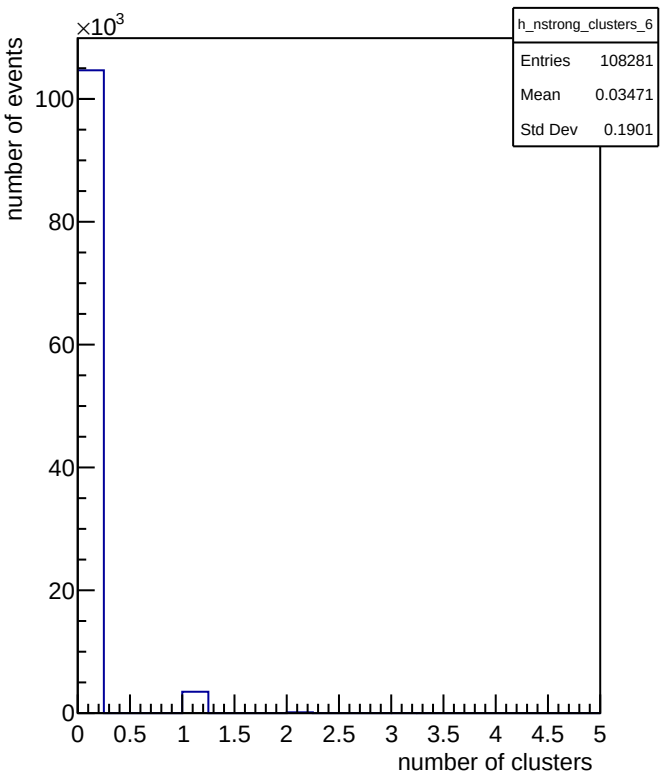
number of clusters with in tdiff with eratio>0.2 per event



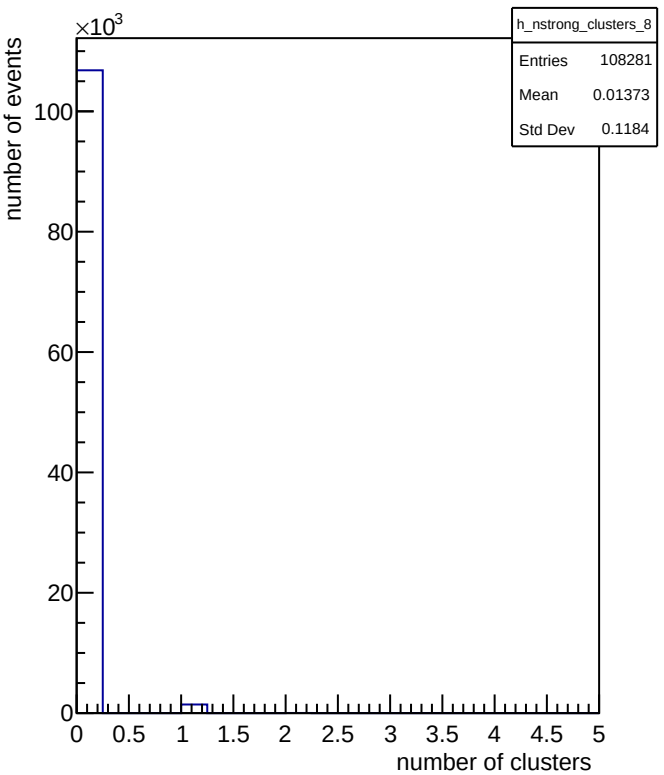
number of clusters with in tdiff with eratio>0.4 per event

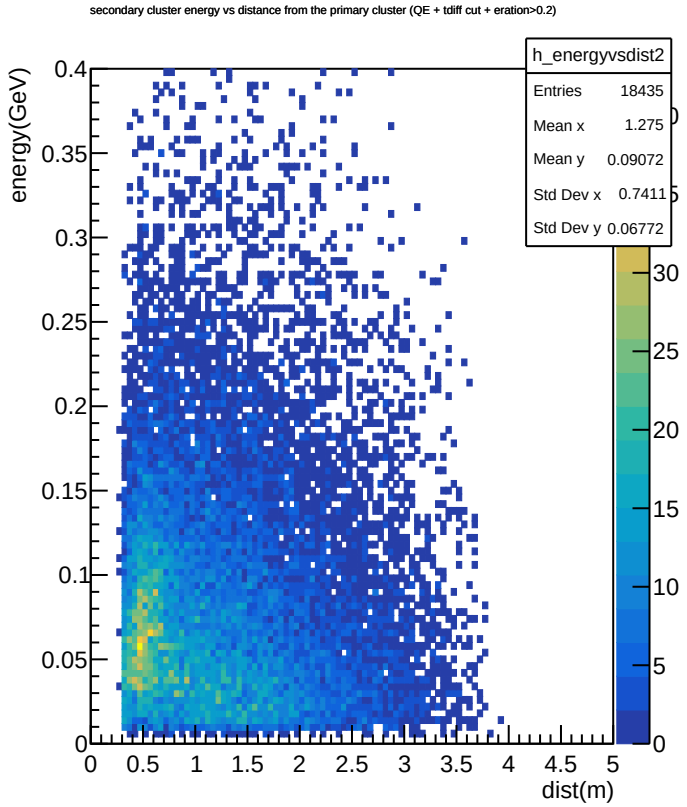


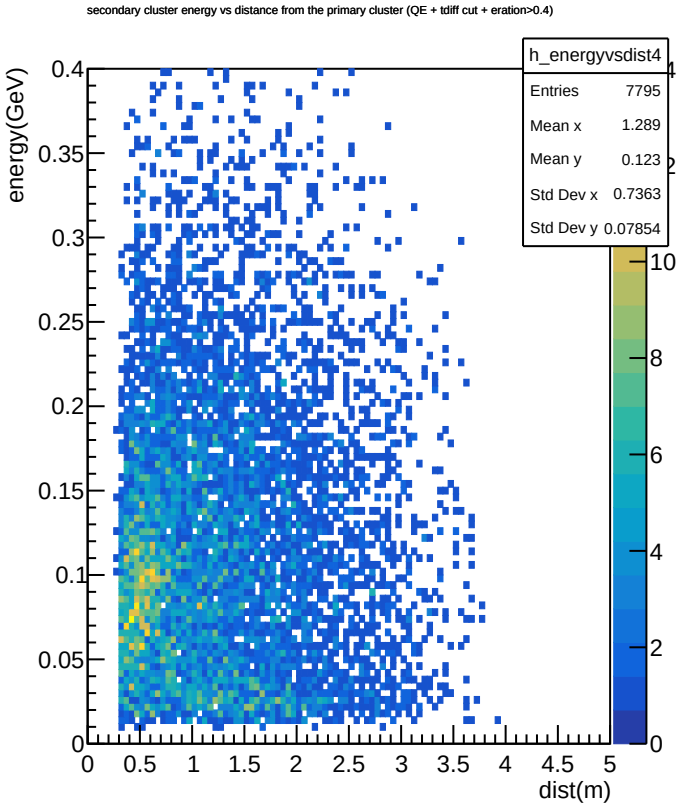
number of clusters with in tdiff with eratio>0.6 per event

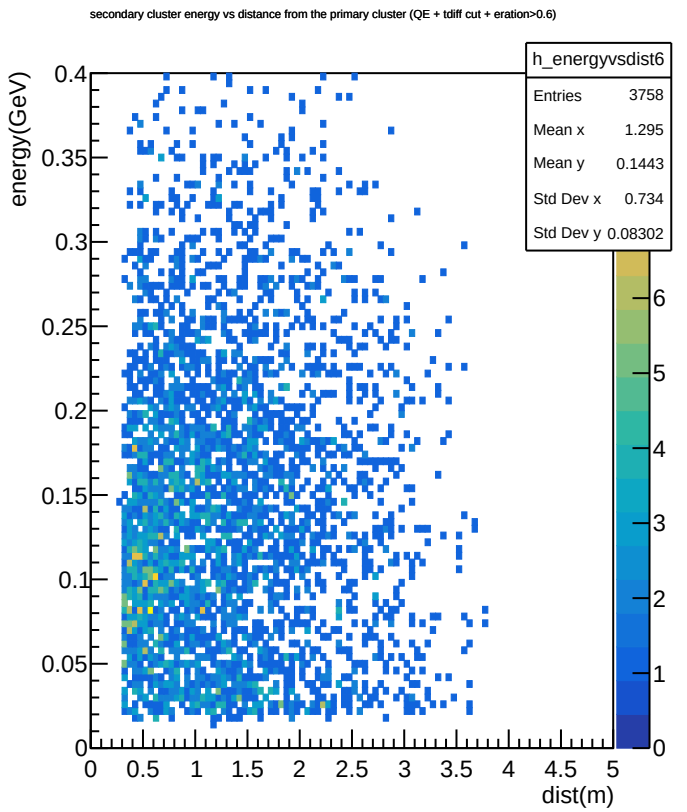


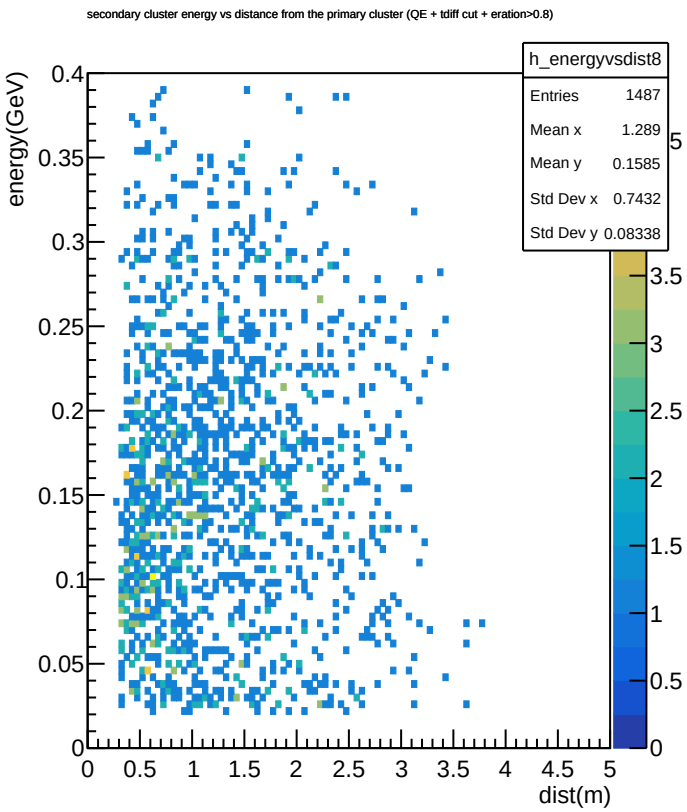
number of clusters with in tdiff with eratio>0.8 per event



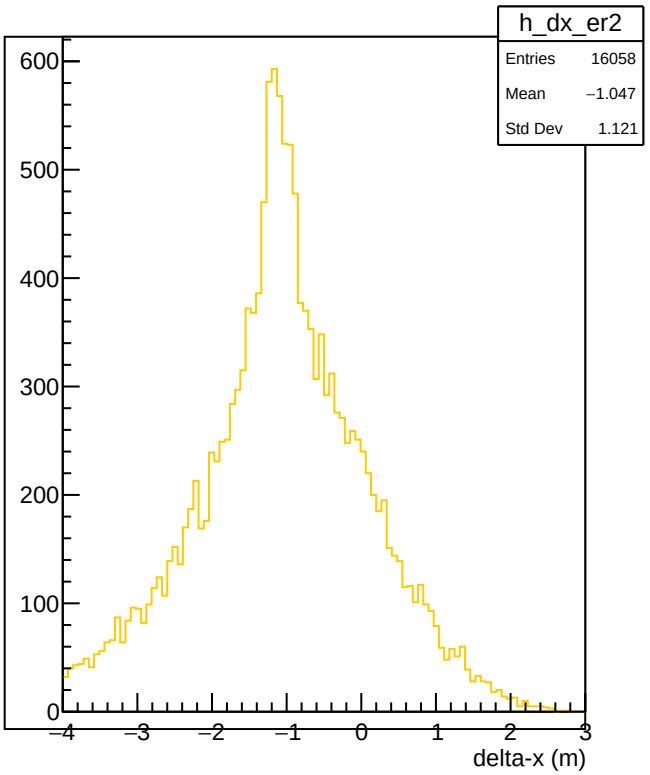

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.2)
h_energyvsdist2
Entries 18435
Mean x 1.275
Mean y 0.09072
Std Dev x 0.7411
Std Dev y 0.06772
energy(GeV)
dist(m)


secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.4)
h_energyvsdist4
Entries 7795
Mean x 1.289
Mean y 0.123
Std Dev x 0.7363
Std Dev y 0.07854
energy(GeV)
dist(m)

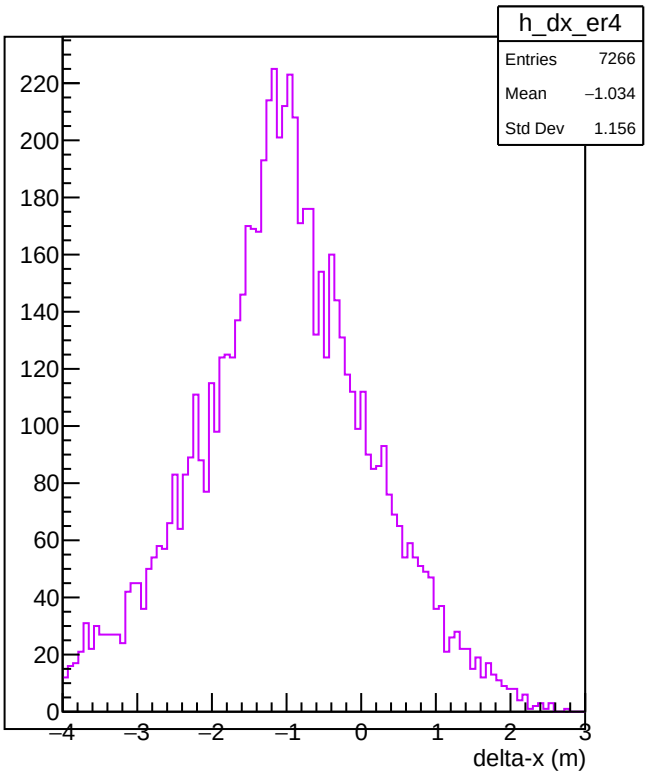

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.6)
h_energyvsdist6
Entries 3758
Mean x 1.295
Mean y 0.1443
Std Dev x 0.734
Std Dev y 0.08302
energy(GeV)
dist(m)


secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.8)
h_energyvsdist8
Entries 1487
Mean x 1.289
Mean y 0.1585
Std Dev x 0.7432
Std Dev y 0.08338
energy(GeV)
dist(m)

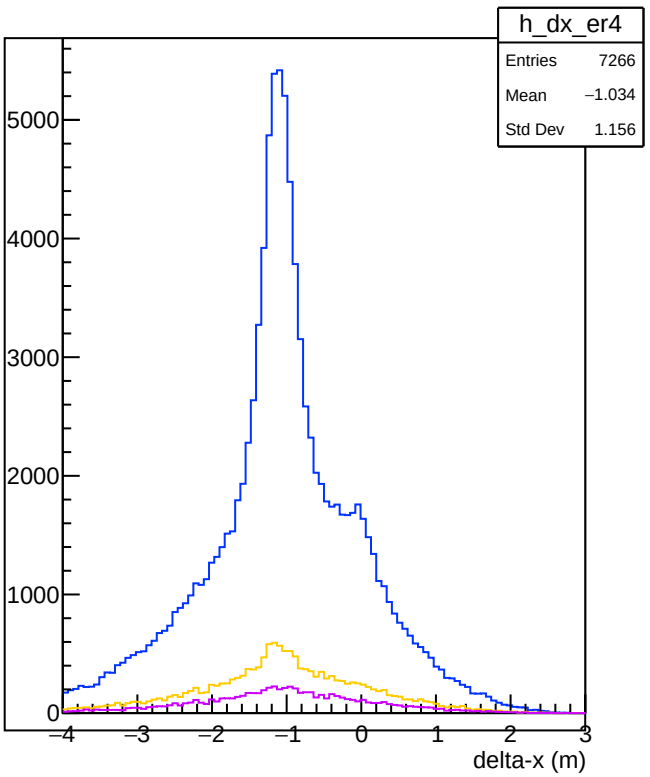
delta-x distribution for eratio<0.2 with other QE cuts



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



delta-x distribution with QE cuts

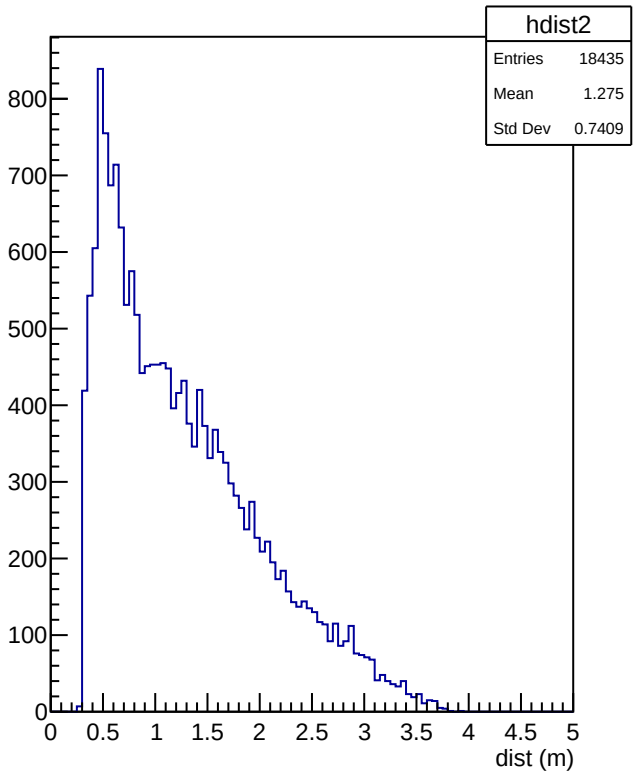


primary clusters

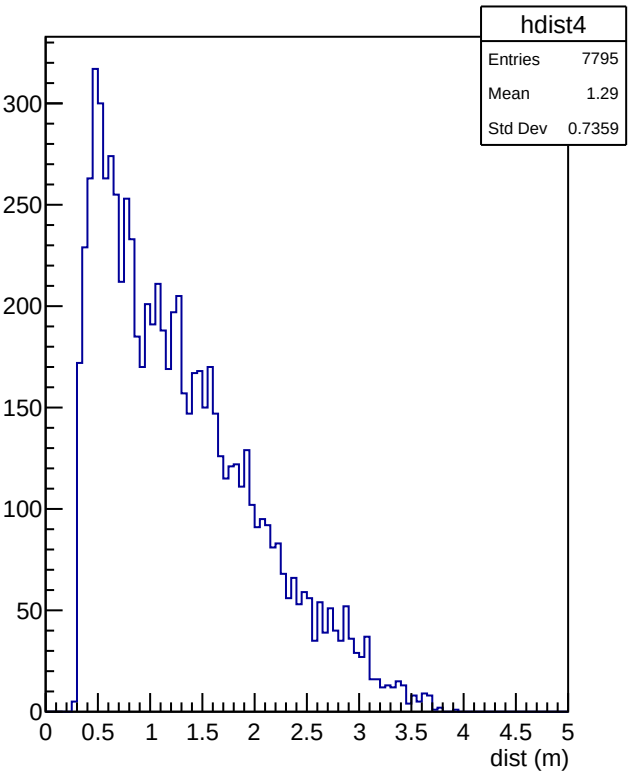
$E_{sec}/E_{prim} > 0.2$

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

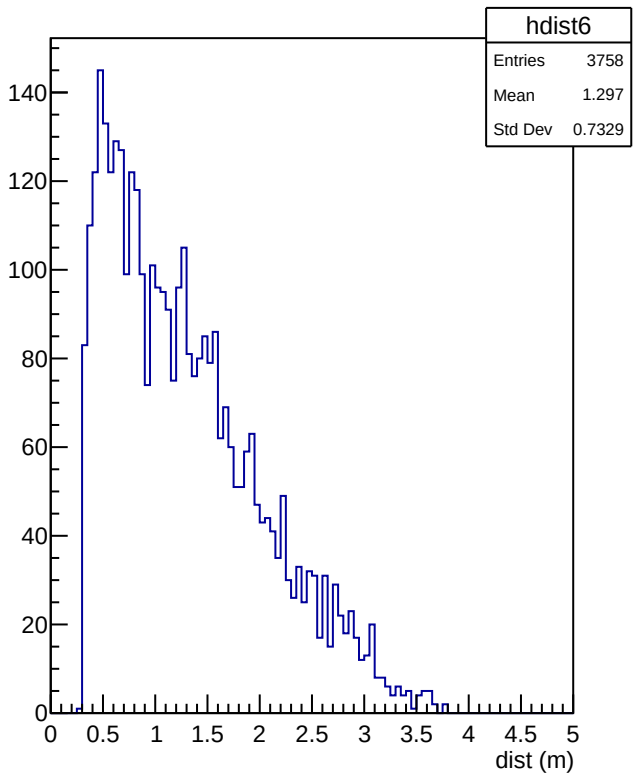
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.2)



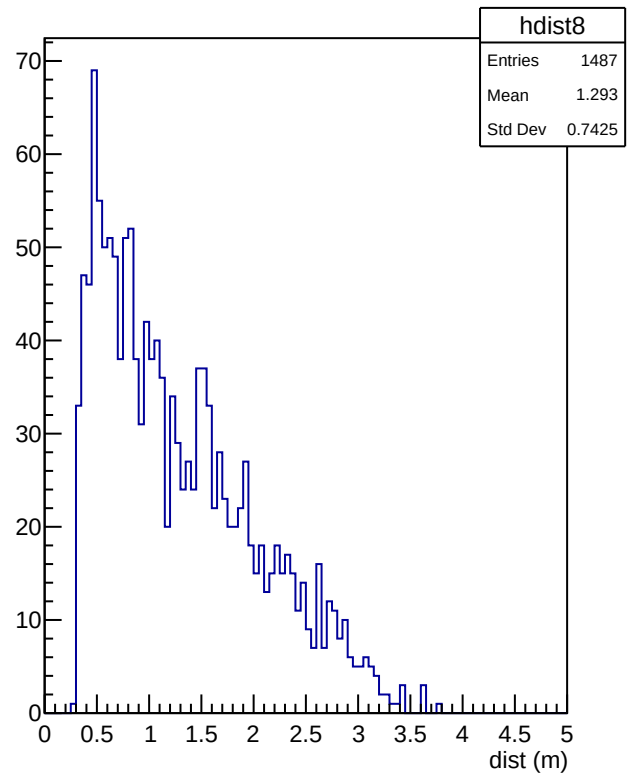
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.4)



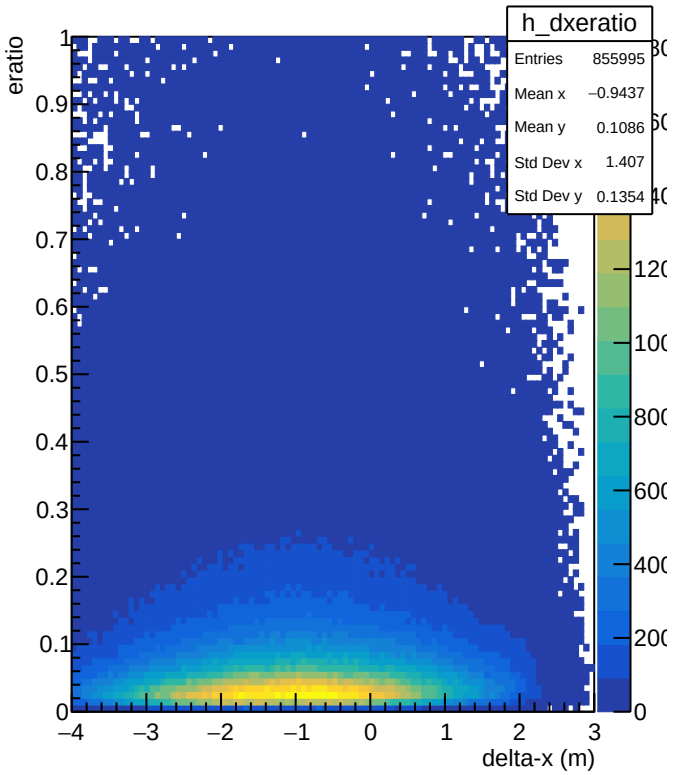
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.6)



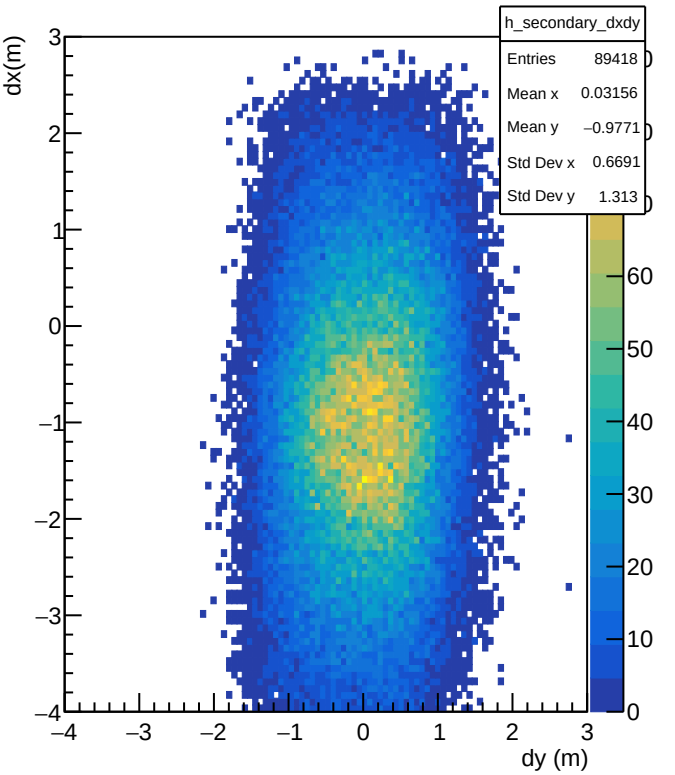
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.8)



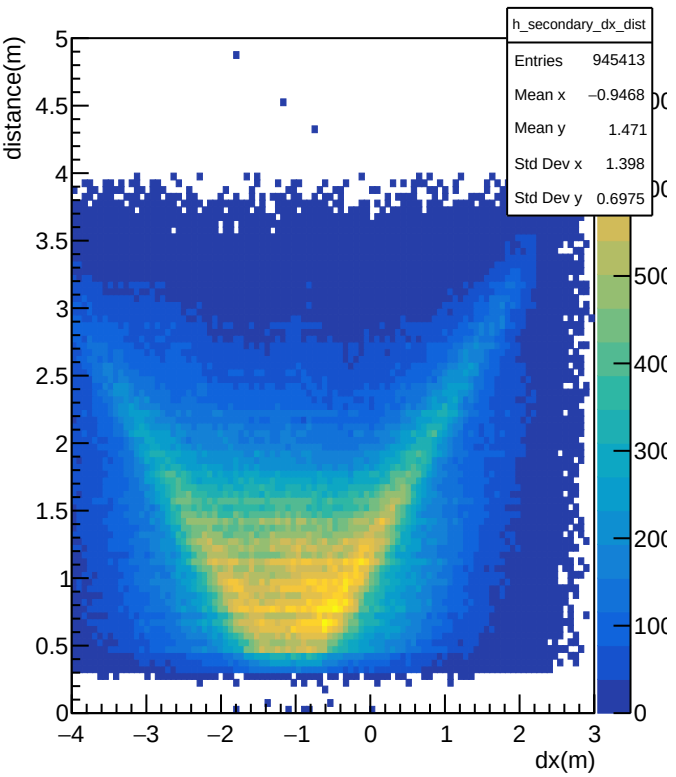
eratio vs delta-x



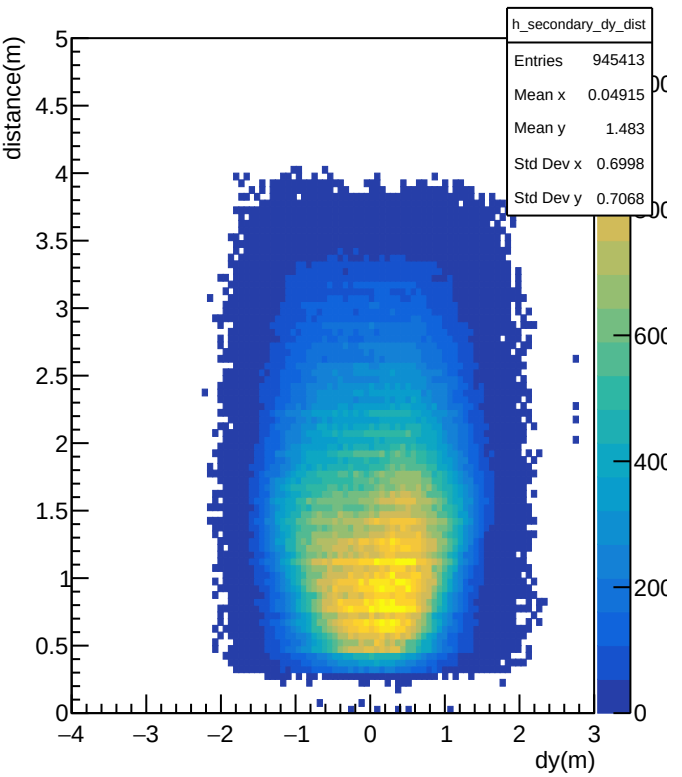
delta-x vs delta-y for secondary clusters (QE + tdiff)

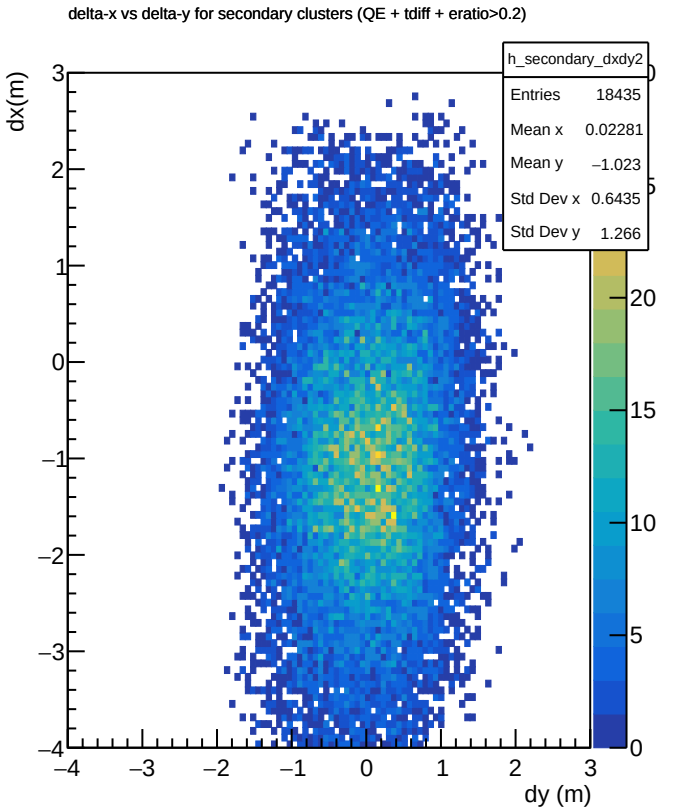


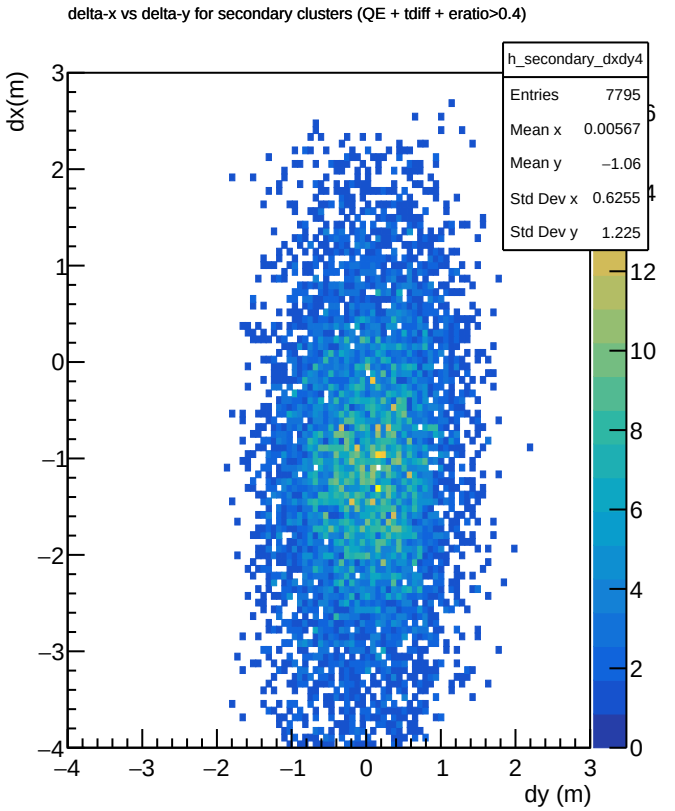
distance vs delta-x (QE cuts)

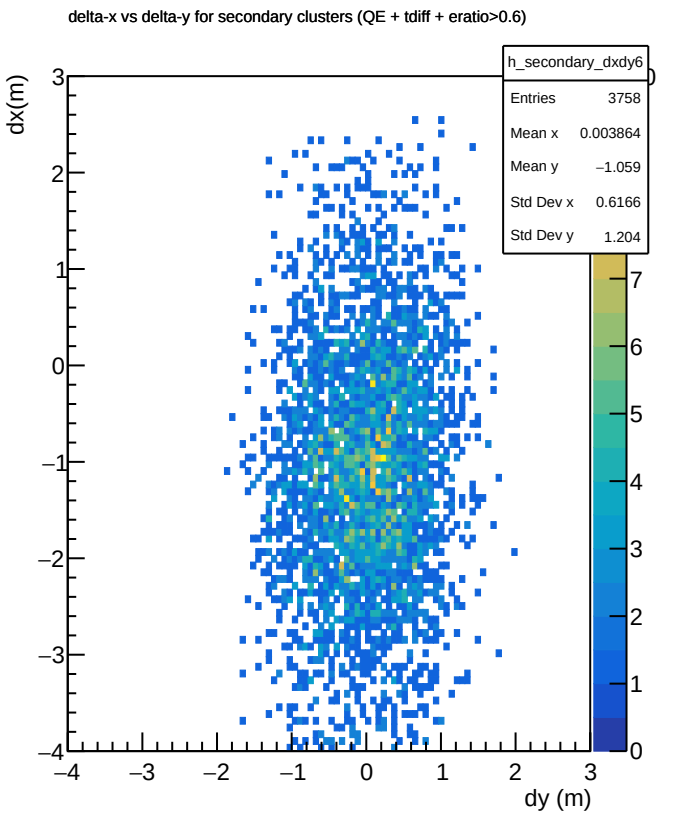


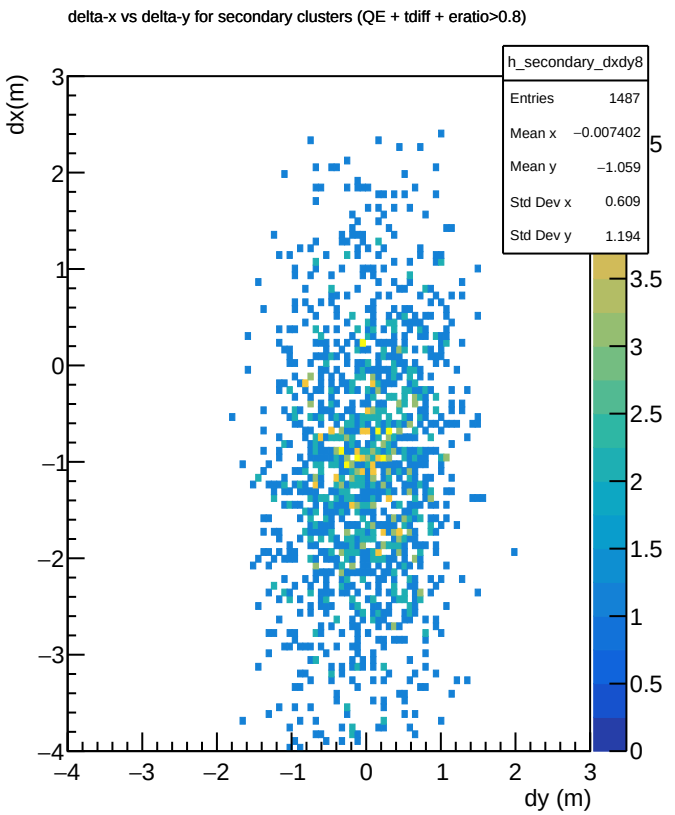
distance vs delta-y (QE cuts)

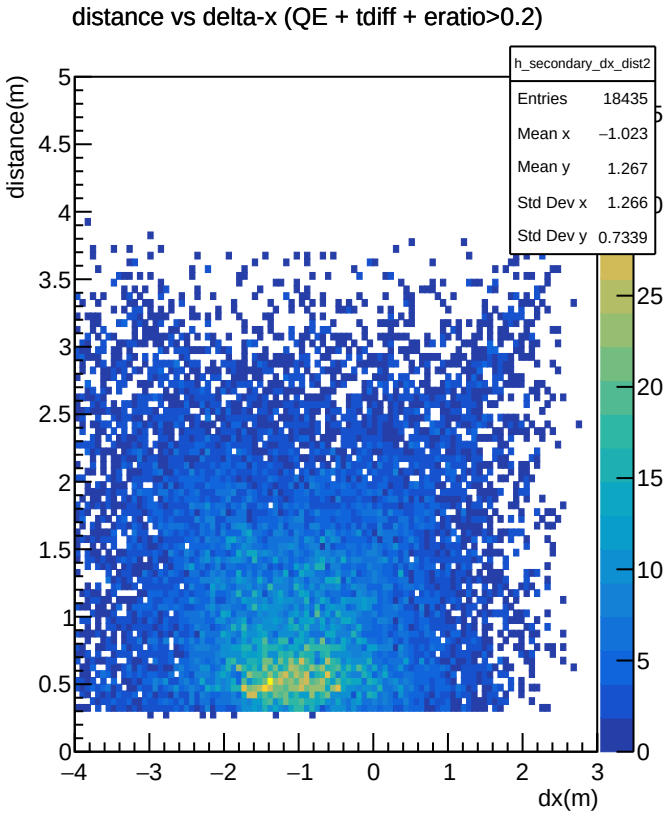


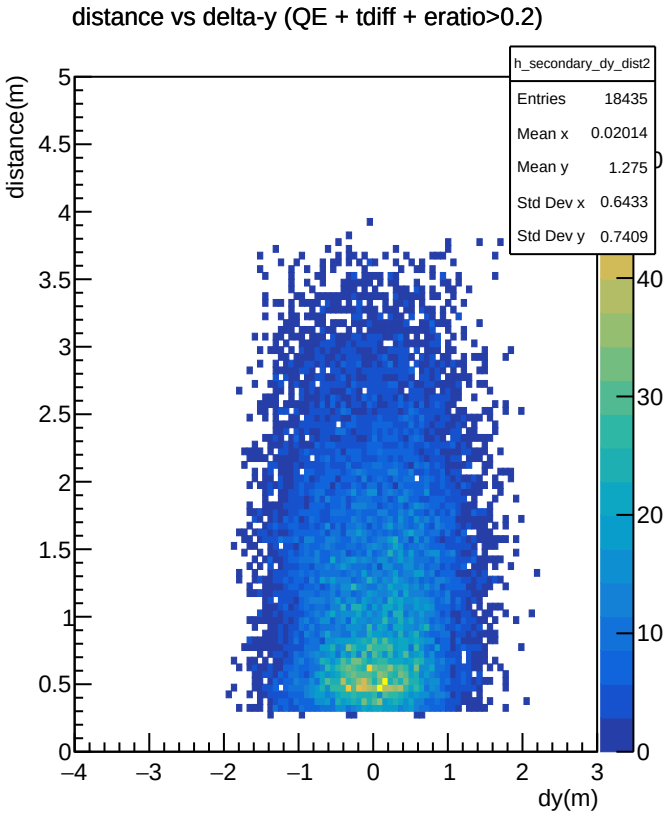

delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.2)
h_secondary_dxdy2
Entries 18435
Mean x 0.02281
Mean y −1.023
Std Dev x 0.6435
Std Dev y 1.266
dx(m)
dy (m)

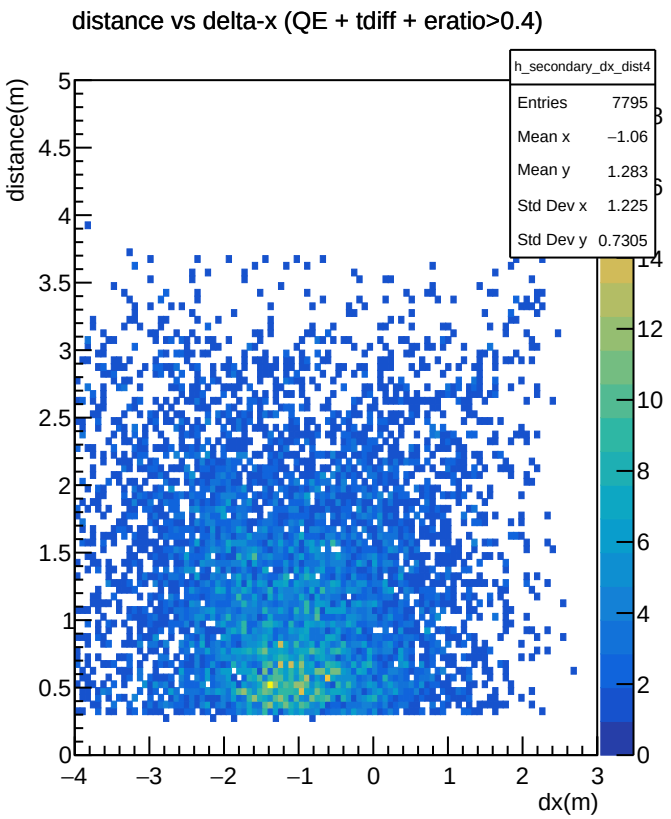

delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.4)
h_secondary_dxdy4
Entries 7795
Mean x 0.00567
Mean y −1.06
Std Dev x 0.6255
Std Dev y 1.225
dx(m)
dy (m)

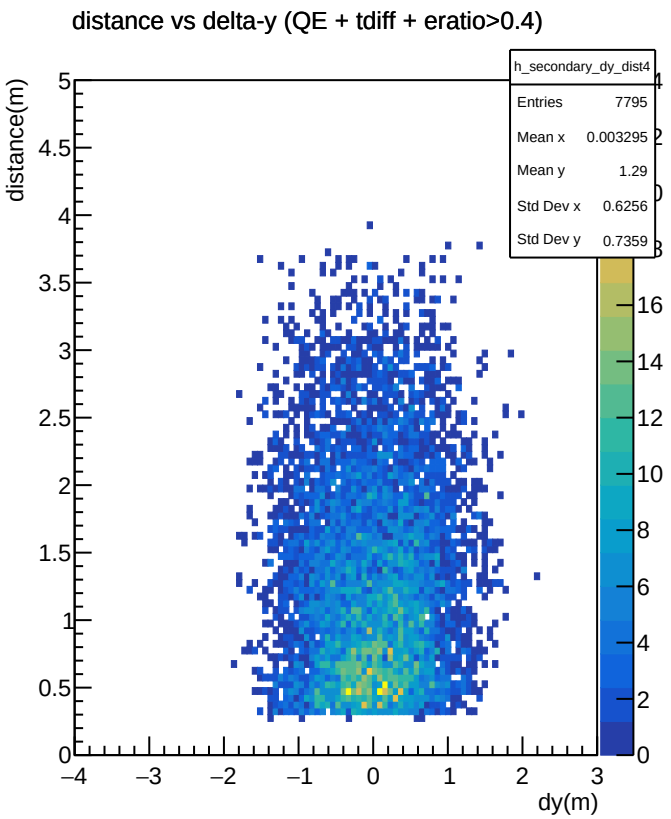

delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.6)
h_secondary_dxdy6
Entries 3758
Mean x 0.003864
Mean y −1.059
Std Dev x 0.6166
Std Dev y 1.204
dx(m)
dy (m)


delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.8)
h_secondary_dxdy8
Entries 1487
Mean x −0.007402
Mean y −1.059
Std Dev x 0.609
Std Dev y 1.194
dx(m)
dy (m)


distance vs delta-x (QE + tdiff + eratio>0.2)
h_secondary_dx_dist2
Entries 18435
Mean x −1.023
Mean y 1.267
Std Dev x 1.266
Std Dev y 0.7339
distance(m)
dx(m)


distance vs delta-y (QE + tdiff + eratio>0.2)
h_secondary_dy_dist2
Entries 18435
Mean x 0.02014
Mean y 1.275
Std Dev x 0.6433
Std Dev y 0.7409
distance(m)
dy(m)


distance vs delta-x (QE + tdiff + eratio>0.4)
h_secondary_dx_dist4
Entries 7795
Mean x −1.06
Mean y 1.283
Std Dev x 1.225
Std Dev y 0.7305
distance(m)
dx(m)


distance vs delta-y (QE + tdiff + eratio>0.4)
h_secondary_dy_dist4
Entries 7795
Mean x 0.003295
Mean y 1.29
Std Dev x 0.6256
Std Dev y 0.7359
distance(m)
dy(m)