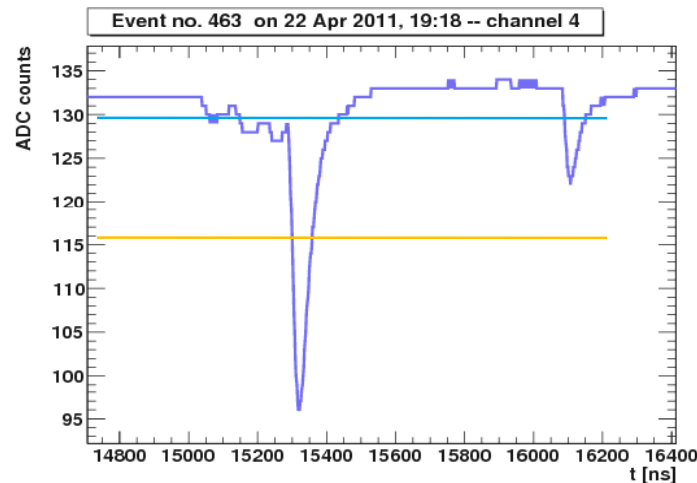
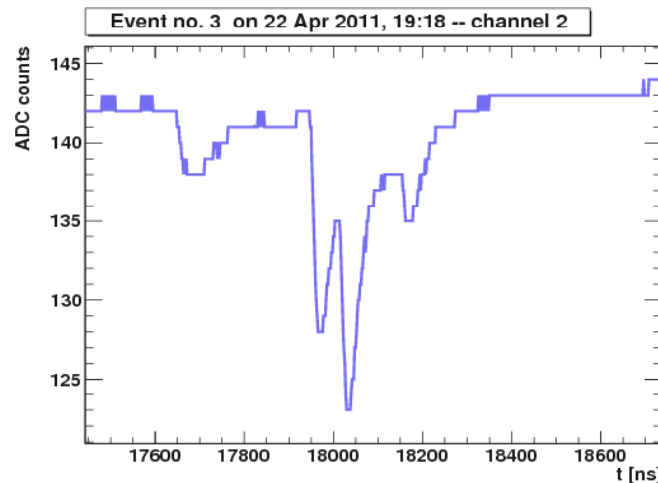
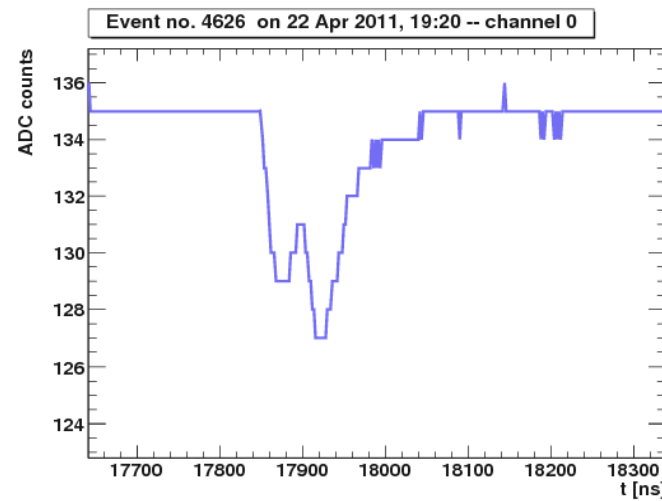
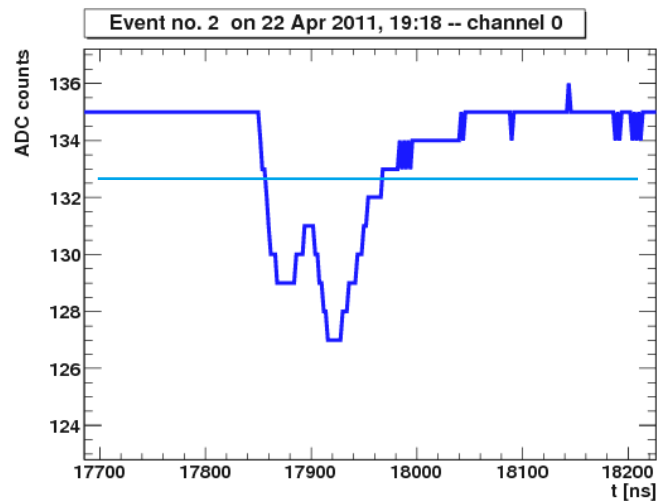


Multiple Peaks

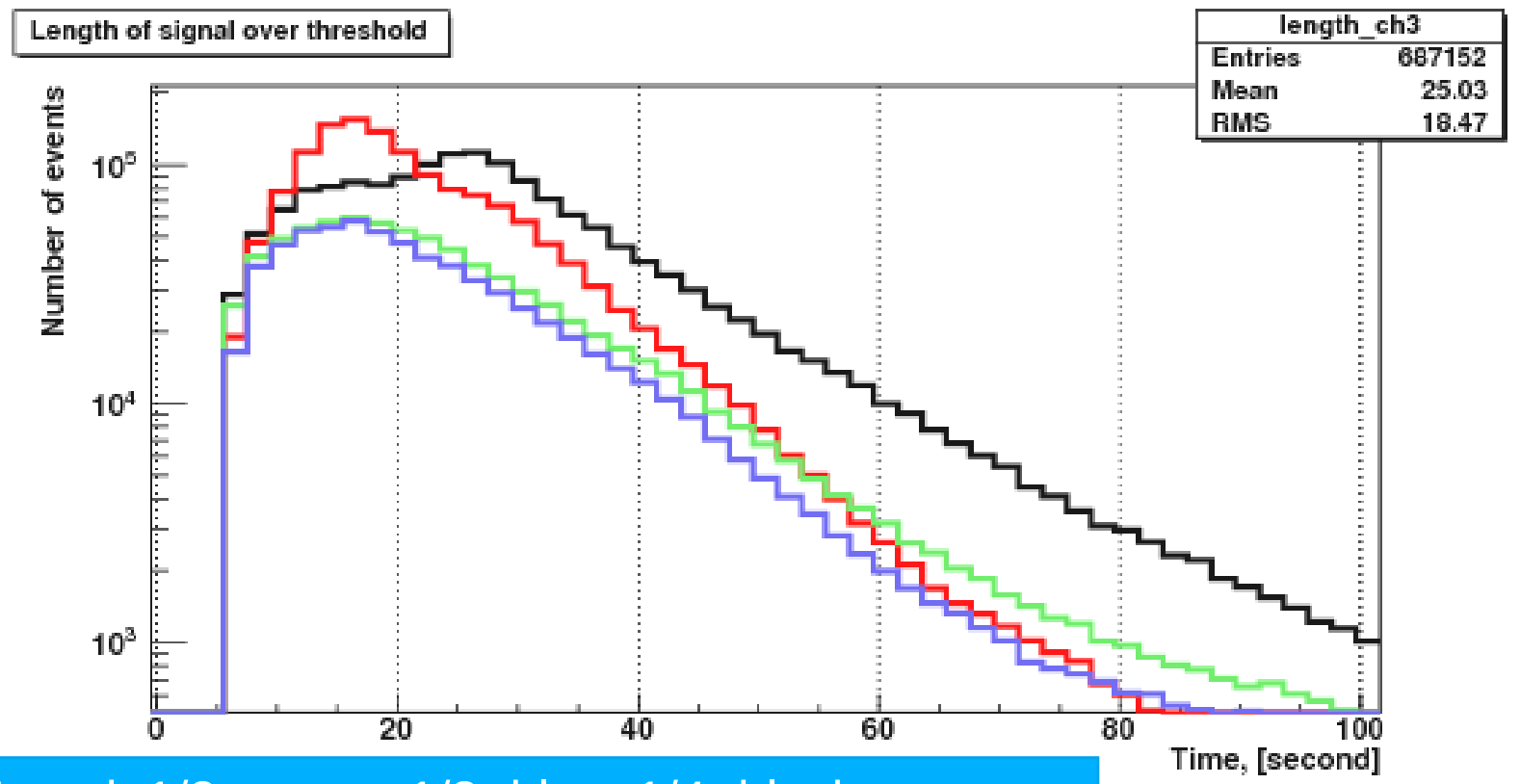
Novgorodova



- In the most cases arriving time will be taken from edge of first peak.
- Overlapping signals coming not often than one per orbit.
- Distance between overlapping peaks is of about 20-30 ns.
- It can not be a reason for multiple peak structure in arriving time histograms for TDC or ADC.



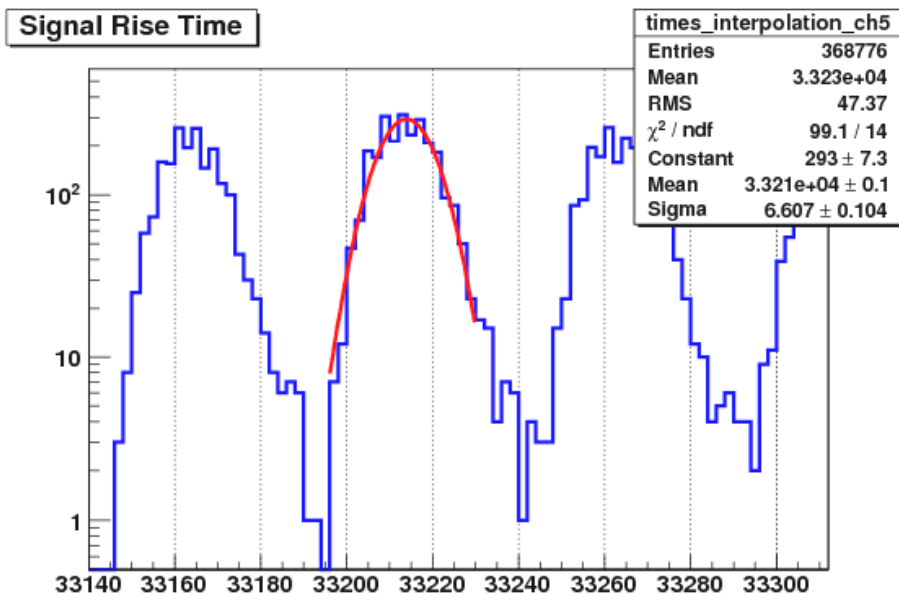
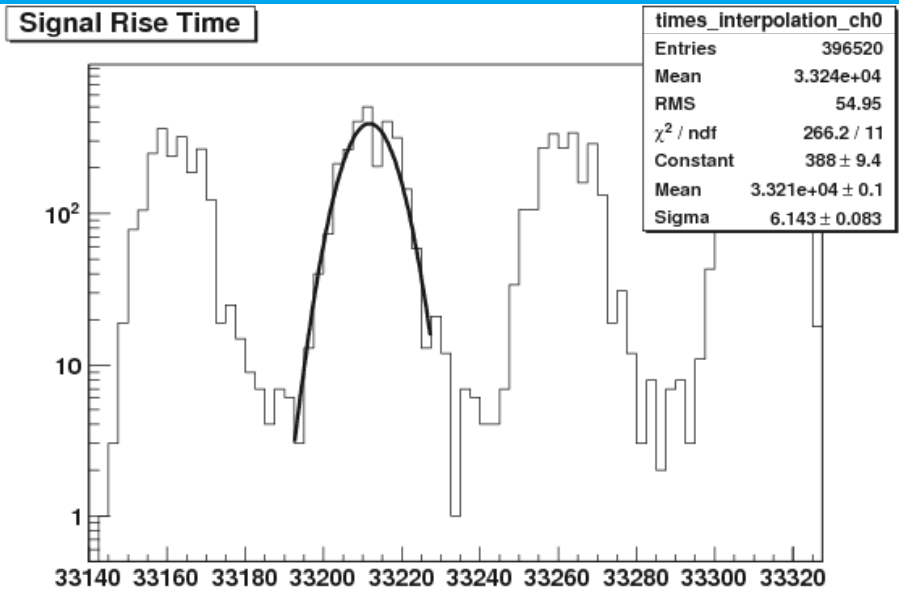
Signal time over threshold



- > 1/1 -red; 1/2 -green; 1/3 -blue; 1/4 -black;
- > Mainly MPV of signal length have same location.
- > Only channel 1/4 have different shape.
- > Could be explained as double peak appearance.



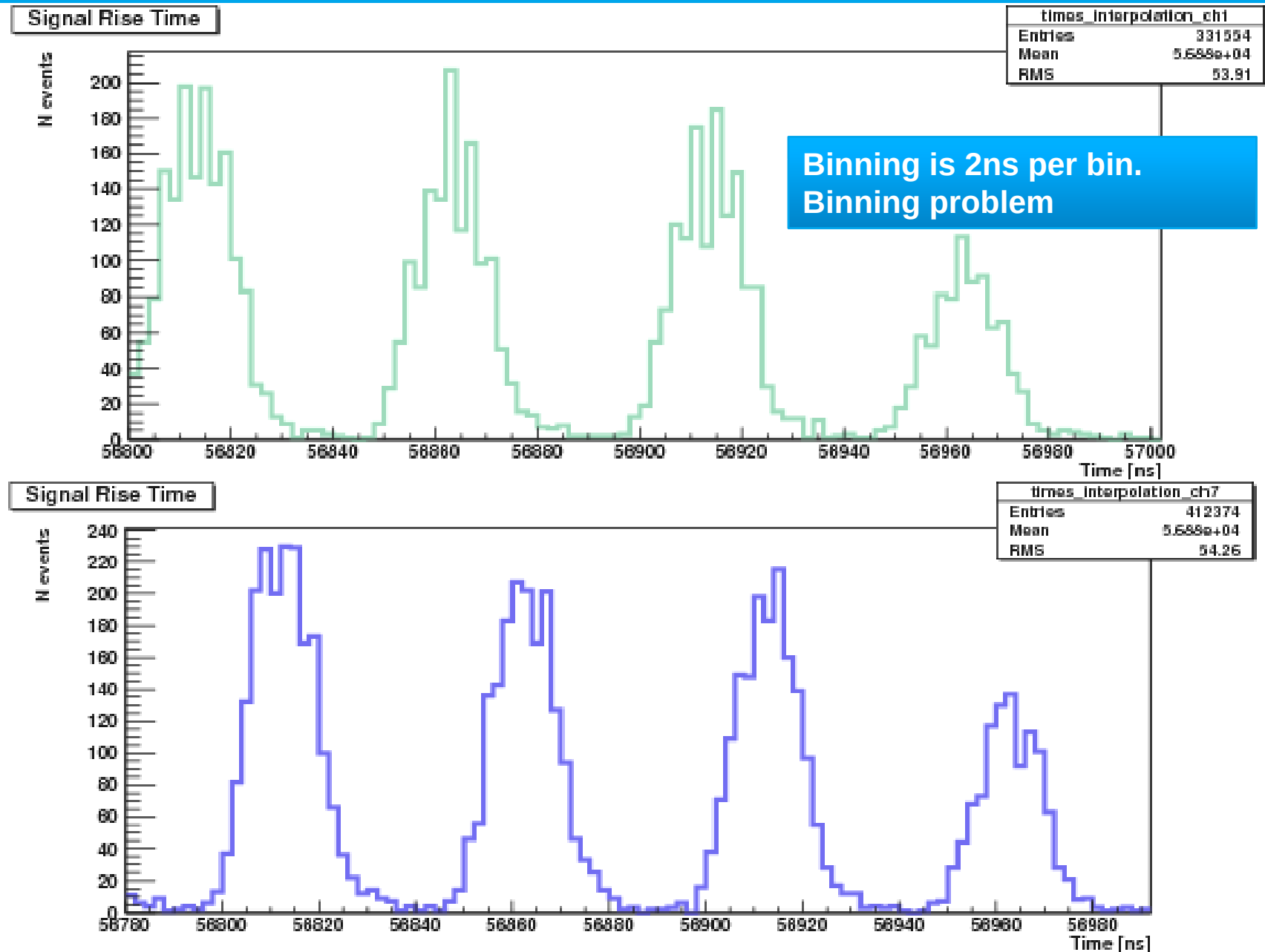
Threshold time definitions



- > Signals arriving time is calculated as soon signal reach a threshold.
- > It can be obtained from 2ns samples of ADC or with interpolation.
- > Two methods are shown(up with interpolation and down without interpolation) and fitting of one bunch peak gives similar results.

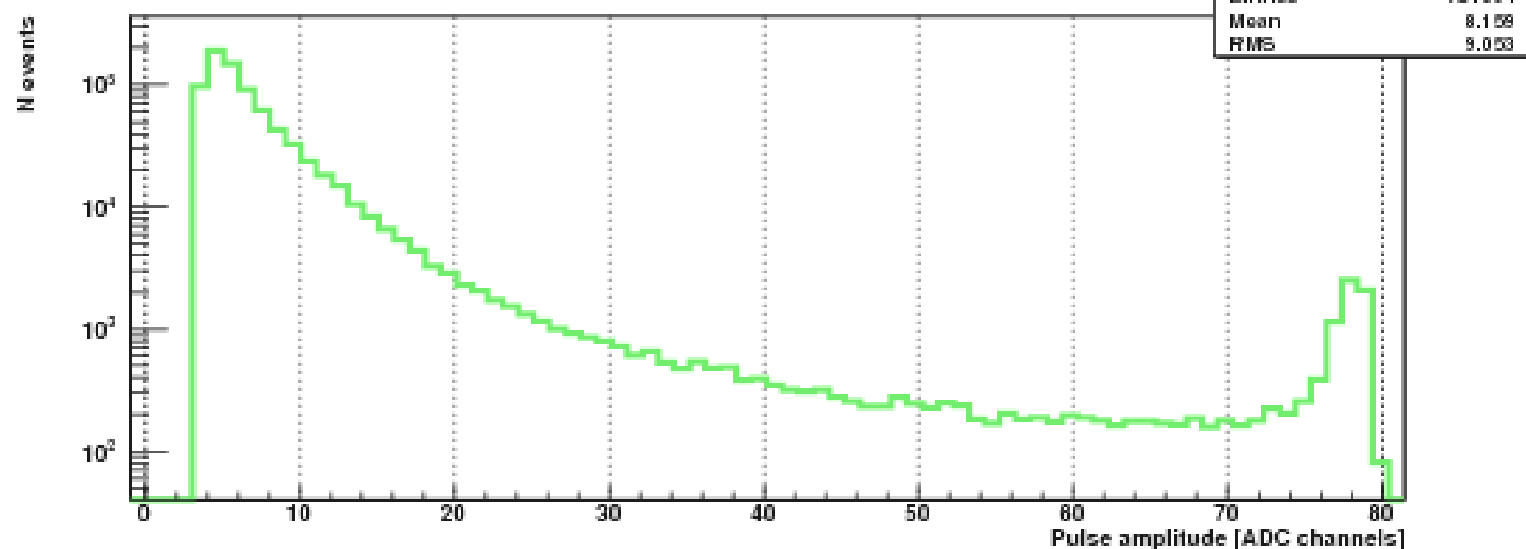


Time structure

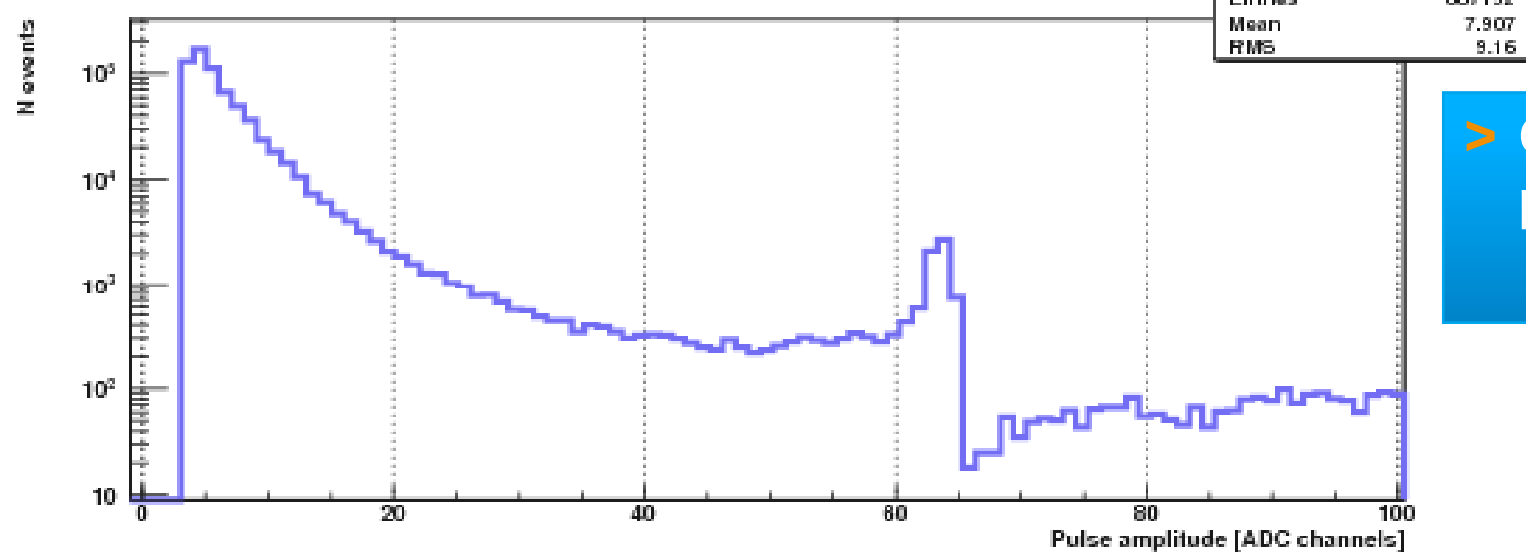


Amplitude spectra

Pulse Height Spectrum



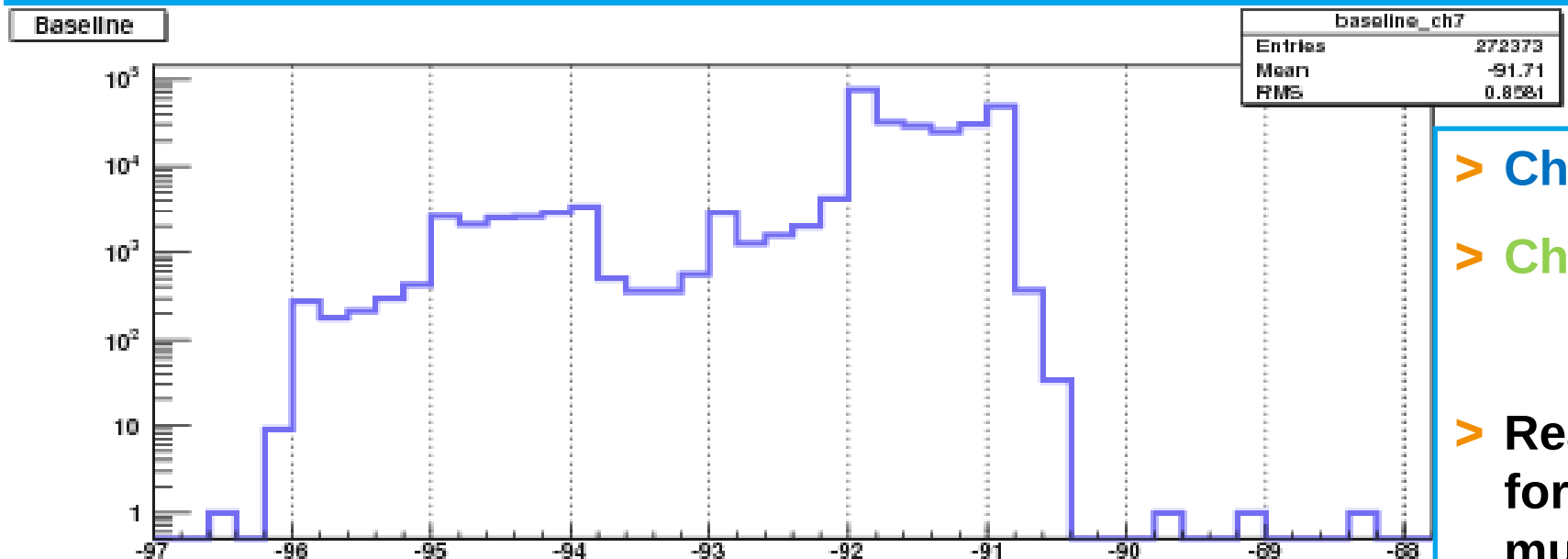
Pulse Height Spectrum



> Code problem???



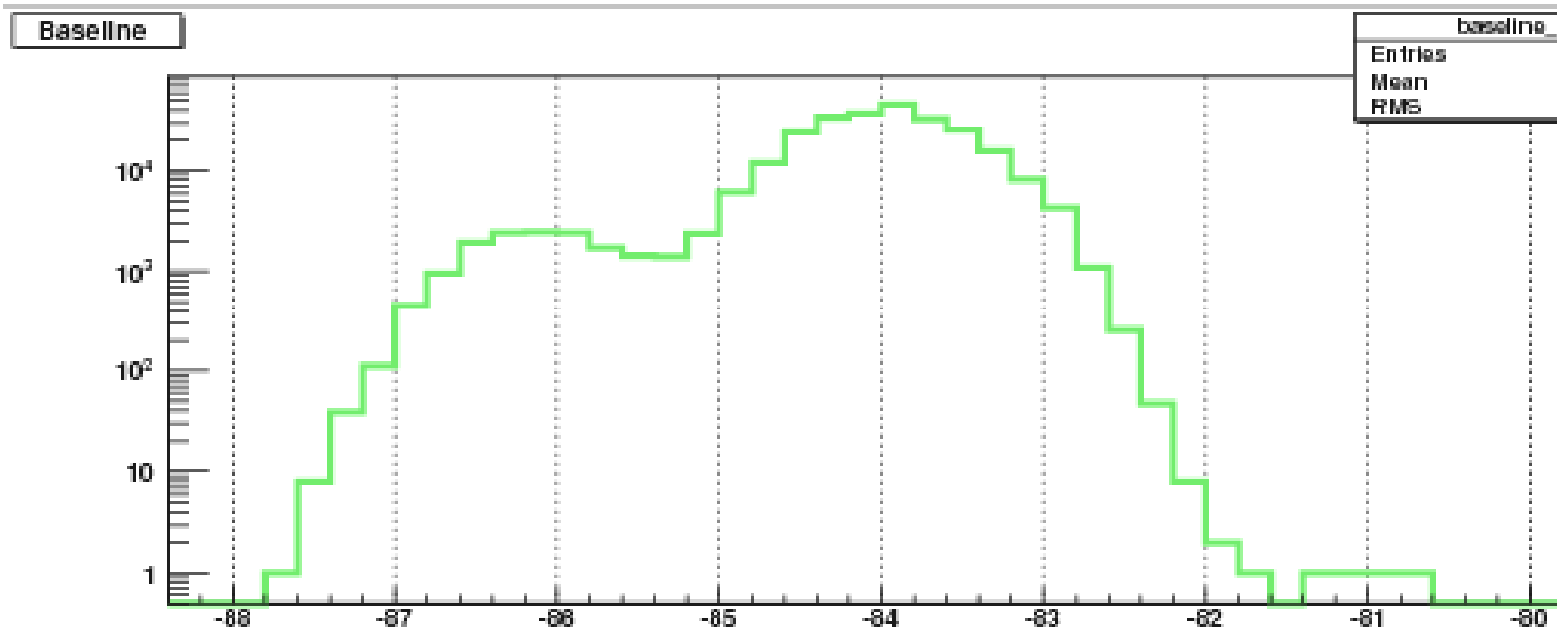
Baseline



> Ch 2/4

> Ch 2/3

> Reason
for
multiple
peaks?



Conclusions

- > ADC resolution – 2ns do not allow to see if there are multiple peak structure in time information.
- > Other data will be analyzed.

