

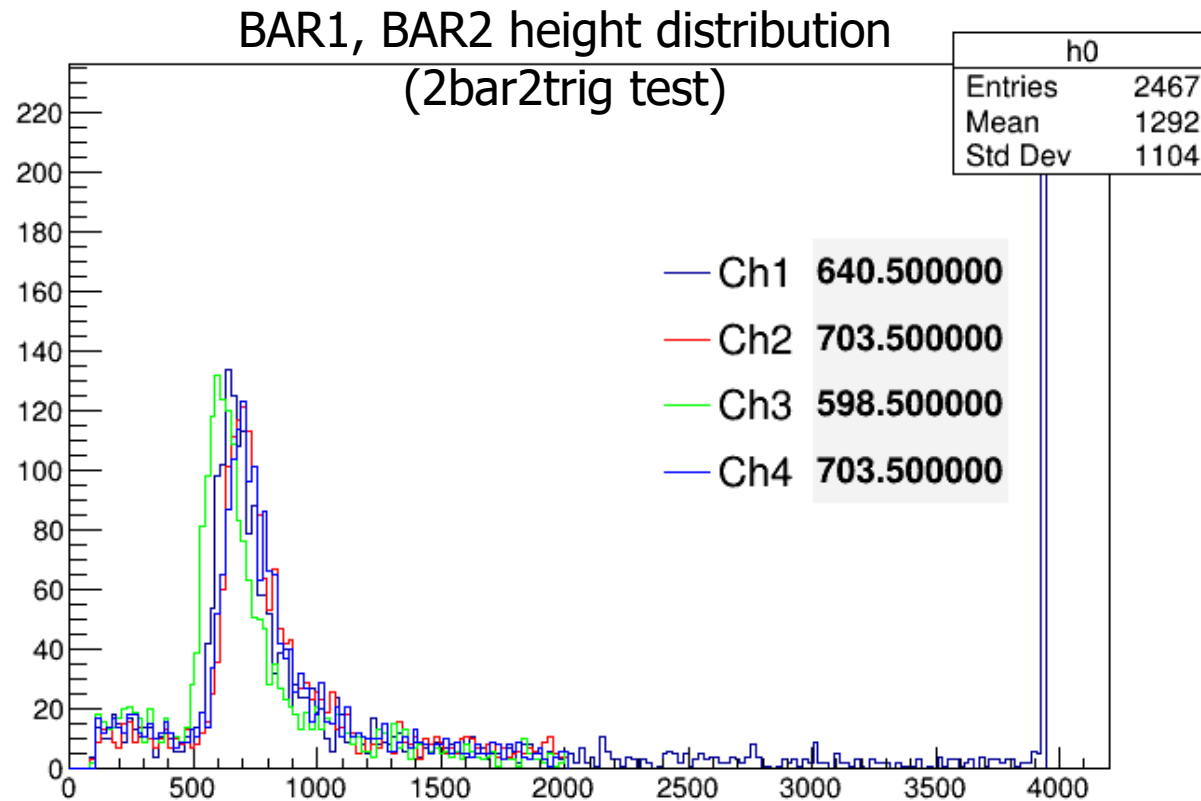
# **20170511 STATUS REPORT**

Ahram lee

# TOF Detector Preparation

12bar test

Gain optimization



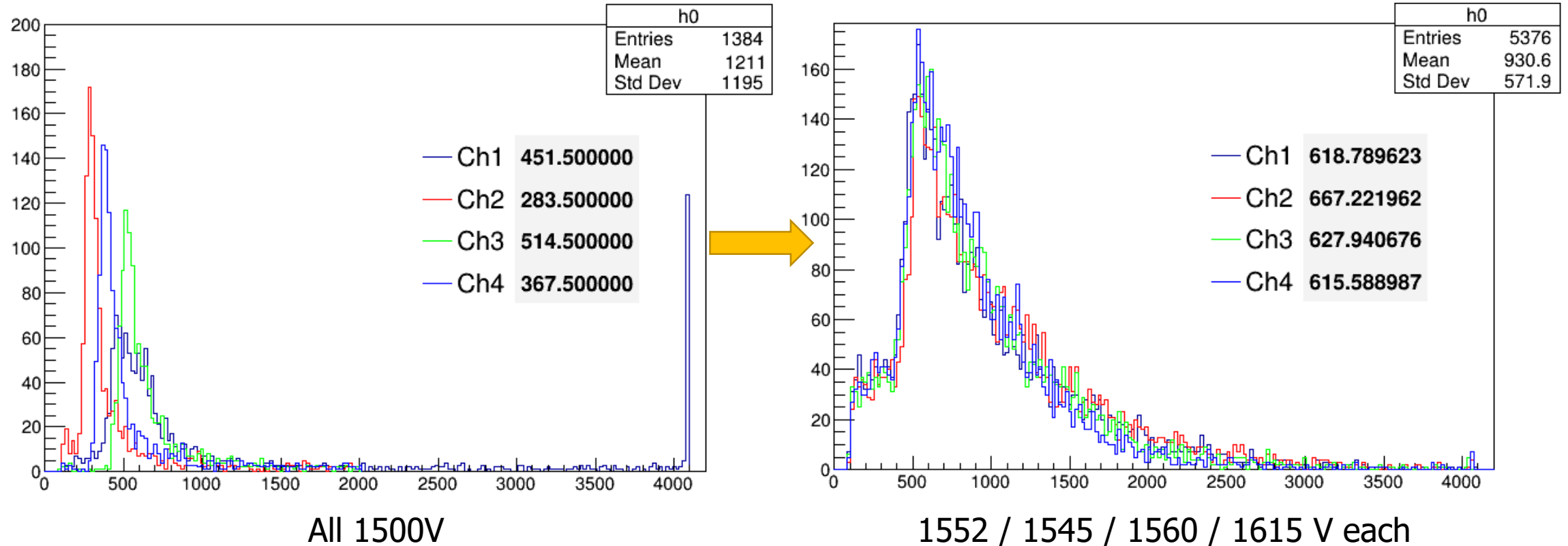
When 2bar2trig test,  
matched PMT gains roughly.

Since every PMTs attached to  
BAR1~12 should be optimized again,  
We will follow the results, which  
MPV 600~650.

# TOF Detector Preparation

12bar test

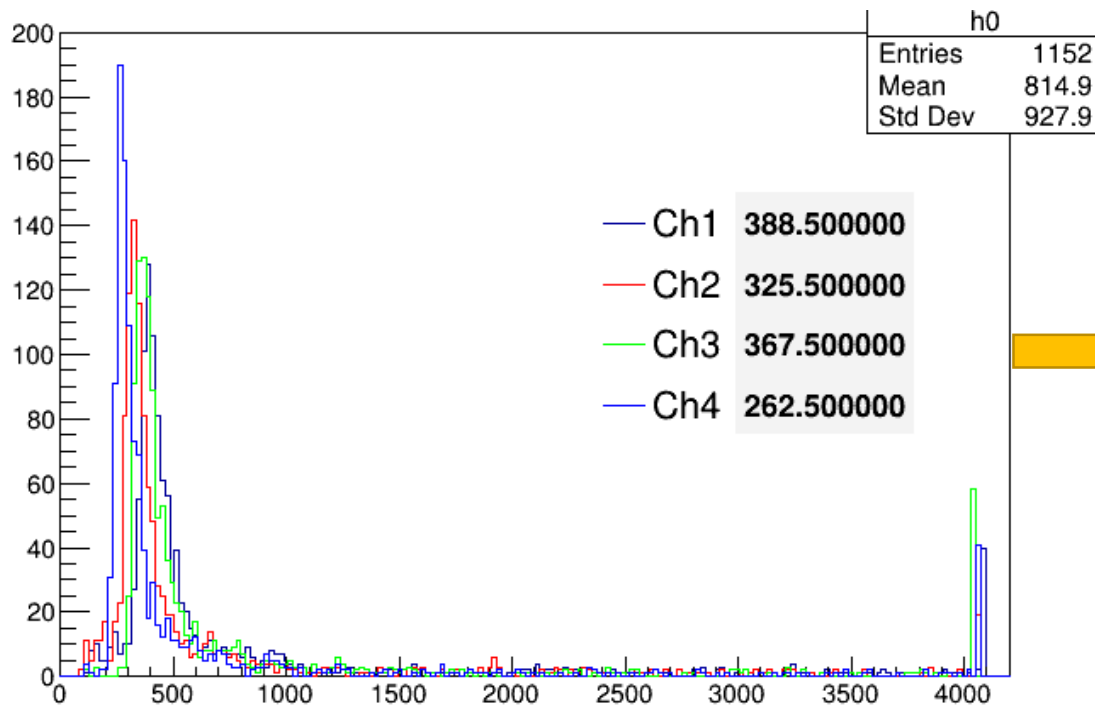
Gain optimization – BAR1, BAR2



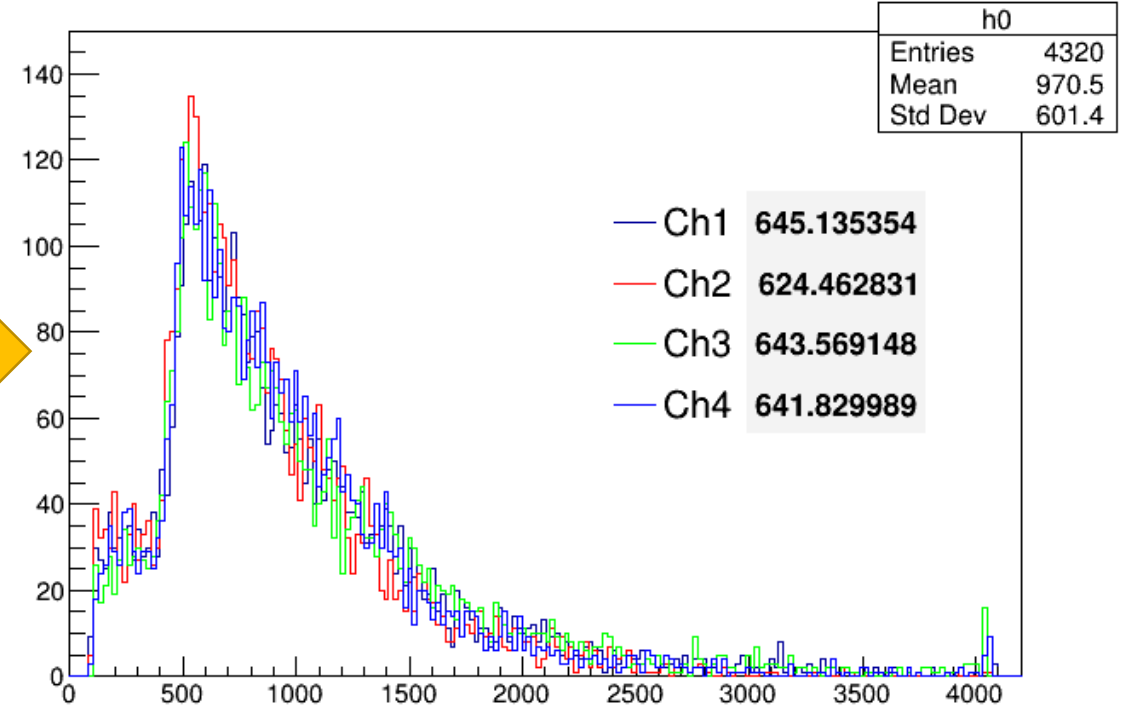
# TOF Detector Preparation

12bar test

Gain optimization – BAR3, BAR4



All 1500V



1600 / 1623 / 1660 / 1660 V each

# TOF Detector Preparation

12bar test

Laptop does not boot...

05/08 Gain optimizing test – bar1~4 done

05/09 to correct macro code for GainOpt, approach laptop.  
but the connection btw laptop ~ LINUX comp. was failed.  
tried to re-start laptop, but it didn't boot  
tried to back-up, but 5TB external HDD didn't work.

05/10 hep2009 data in 1TB external HDD moved to NAS.  
back-up Laptop data in 1TB external HDD, instead.  
format and re-installation CentOS on Laptop.

# TOF Detector Preparation

## Cables & connectors

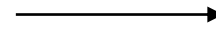
~~Thomas cable — sent e-mail a week ago ...~~

~~A-tech (from IBS)~~

Elkoh engineering

( SHV – RG59 – SHV ) x 100, 10m

( BNC – RG58 – SMA ) x 100, 10m

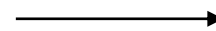


Cannot see speculations of cables,  
and know exact day of delivery date  
before order...?

NexansKorea – in contact

SHV x200, SMA x100, BNC x 100

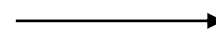
RG58, RG59 2km each



NO REPLY

CERN stores

no problem to send CEA, Sacley  
but to Seoul...?



NO REPLY

# TOF Detector Preparation

## Shipping

Newly contacted with Seoul Air Cargo – AE EAGLE KOREA  
(shipping) (packaging)

It might take a week to send TOF to CERN from SNU  
They will send detailed information including price within this week

# TOF Detector Preparation

## Documents

Jean-Yves sent comments on documents

### 1. SafetyFile

#### 1.1 Bakelite : need to check if is possible to use Bakelite on the experiment

##### 1.4 INFRASTRUCTURE ↵

###### 1.4.1 COUNTER ↵

A counter is made by attaching PMTs(H7195, Hamamatsu) at the both ends of a plastic scintillation bar(EJ-200, Eljen technology). Optical grease is used as a glue between them. Because of the difference of sizes of a bar surface(5cm\*10cm) and PMT(6cm diameter), a black bakelite guide is made and used. ↵

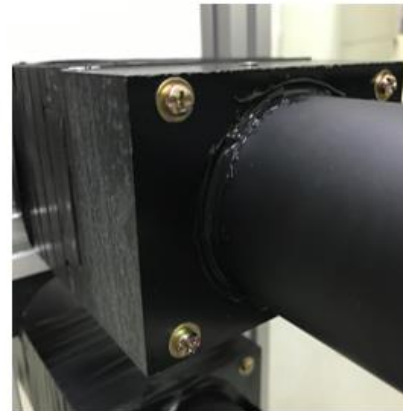


Figure 2: Pictures of the counters – attached PMTs and bars with bakelite guides ↵



**Rousse Jean-Yves**

I need to check if it is possible to use Bakelite on the experiment ↵



# TOF Detector Preparation

## Documents

Jean-Yves sent comments on documents

### 1. SafetyFile

1.2 Support : The lifting are to low comparing to the gravity center.

Is it possible to move those lifting device on the top of the support?

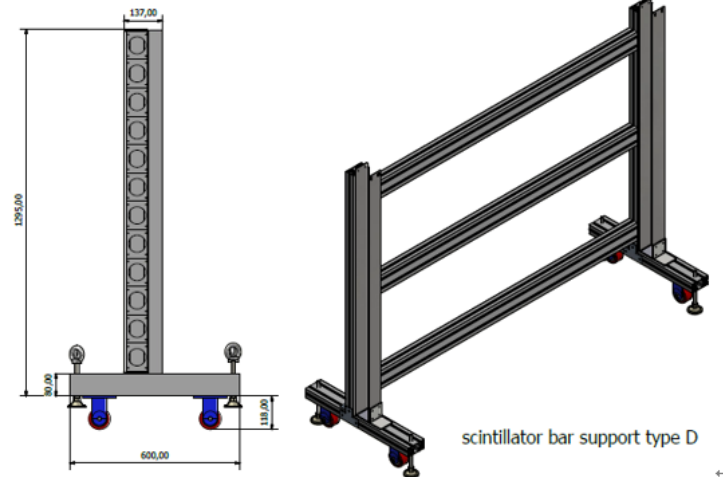


Figure 3: image of the scintillator counter support



Rousse Jean-Yves

The lifting on this drawing are to low compare to the gravity center. Is it possible to move those lifting device on the top of the support ?



Rousse Jean-Yves 어제

The drawing of the support is different than the support shows in page 5. Is it a special support for the tests ?

# TOF Detector Preparation

## Documents

Jean-Yves sent comments on documents

## 2. PPSPS

### 2.1 habilitation : Is there someone with electrical habilitation?

#### 4- CERN OR INSTITUTE EMPLOYEE INFORMATION

List of persons who executes the work.

Name/Surname	Discipline	Special Authorizations	Person with competent First Aid Skills (Y)	Special Medical Surveillance (Y/N)	Specific habilitation (electric, work at height ...)	Access right
S.K. Kim	scientist		N	N		
B.H. Kim	scientist		N	N		
A.R. Lee	scientist		N	N		
S.C. Jang	technician		N	N		

- **WORK SUPERVISOR: PATRICE PEREZ FOR ALL THE INSTALLATION**



Rousse Jean-Yves

Is there somebody in the team with electrical habilitation?

이아람

I will check and tell you. Thanks.

# TOF Detector Preparation

## Documents

Jean-Yves sent comments on documents

## 2. PPSPS

2.2 boxes production : take into account that those boxes will be manipulate by lifting lines and crane.

### 2. Procedure

- Transport and unpacking

↵

The TOF components will be delivered from SNU, in Seoul, South Korea except cables. All cables needed will be ordered in CERN store and be received at CERN. ↵

All boxes after transferring from transport truck should be kept in dry, warm place, protected against unauthorized access. This is the work supervisor's responsibility. ↵

↵	↵	Length ↵	Width ↵	Height ↵	Weight ↵
↵	Name ↵	Dimensions [mm] ↵	Dimensions [mm] ↵	Dimensions [mm] ↵	[kg] ↵
1 ↵	Plastic scintillation bars ↵	2000 ↵	500 ↵	800 ↵	110 ↵
2 ↵	PMTs ↵	400 ↵	200 ↵	200 ↵	50 ↵
3 ↵	Modules, PC ↵	600 ↵	600 ↵	600 ↵	150 ↵
4 ↵	support ↵	2000 ↵	300 ↵	300 ↵	30 ↵
5 ↵	↵	↵	↵	↵	↵
6 ↵	↵	↵	↵	↵	↵
7 ↵	↵	↵	↵	↵	↵
8 ↵	↵	↵	↵	↵	↵
9 ↵	↵	↵	↵	↵	↵
10 ↵	↵	↵	↵	↵	↵

↵



Rousse Jean-Yves

In the boxes production, could you take into account that those boxes will be manipulate by lifting lines and crane. ↵

이아람

Ok. To be moved(manipulated) so, there are need of using specific wooden boxes. I will check this on box-packing company. ↵