

190325

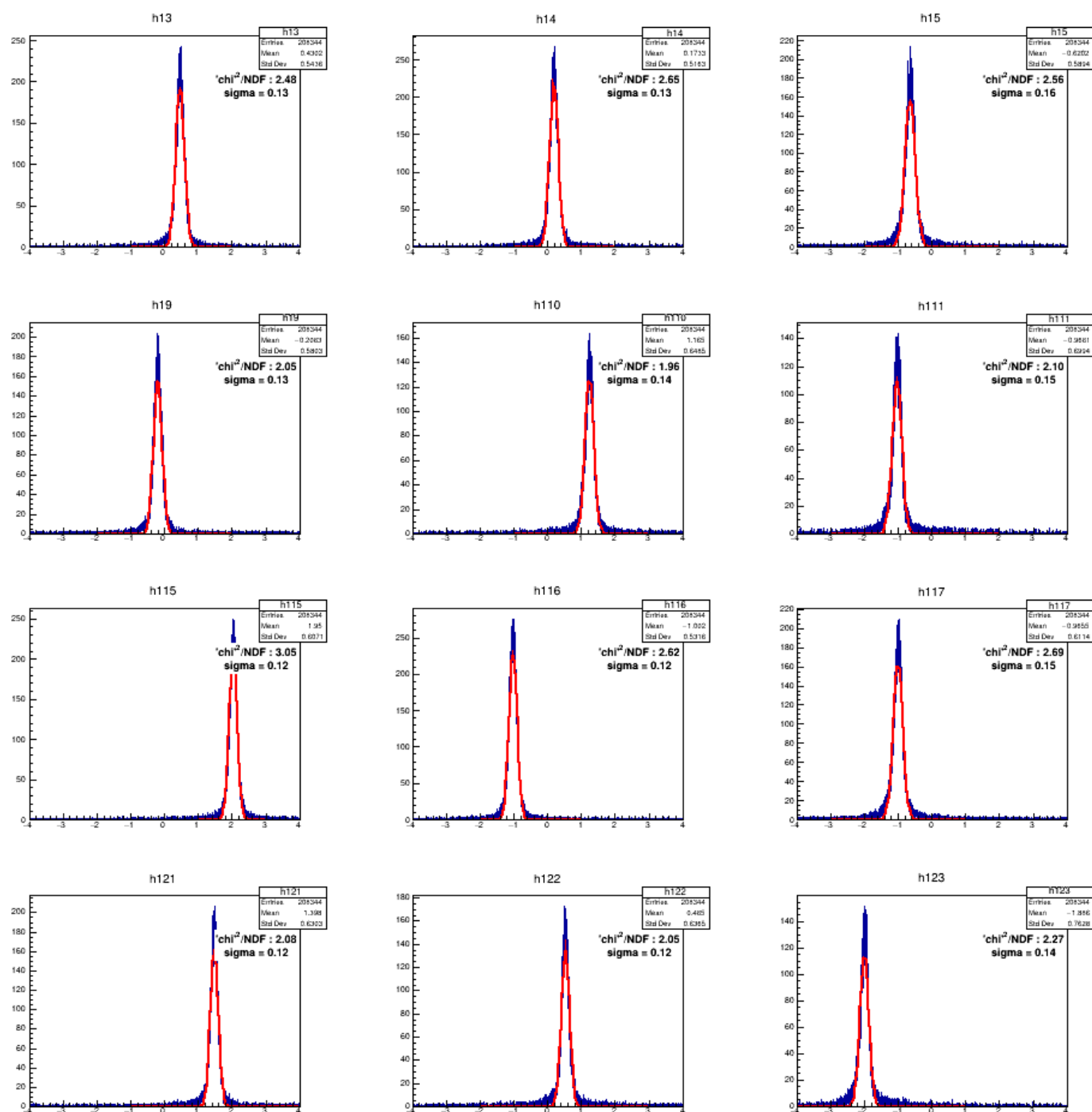
ByungChan lee

Time Resolution

- $\kappa^2/ndf : 1.3 \sim 2.3$
- **Time Resolution : 96.3781ps**
- Bin size : 1ps

[$\kappa^2/ndf < 100, \cos\theta > 0.9$]

- $\kappa^2/ndf : 1 \sim 1.3$
- **Time Resolution : 78.1ps**
- Bin size : 1ps



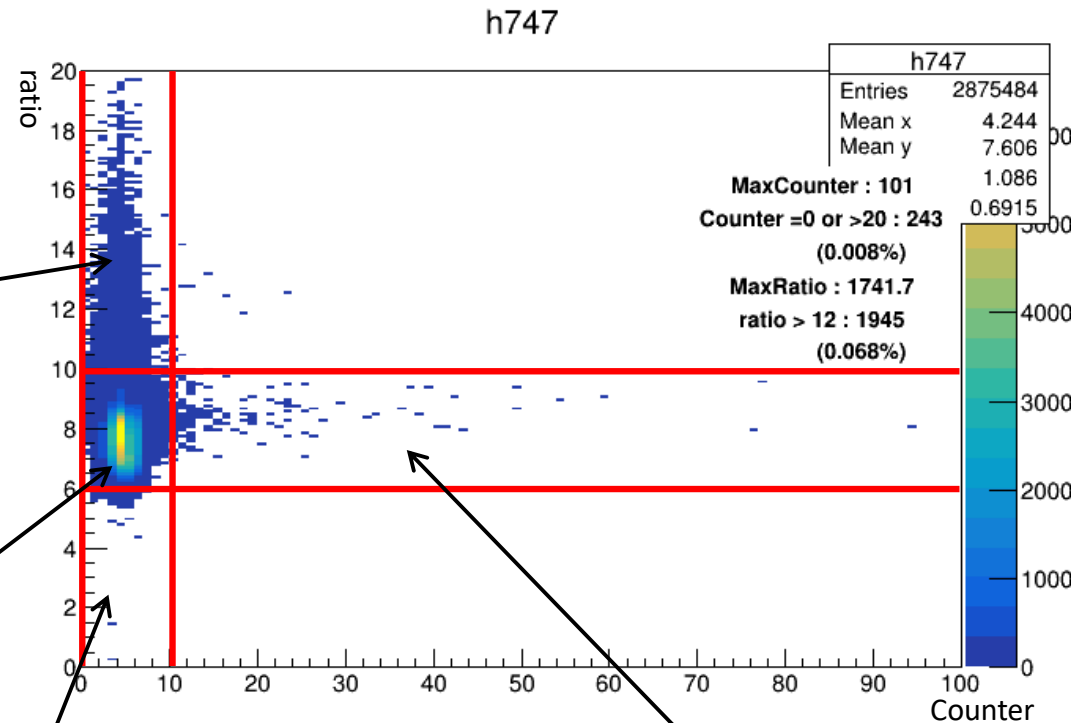
Time Resolution

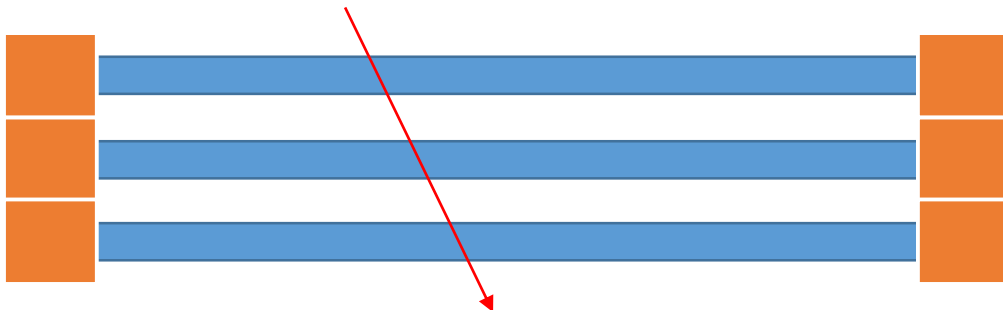
Ratio > 10
 $\kappa^2/ndf : 0.8 \sim 5$
Time Resolution : 895.995ps
Bin size : 20ps

Counter 1~10 / Ratio 6~10
 $\kappa^2/ndf : 1.3 \sim 2.5$
Time Resolution : 96.0499ps
Bin size : 1ps

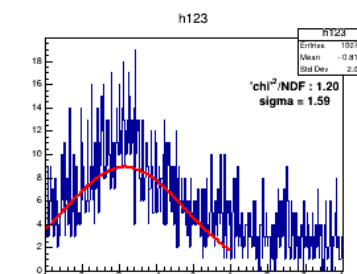
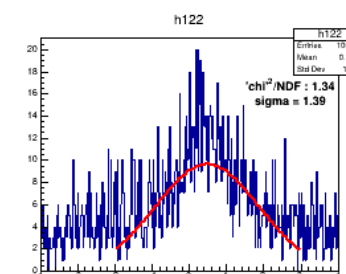
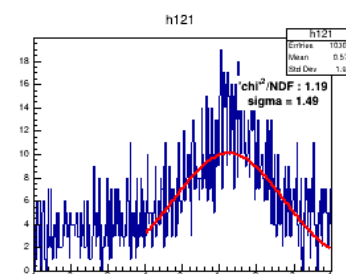
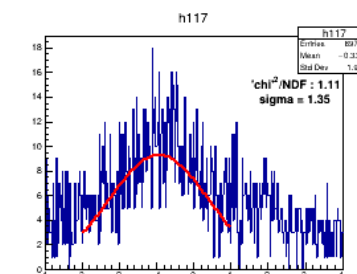
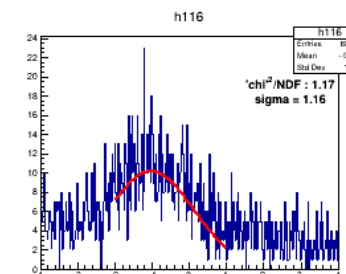
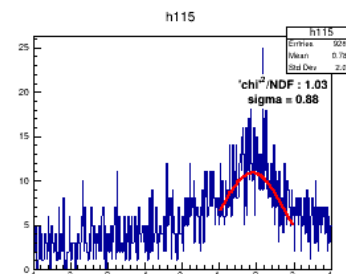
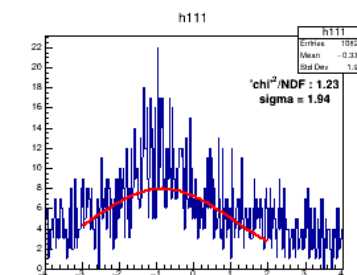
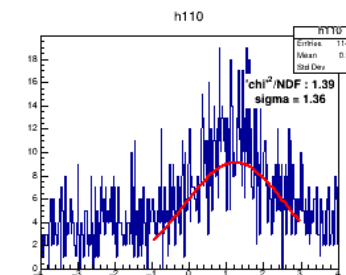
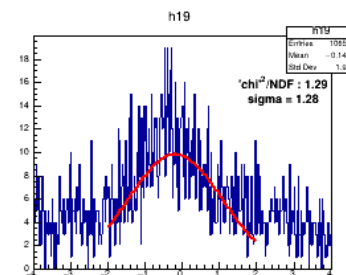
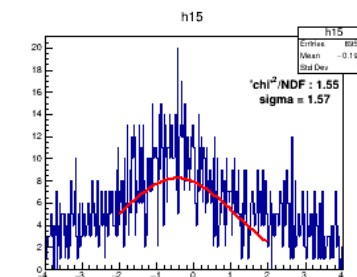
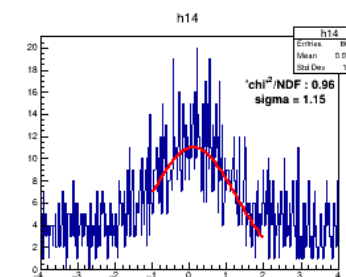
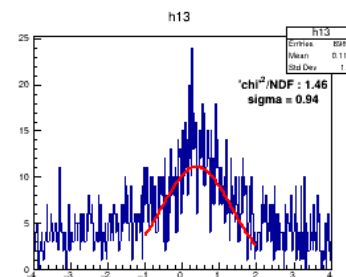
Ratio < 6
 $\kappa^2/ndf : 0.8 \sim 2.5$
Time Resolution : 642.01ps
Bin size : 20

Counter > 10
 $\kappa^2/ndf : \text{very high}$
Time Resolution : 3743.63
Bin size : 40





- 8 Groups of 3 Bars (24Bars)
- Choose events if one of those 6 entries satisfy the condition



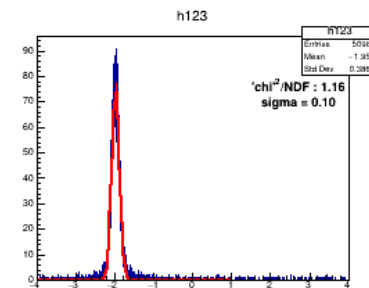
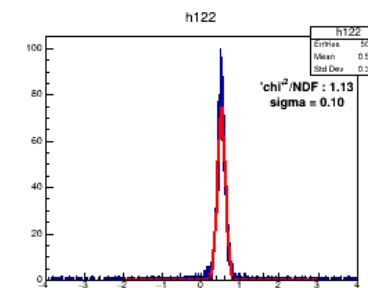
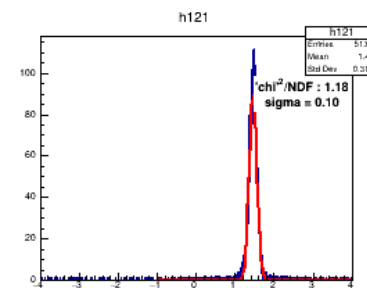
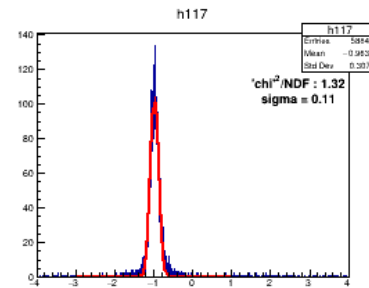
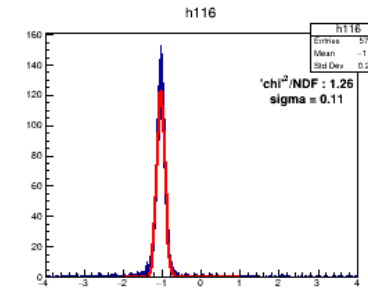
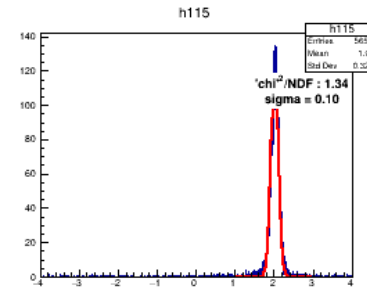
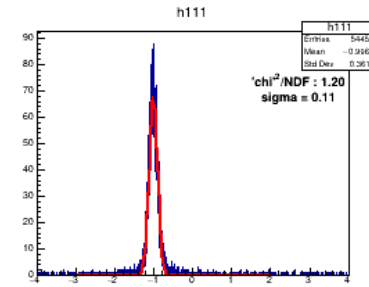
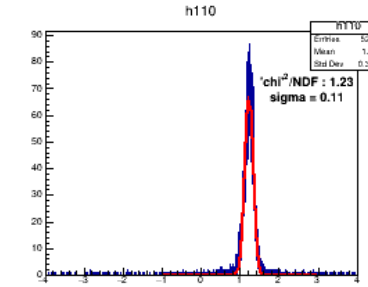
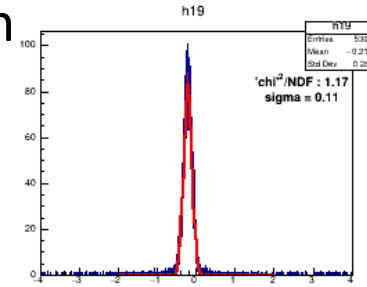
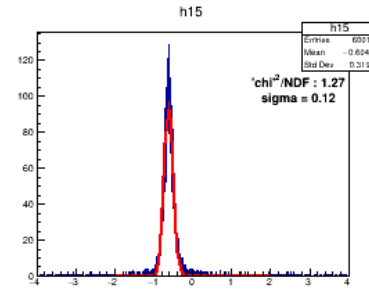
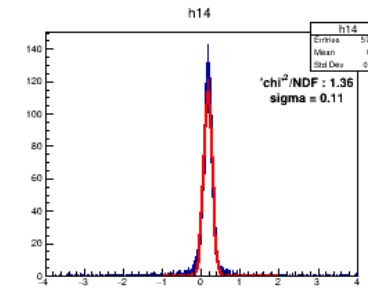
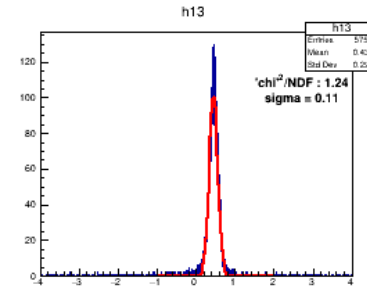
Time Resolution

Counter : 1~100 / Ratio < 13 / New Condition

- $\kappa^2/ndf : 1.5 \sim 2.7$
- **Time Resolution : 96.0954ps**
- Bin size : 1ps

[$\kappa^2/ndf < 100, \cos\theta > 0.9$]

- $\kappa^2/ndf : 1 \sim 1.3$
- **Time Resolution : 78.0019ps**
- Bin size : 1ps



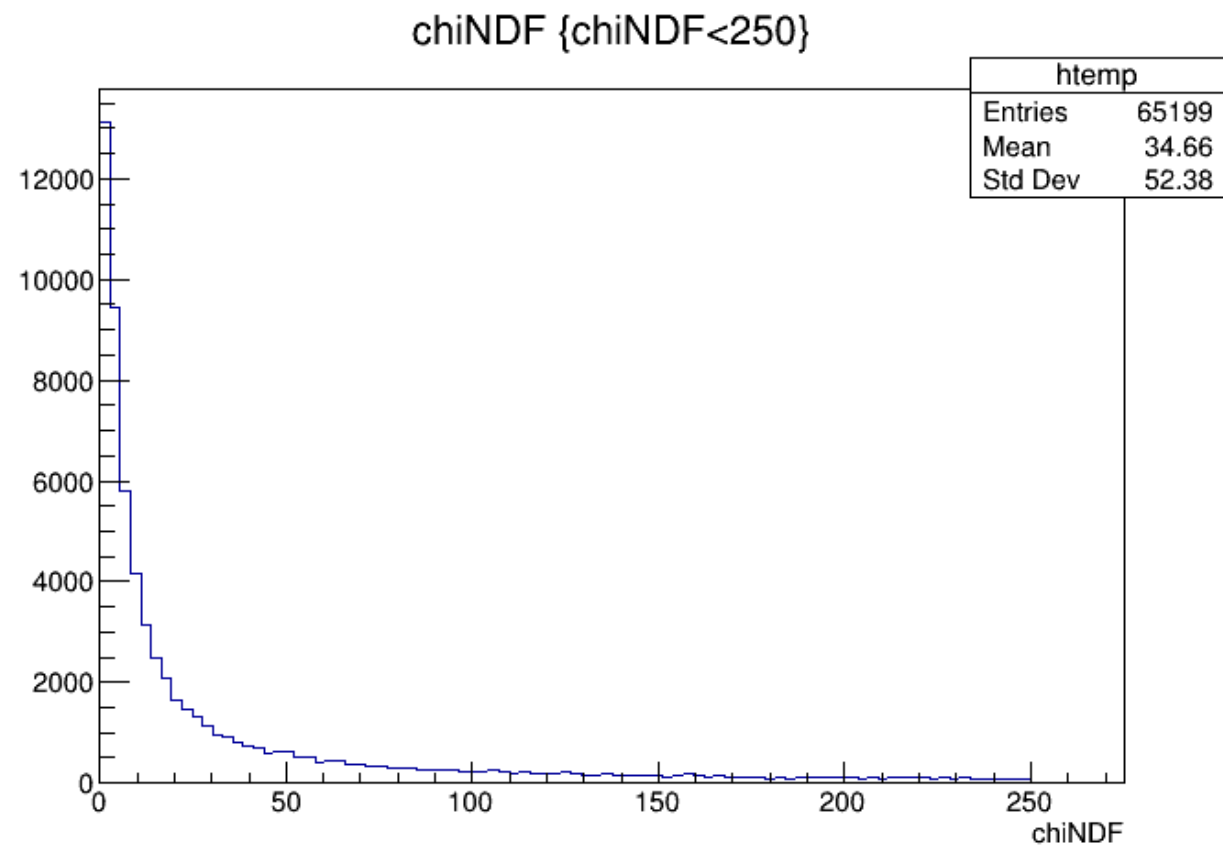
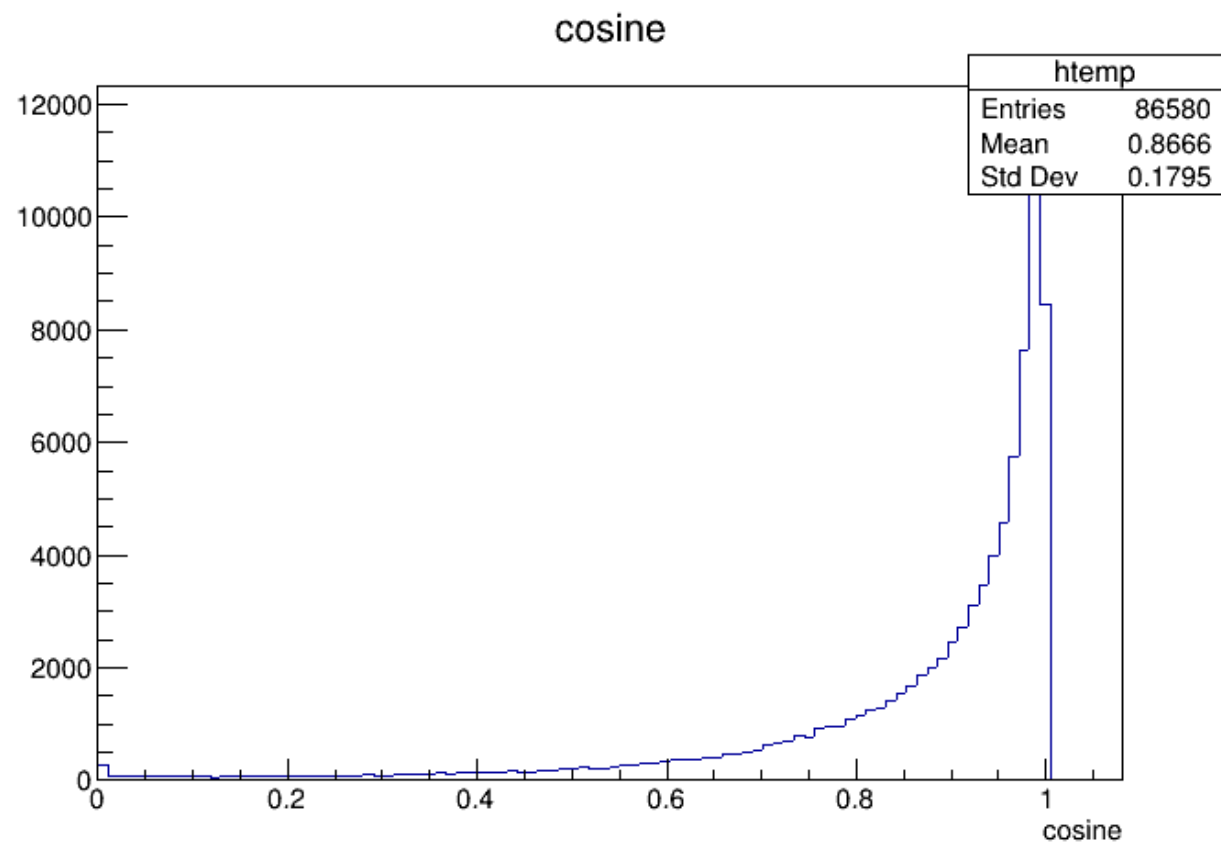
EvRec update

- Record Counter
 - If counter is 0 or 101 -> 0

- Add condition

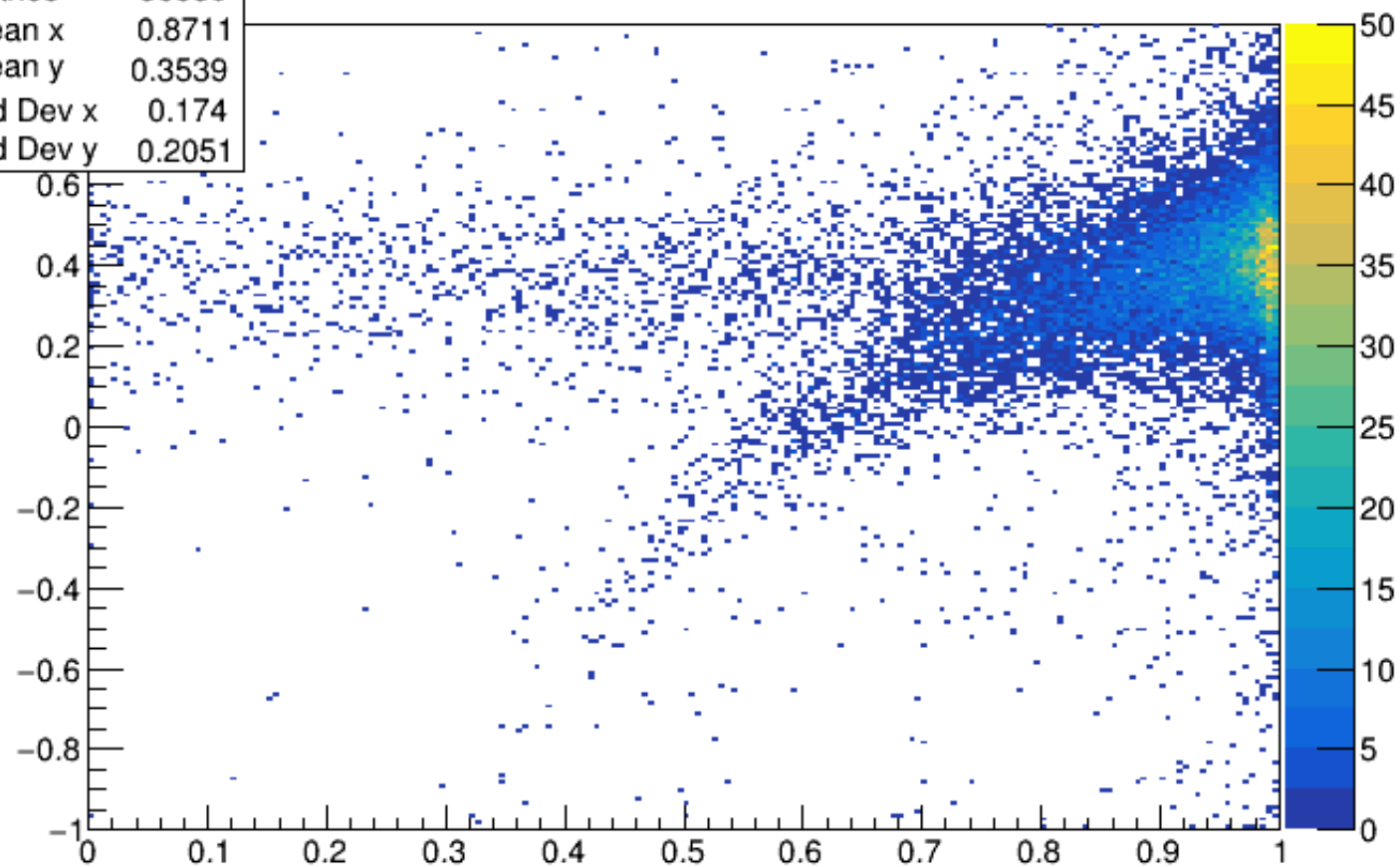
```
if (ys[ns] < ys[0] || TMath::Abs((2*iMax)-xs[n-1]) > 10)  
    return 0;
```

BackUp



h20	
Entries	86580
Mean x	0.8711
Mean y	0.3539
Std Dev x	0.174
Std Dev y	0.2051

h20



- DATA : FADCT_000747
- Event Number : 208,344
- 24Bars, 48 Channels
- Count the number of bars in each event, where the maximum pulse height > 100count at both PMT
- Total Entry : $2 \times 1,437,742$
- Sum = $(192 + 1753 + 628/2)$

	Counter =0 or 101	Integ/Height > 12	NewCondtion	Sum
Entries	192	1753	676	2307
#/total entry	6.7×10^{-5}	6.1×10^{-4}	2.4×10^{-4}	8.0×10^{-4}