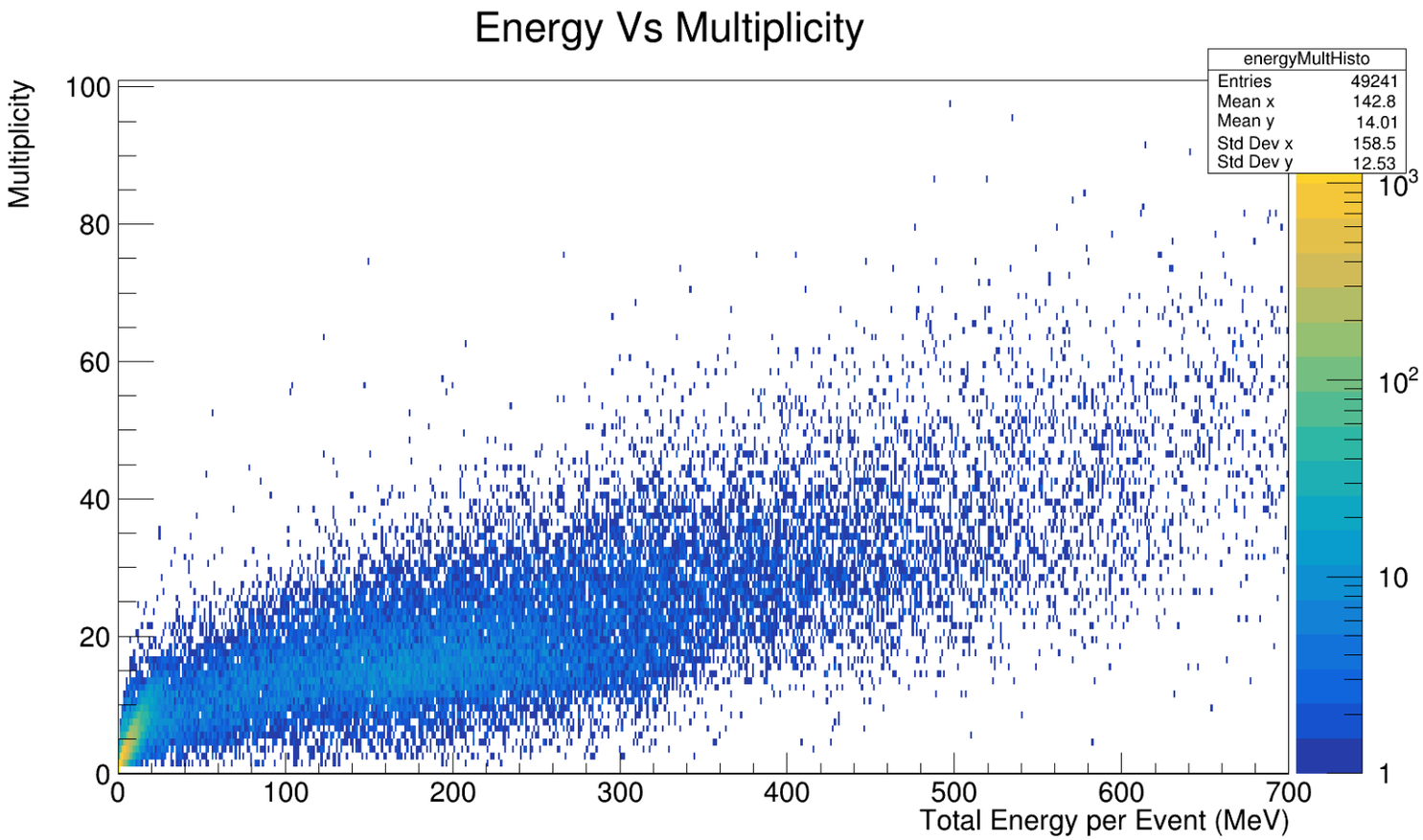
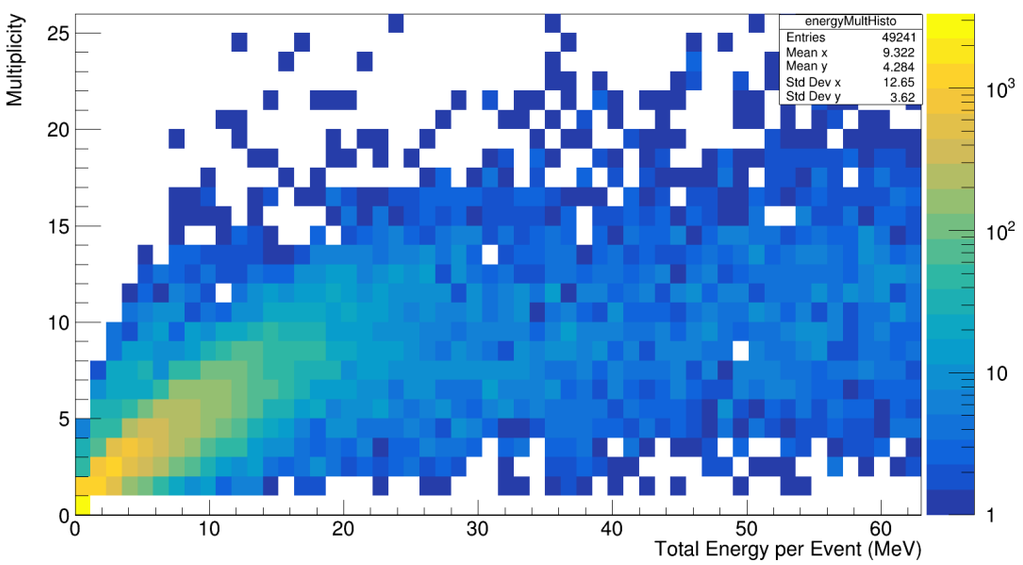
Califa Timing

Progress Report: September 30

First Step : Choose cal events in CALIFA with two Hits in the TWIM

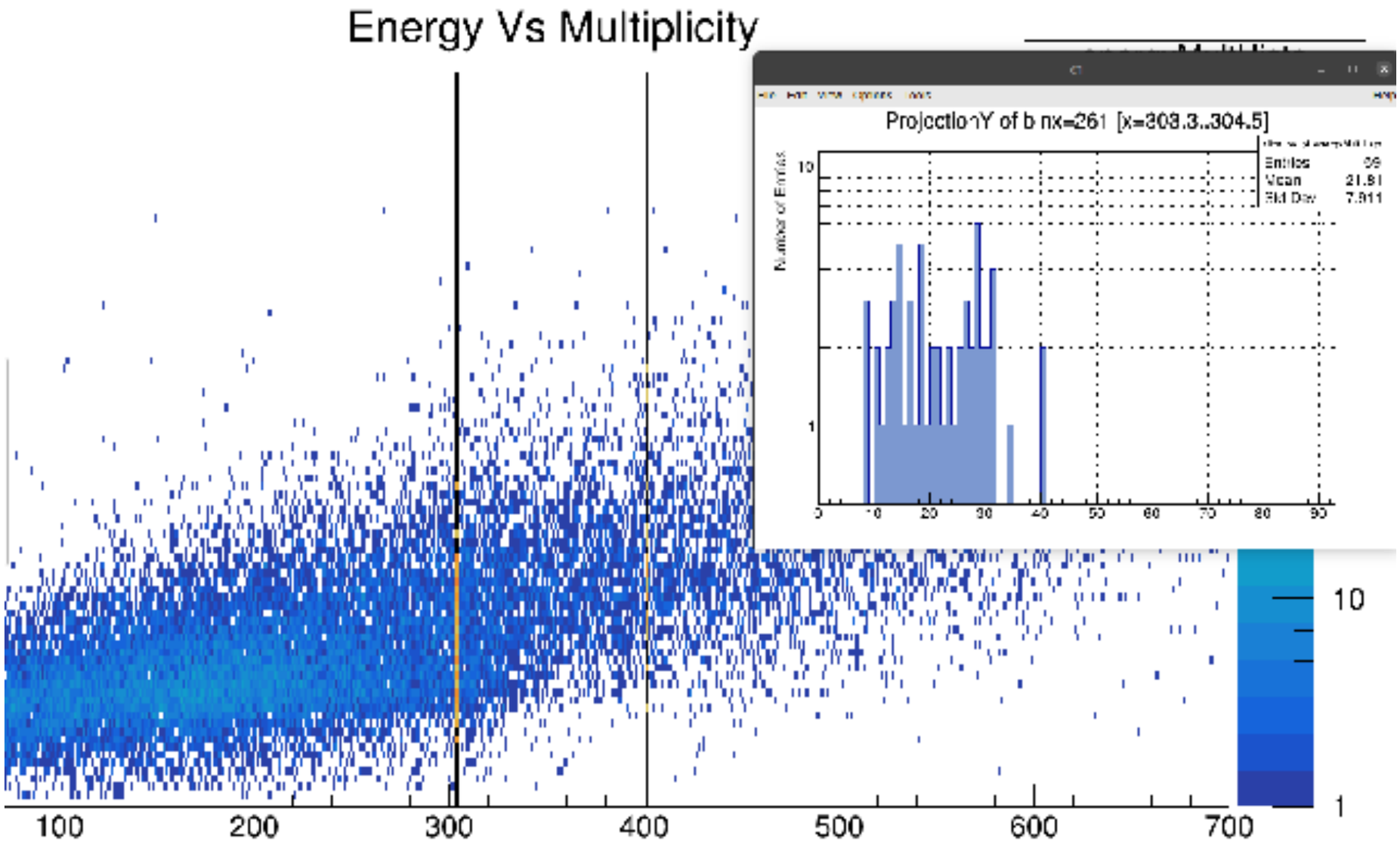


Events in CALIFA with the TWIM condition come always with a TPat assigned: It is the same as taking a valid TPat!

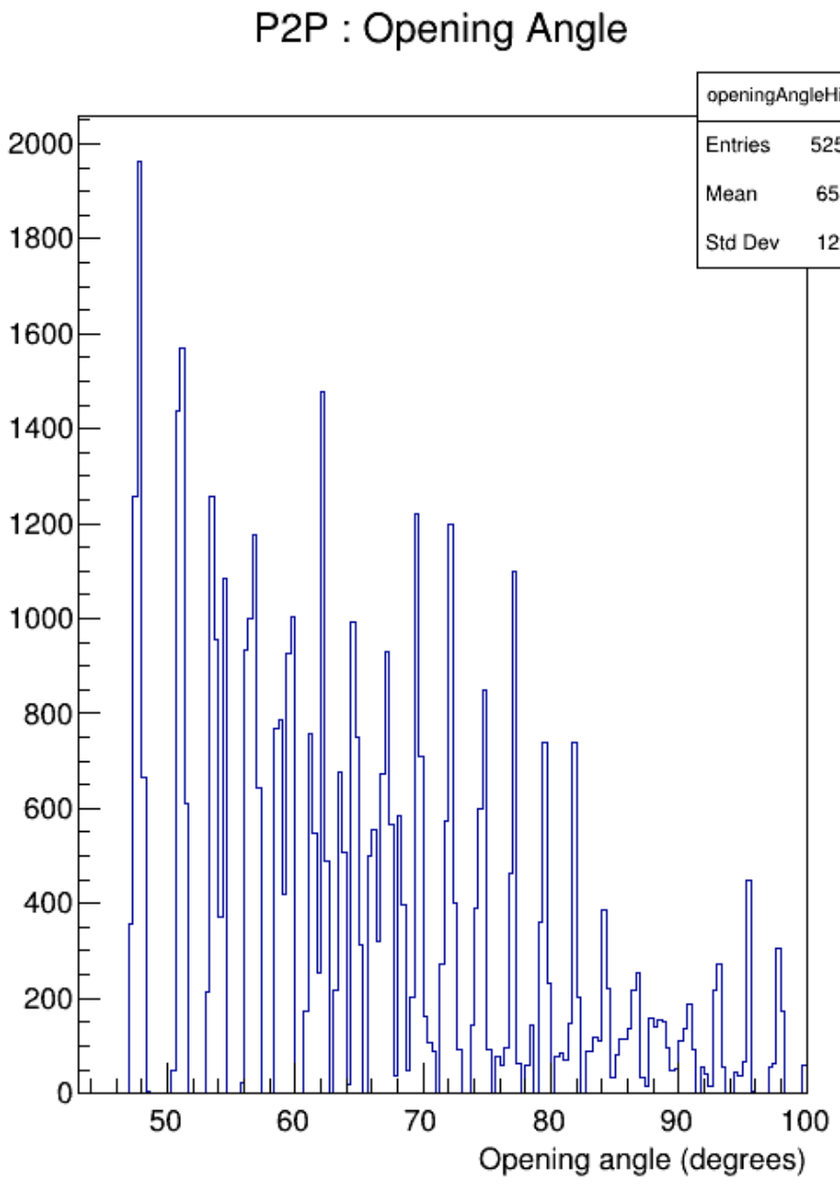


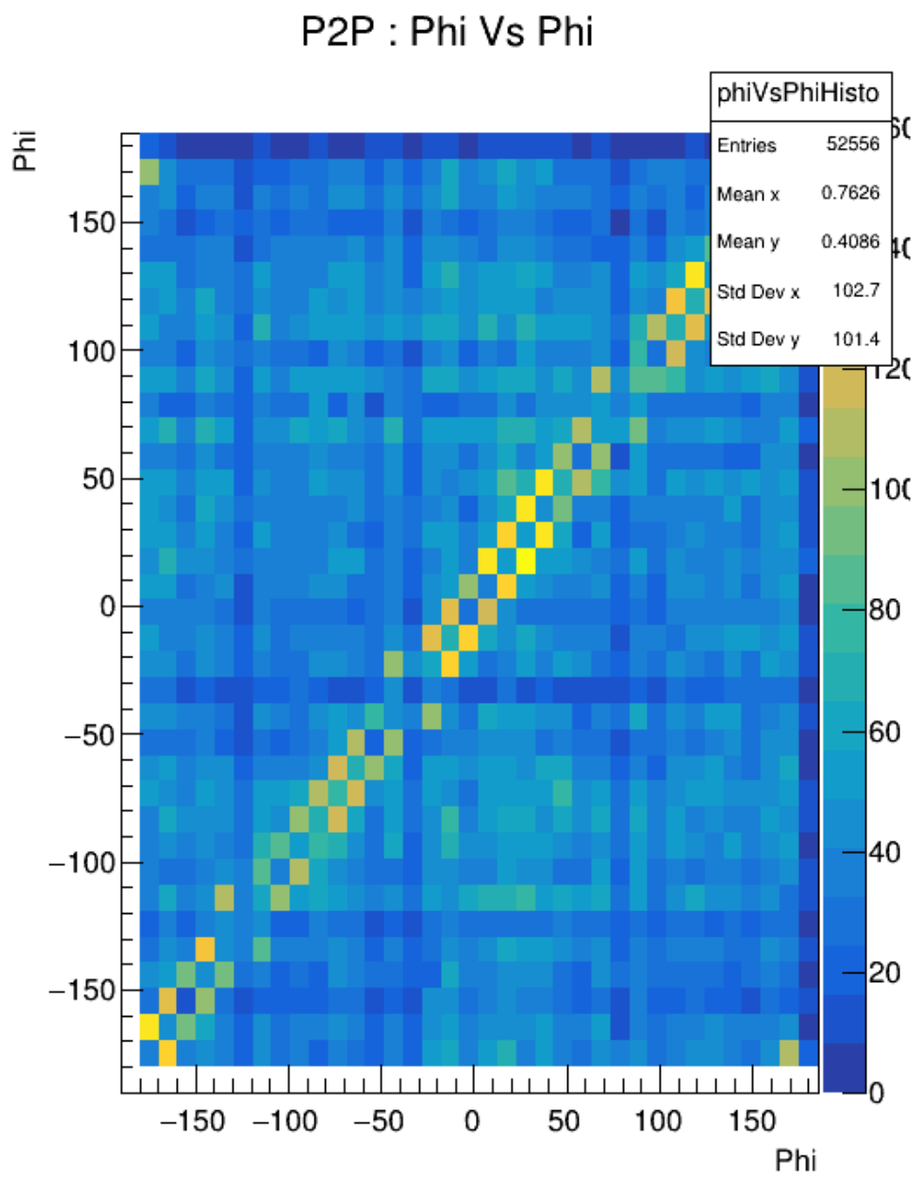
Zoom: The slope is ~ 1.5 MeV / crystal -> 40K?

First Step : Choose cal events in CALIFA with two Hits in the TWIM



Second Step : Clustering and P2P search

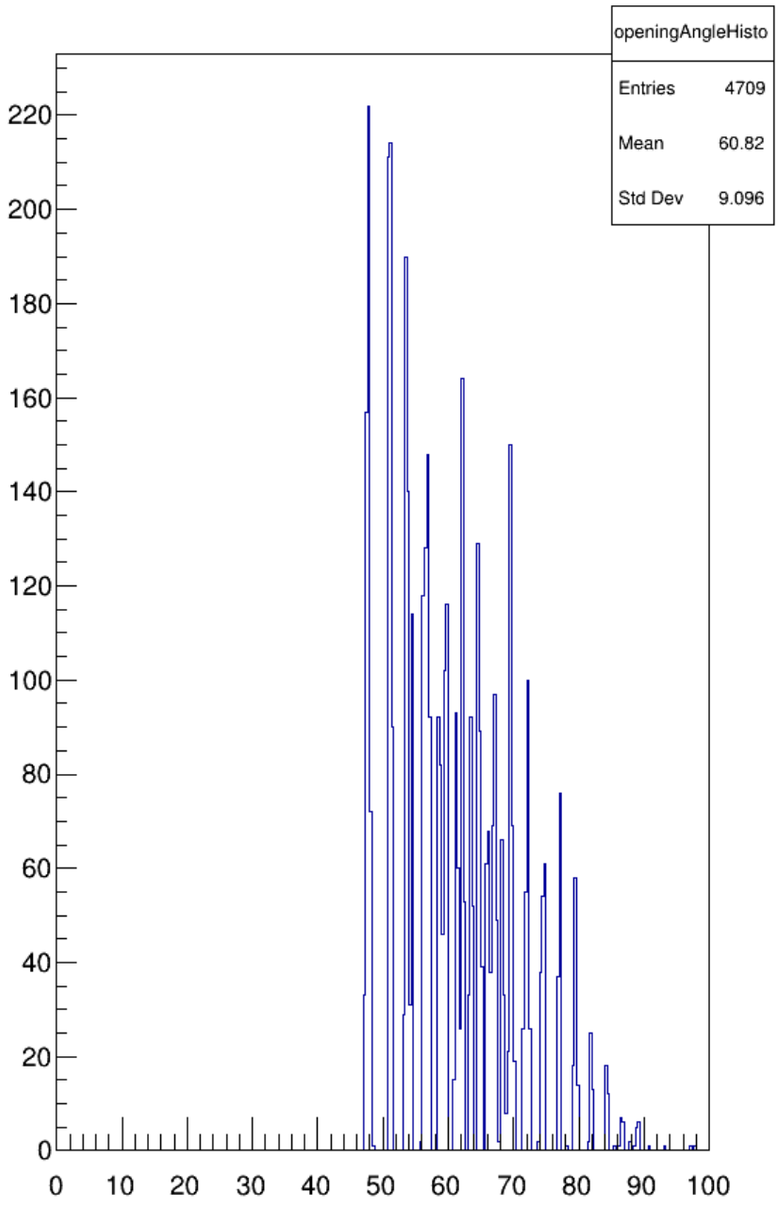




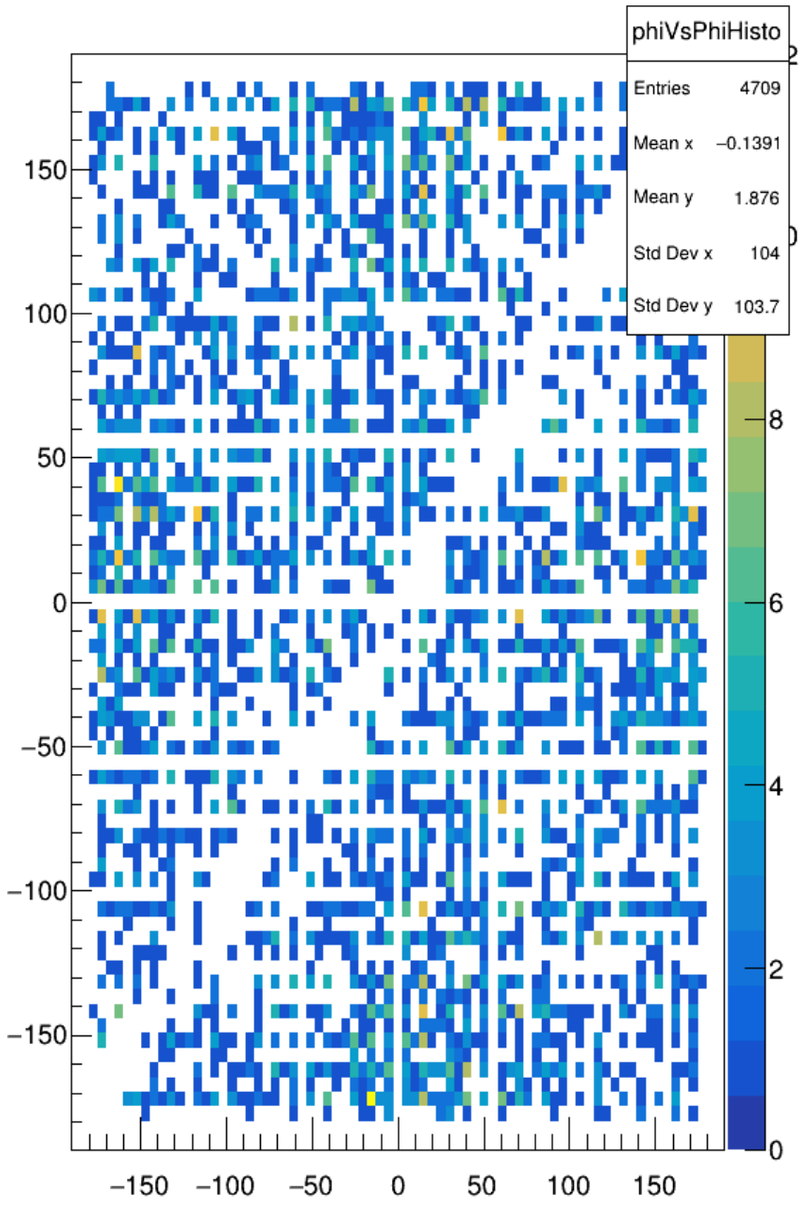
- Clusters with a 7° window
- Choose events with TWIM condition
- Plot the two clusters with highest energy

Second Step : Clustering and P2P search

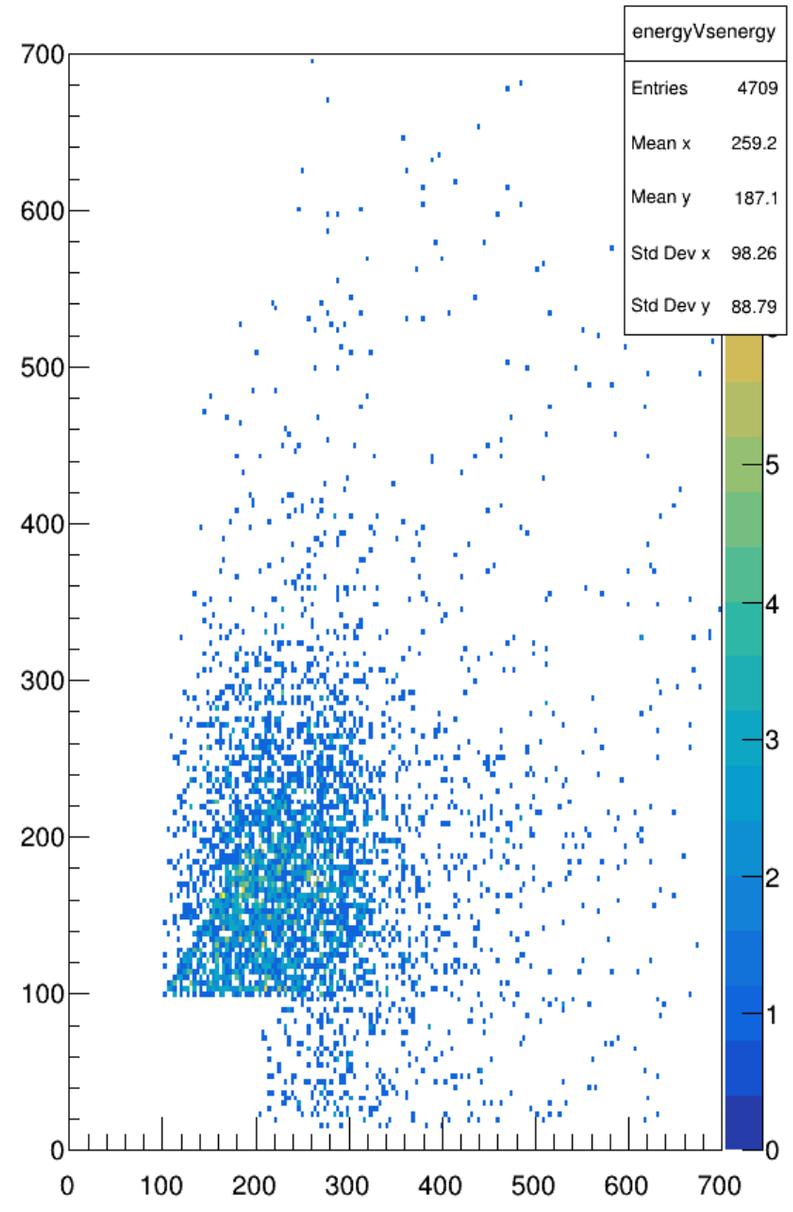
P2P : Opening Angle



P2P : Phi Vs Phi



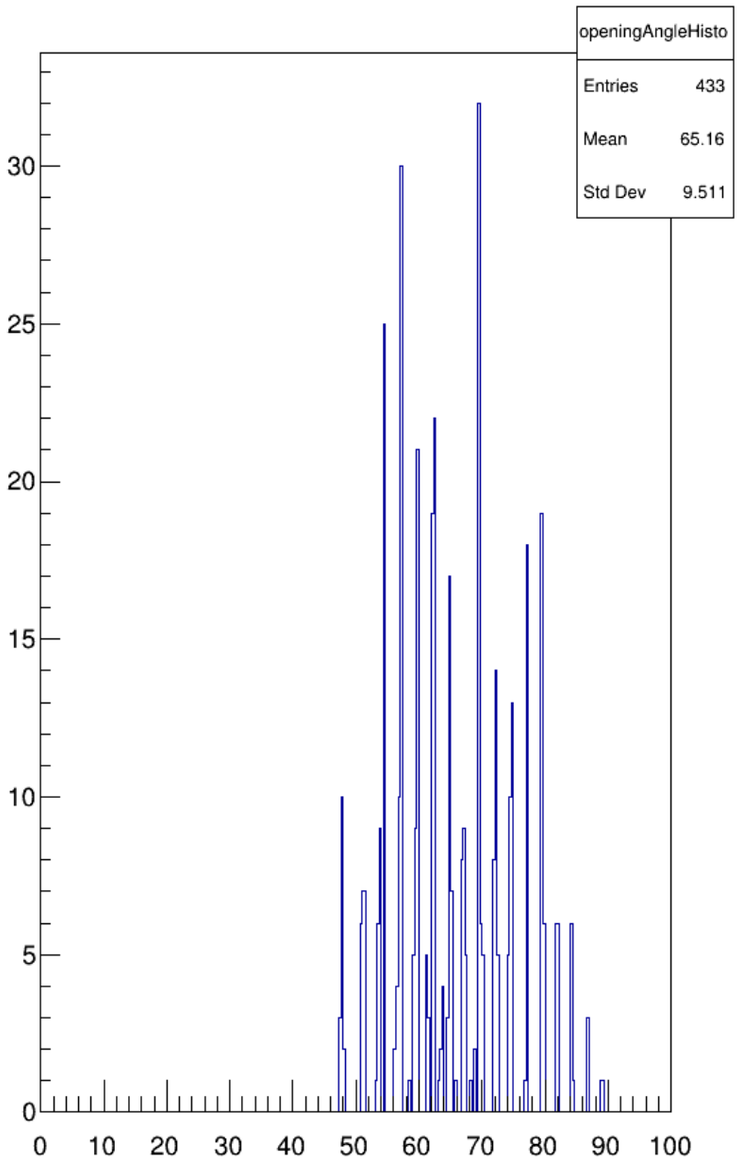
P2P : Energy Vs Energy



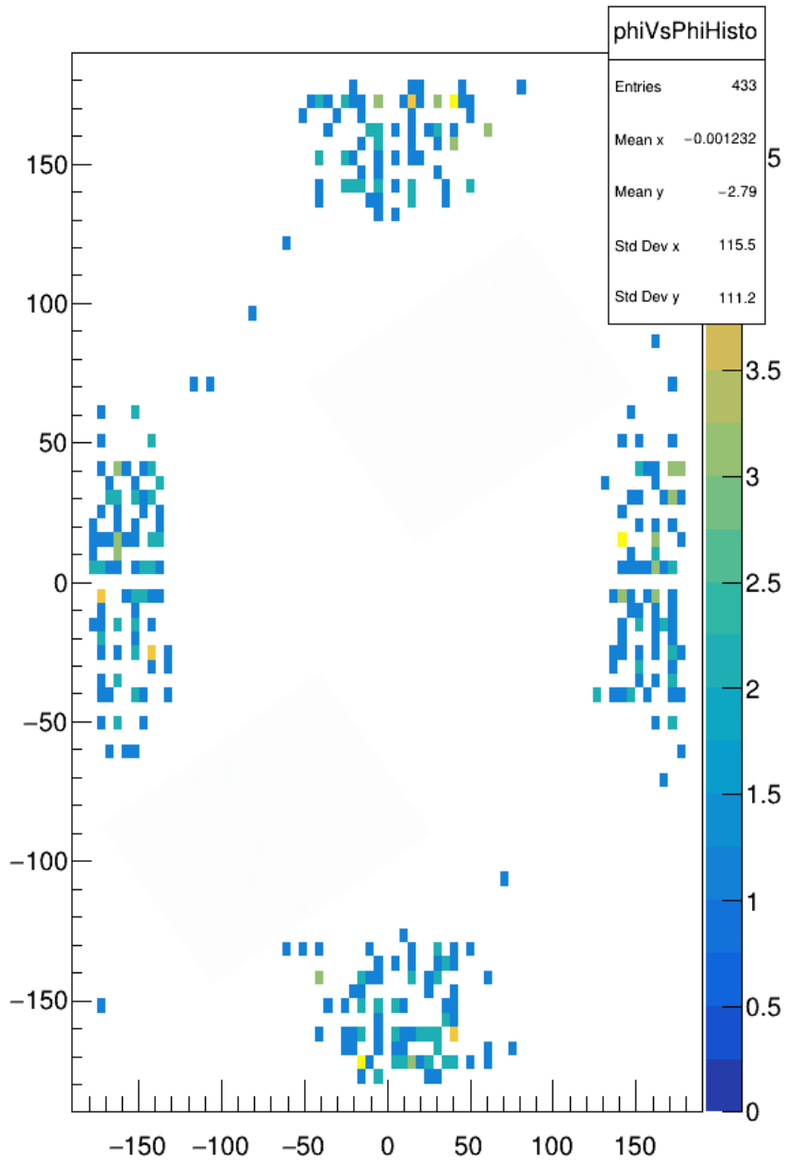
- Clusters with a 14º window
- Choose events with TWIM
- Plot the two clusters with highest energy

Second Step : Clustering and P2P search + TCut

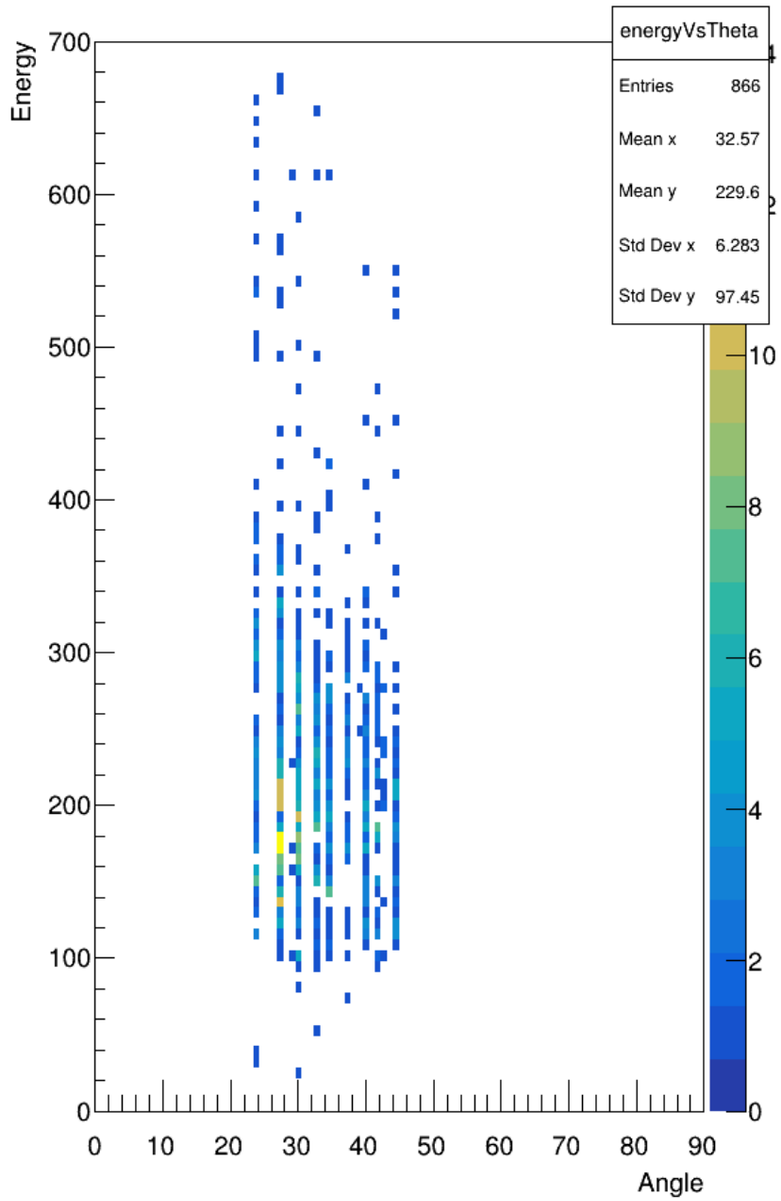
P2P : Opening Angle



P2P : Phi Vs Phi

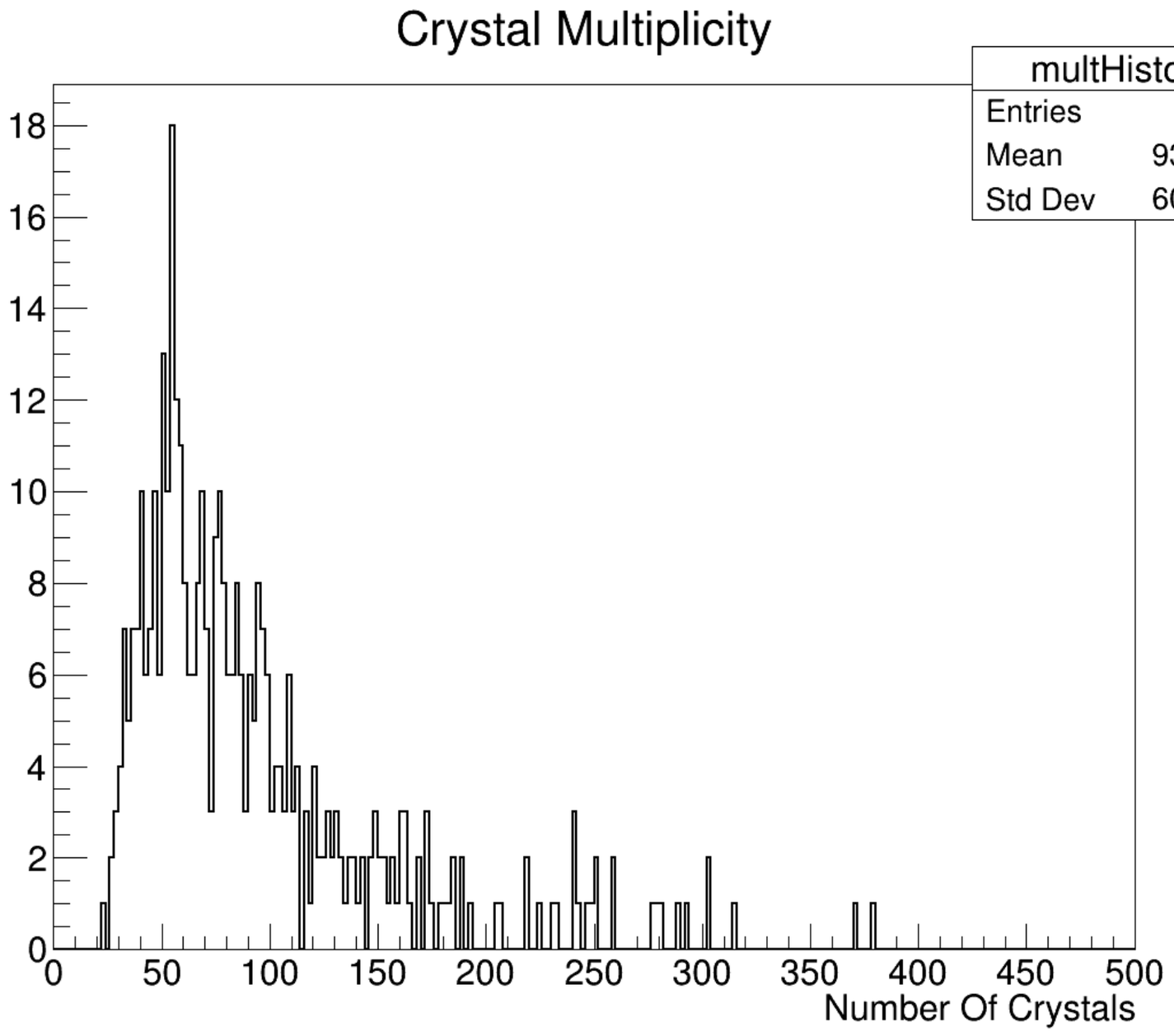


P2P : Energy Vs Angle



- Clusters with a 14° window
- Choose events with the TPat + TWIM condition
- Plot the two clusters with highest energy
- + only clusters with two high energy (>100 MeV) crystal in the event + Higher threshold in Cal2Hit (10 MeV)

Second Step : Clustering and P2P search + TCut



	Nº Of Events	%
No Cuts	11.926.102	100 %
TWIM Condition + GoodEvent + Angular Condition	2060	~ 0.017 %
TPat + GoodEvent + Angular Condition	1757	~ 0.014 %
TPat + Twim + GoodEvent + Angular Condition	433	~ 0.003 %