

20170803 STATUS REPORT

Ahram lee

TOF Status

Laptop didn't boot on

With UEFI mode, it can be boot now, but still has 2 problems.

1. Small problem

Couldn't reach my personal account(leeear), which DAQ was proceeded on until now.

Dasan tried to figure the reason out, but not succeed.

Fortunately others, including root account, have no problem to login.

Checked there is no data loss of my account.

2. Big problem

Because of malfunction of a cooling fan, laptop is getting hot when used.

It is better idea not to use it, for now.

For now, data is backed up to 2TB external HDD and using the laptop carefully.

TOF Status

New PC ordered & delivered

Now it is in the control room
Before moving it to the zone,
CERN Network connection
CentOS 7 installation
CUP Software installation

Also, to situate it on the rack,
we need to find certain accessories.
~ next week



TOF Status

New PC ordered & delivered

DELL Optiplex 7050 Micro

i5-6500(4cores)

8GB RAM

256GB SSD

USB3.1, USB3.1 Type C

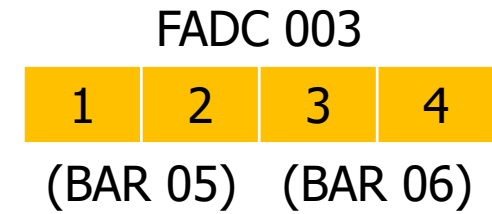
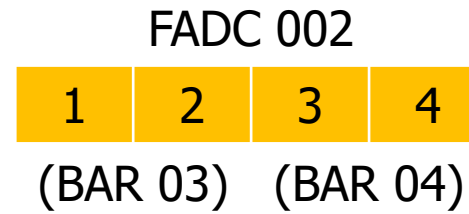
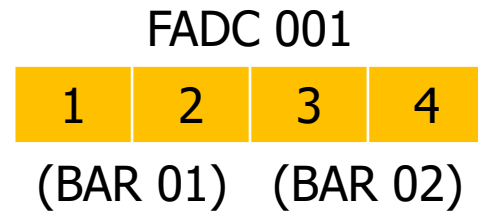
130W AC Adaptor



TOF Status

6bar test(#120)

Module set :



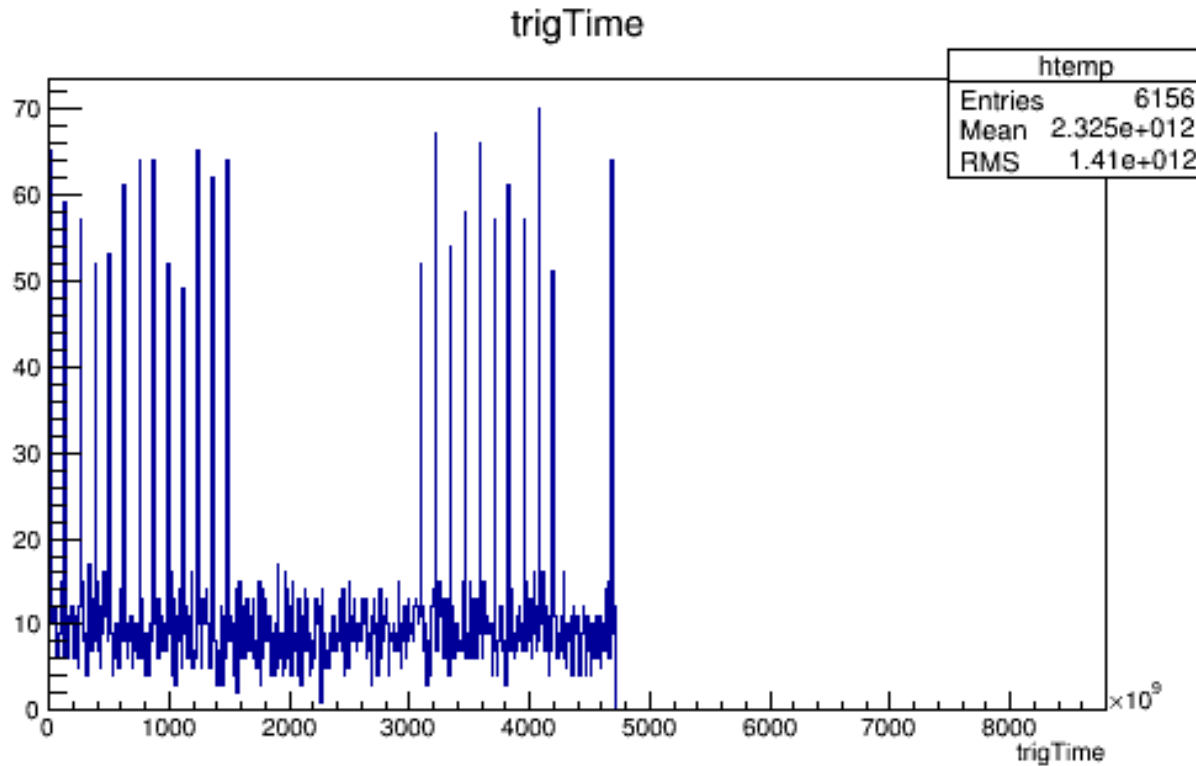
Configuration : coincidence = 1x2x3x4
for each FADC

mthr=12

th=100[ch]

TOF Status

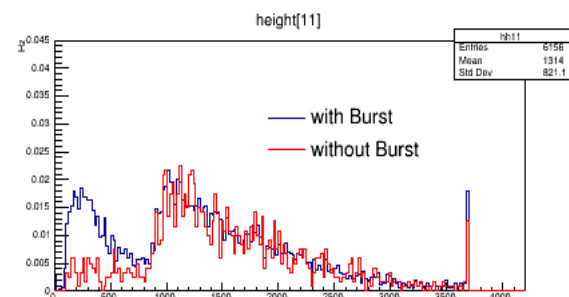
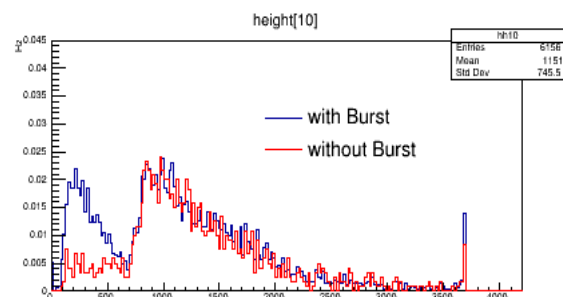
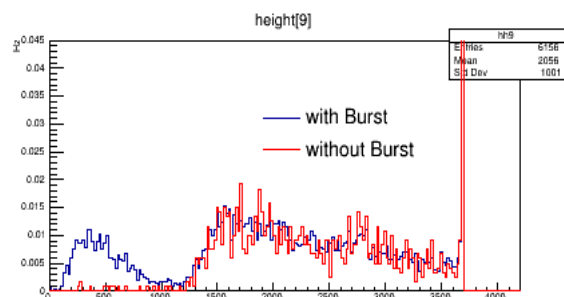
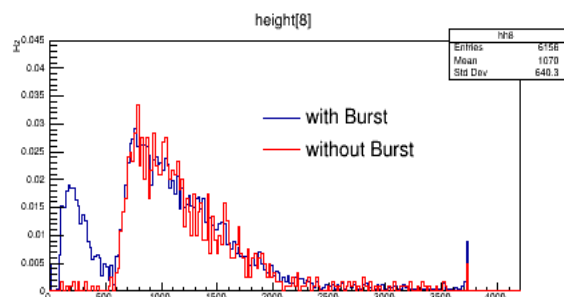
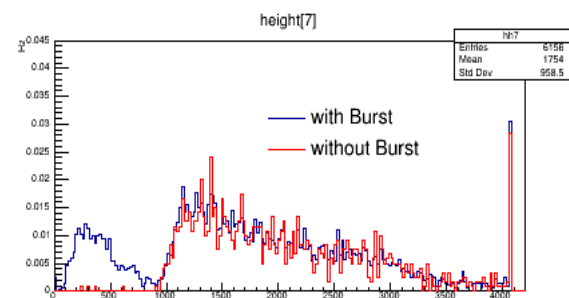
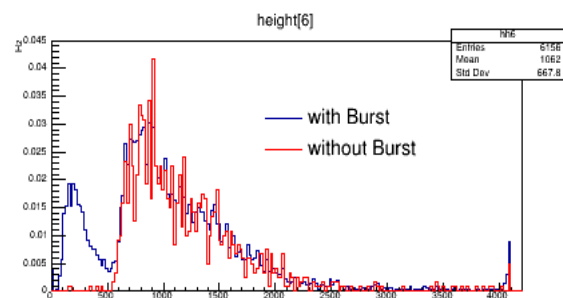
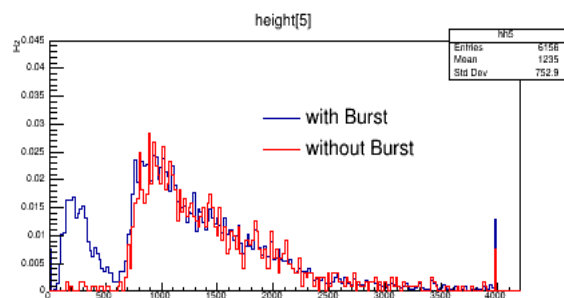
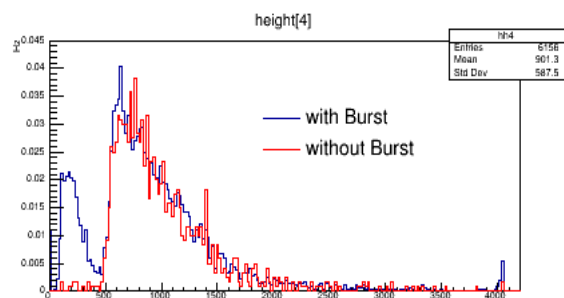
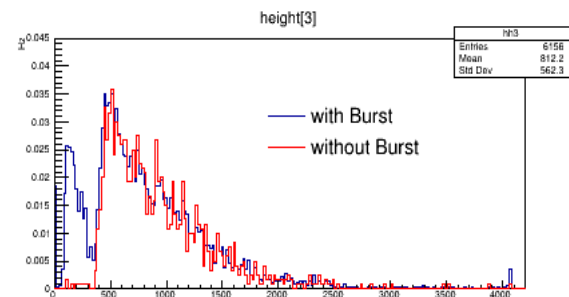
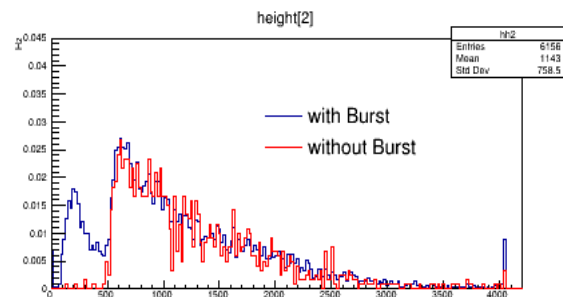
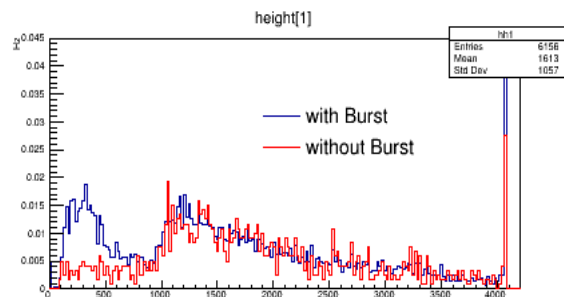
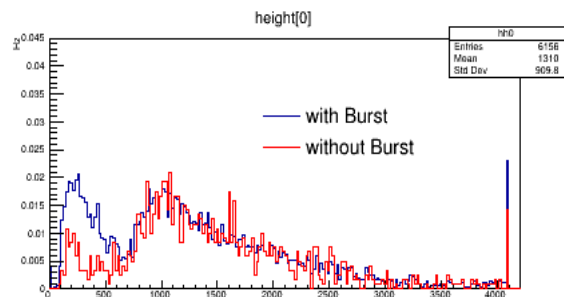
6bar test(#120)



Although it's before gain adjustment,
It has both kinds of events,
 with burst
 without burst (1800 ~ 3100sec)

TOF Status

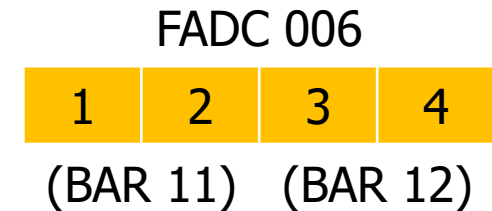
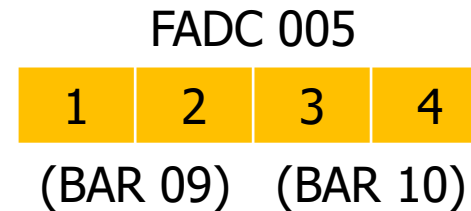
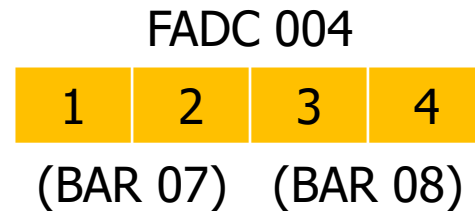
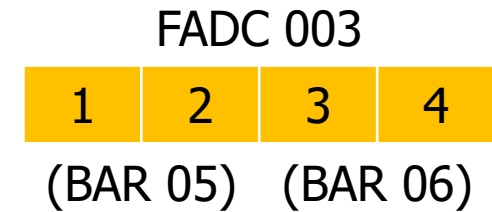
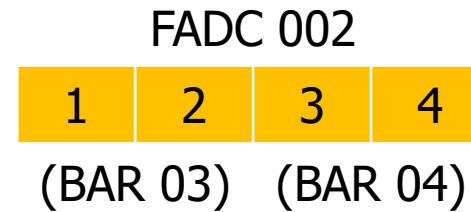
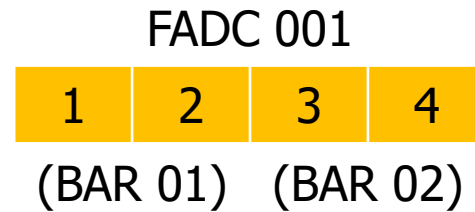
6bar test(#120)



TOF Status

12bar test(#202)

Module set :



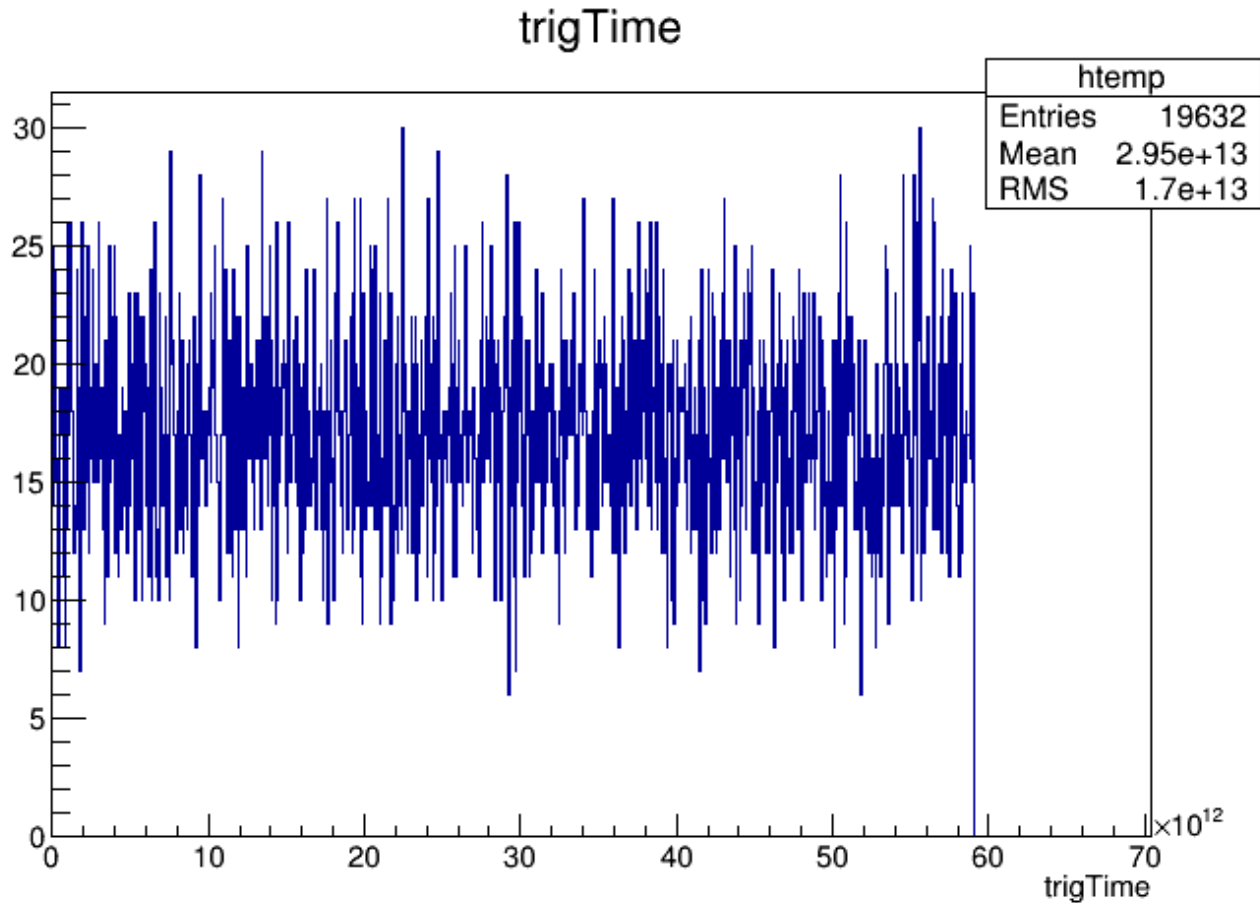
Configuration : coincidence = 1x2x3x4
for each FADC

mthr=24

th=100[ch]

TOF Status

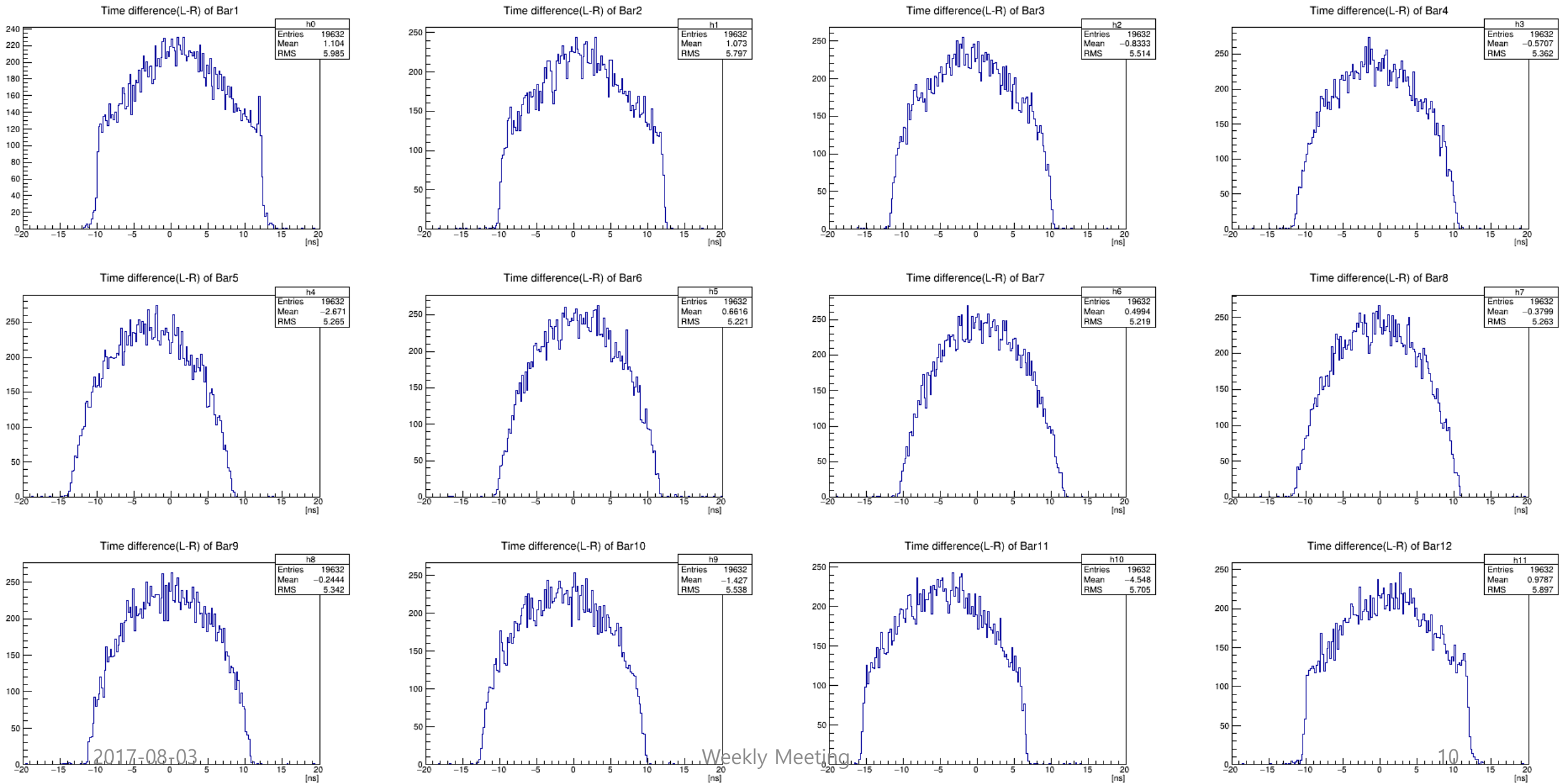
12bar test(#202)



This experiment is after gain adjustment.

There was no burst at that time.

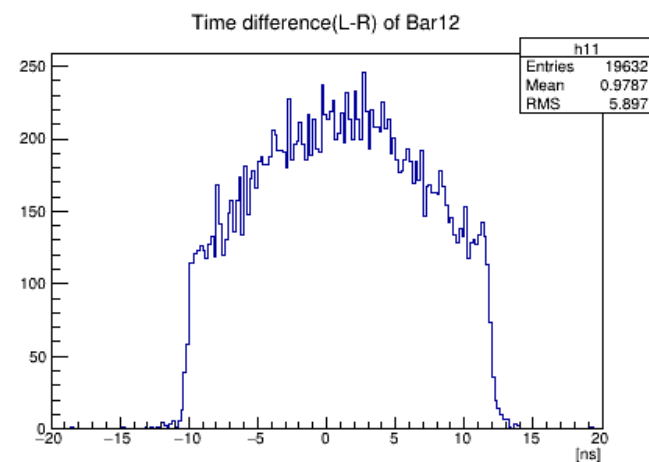
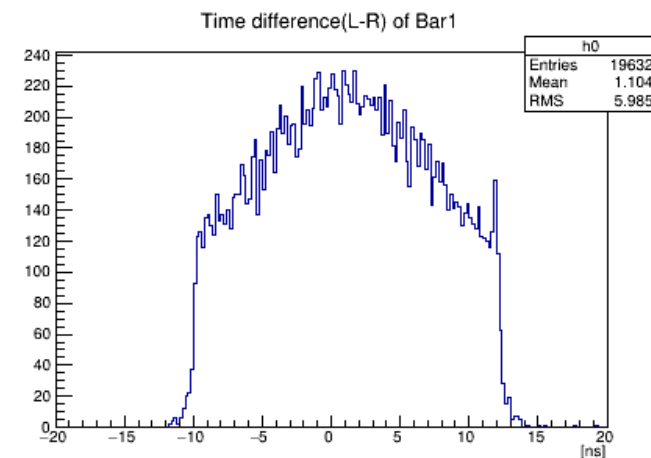
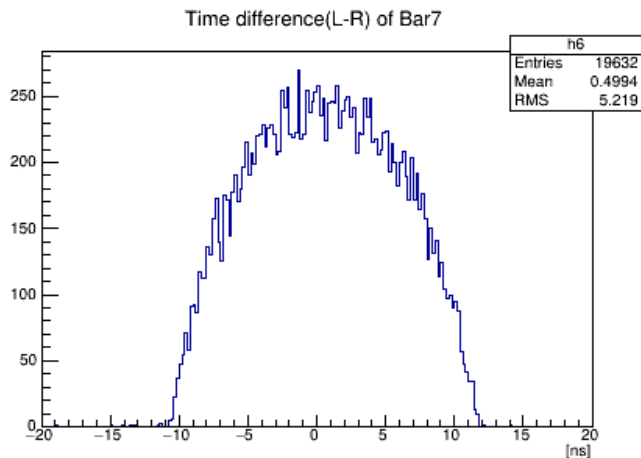
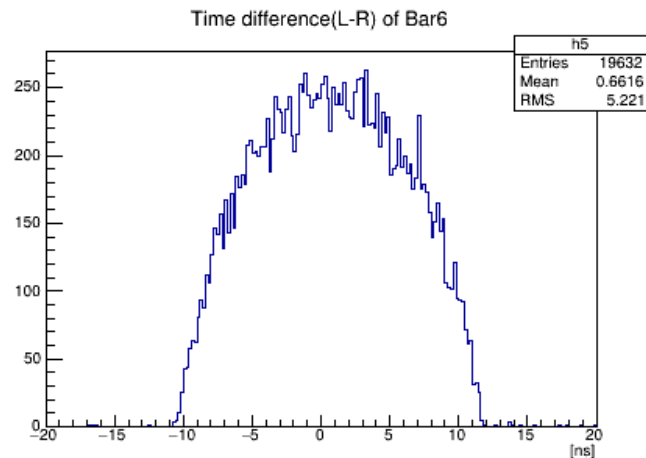
TOF Status : 12bar test



TOF Status

12bar test

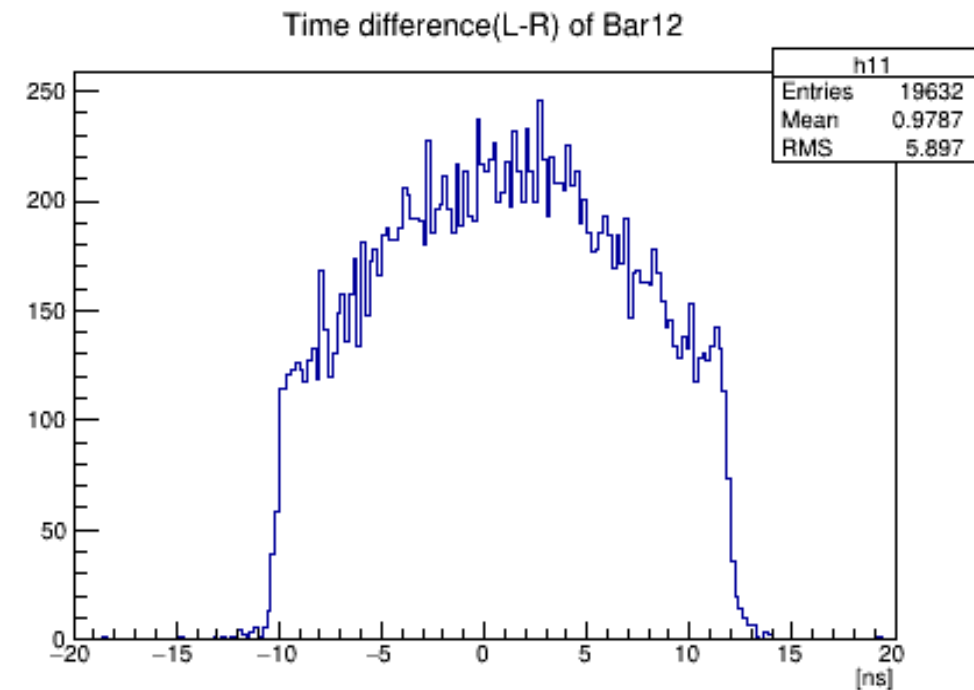
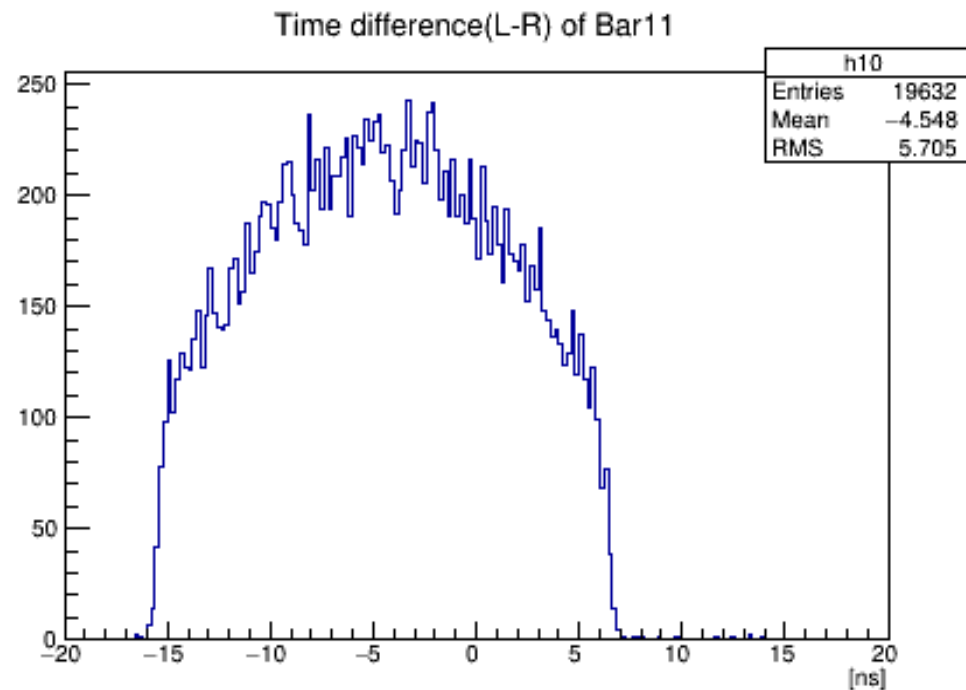
Shape differences are reasonable.



TOF Status

12bar test

But some times, there is a shift about 5ns.



To do

1. Analysis
 - High rate error analysis
 - Time resolution of bars
 - Muon signal trajectory reconstruction
2. New PC setting