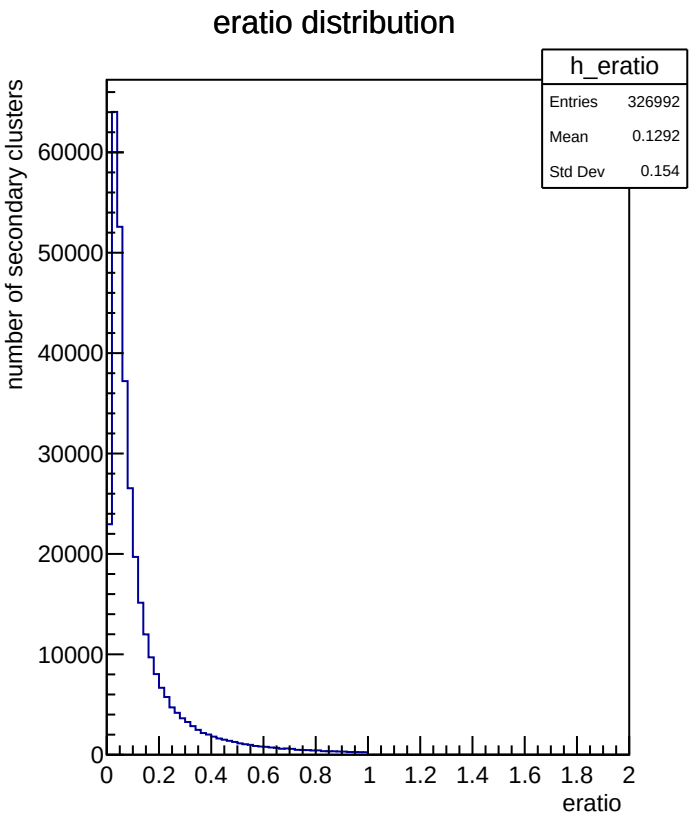
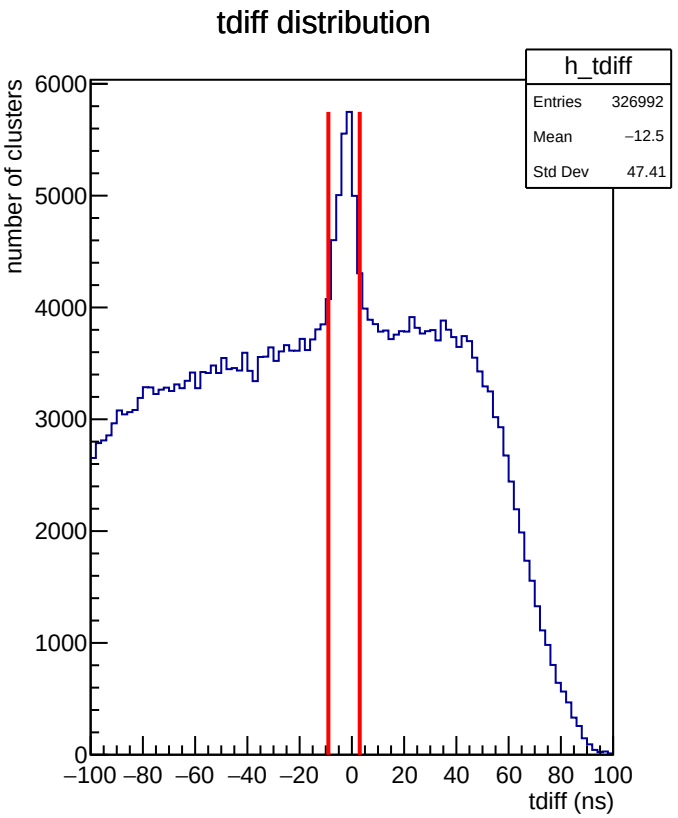
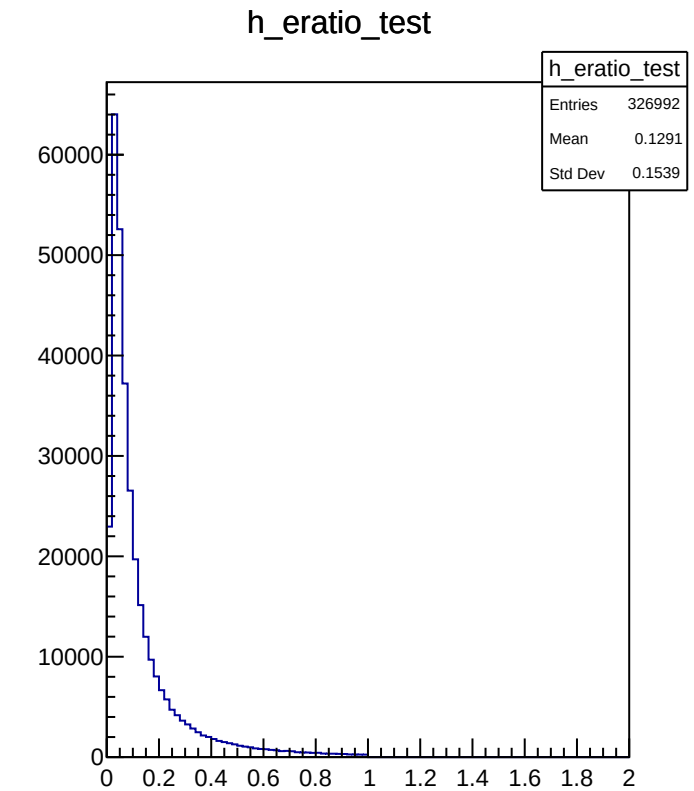
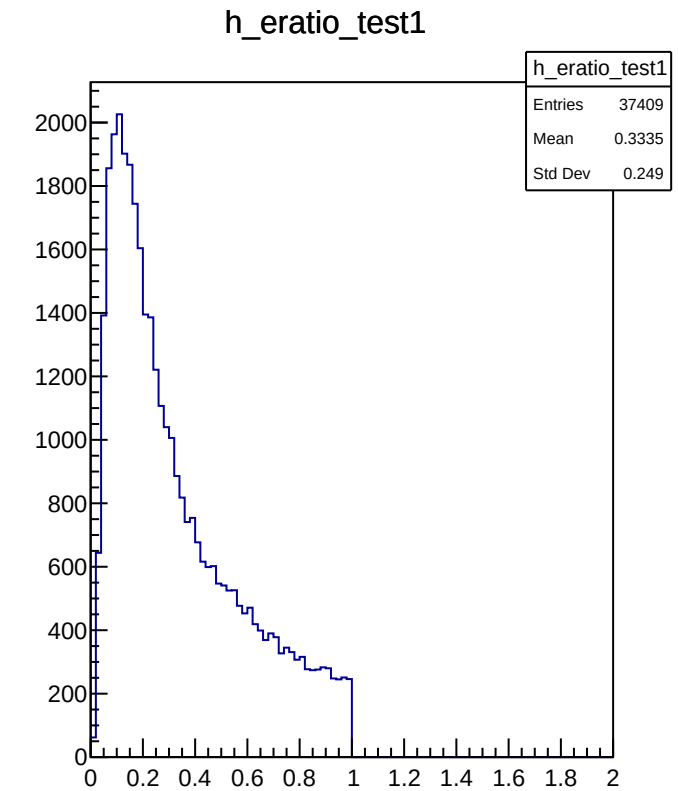
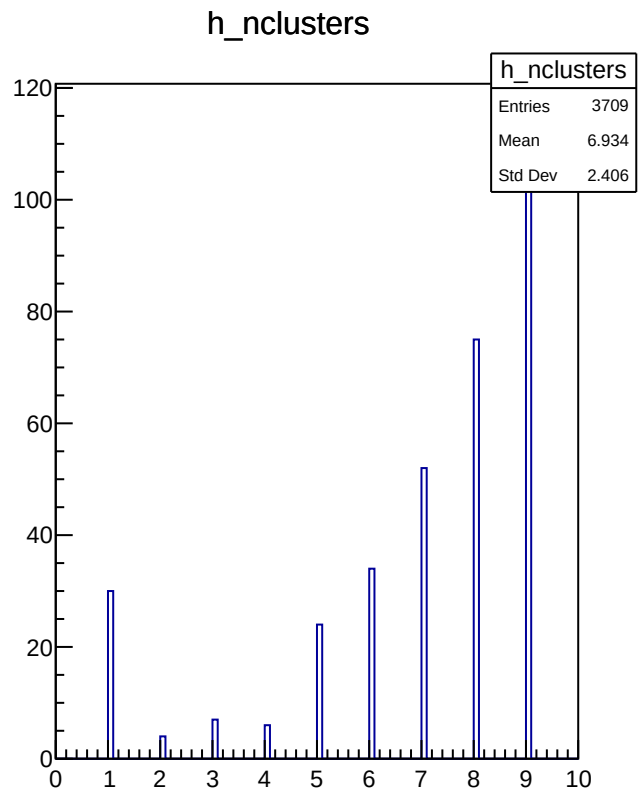
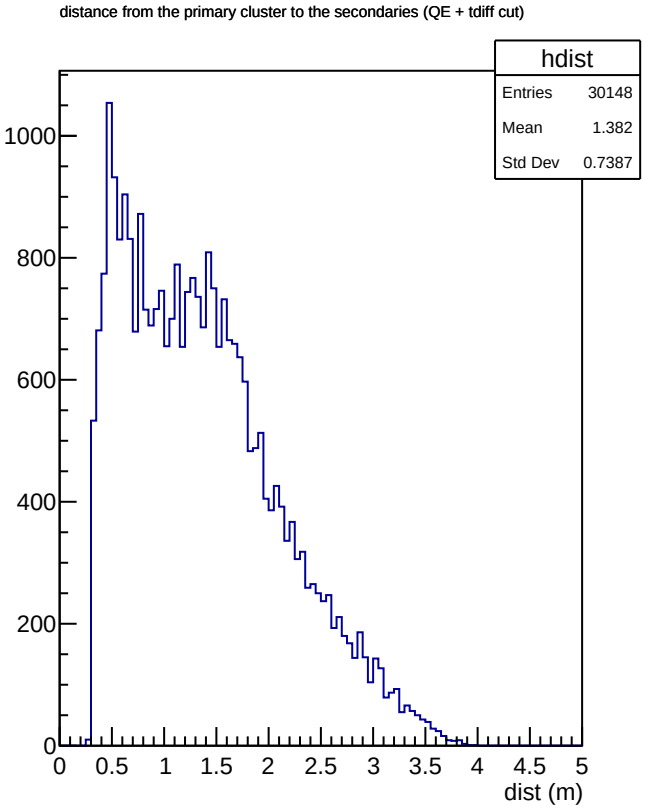

eratio distribution
h_eratio
Entries 326992
Mean 0.1292
Std Dev 0.154
number of secondary clusters
eratio

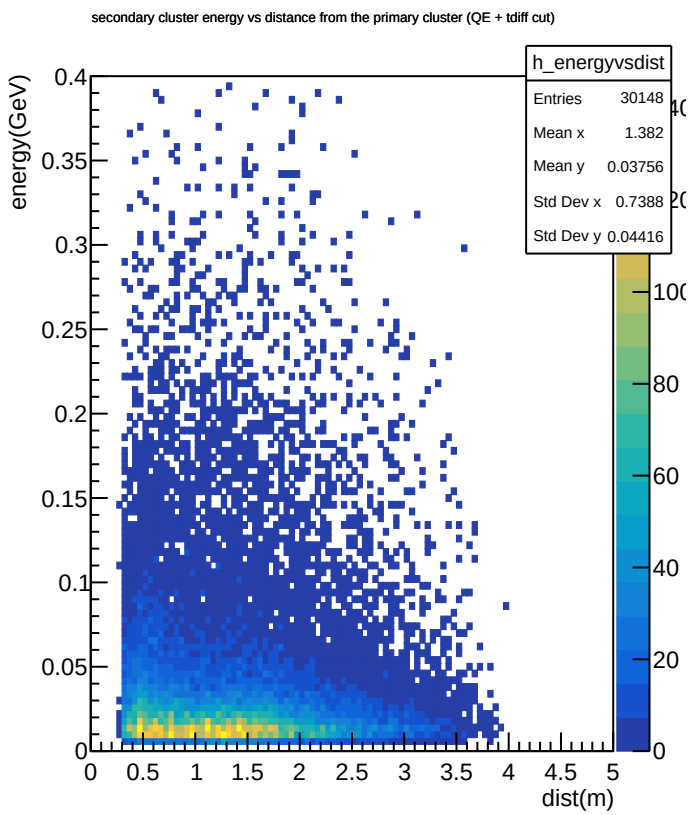

tdiff distribution
h_tdiff
Entries 326992
Mean −12.5
Std Dev 47.41
number of clusters
tdiff (ns)

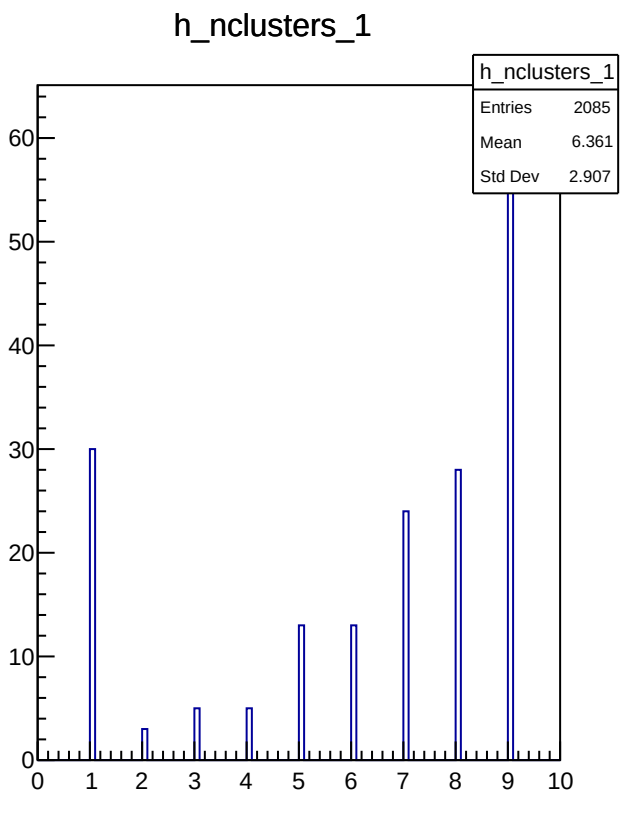

h_eratio_test
h_eratio_test
Entries 326992
Mean 0.1291
Std Dev 0.1539

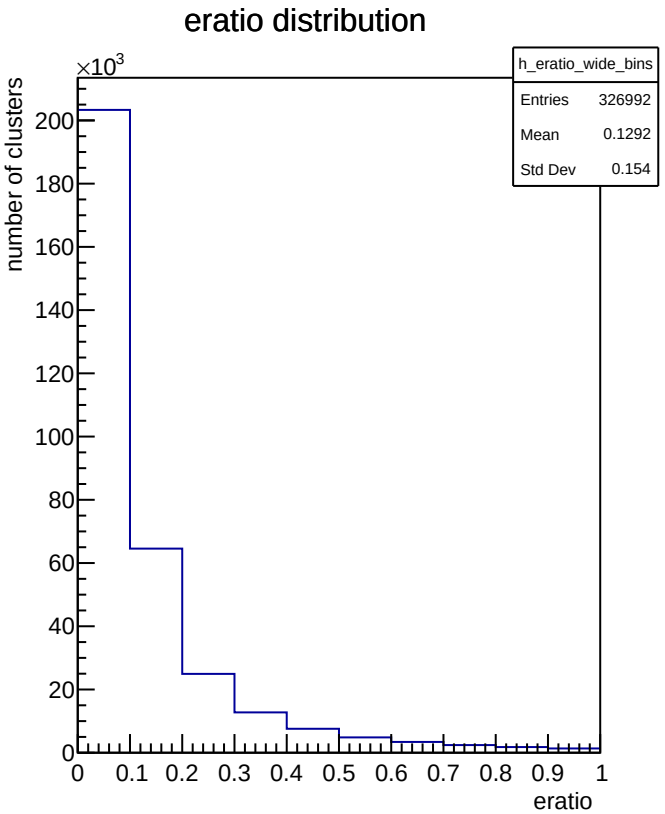

h_eratio_test1
h_eratio_test1
Entries 37409
Mean 0.3335
Std Dev 0.249

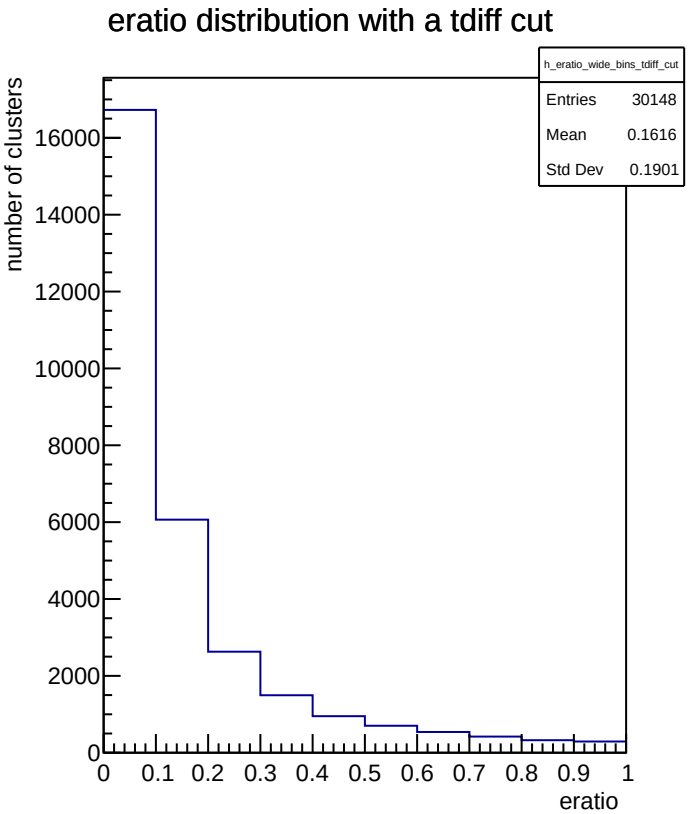

h_nclusters
h_nclusters
Entries 3709
Mean 6.934
Std Dev 2.406

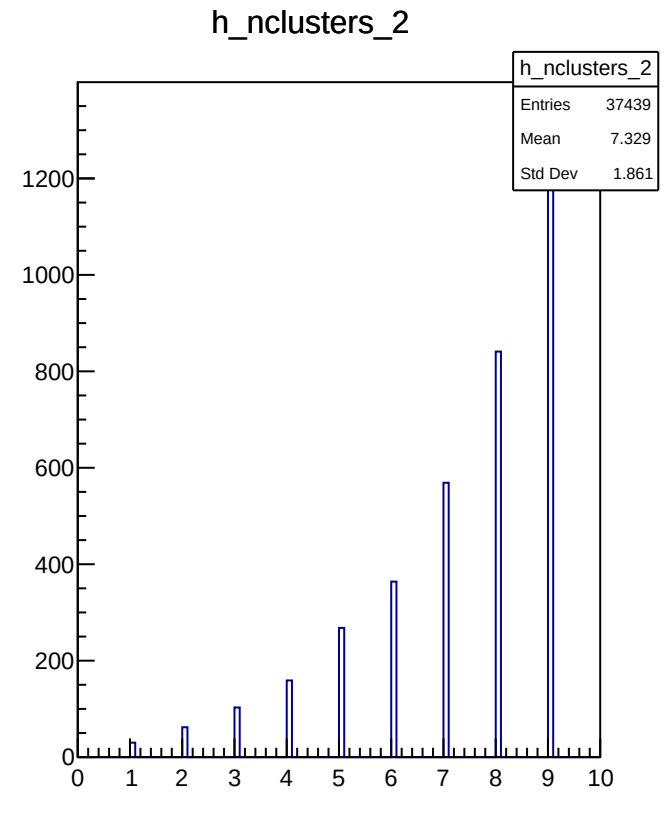

distance from the primary cluster to the secondaries (QE + tdiff cut)
hdist
Entries 30148
Mean 1.382
Std Dev 0.7387
dist (m)

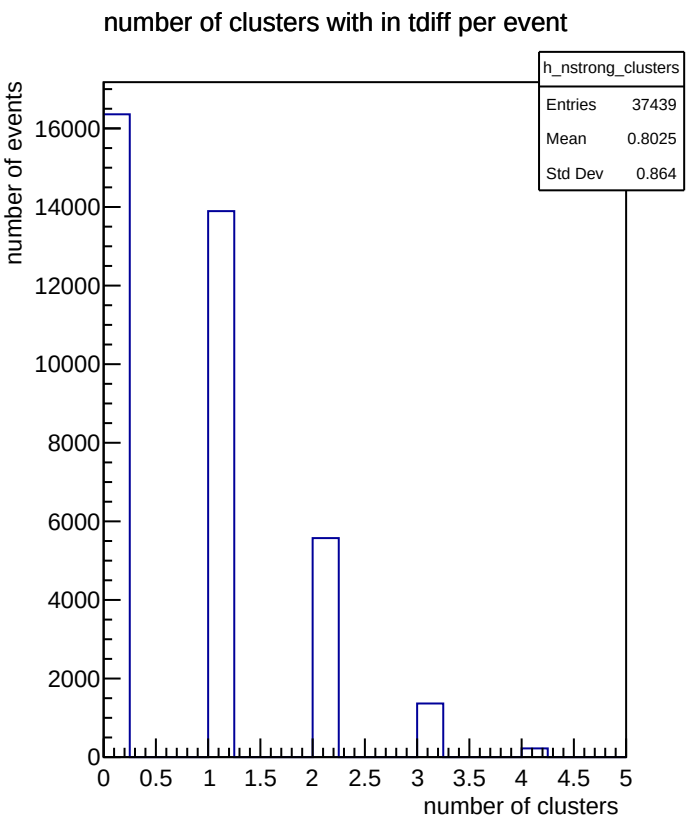

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut)
h_energyvsdist
Entries 30148
Mean x 1.382
Mean y 0.03756
Std Dev x 0.7388
Std Dev y 0.04416
energy(GeV)
dist(m)

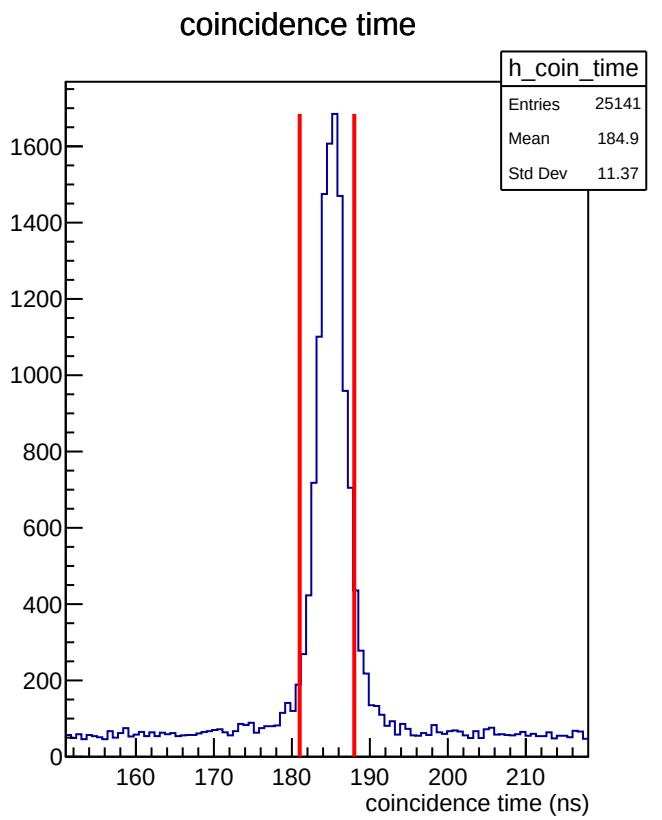

h_nclusters_1
h_nclusters_1
Entries 2085
Mean 6.361
Std Dev 2.907

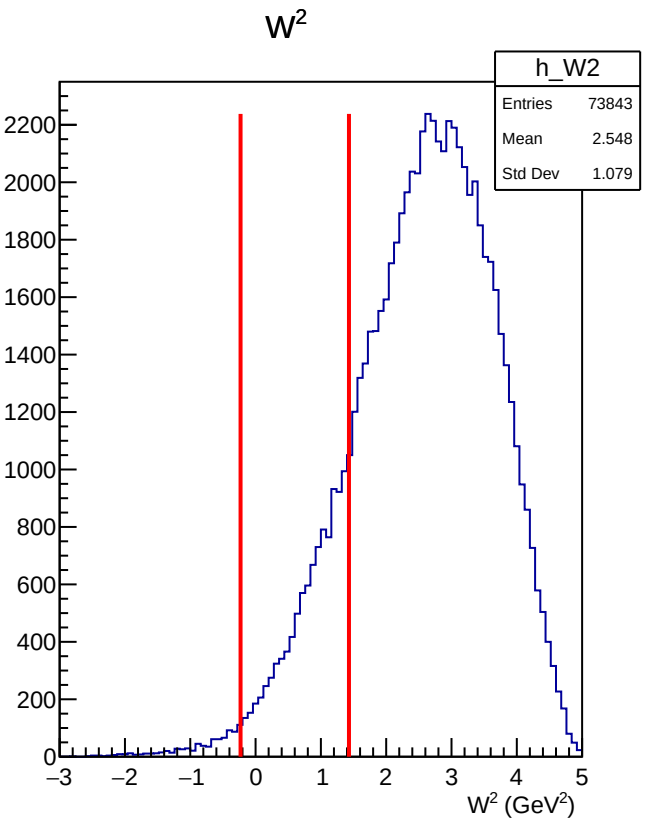

eratio distribution
h_eratio_wide_bins
Entries 326992
Mean 0.1292
Std Dev 0.154
×10^3
number of clusters
eratio

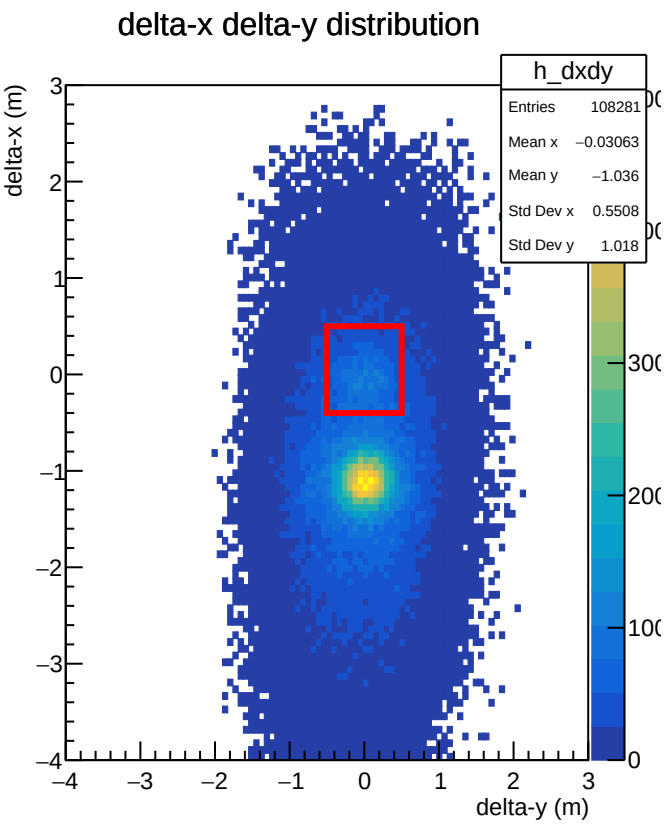

eratio distribution with a tdiff cut
h_eratio_wide_bins_tdiff_cut
Entries 30148
Mean 0.1616
Std Dev 0.1901
number of clusters
eratio


h_nclusters_2
h_nclusters_2
Entries 37439
Mean 7.329
Std Dev 1.861

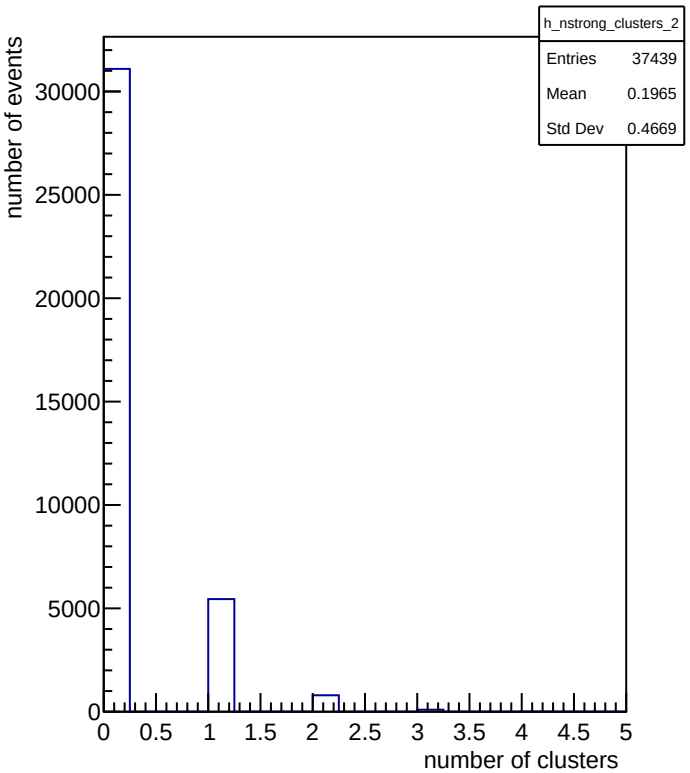

number of clusters with in tdiff per event
h_nstrong_clusters
Entries 37439
Mean 0.8025
Std Dev 0.864
number of events
number of clusters


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

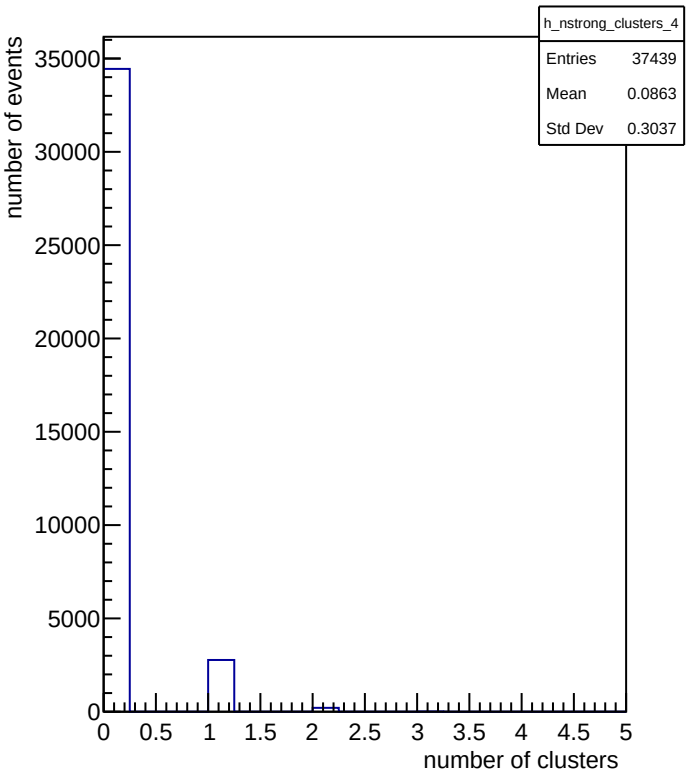

W²
h_W2
Entries 73843
Mean 2.548
Std Dev 1.079
W² (GeV²)


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)

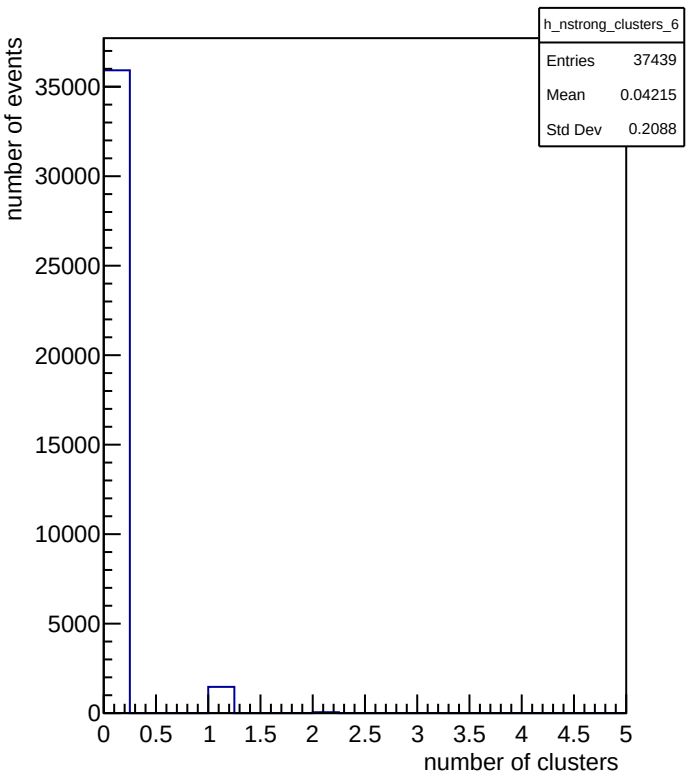
number of clusters with in tdiff with eratio>0.2 per event



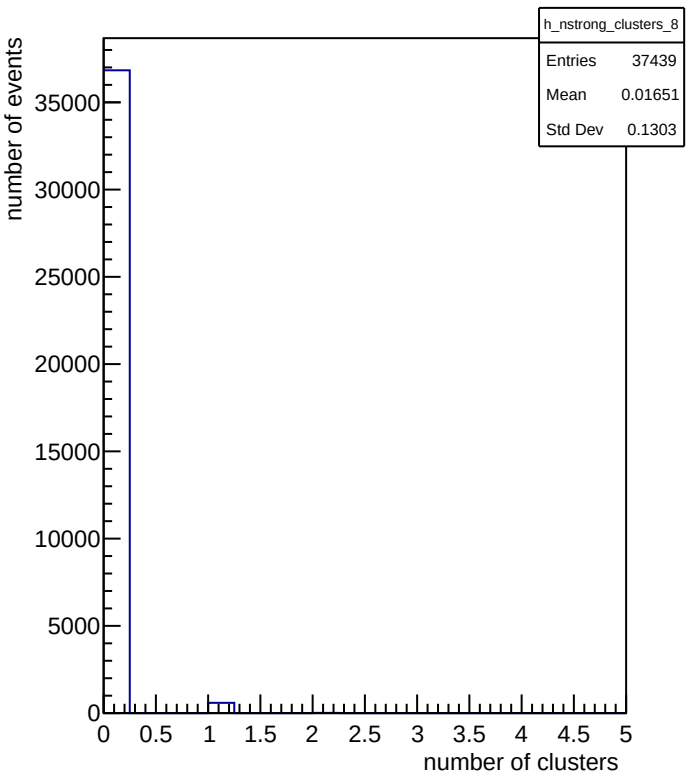
number of clusters with in tdiff with eratio>0.4 per event

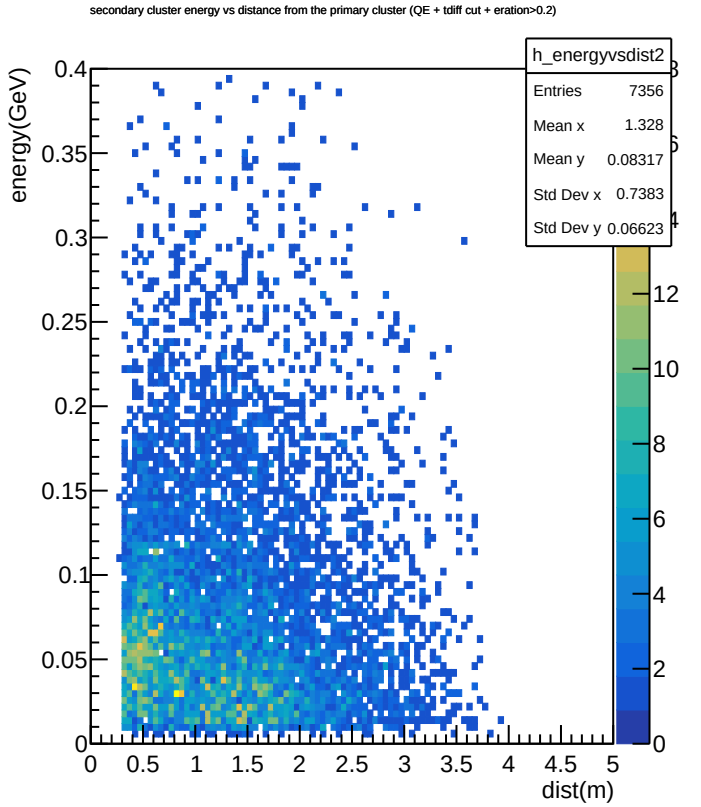


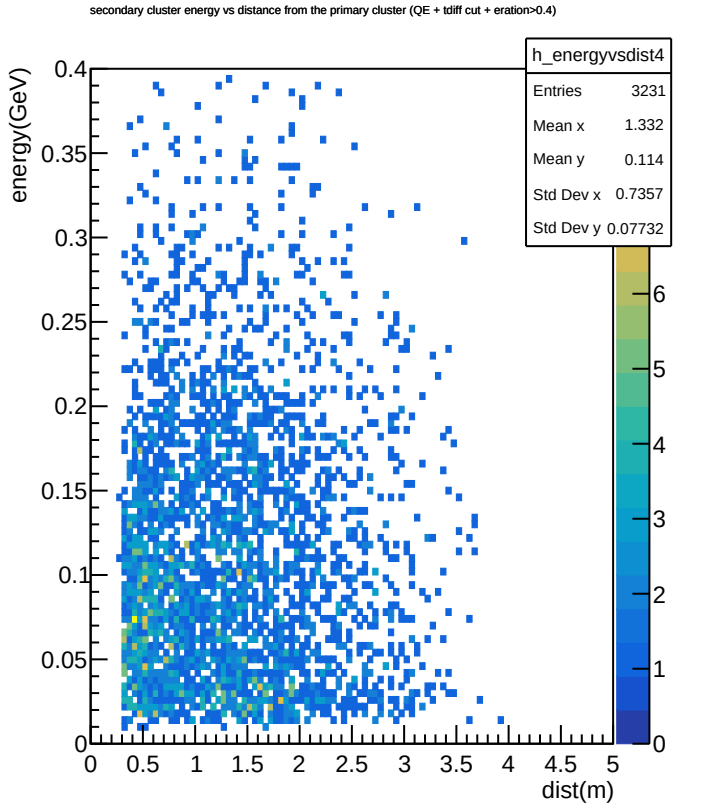
number of clusters with in tdiff with eratio>0.6 per event

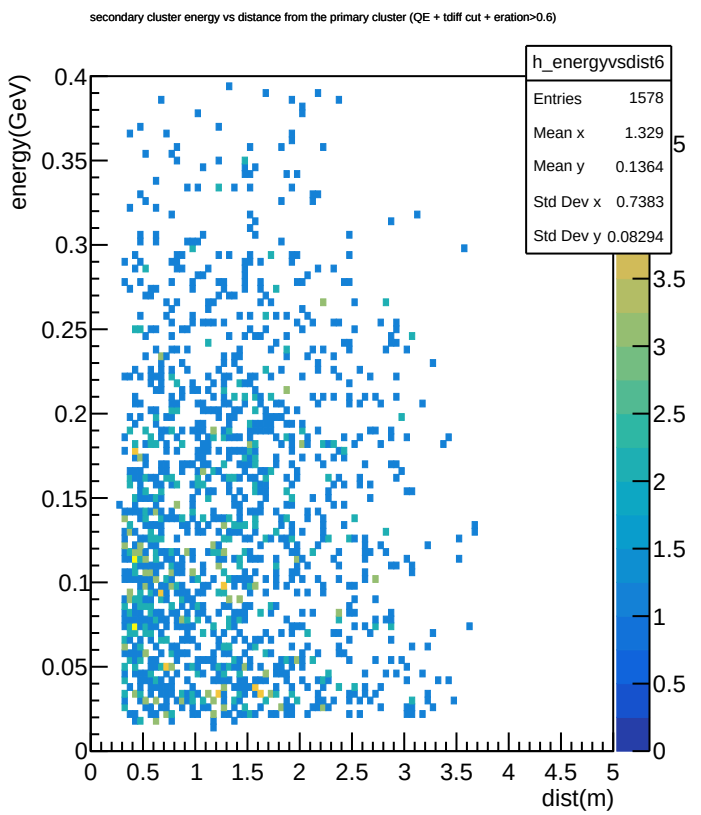


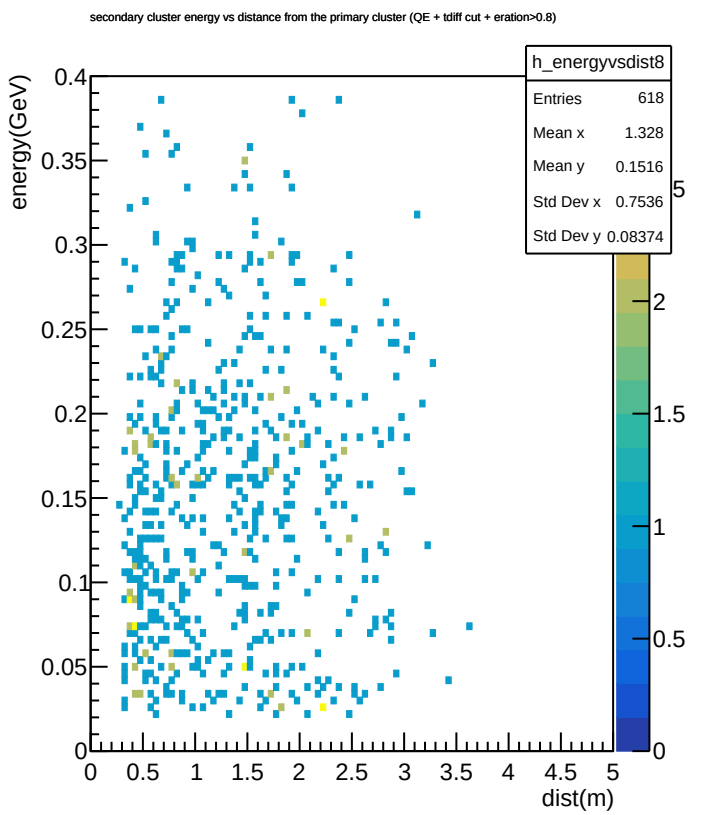
number of clusters with in tdiff with eratio>0.8 per event

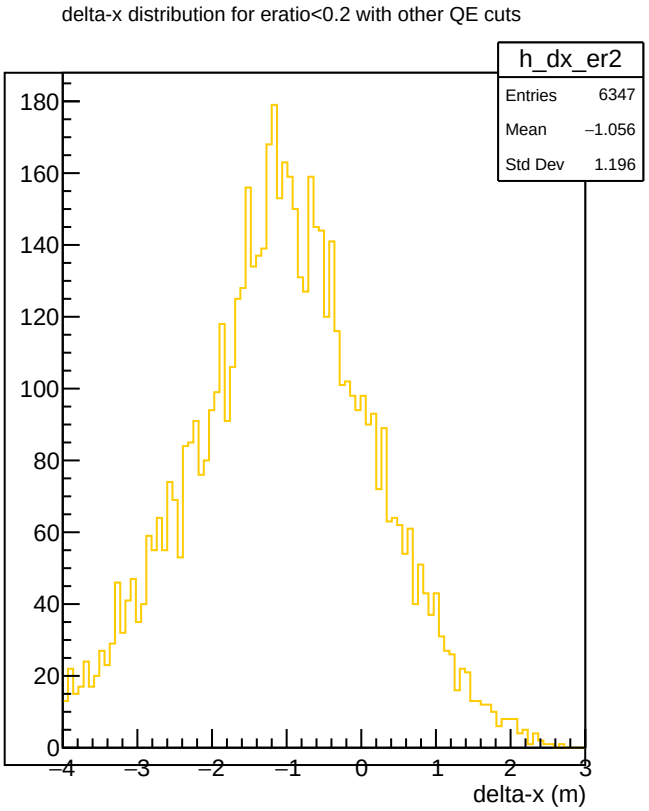


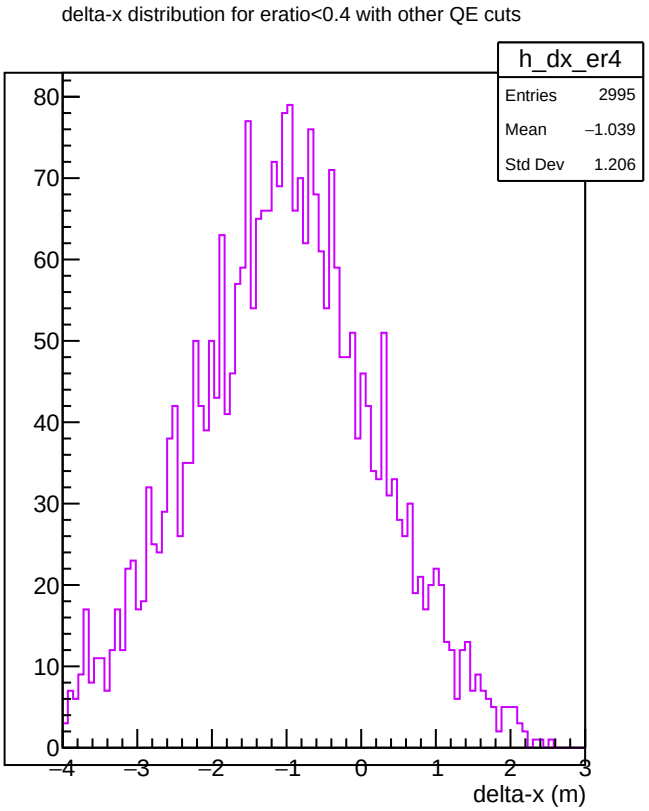

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.2)
h_energyvsdist2
Entries 7356
Mean x 1.328
Mean y 0.08317
Std Dev x 0.7383
Std Dev y 0.06623
energy(GeV)
dist(m)

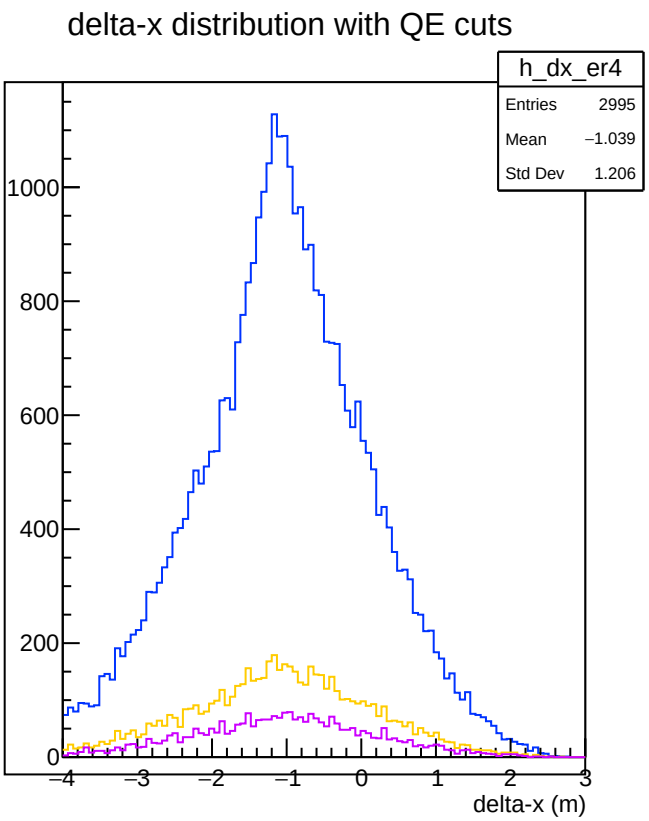

secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.4)
h_energyvsdist4
Entries 3231
Mean x 1.332
Mean y 0.114
Std Dev x 0.7357
Std Dev y 0.07732
energy(GeV)
dist(m)


secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.6)
h_energyvsdist6
Entries 1578
Mean x 1.329
Mean y 0.1364
Std Dev x 0.7383
Std Dev y 0.08294
energy(GeV)
dist(m)


secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.8)
h_energyvsdist8
Entries 618
Mean x 1.328
Mean y 0.1516
Std Dev x 0.7536
Std Dev y 0.08374
energy(GeV)
dist(m)





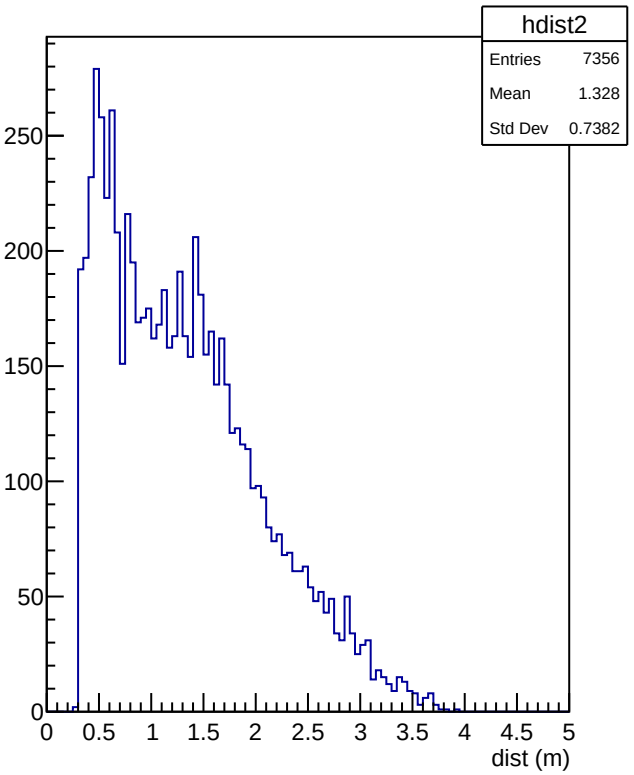


primary clusters

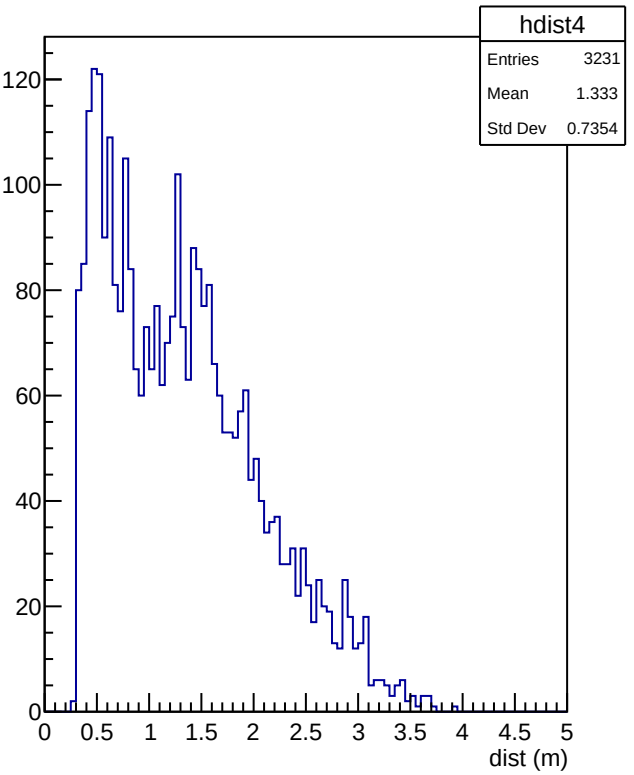
$E_{sec}/E_{prim} < 0.2$

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

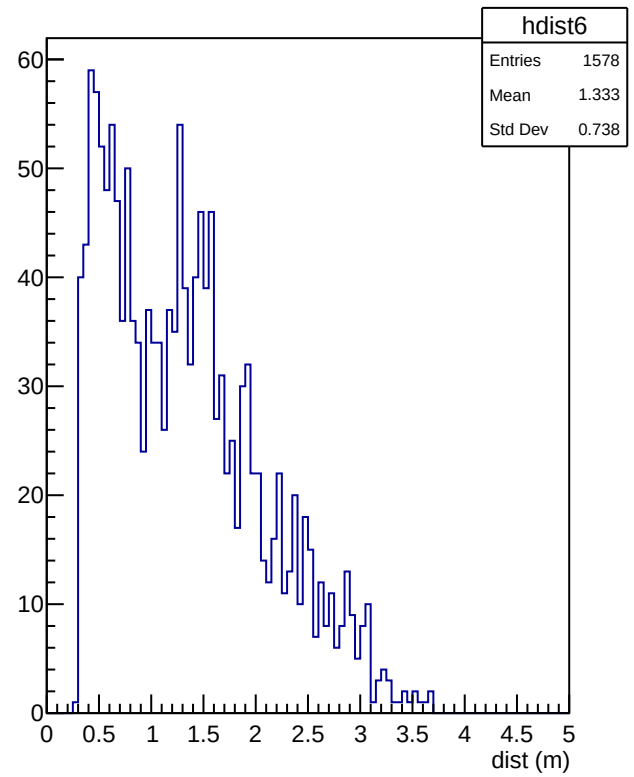
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.2)



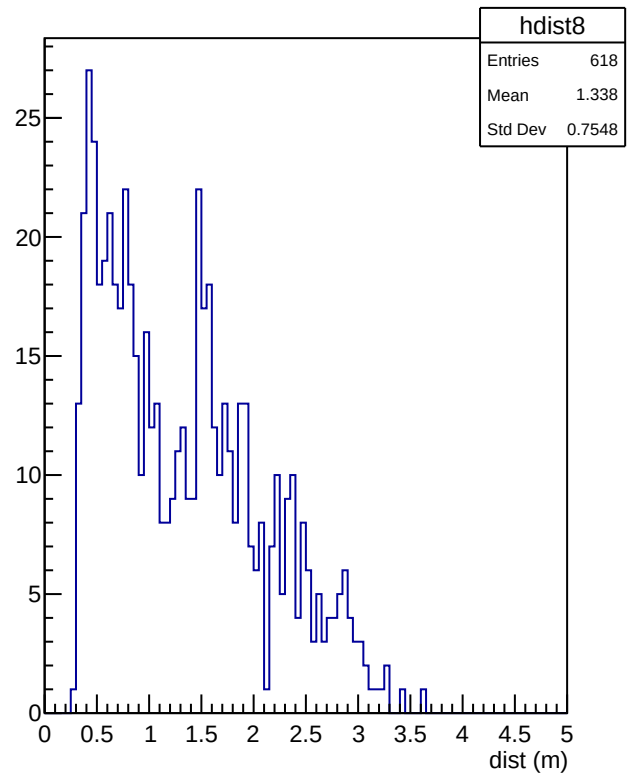
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.4)

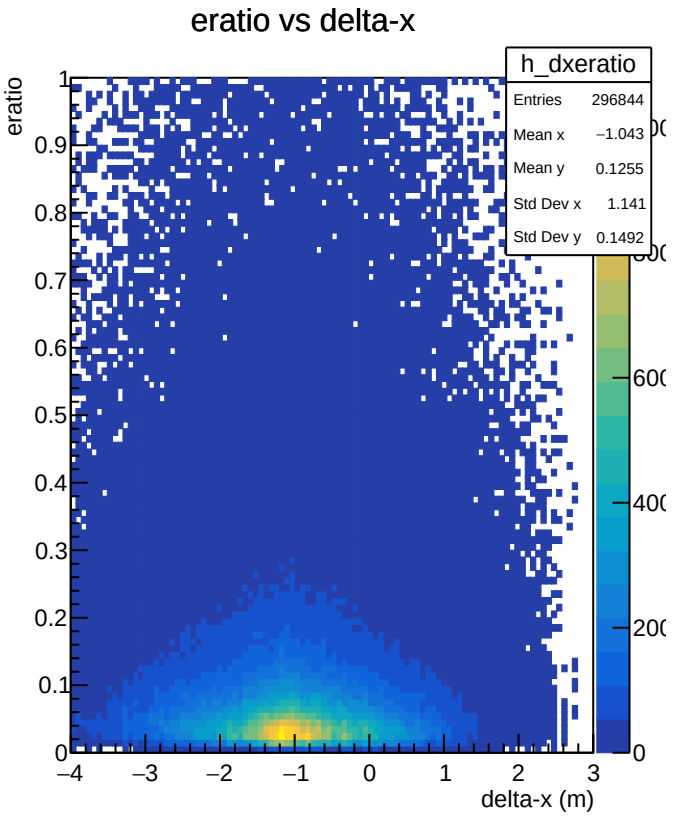


distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.6)



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




eratio vs delta-x
h_dxeratio
Entries 296844
Mean x −1.043
Mean y 0.1255
Std Dev x 1.141
Std Dev y 0.1492
eratio
delta-x (m)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
−4
−3
−2
−1
0
1
2
3
600
400
200
0