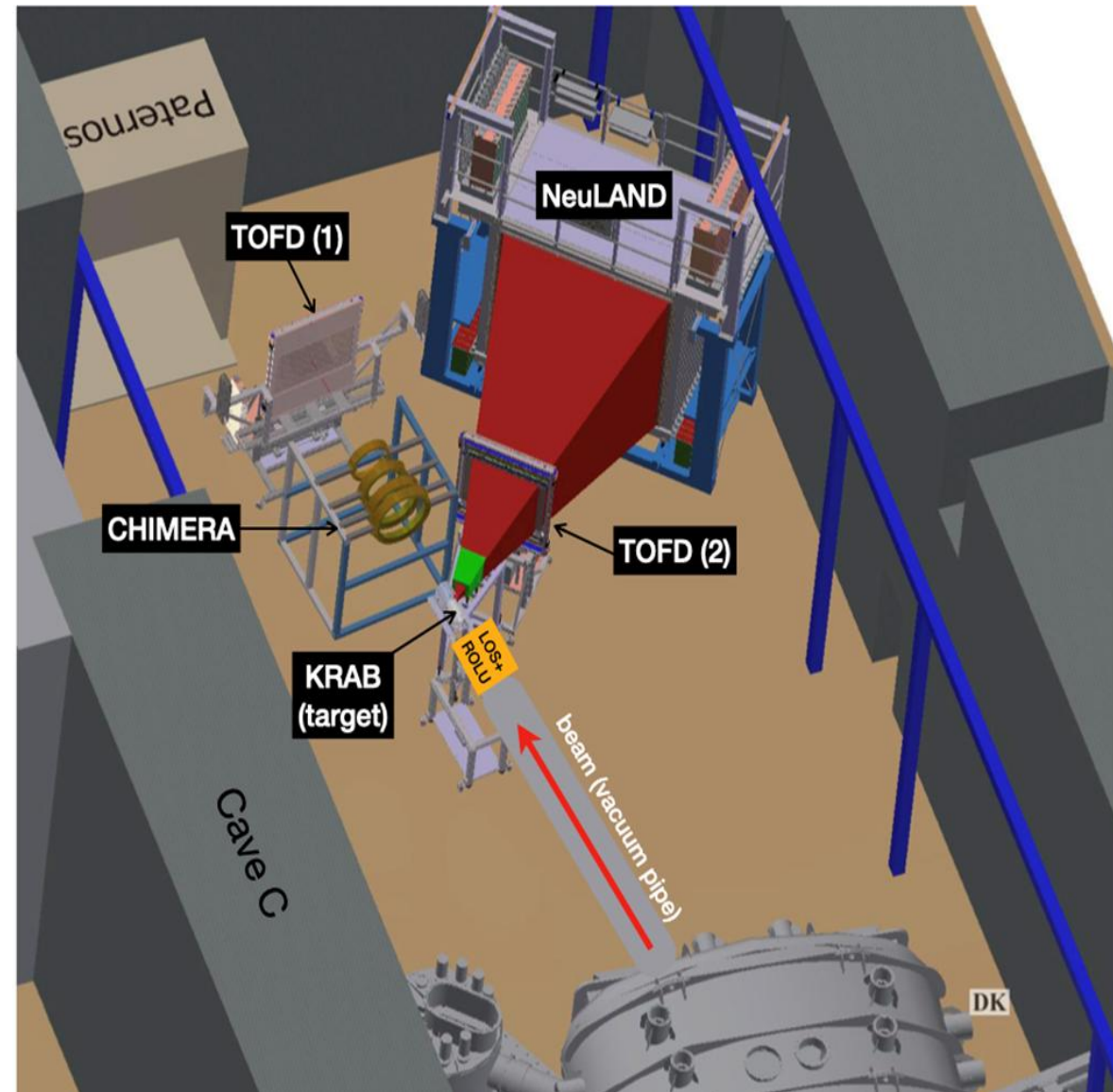


ASY-EOS II

March 2025 at GSI: Au + Au collision

Energy [AMeV]	Justification
280	highest sensitivity on K_{sym}
400	reference to ASY-EOS I, n/p tests higher densities than before
600	highest sensitivity on L, high-density tested
1000	Maximum energy ($\approx$ density) where models agree on v_2 sensitivity



RUN	GIORNO	INIZIO	FINE	DURATA	TARGET	SB	ENERGIA
357	26-mar	10:08	12:14	02:06	AU	NO	280
356	26-mar	08:05	10:01	01:56	EMPTY	NO	280
331	24-mar	19:15	21:16	02:01	AU	SI	280
329	24-mar	16:50	17:18	00:28	EMPTY	SI	280

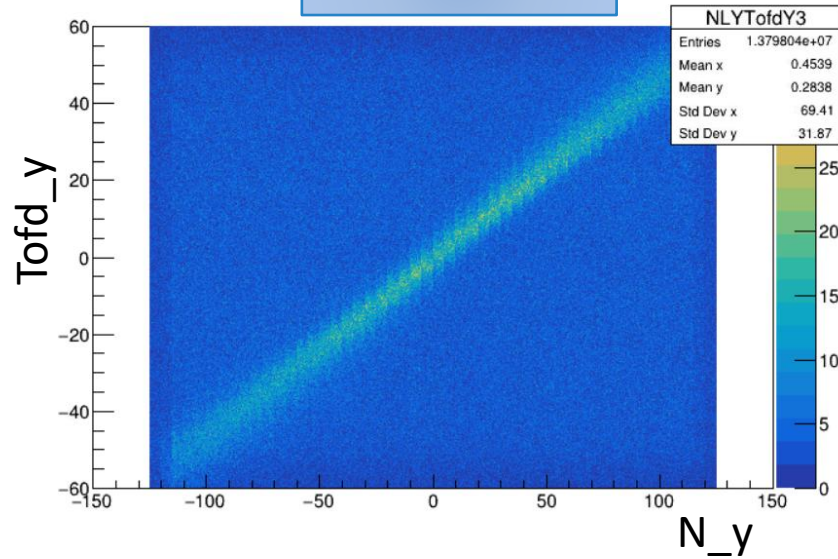
Neuland-Tofd

A solid blue horizontal bar spanning the entire width of the slide at the bottom.

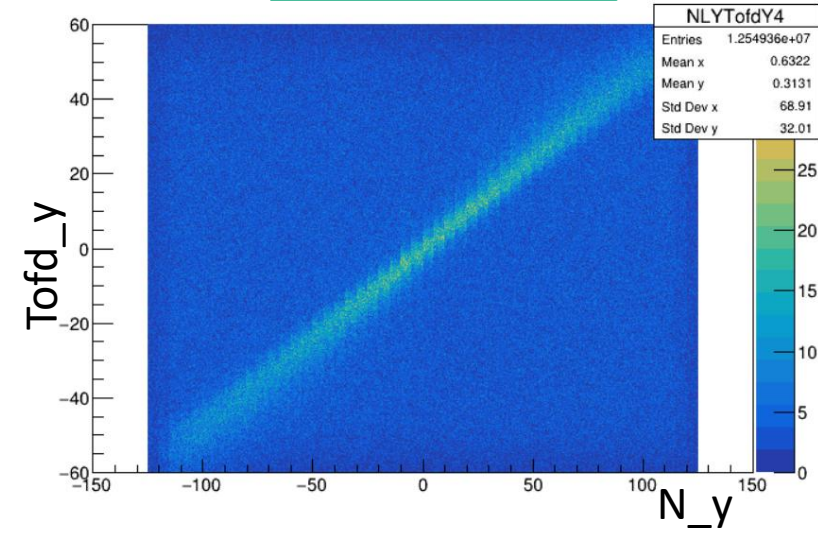
357 Au2% at 280 Mev/A

Tofd-Neuland correlation in Y

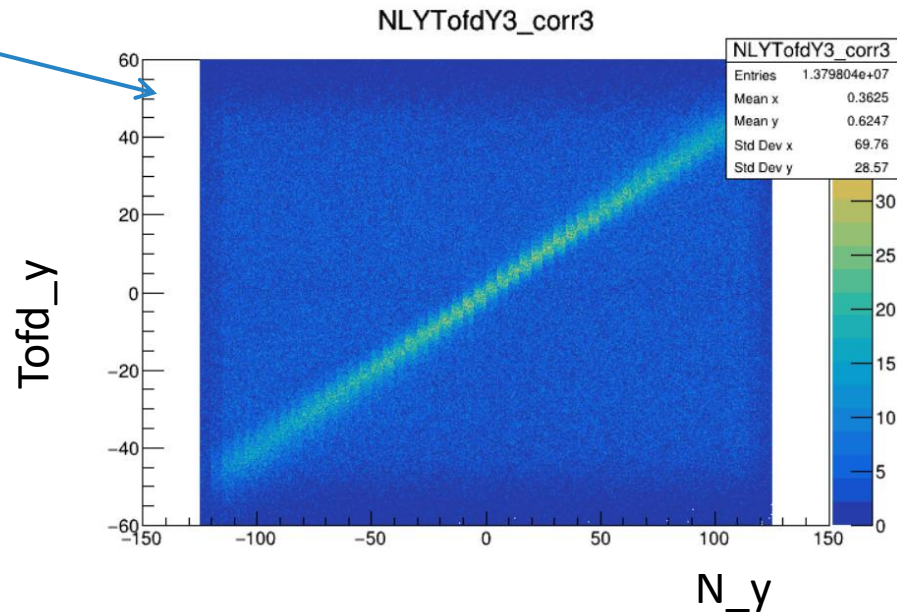
Tofd Plane 3



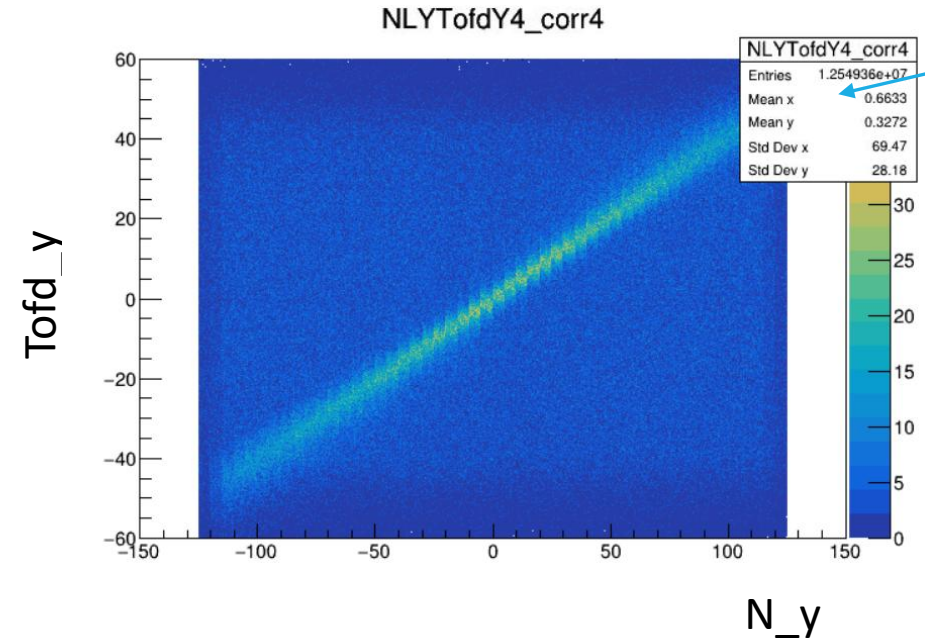
Tofd Plane 4



after the
correction
of the
tofd_y
values



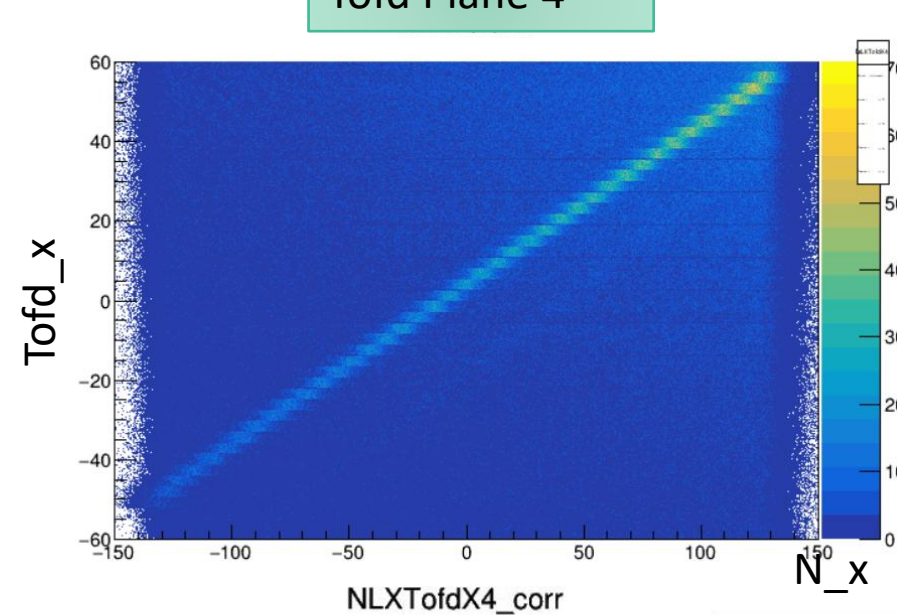
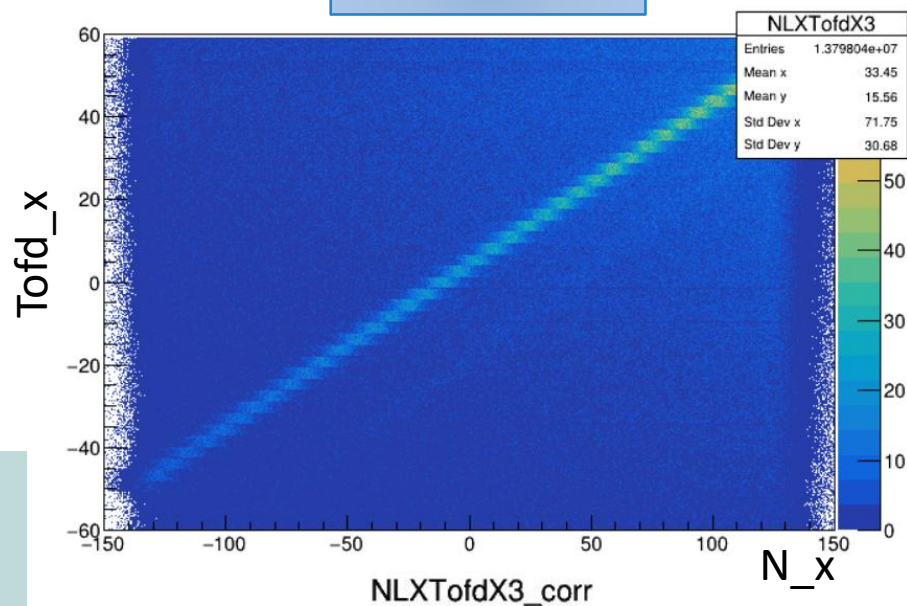
after the
correction
of the
tofd_y
values



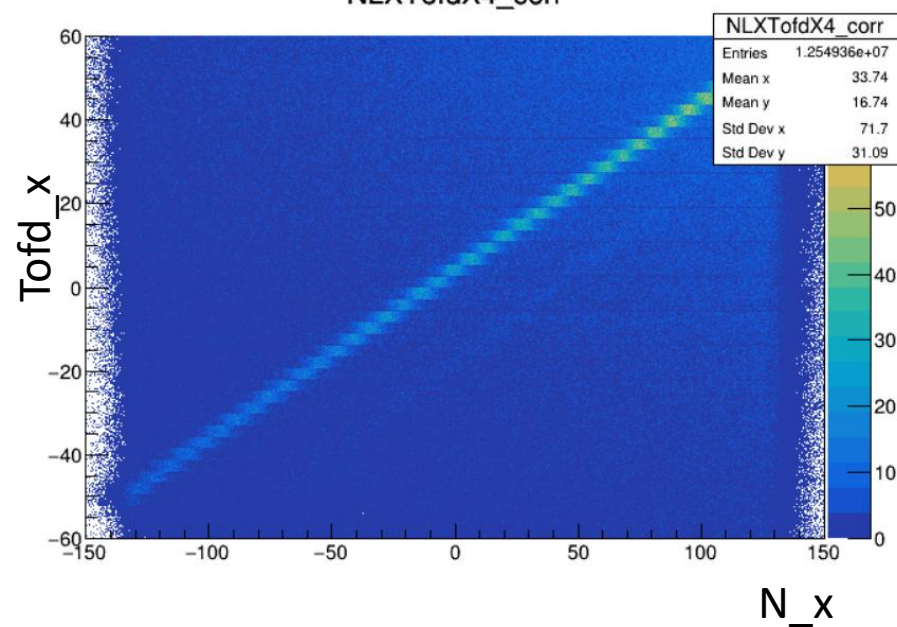
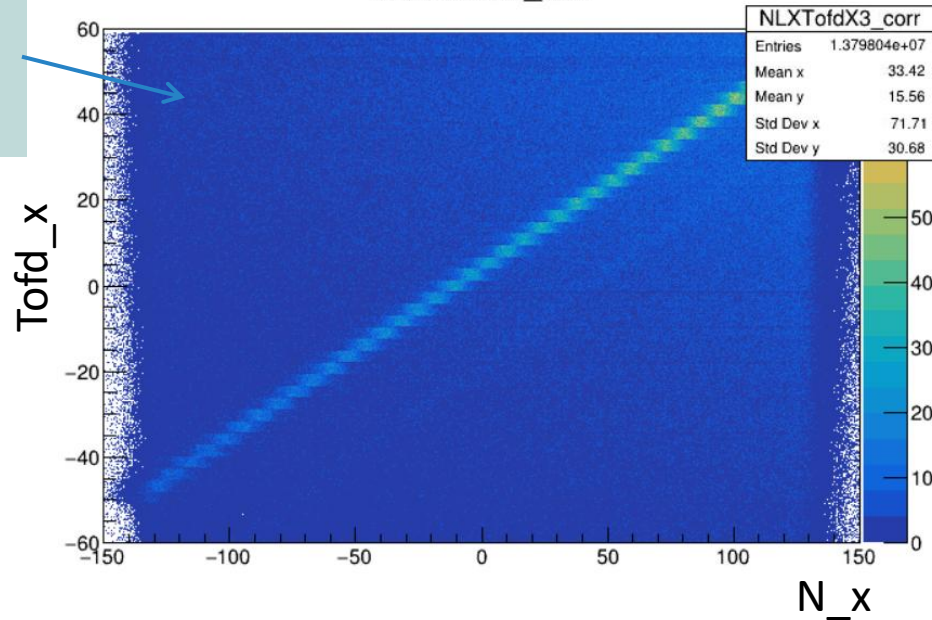
Tofd Plane 3

Tofd-Neuland correlation in X

Tofd Plane 4

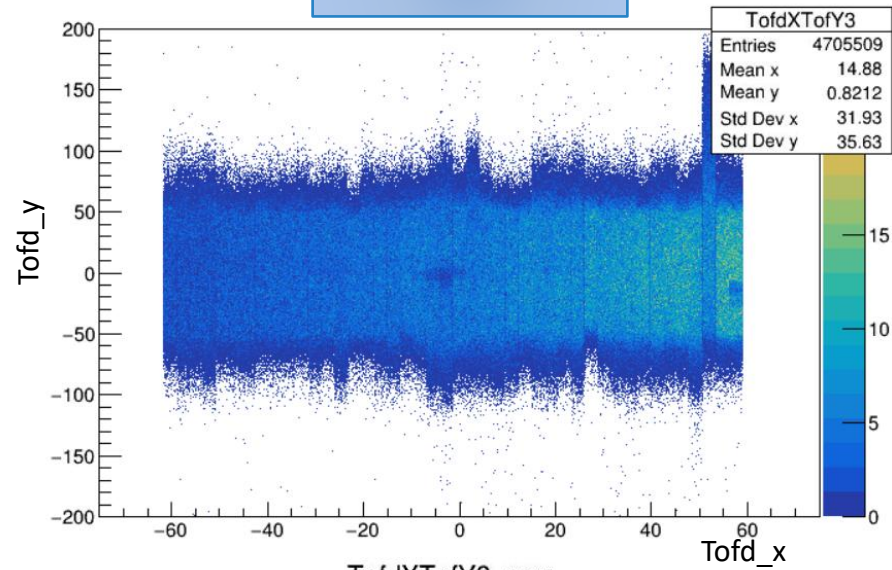


after the
correction
of the
neuland_x
values

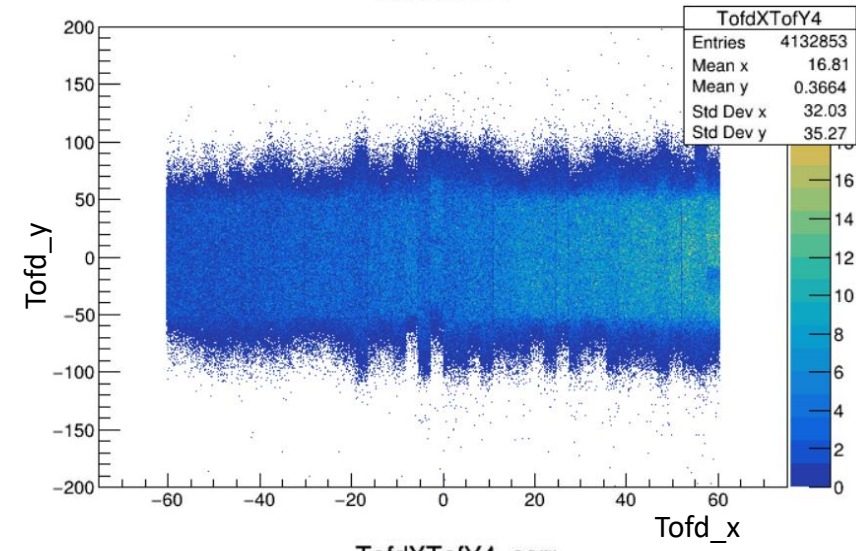


Tofd-Y-Tofd-X

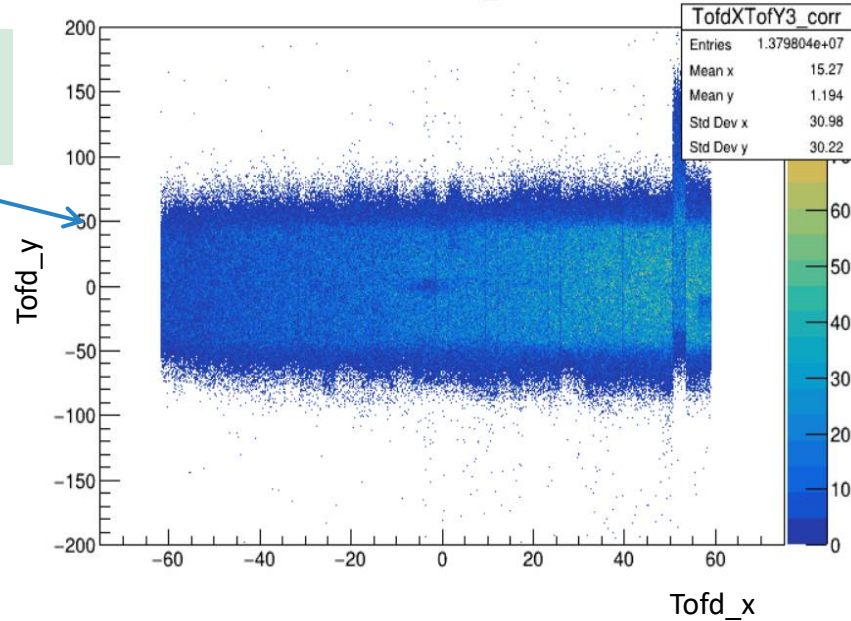
Tofd Plane 3



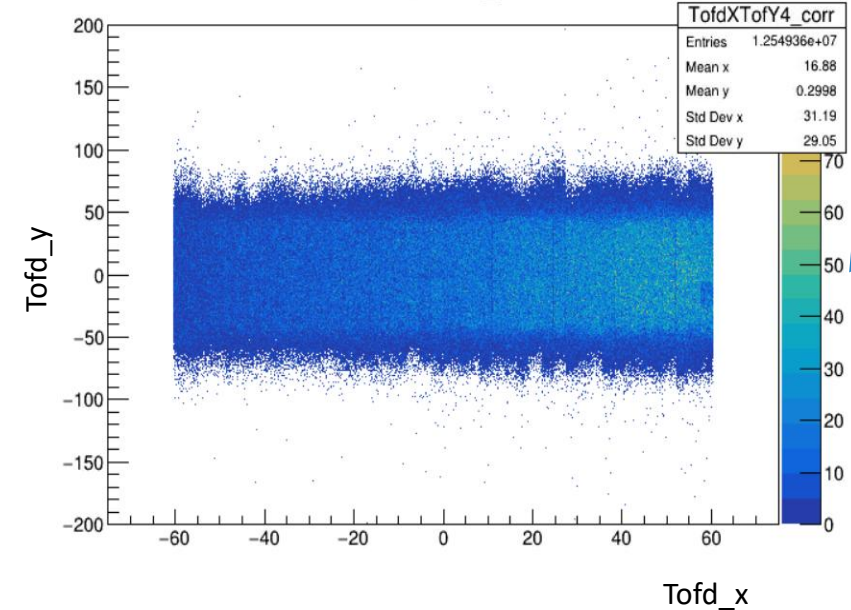
Tofd Plane 4



TofdXTofY3_corr

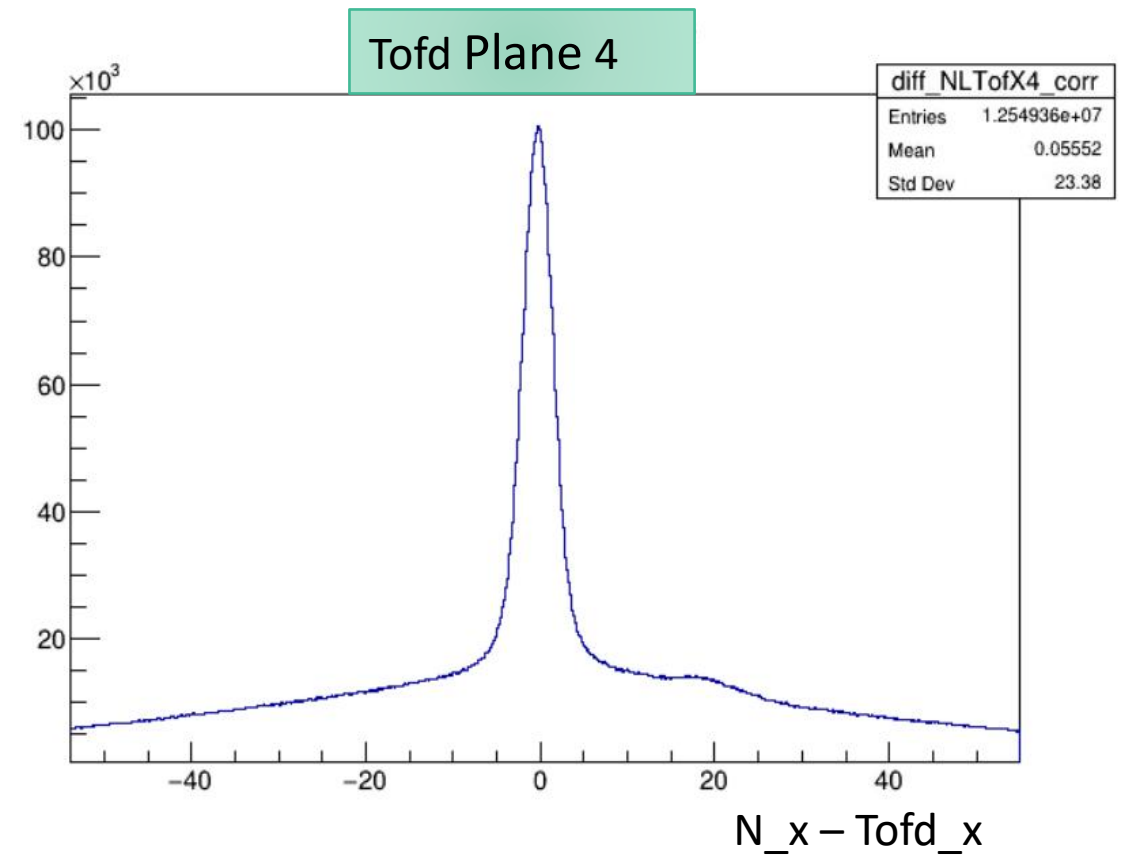
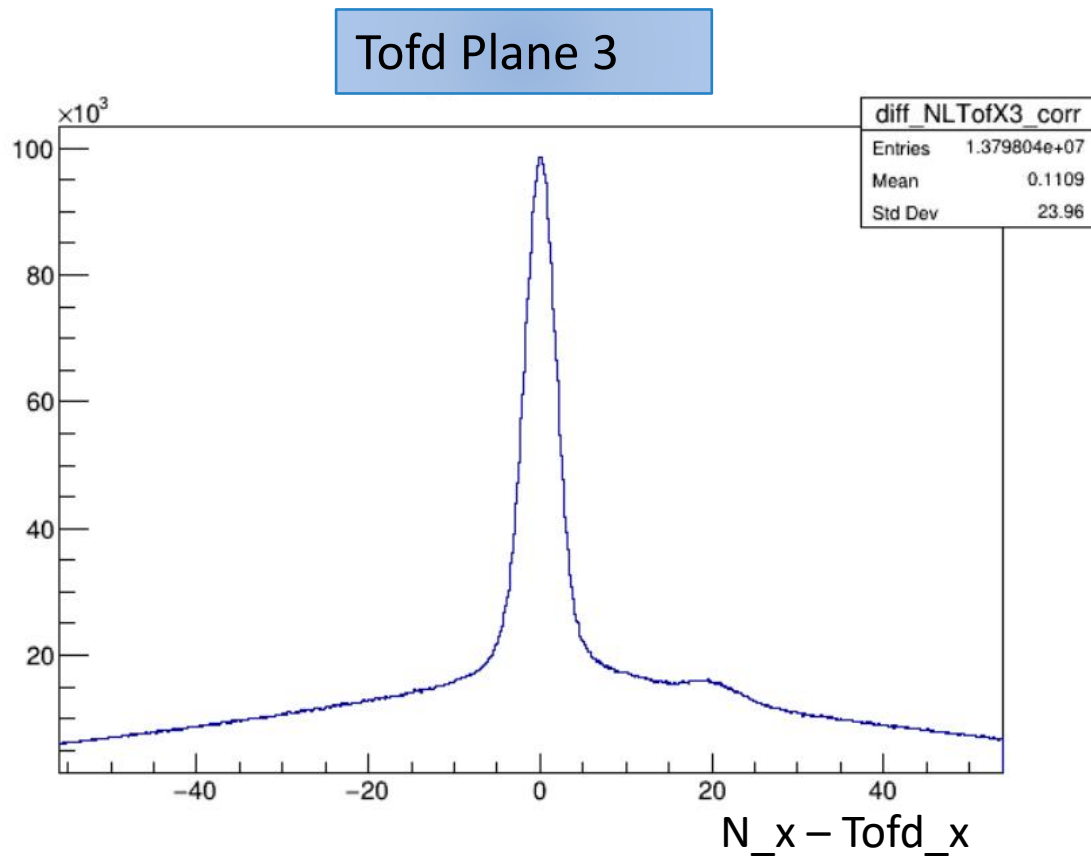


TofdXTofY4_corr



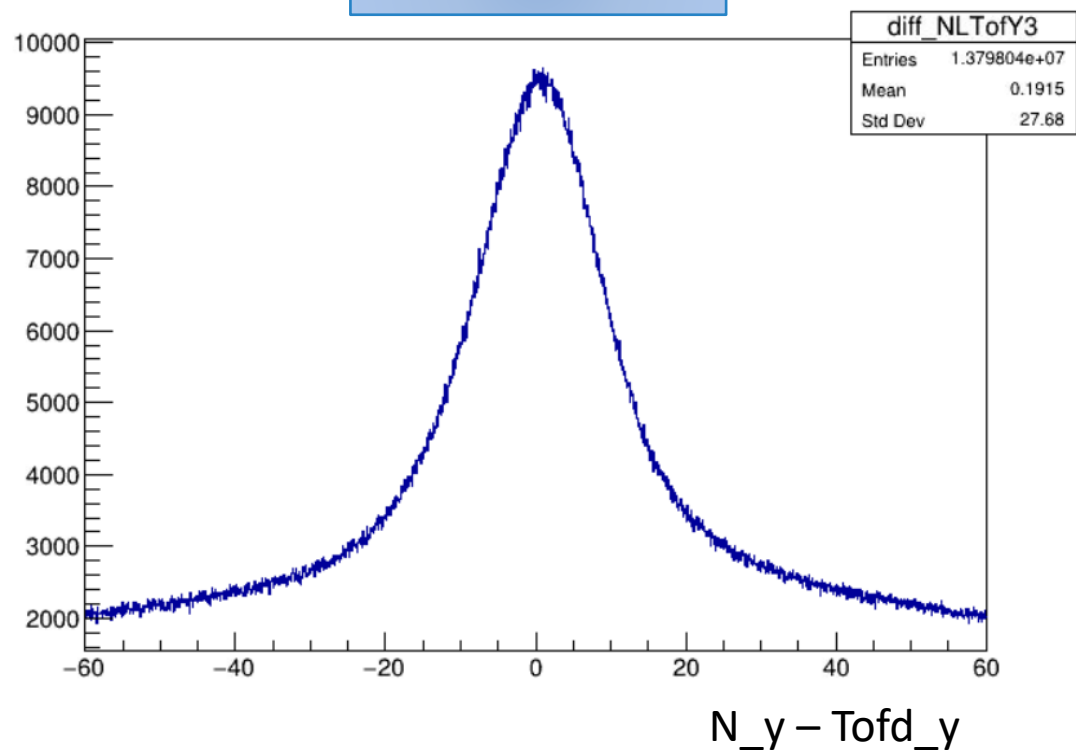
after the correction.

Taking now the difference between the **already corrected** x-values of Neuland and TOFD

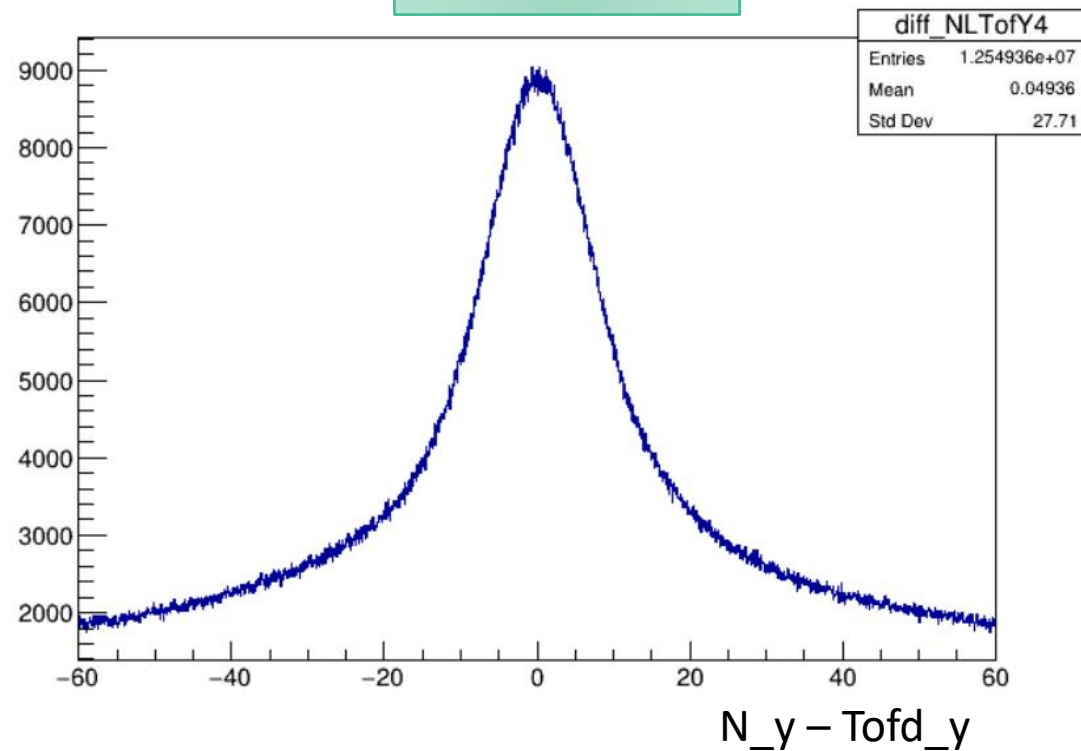


Taking now the difference between the **already corrected** y-values of Neuland and TOFD

Tofd Plane 3

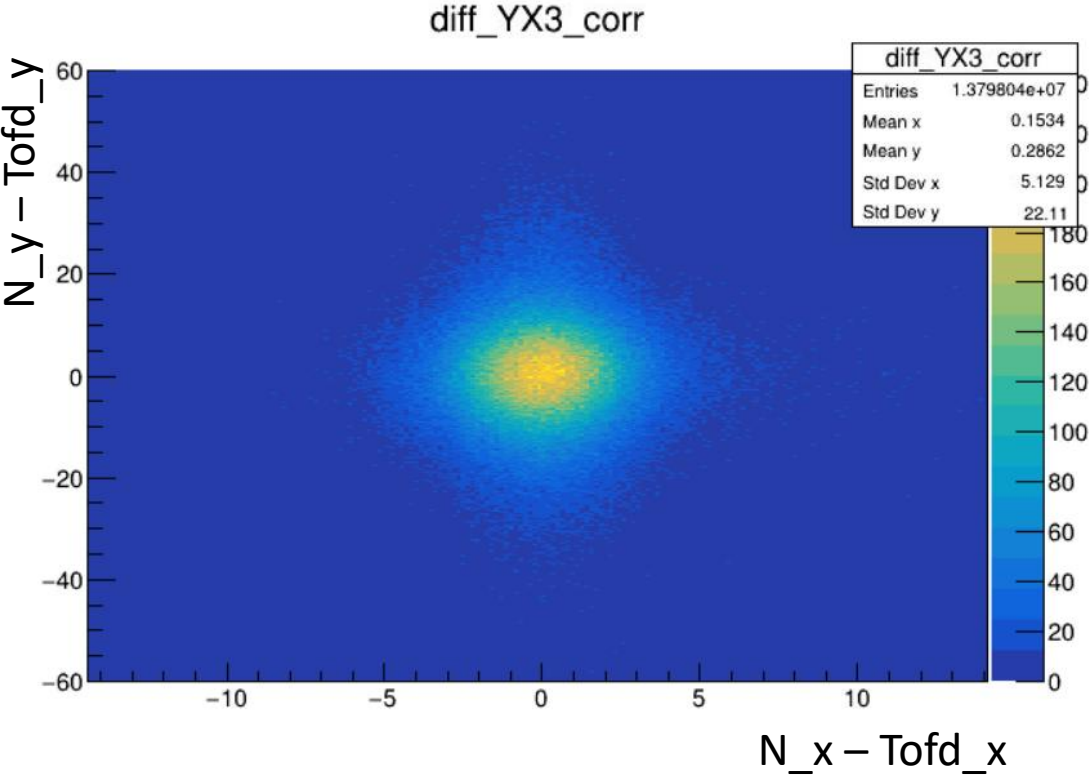


Tofd Plane 4

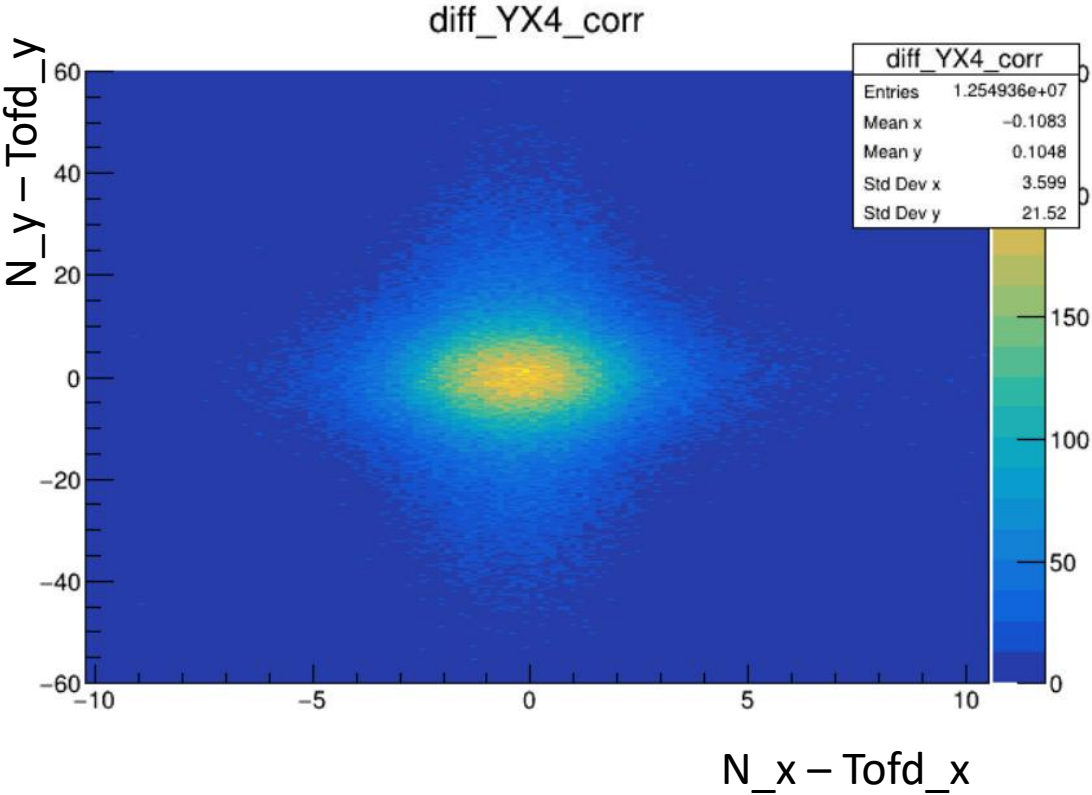


Difference Tofd-Neuland Y vs Tofd-Neuland X

Tofd Plane 3

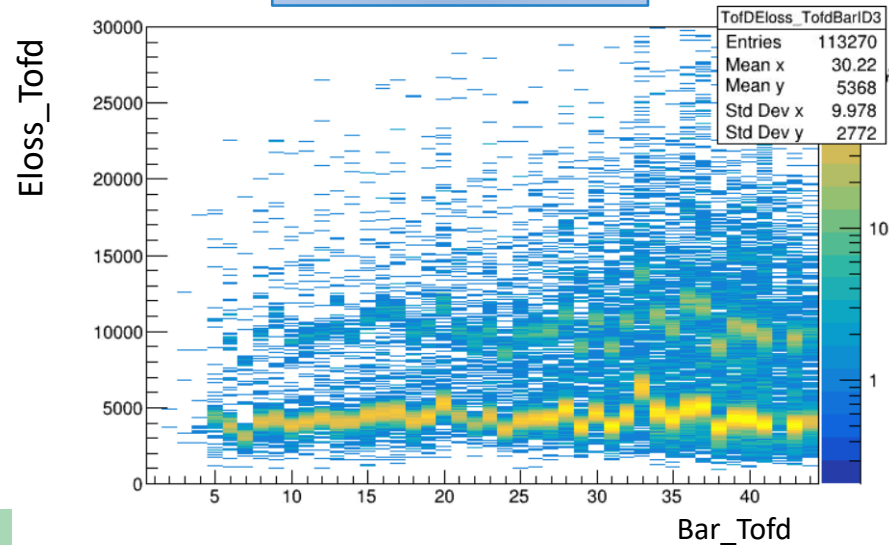


Tofd Plane 4

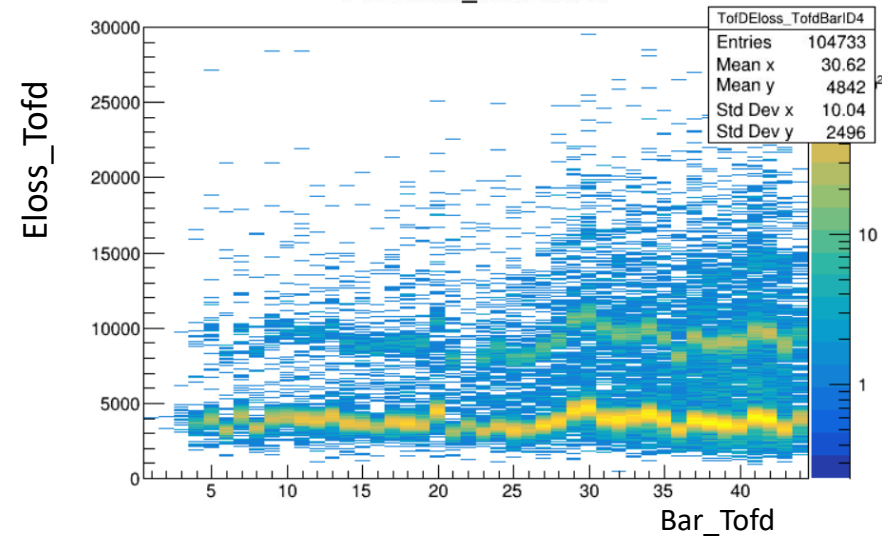


Energy loss in Tofd vs Bar_Tofd

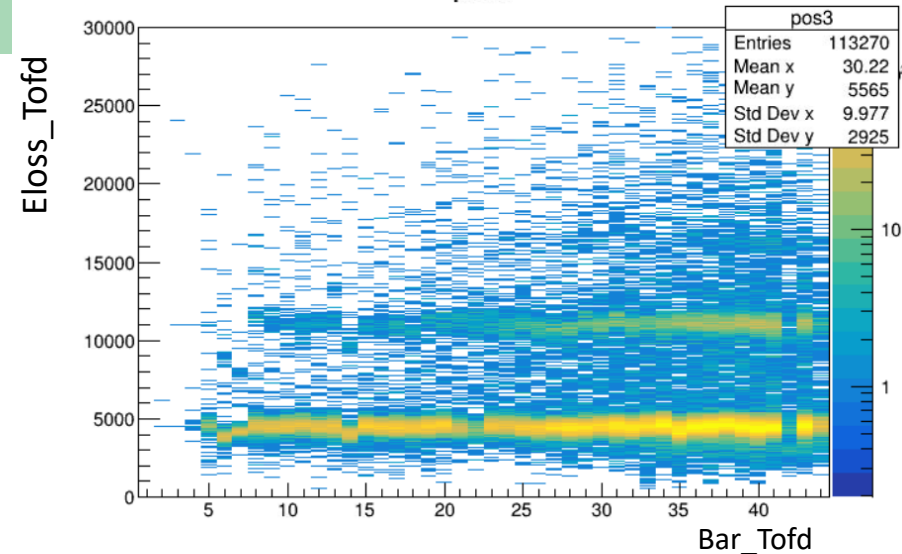
Tofd Plane 3



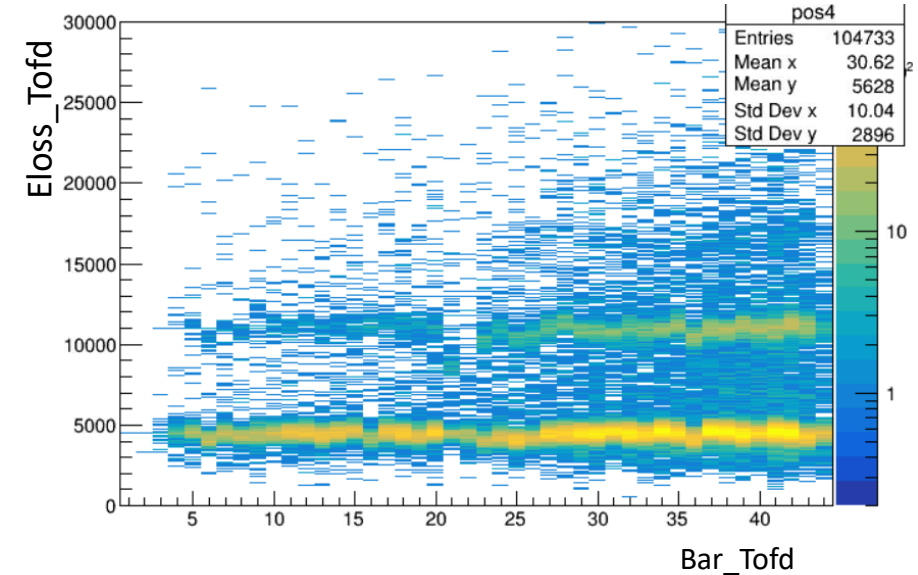
Tofd Plane 4



after the
correction.



after the
correction.

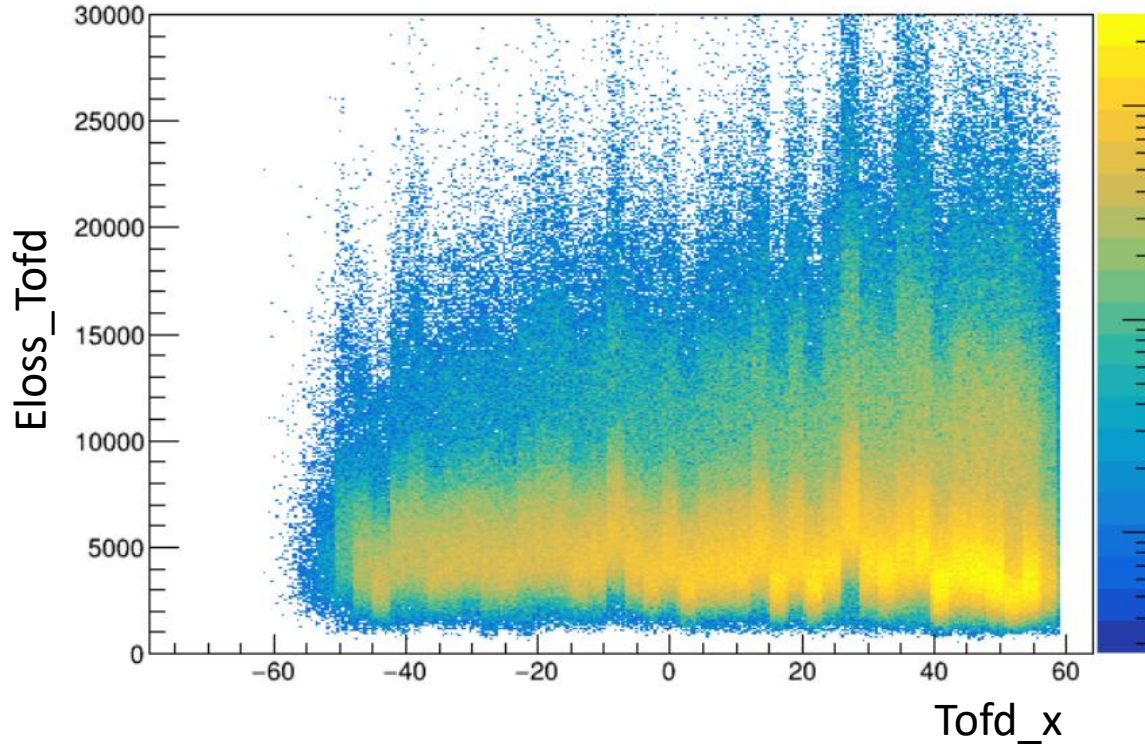


These plots were made by applying time-of-flight cuts in order to select the energy-loss peaks

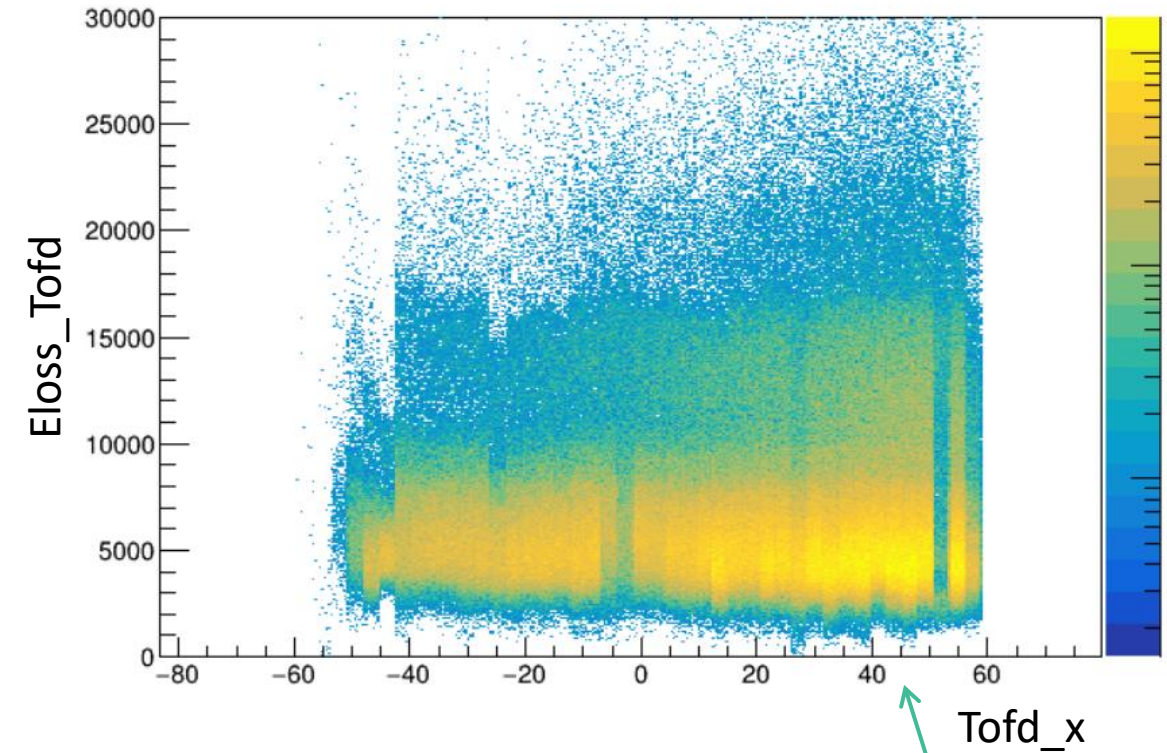
Energy loss in Tofd vs TofdX

Tofd Plane 3

TofDEloss_TofX3



TofDEloss_TofX3_corr

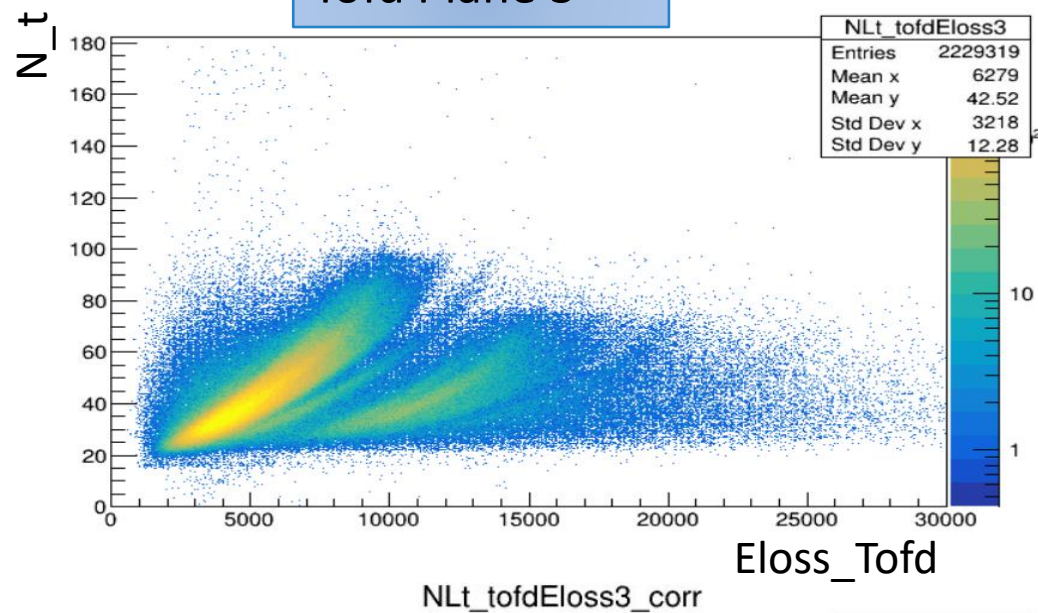


Some channels **still need to be corrected manually.**

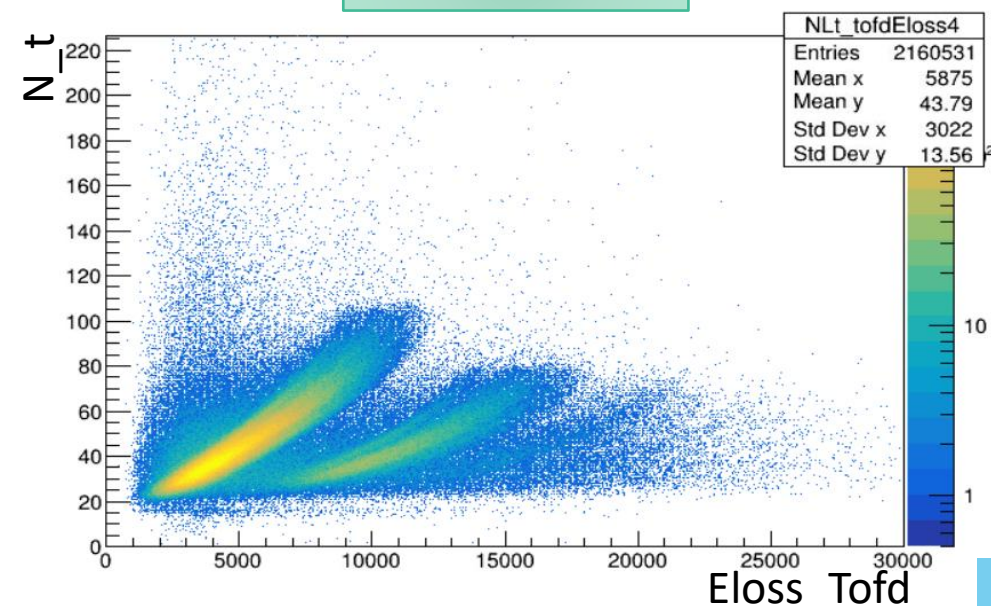
after the correction.

Neuland_time vs Energy loss in Tofd

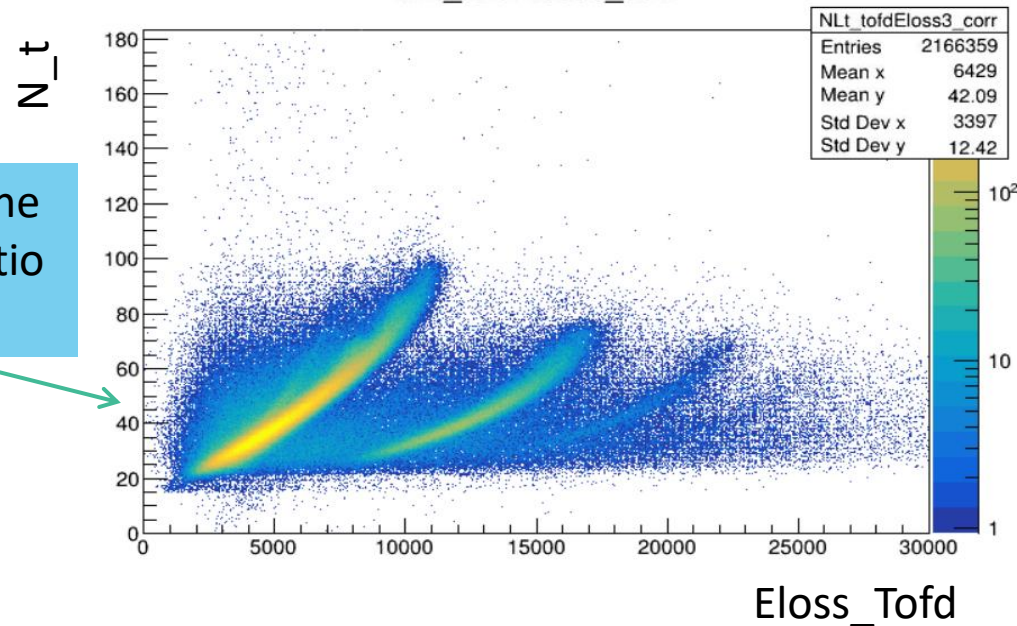
Tofd Plane 3



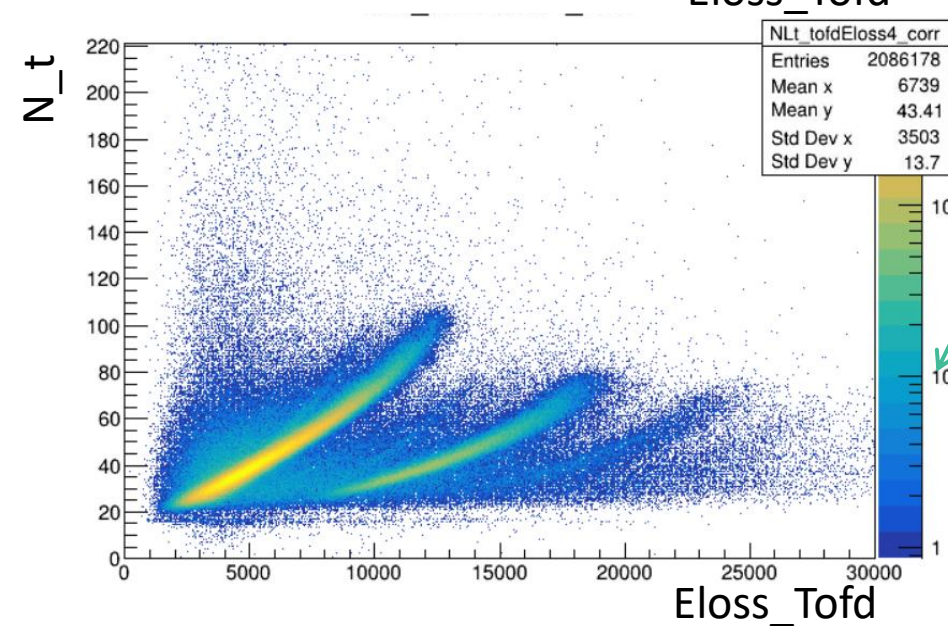
Tofd Plane 4



after the
correctio
n.

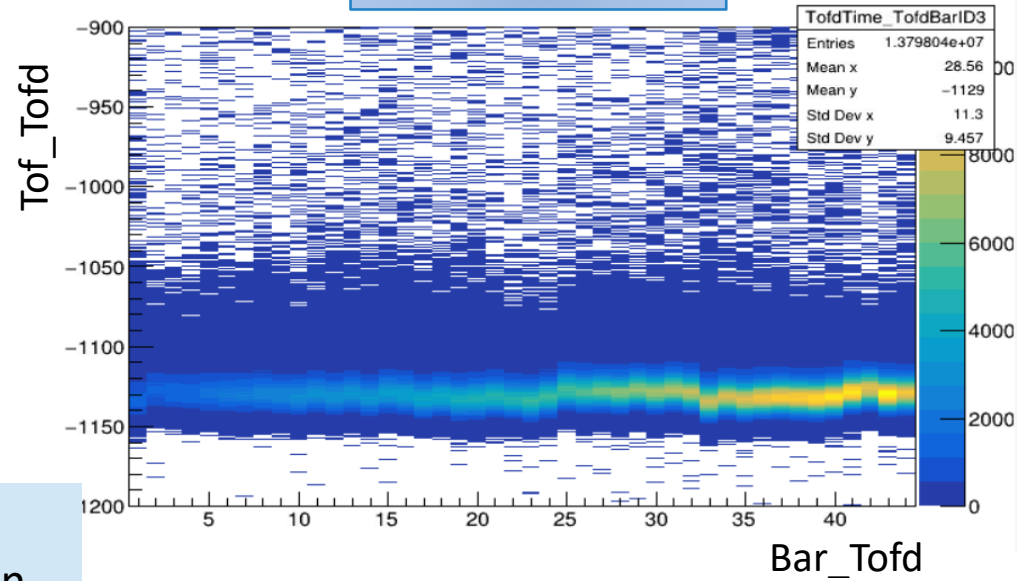


after the
correction

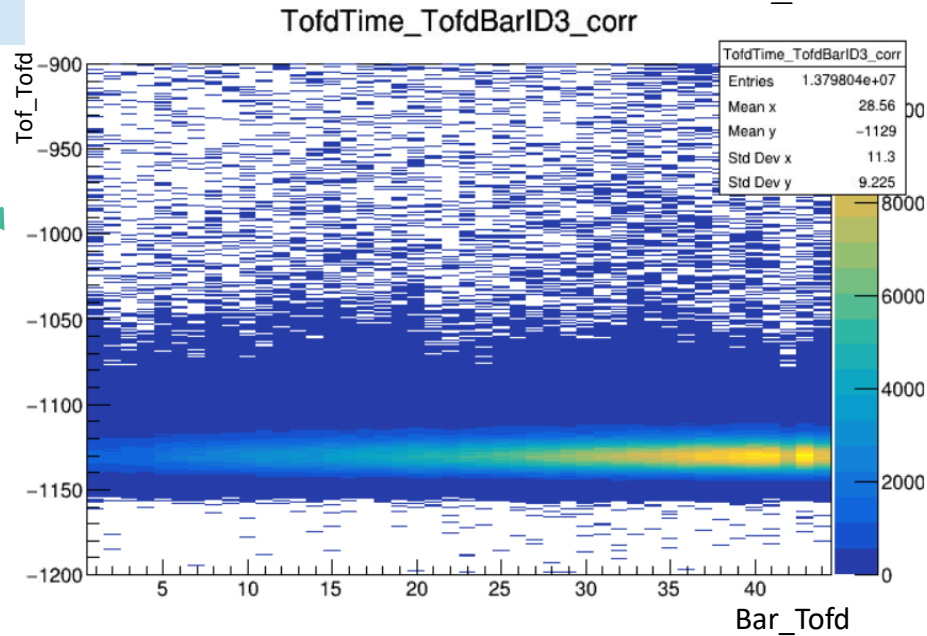


TOF of tofd vs Bar Tofd

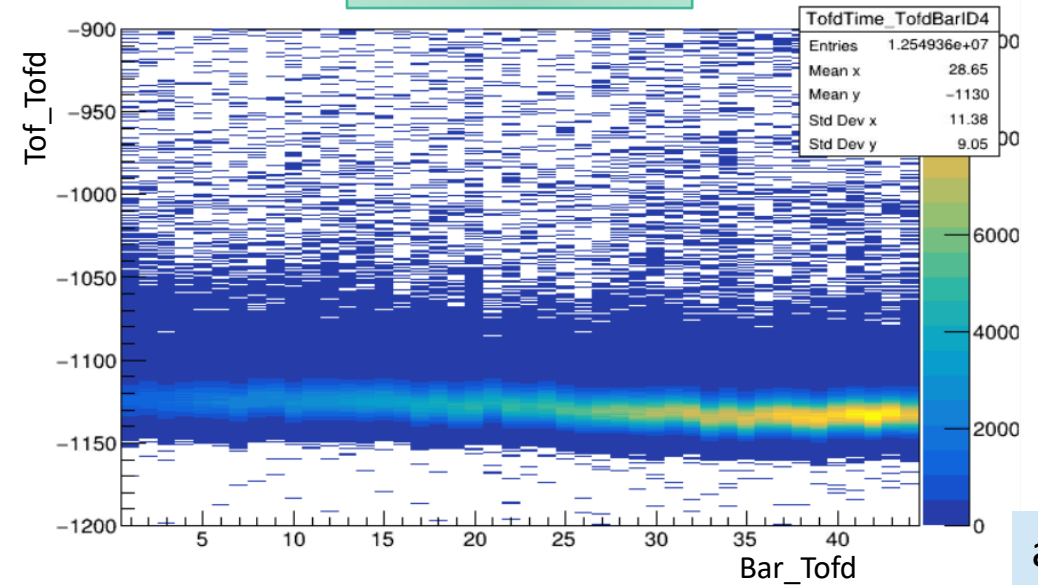
Tofd Plane 3



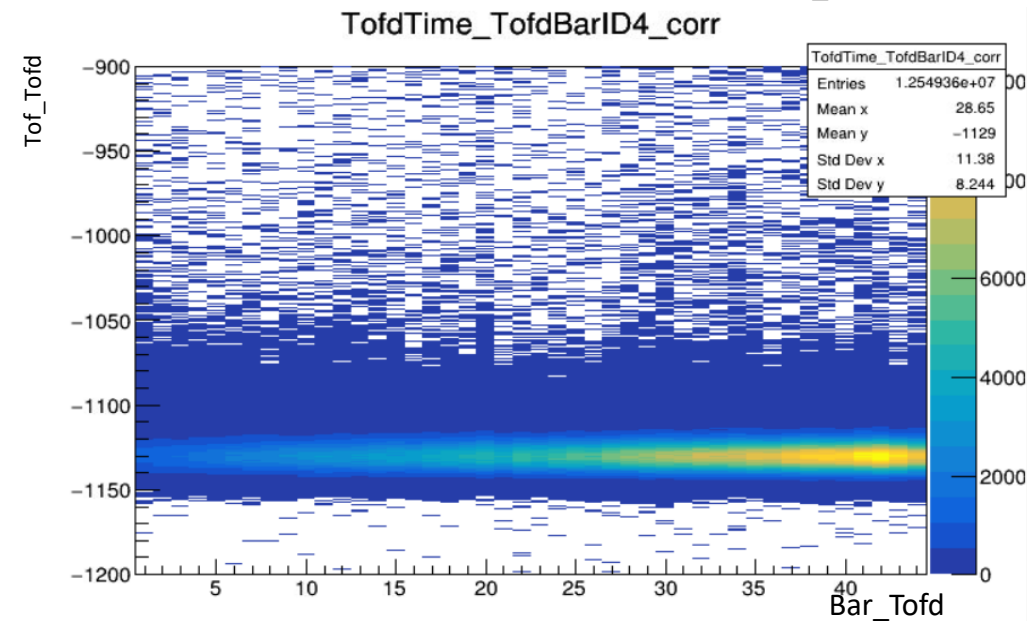
after the
correction.



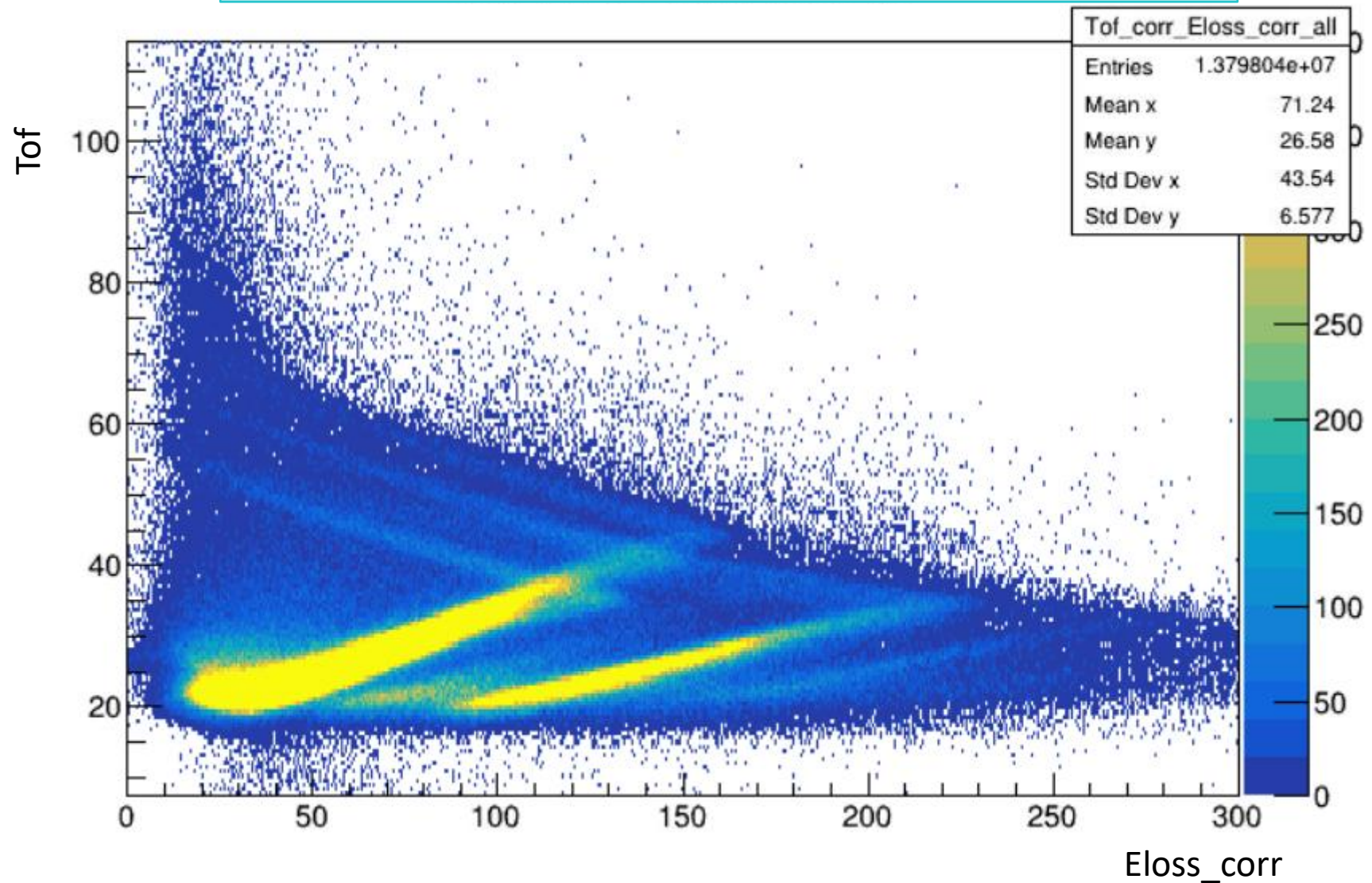
Tofd Plane 4



after the
correcti
on.



Tof_Tofd vs Energy loss in TODF

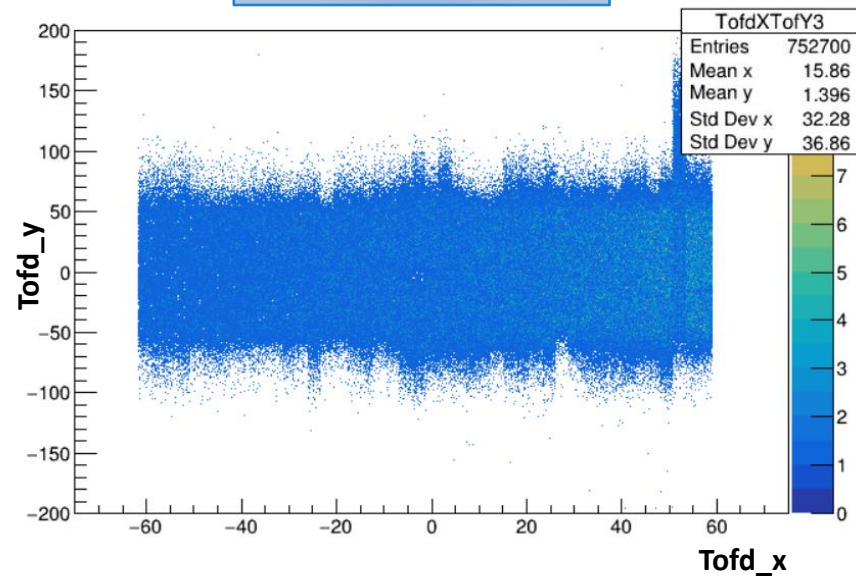


356 Empty frame 280MeV/A

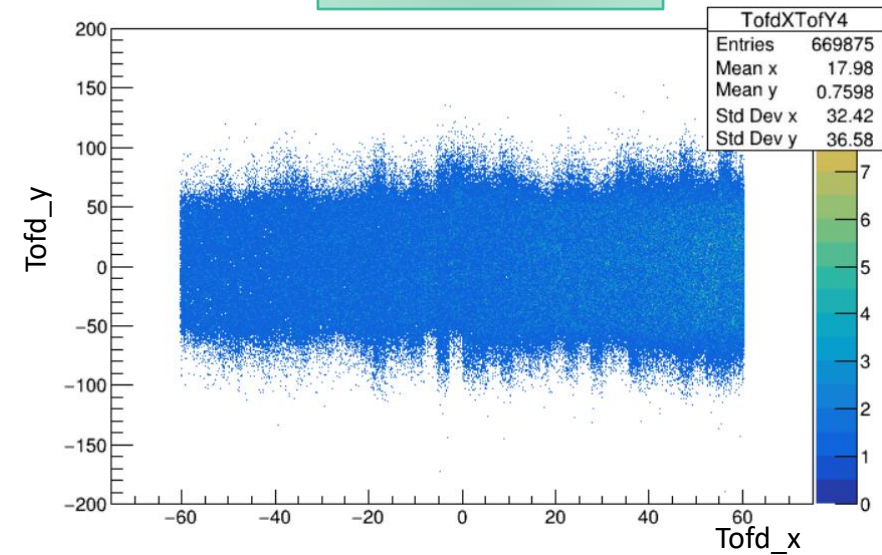
A solid blue horizontal bar at the bottom of the slide.

Tofd-Y-Tofd-X

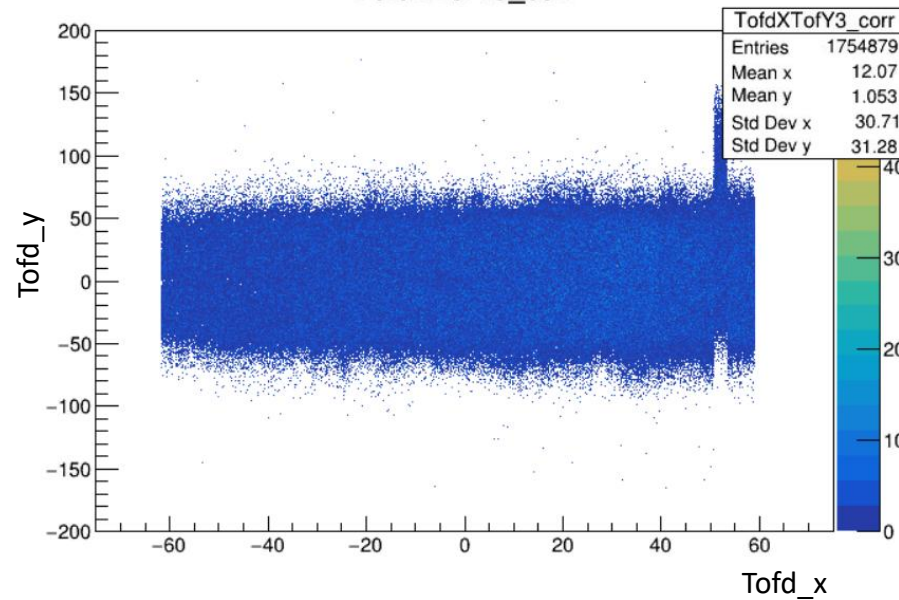
Tofd Plane 3



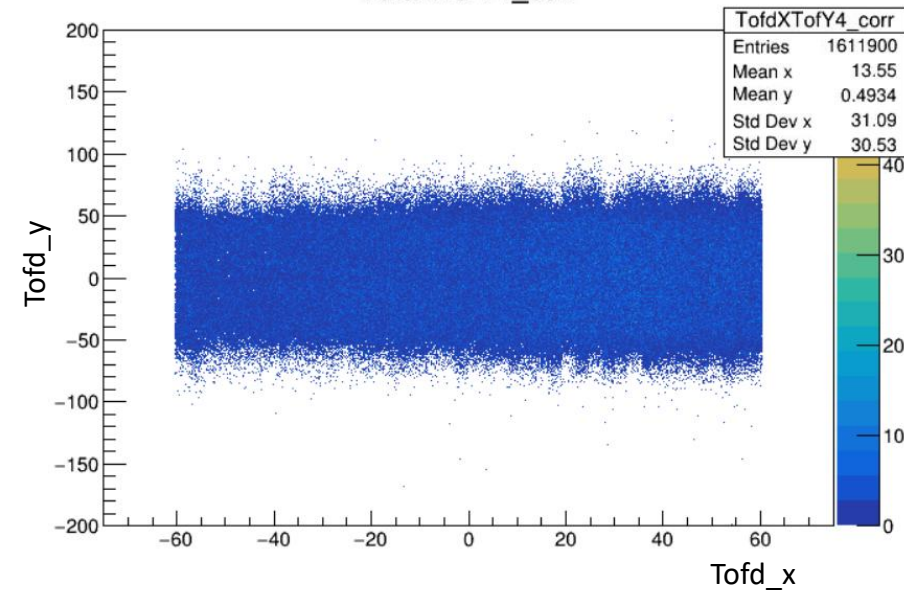
Tofd Plane 4



TofdXTofY3_corr



TofdXTofY4_corr



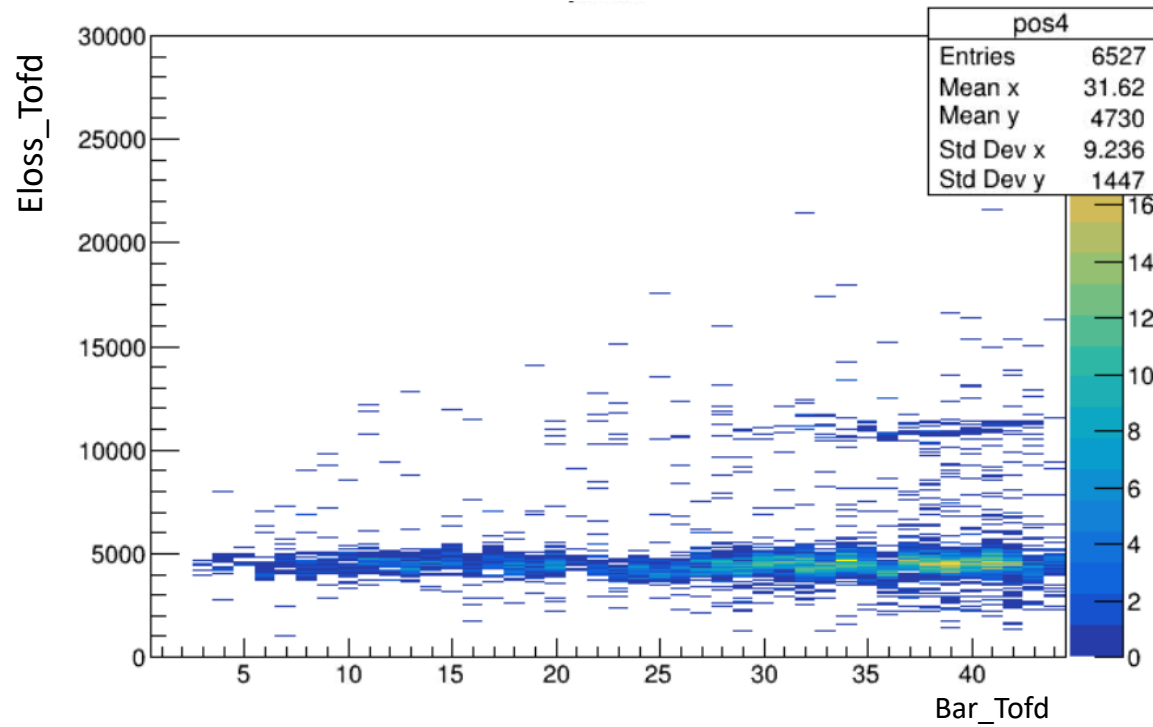
after the
correction.

after the
correctio
n.

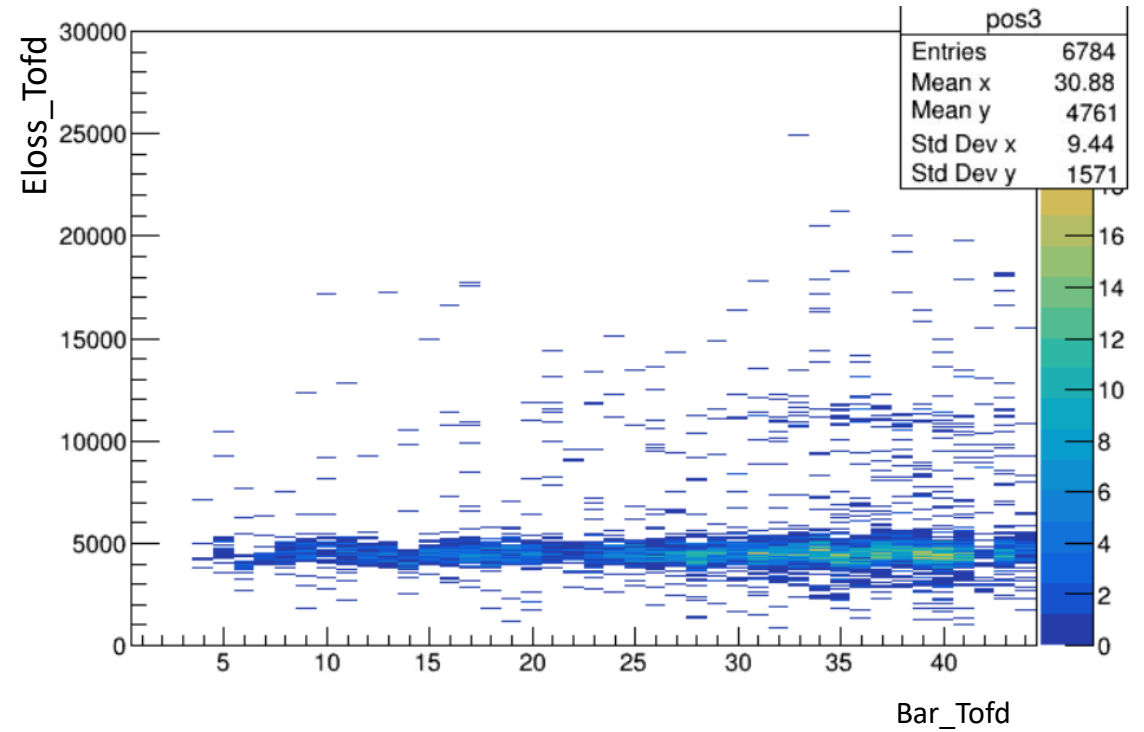
Energy loss in Tofd vs Bar_Tofd

after the correction

Tofd Plane 3



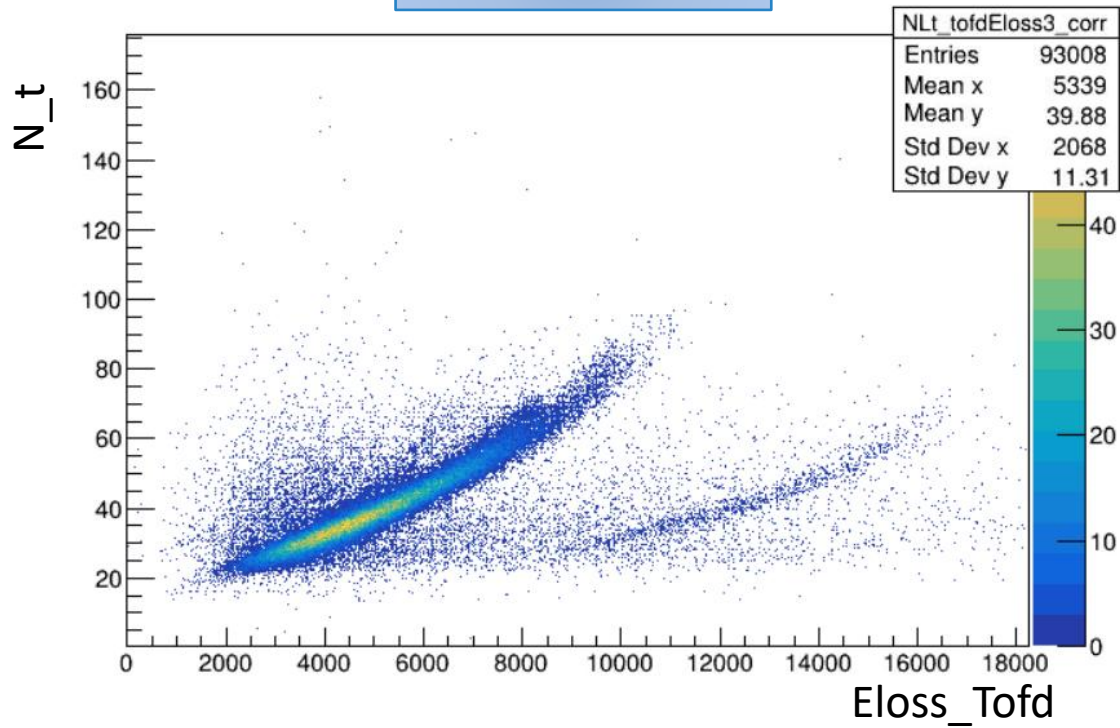
Tofd Plane 4



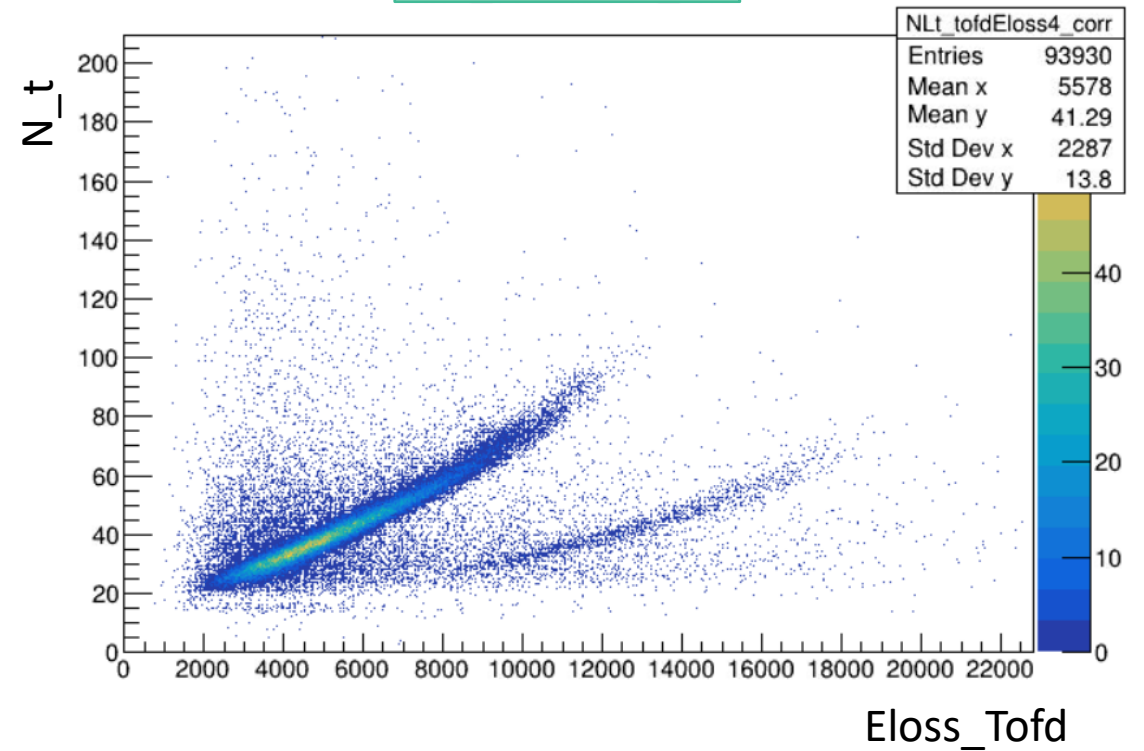
Neuland_time vs Energy loss in Tofd

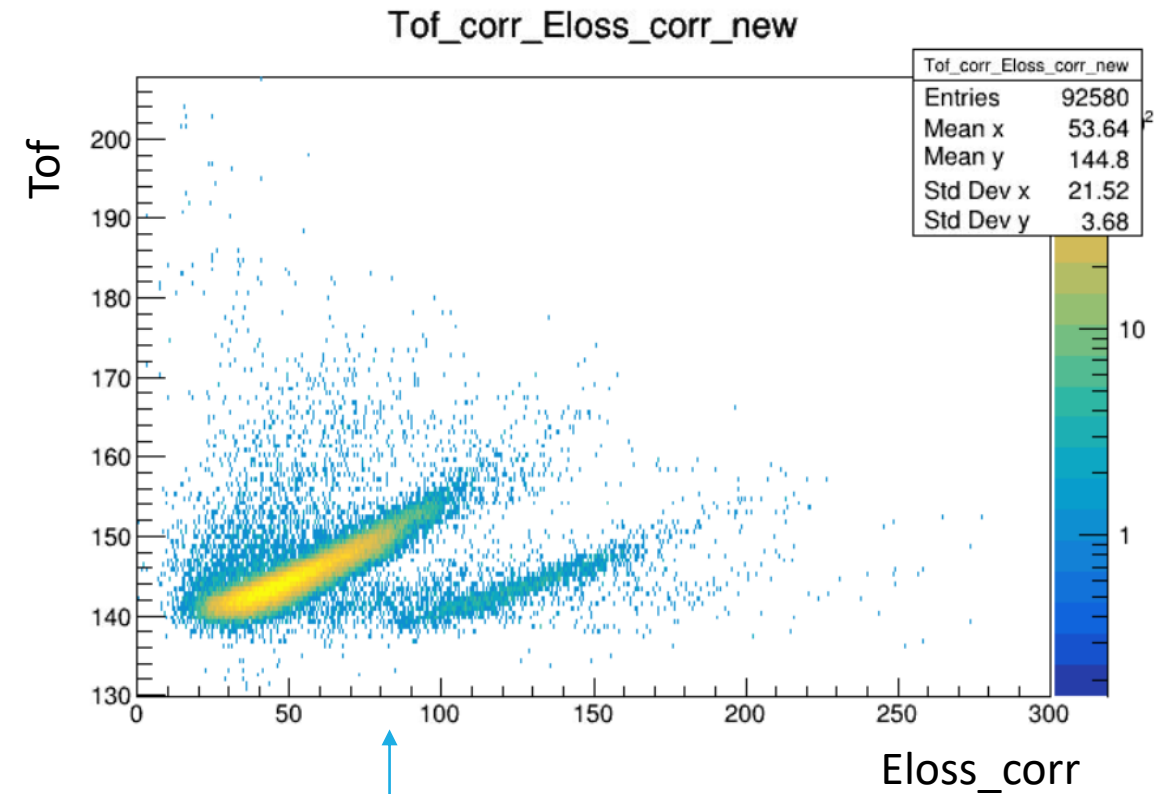
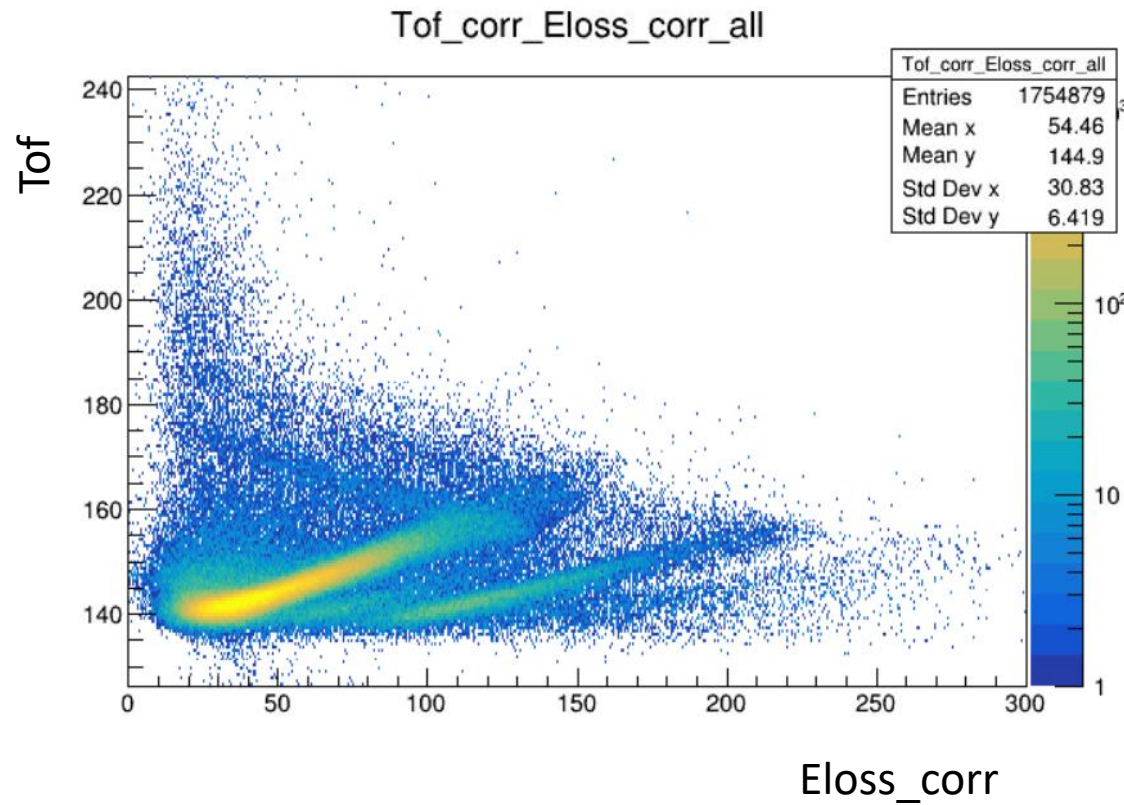
after the correction.

Tofd Plane 3



Tofd Plane 4



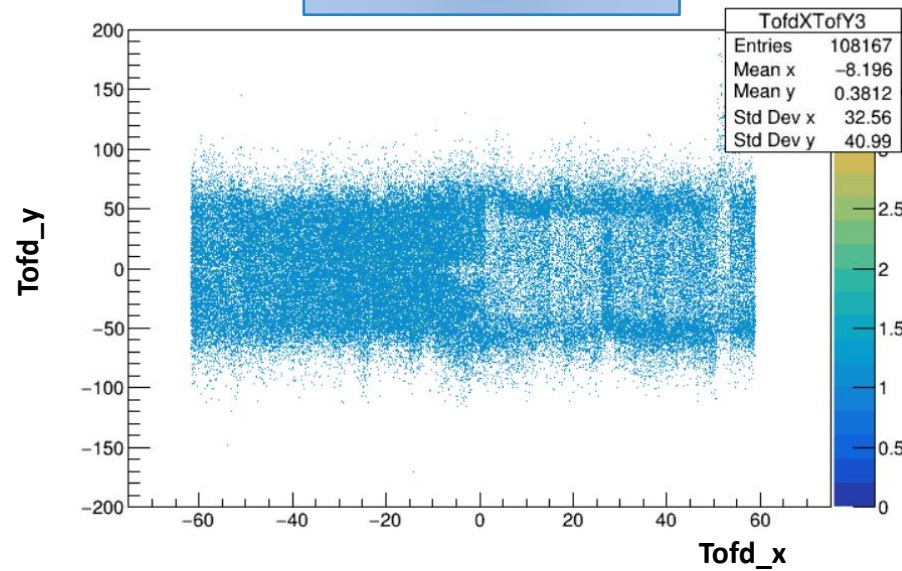


Selection conditions have been applied on spatial and timing parameters

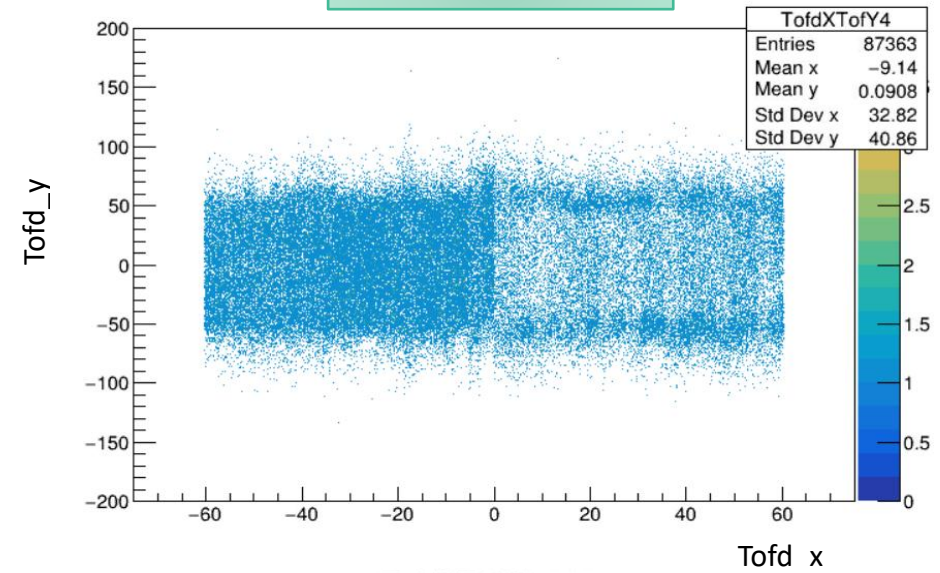
329 Empty +SB 280MeV/A

Tofd-Y-Tofd-X

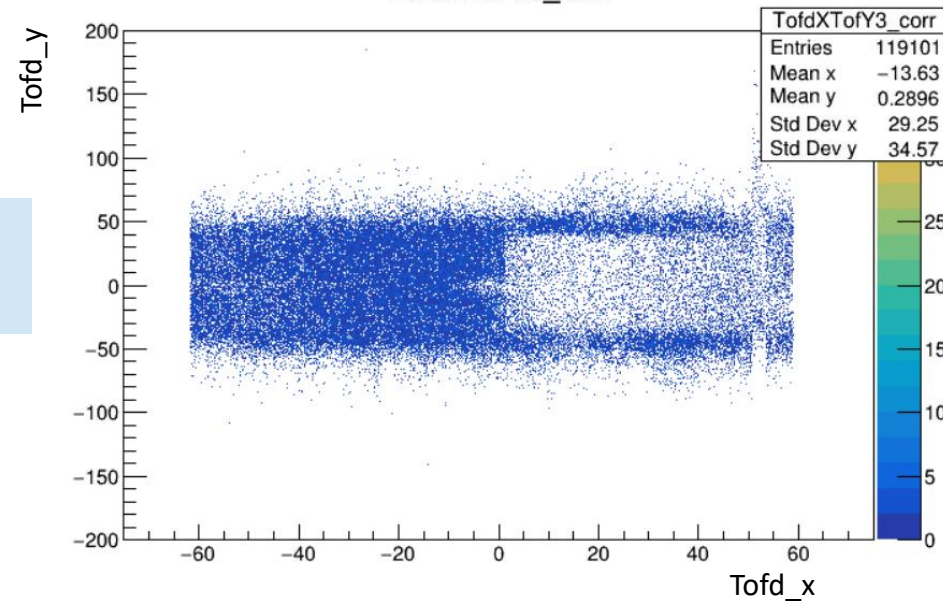
Tofd Plane 3



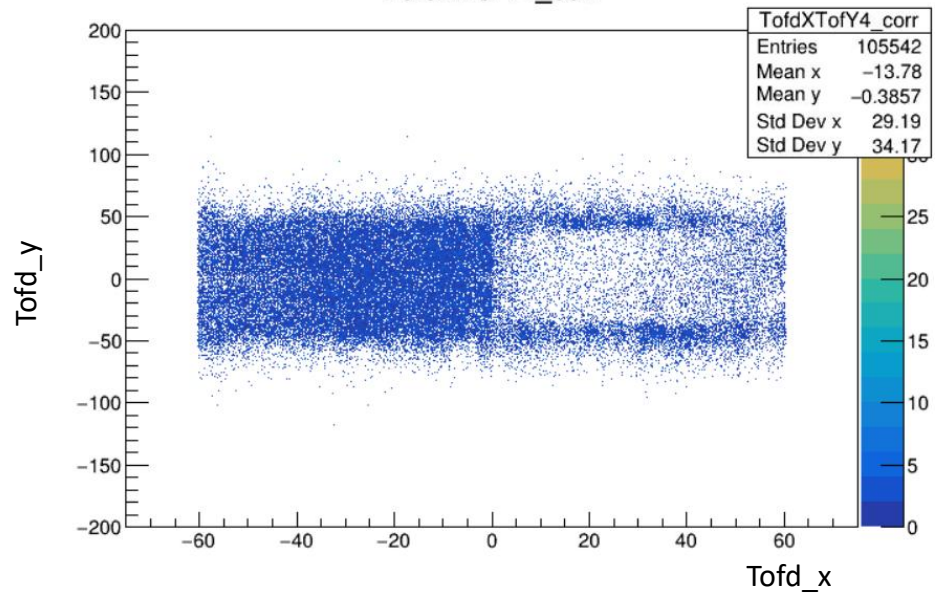
Tofd Plane 4



TofdXTofY3_corr



TofdXTofY4_corr



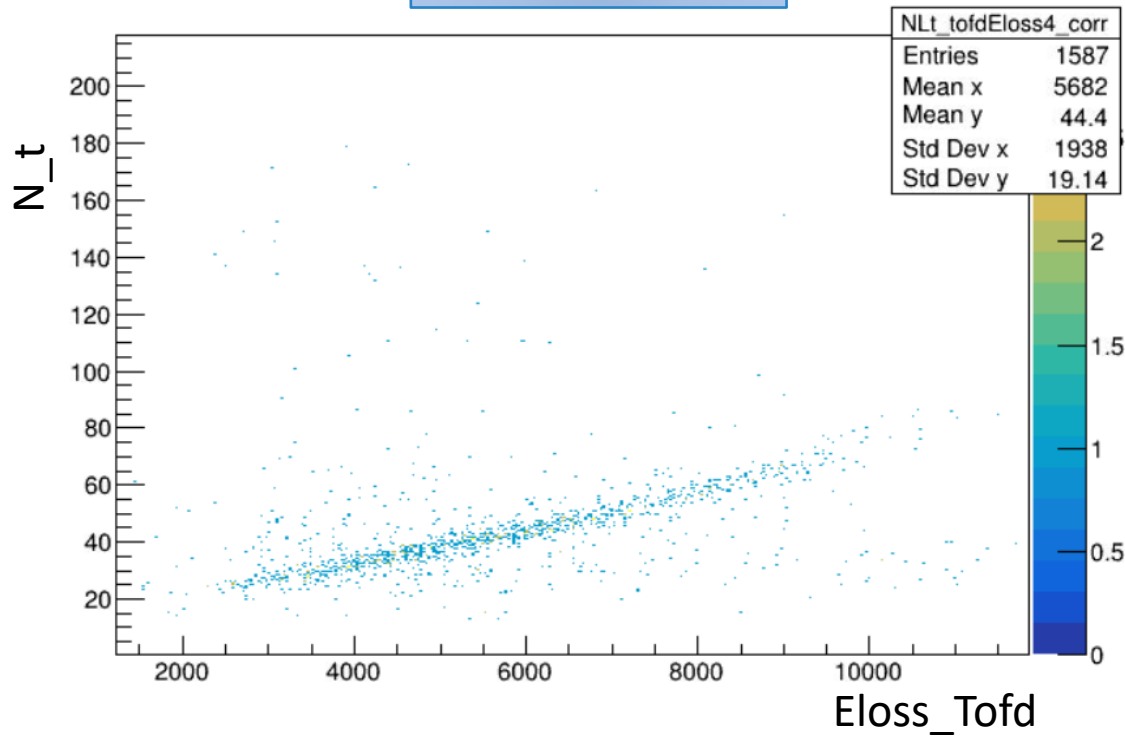
after the
correction.

after the
correction.

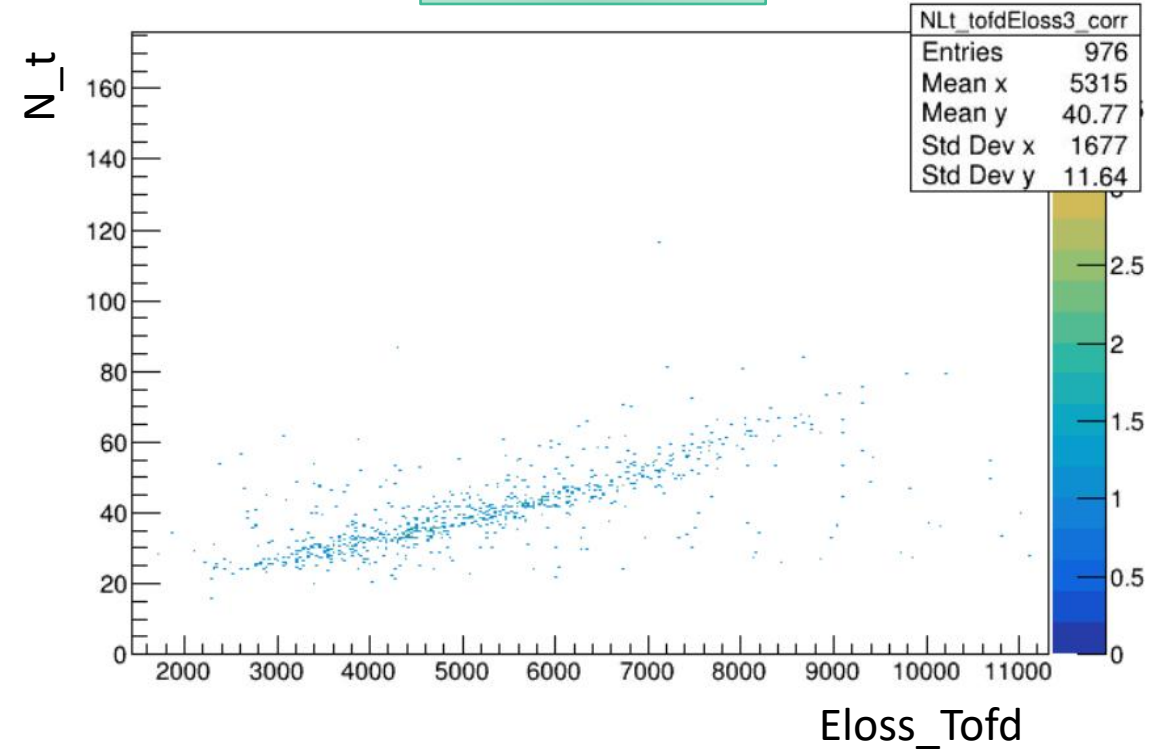
Neuland_time vs Energy loss in Tofd

after the correction.

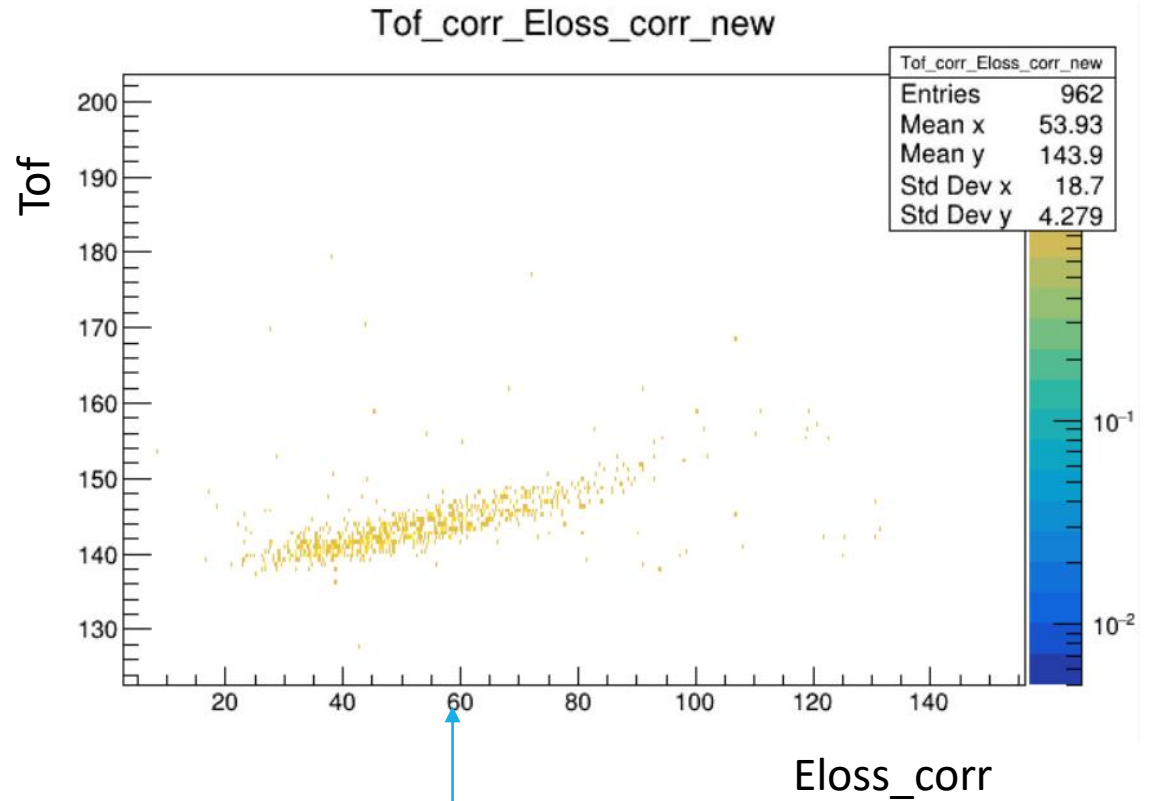
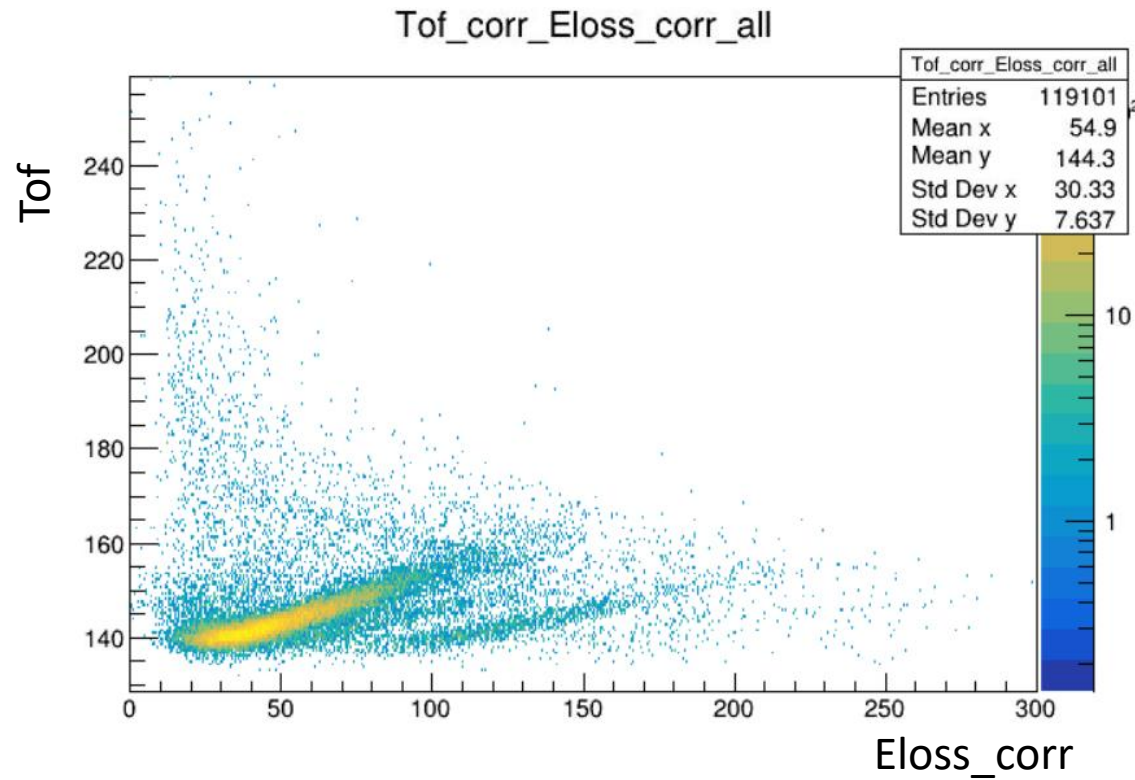
Tofd Plane 3



Tofd Plane 4



Tof_Tofd vs Energy loss in TODF

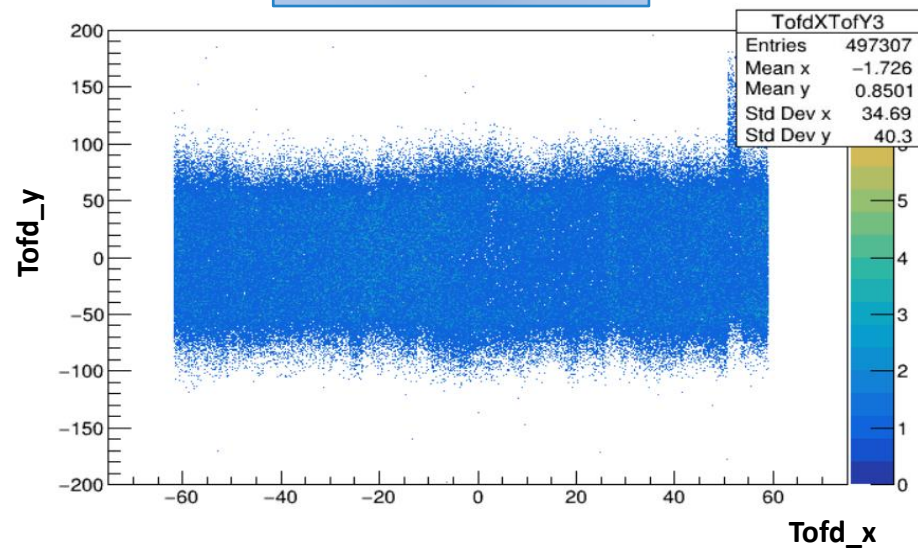


Selection conditions have been applied on spatial and timing parameters

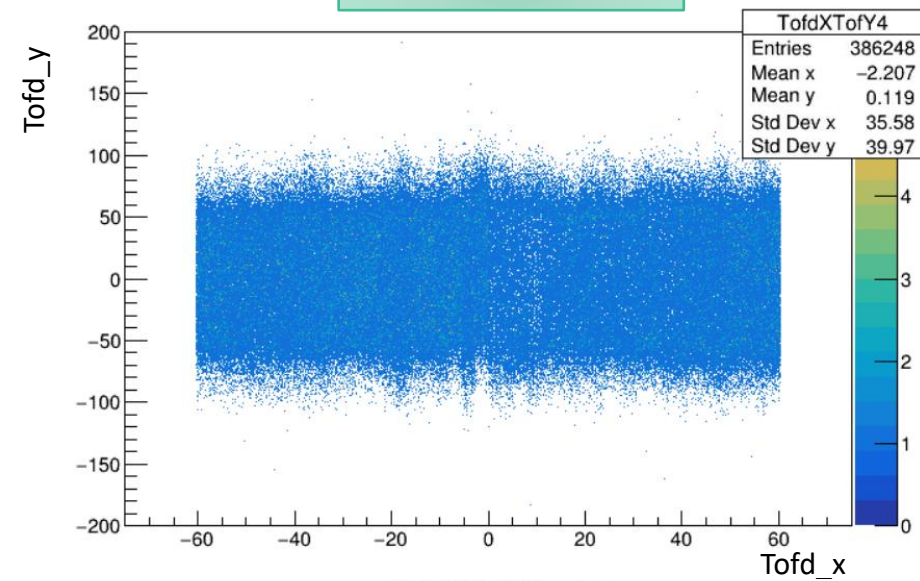
331 Au%+SB 280MeV/A

Tofd-Y-Tofd-X

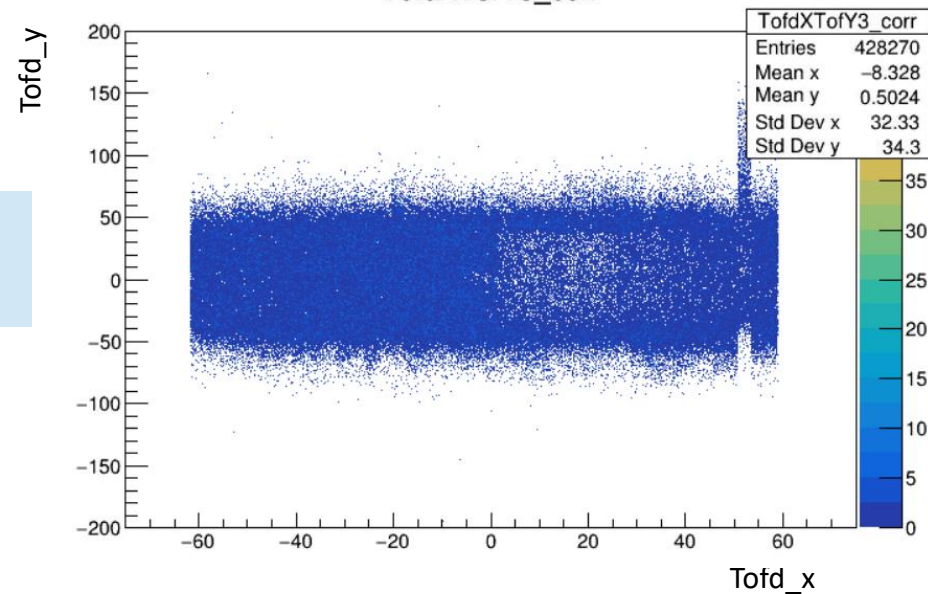
Tofd Plane 3



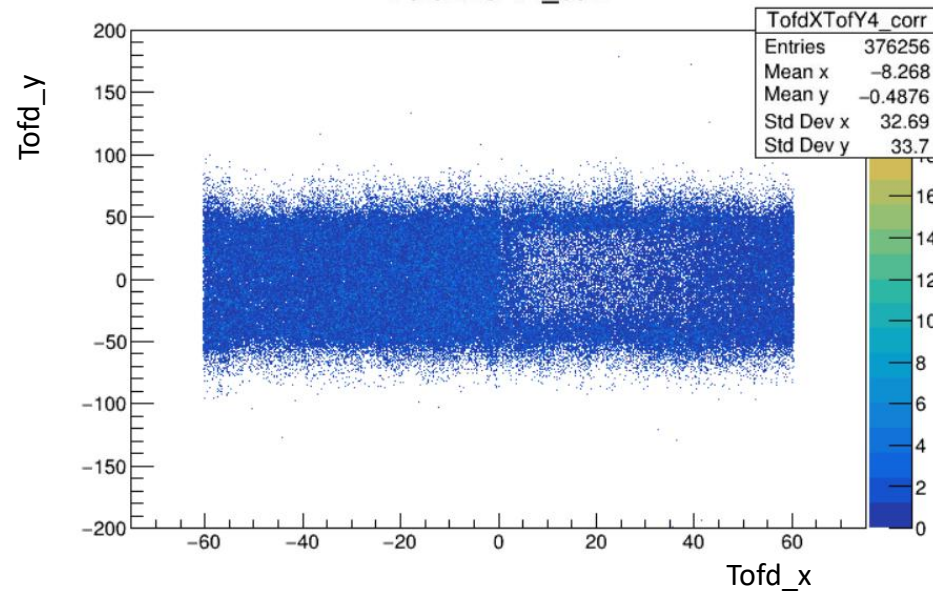
Tofd Plane 4



TofdXTofY3_corr



TofdXTofY4_corr

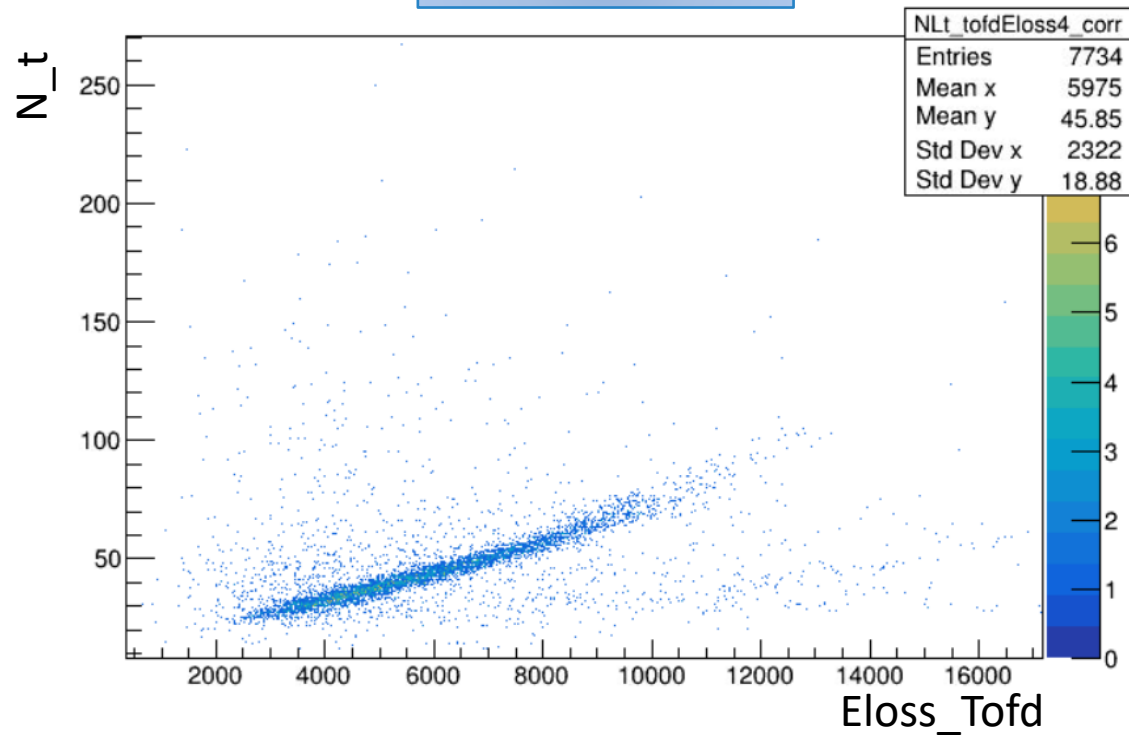


after the
correction.

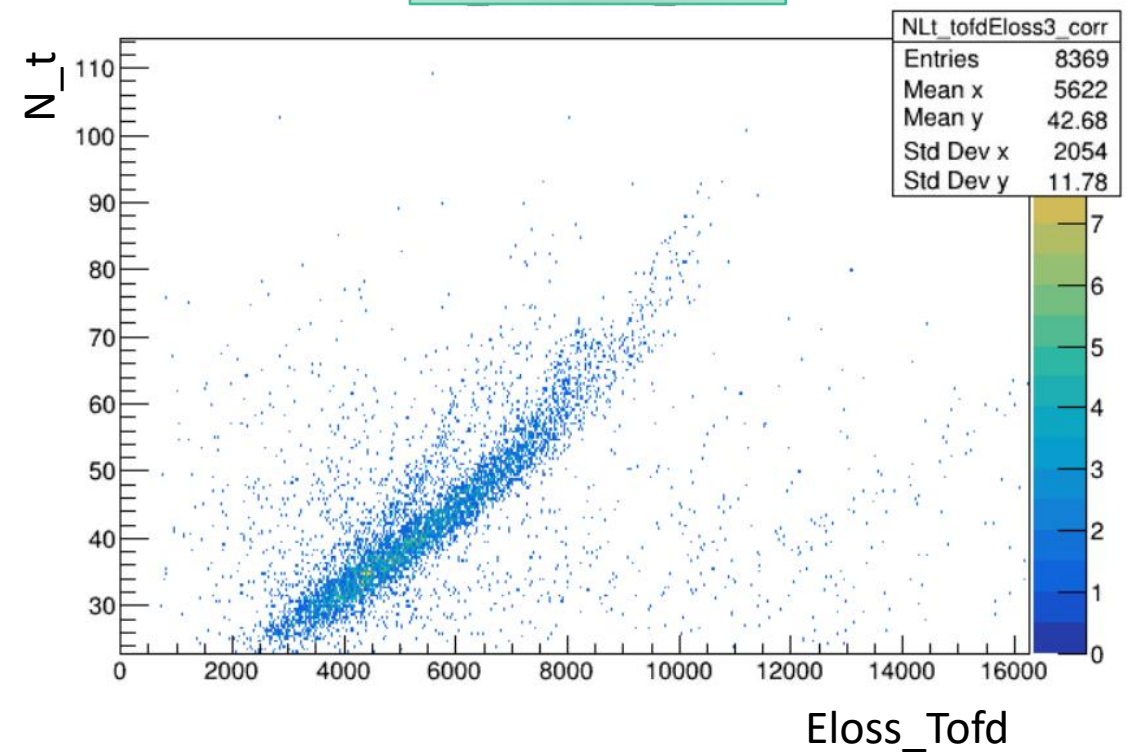
after the
correction.

after the
correction.

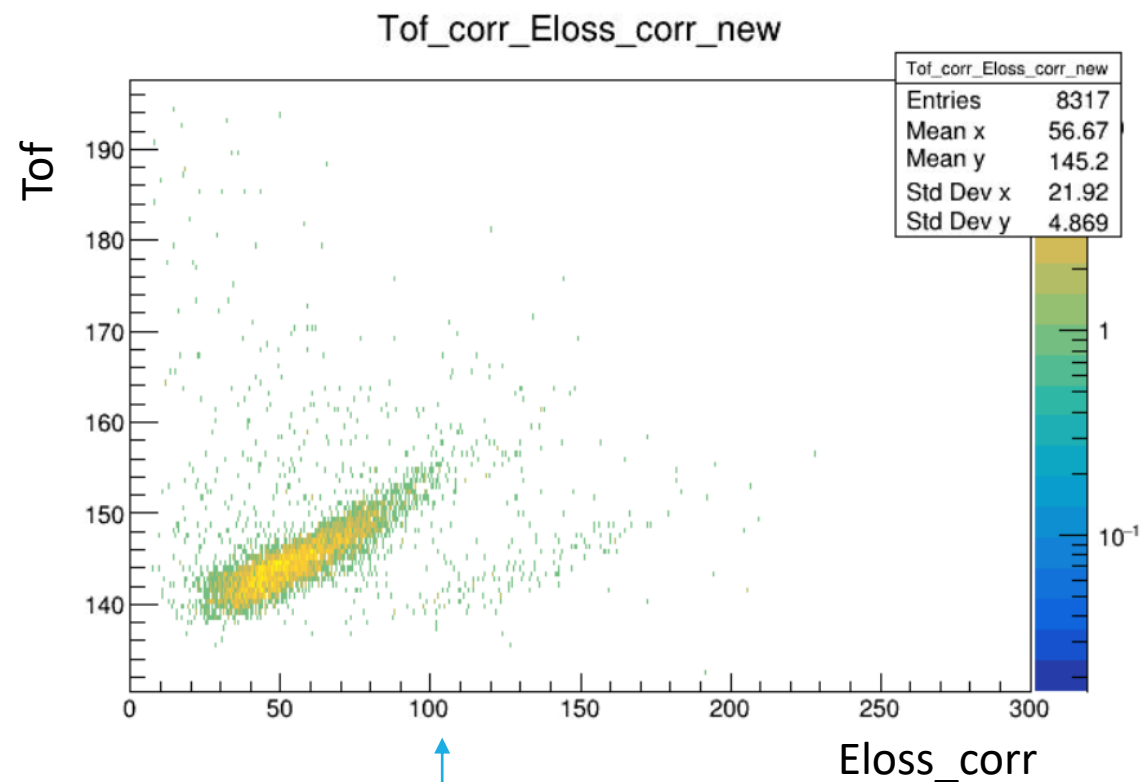
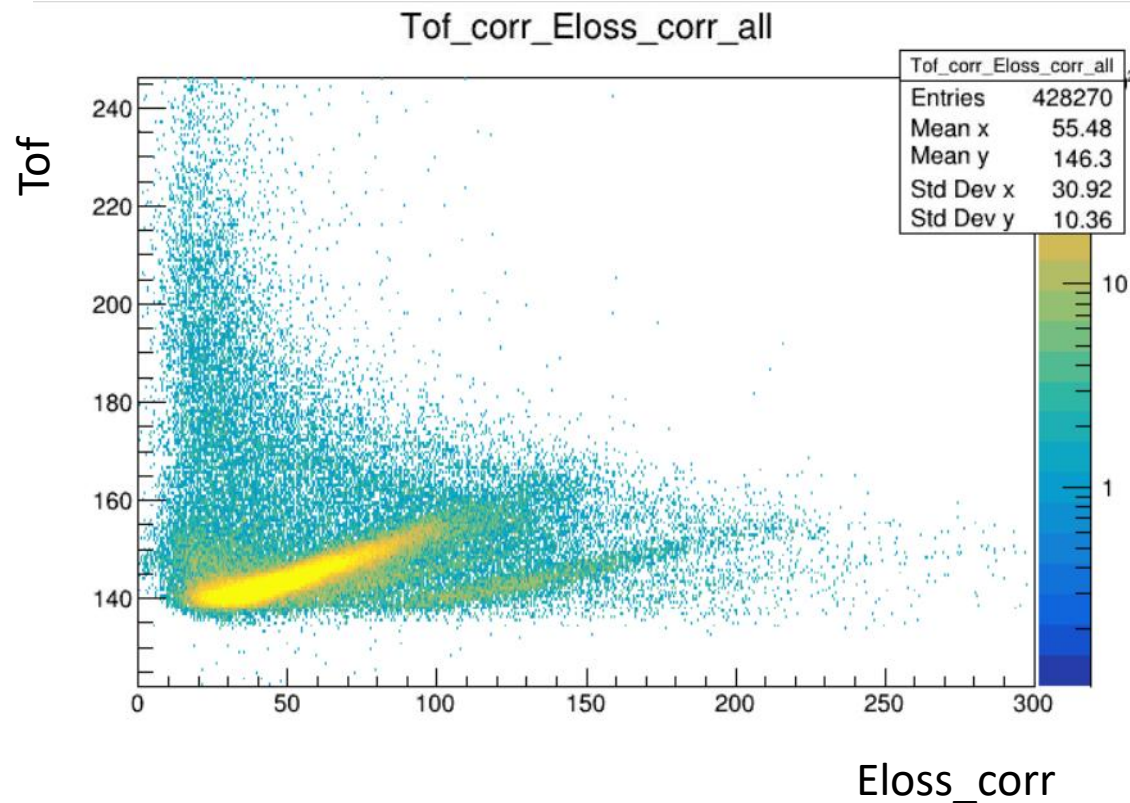
Tofd Plane 3



Tofd Plane 4

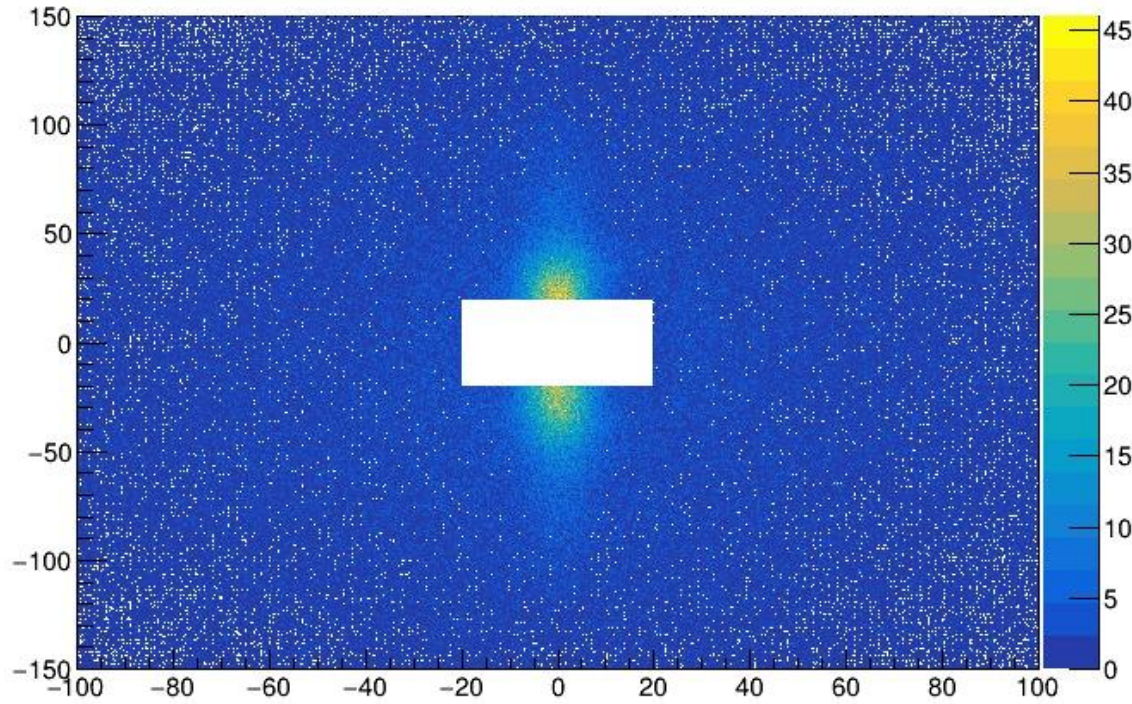


Tof_Tofd vs Energy loss in TODF



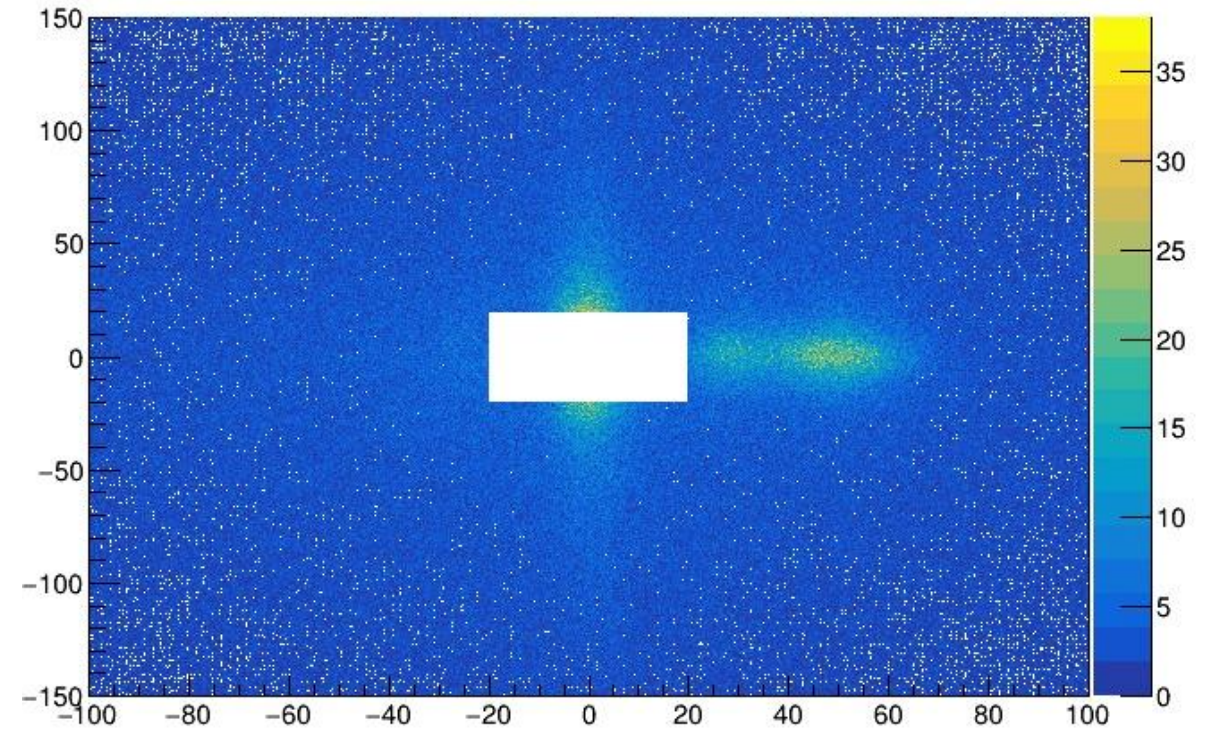
Selection conditions have been applied on spatial and timing parameters

hDYvsDX3n



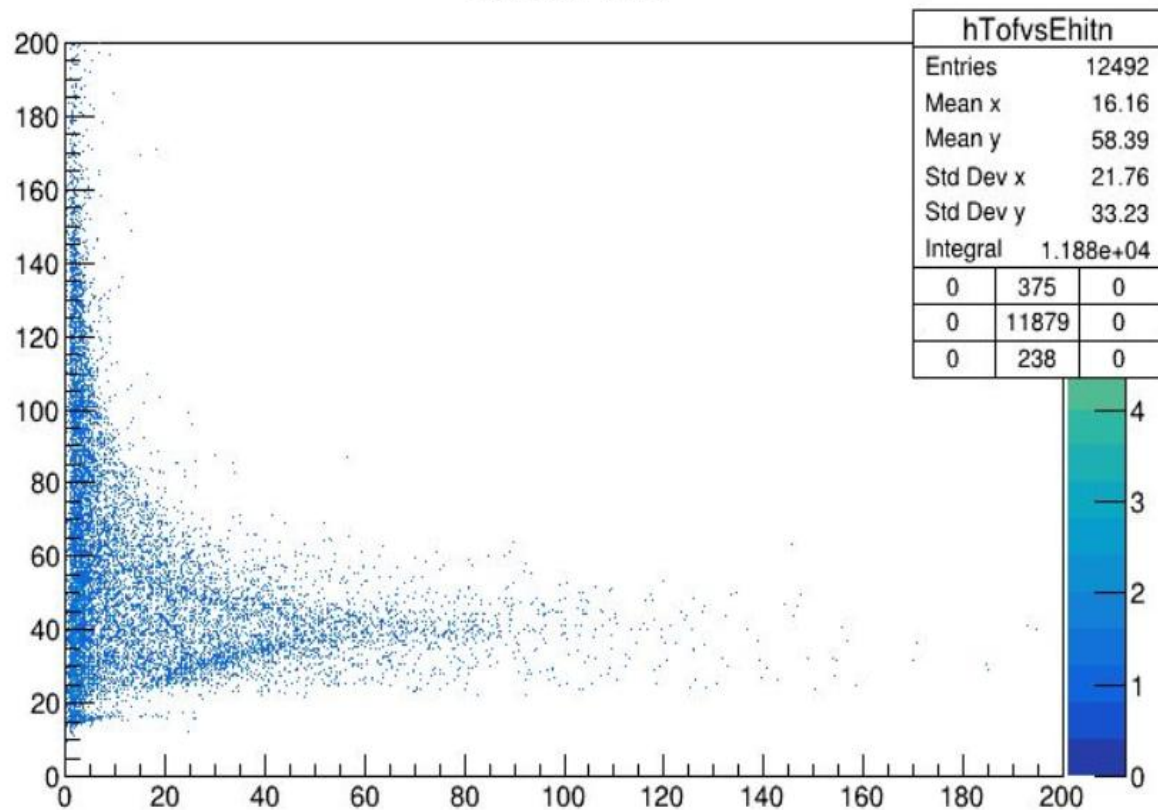
It is with condition that multiplicity cut on KRAB multiplicity , i. e. for reaction coming from the target

hDYvsDX3n



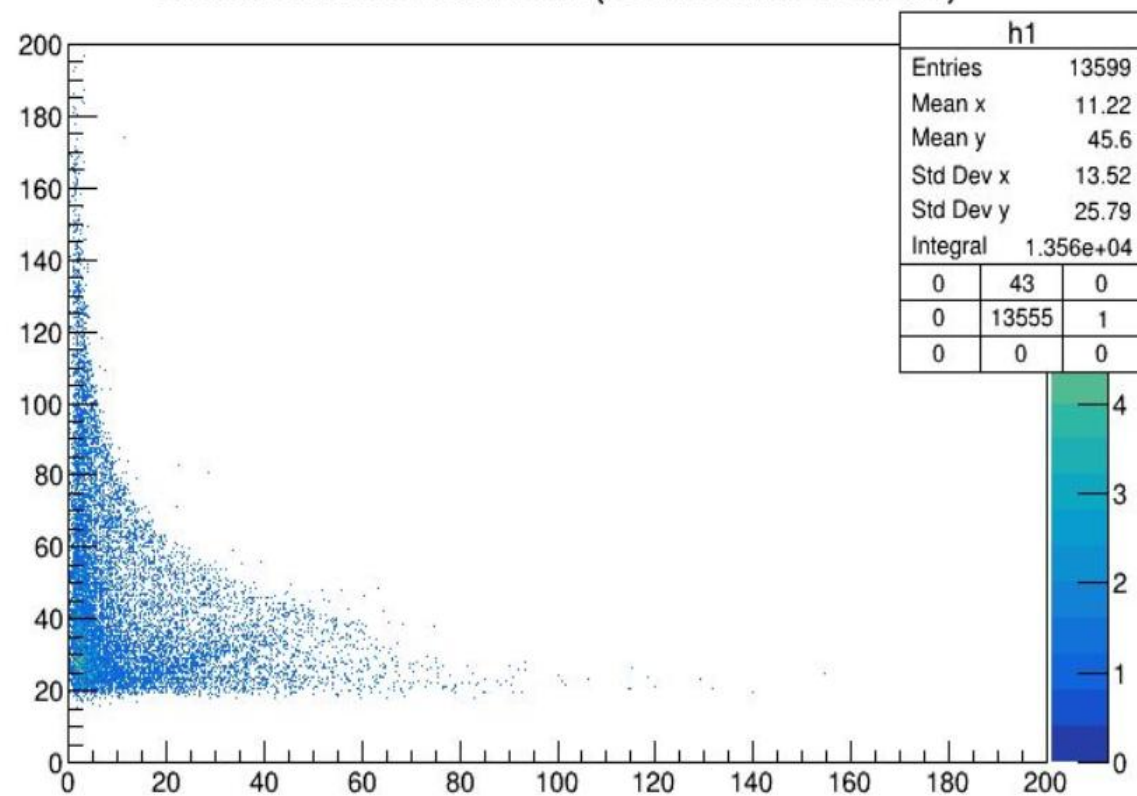
it is without multiplicity cut on KRAB multiplicity in forward rings which rejects upstream events

hTofvsEhitn



Tofd vs ehit with strong veto condition

NeulandHits.fT:NeulandHits.fE {NeulandHits.fPaddle<51}



simulation Au + Au 400 AMeV

