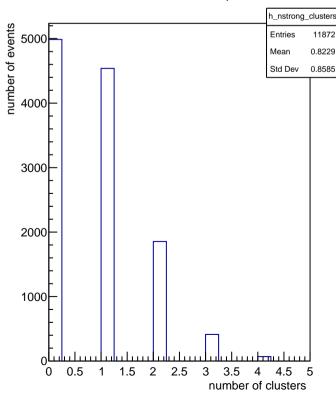
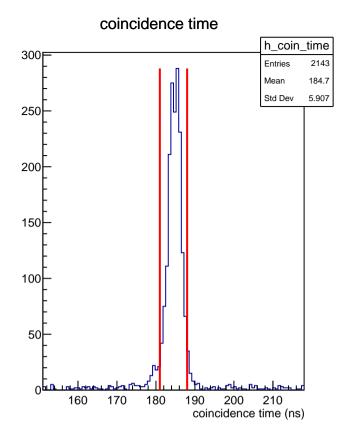
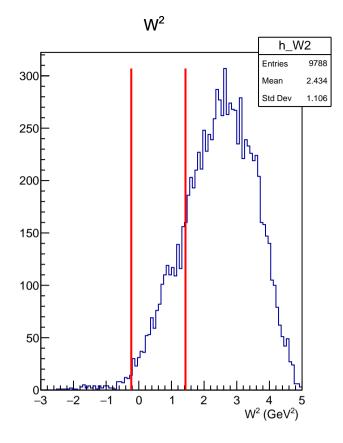
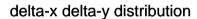


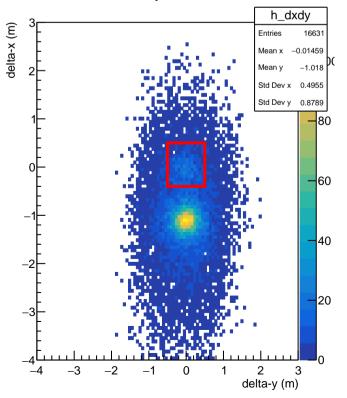
## number of clusters with in tdiff per event

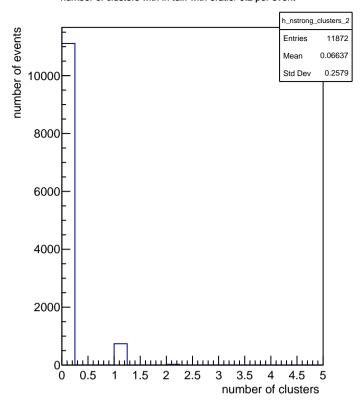


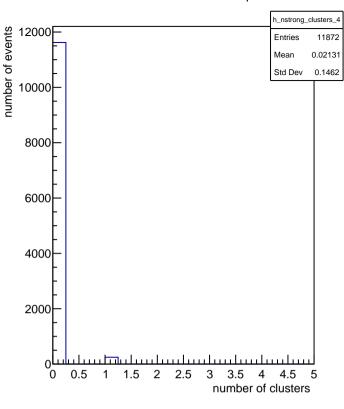


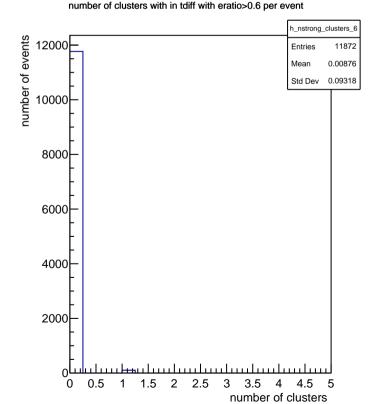




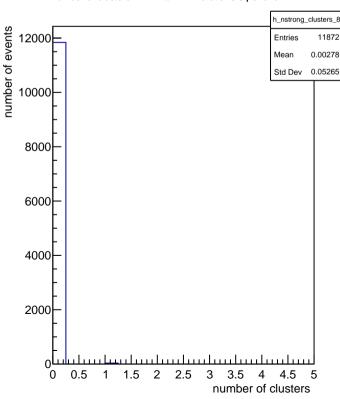


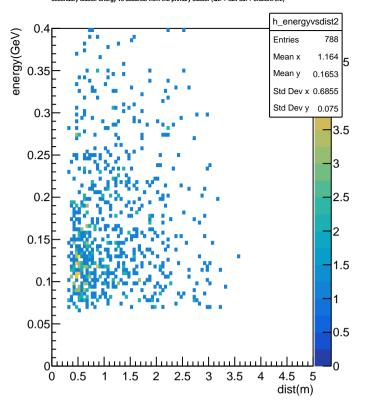


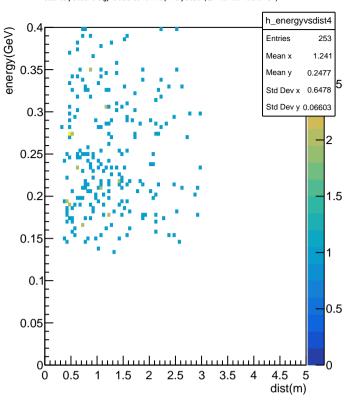


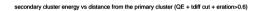


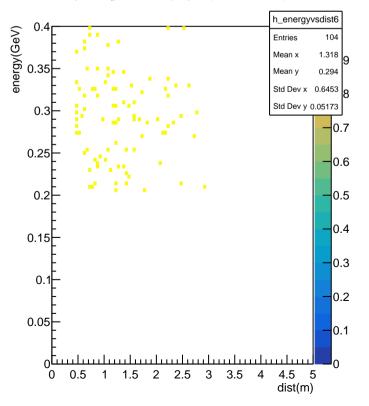
number of clusters with in tdiff with eratio>0.8 per event



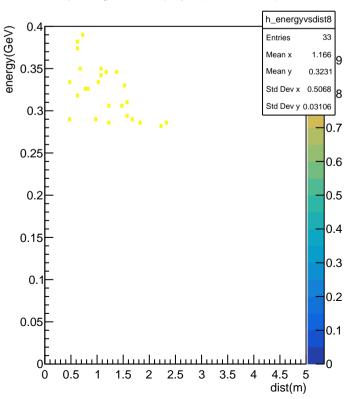


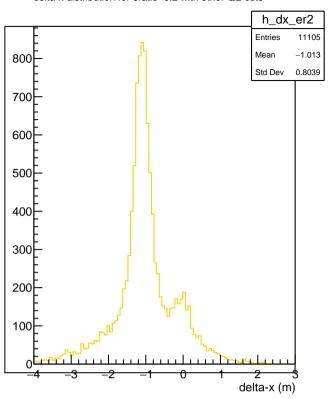


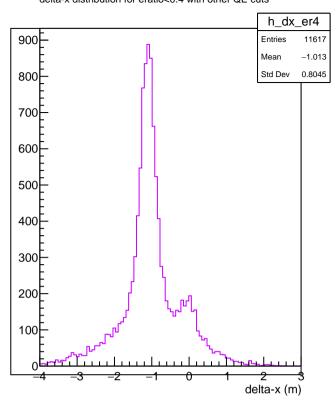




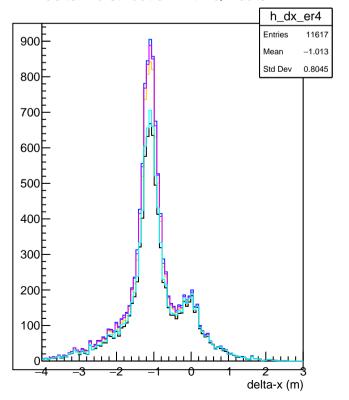
## secondary cluster energy vs distance from the primary cluster (QE + tdiff cut + eration>0.8)







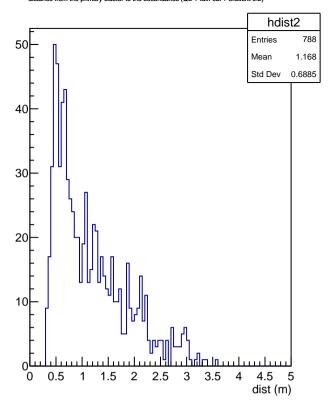
## delta-x distribution with QE cuts

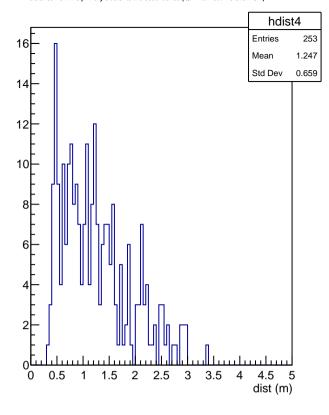


— primary clusters

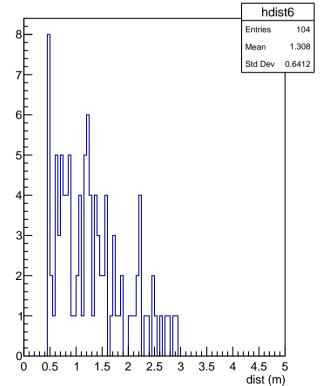
 $E_{\text{sec}}/E_{\text{prim}} > 0.2$ 

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

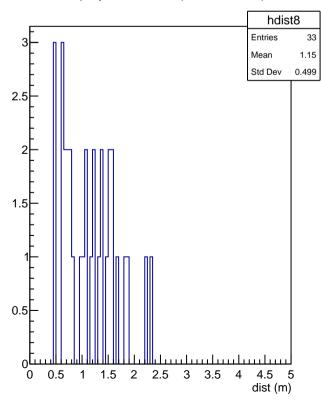


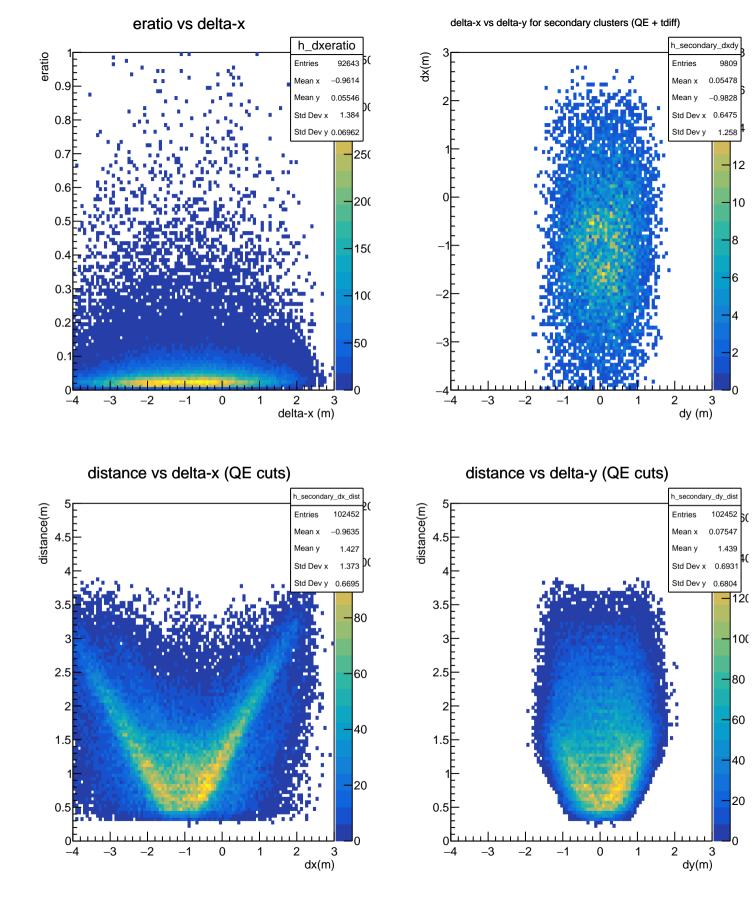


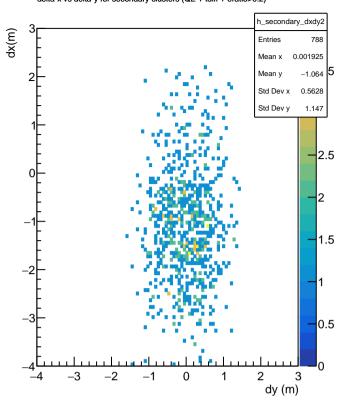
distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.6)

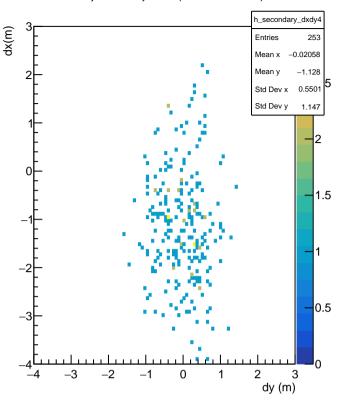


distance from the primary cluster to the secondaries (QE + tdiff cut + eration>0.8)







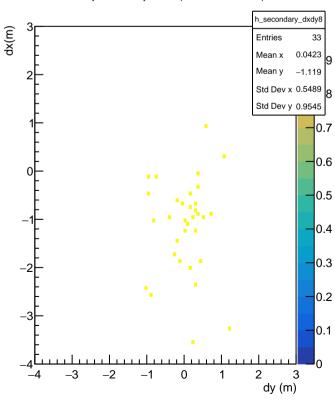


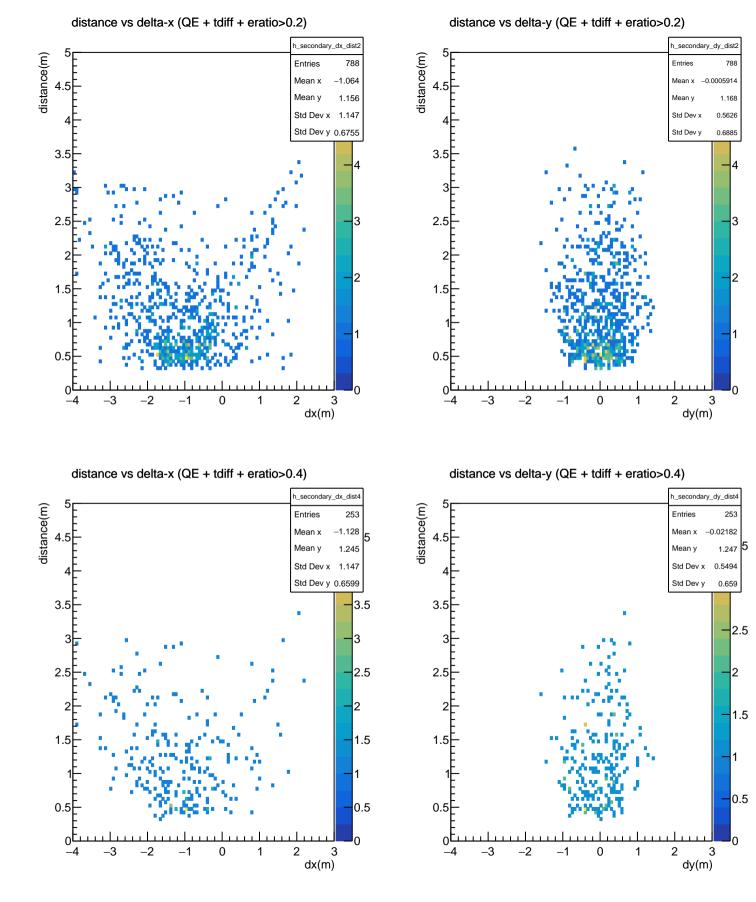
delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.6)

h\_secondary\_dxdy6 dx(m) Entries Mean x -0.06031 Mean y -1.04 Std Dev x 0.5869 Std Dev y 1.104 1.4 1.2 0.8 0.6 -2 0.4 -3 0.2 3 -3 2 -2 0 1

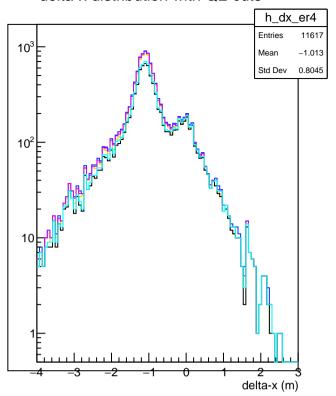
dy (m)

delta-x vs delta-y for secondary clusters (QE + tdiff + eratio>0.8)





## delta-x distribution with QE cuts



primary clusters

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

= E<sub>sec</sub>/E<sub>prim</sub> > 0.2 && antisbs

 $E_{\text{sec}}/E_{\text{prim}} > 0.4 \&\& \text{ antisbs}$