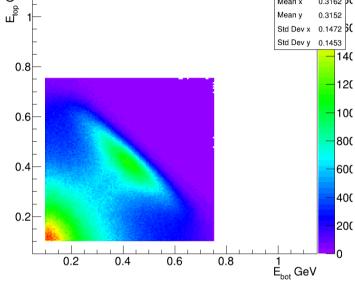
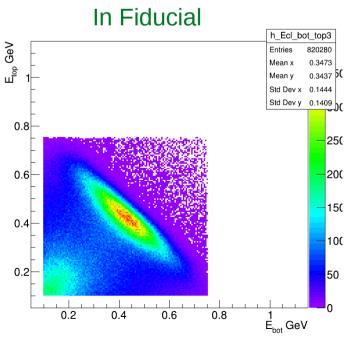
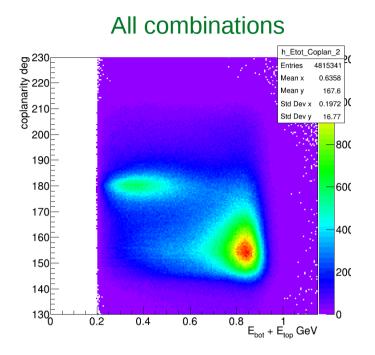
# At least one cluster in the bottom and one in the top of Ecal Time difference < 4 ns

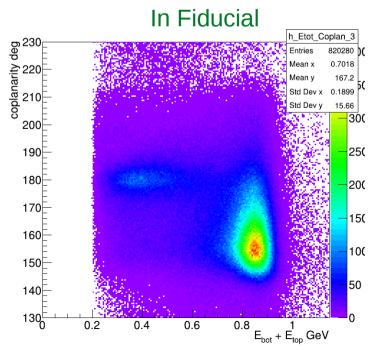


GeV

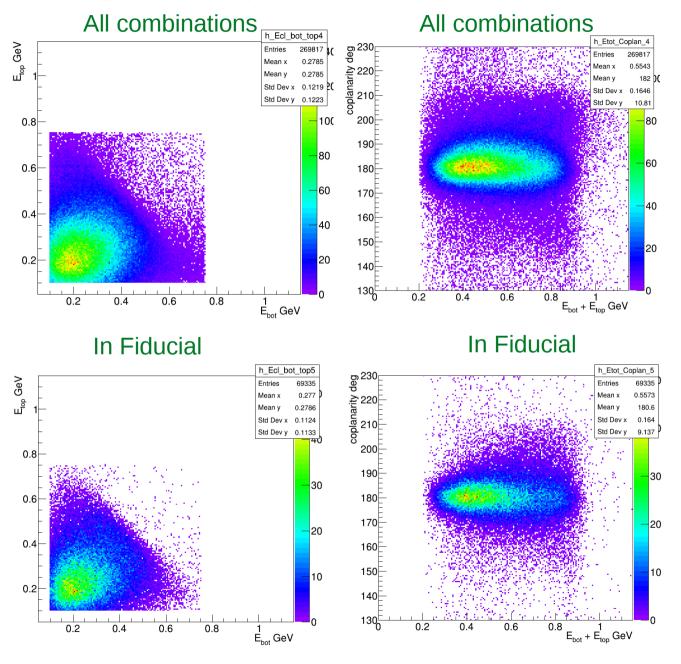






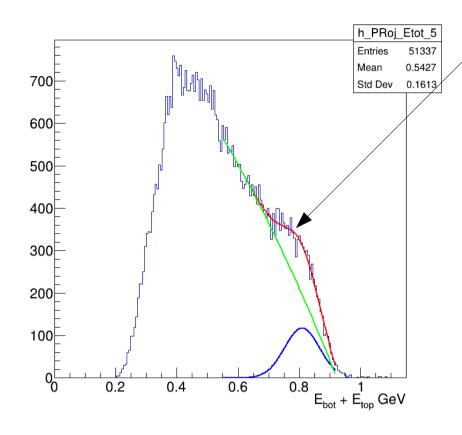


In addition to previous constrains: At least 1 bottom track, 1 top track, 1 neg track and 1 pos track



As one can see this cleans our sample a lot. And we have a domination of coplanar events

## Fit in the fiducial region

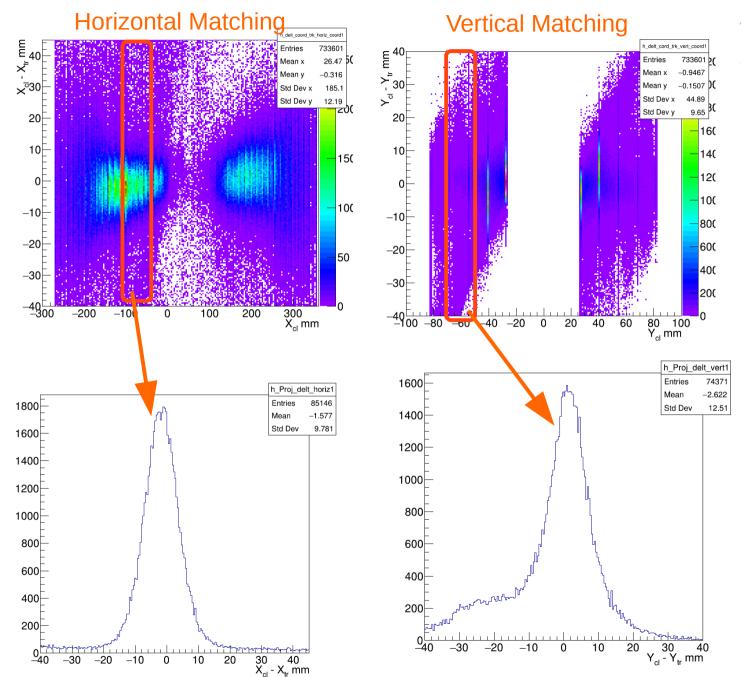


Supposedly trident's peak.

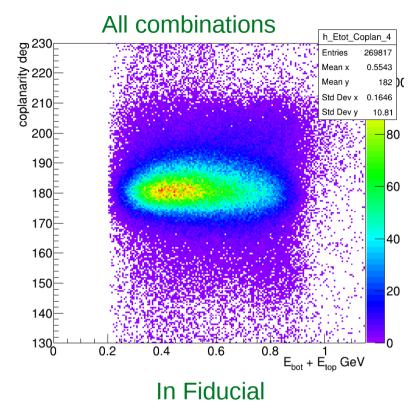
To get an estimate how much are they, one should Know the background behavior in HPS acceptance. Now Bradley is working to generate only BH events That should tell us what should be the BH shape.

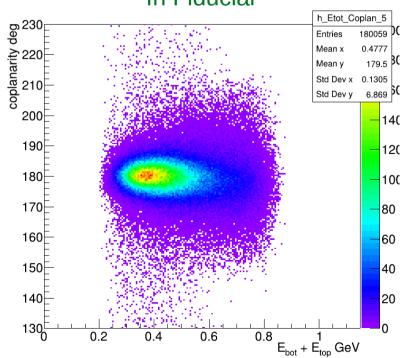
This is just a simple fit where as a background a Pol3 was chosen.

# Additional figures: Cluster-track Matching figures

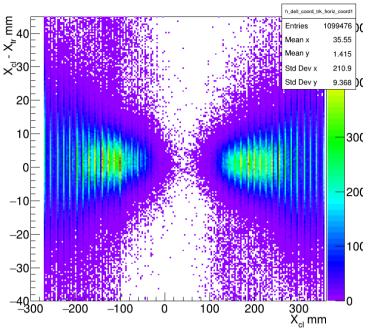


The background is quite small in horizontal matching, and there is some background in vertical matching.

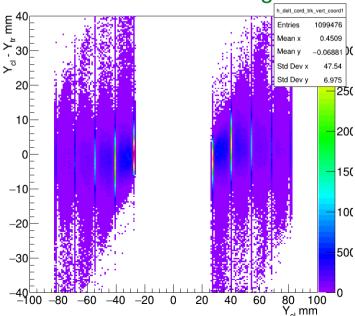




## Horizonta Matching

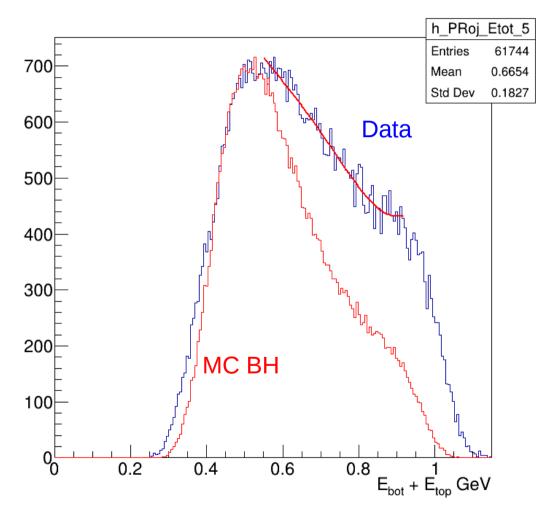




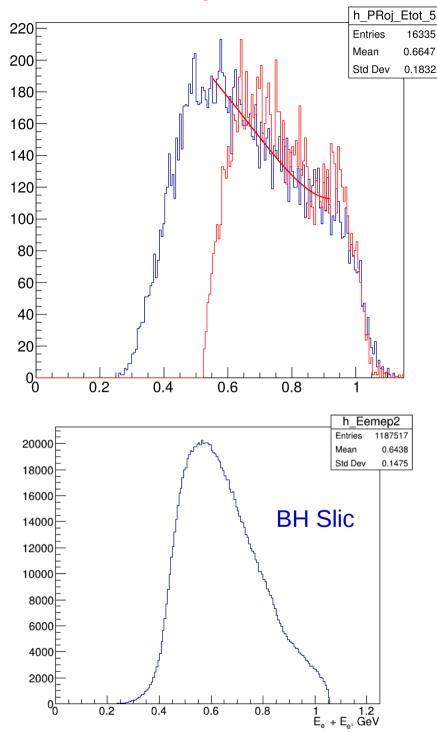


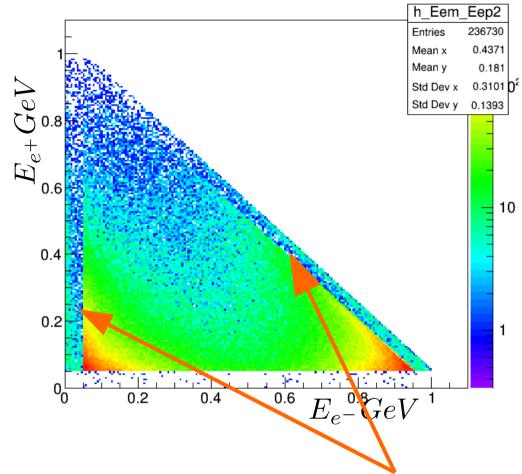
# MC is only Bethe Heitler

MC doesn't go up to beam energy. Now will study kinematics of missing events at the generator level.



## **TriTrig** and Data





This was changed from the regular run card 0d0 = eftot ! minimum energy for f+ plus at least one f-

# What does this cut mean exactly?

0.050 = ef ! minimum E for f+ and at least one f-

One can see the effect of the cut on e+, but in all events there is at least on ethat has energy above 50 MeV, so effectively this shouldn't cut any event

What the discontinuity correspond to?

# Backups

As one can see at the generator level there are events having energy sum close to the beamenergy

