

LAMPS 중성자검출기 진행상황

LAPMS meeting 10/12
이종원

List

작업내용	갯수	개당 작업시간	진도	필요 작업시간
Scintillator gluing	160	1	160/160	-
Scintillator wrapping	160	1(2인)	140/160	20(2인)
CV wrapping	20	0.5(2인)	20/20	-
CV gluing	20	0.5	2/18	9
PMT test	360	시간당 20개	212/360	8
Clamp Mounting	360	시간당 10개	2/360	36
Leackage & Cosmic test	180	시간당 10개 (야간)	0/180	36

10월 계획

October 2018

- 중성자 검출기제작 참여
- KUNPL Calendar
- Contacts
- Holidays in Republic of Korea
- Jong-won Lee
- Birthdays
- japan
- Home
- Calendar
- Work
- Siri Found in Apps
- 대한민국 공휴일

September 2018	October 2018	November 2018
S M T W T F S	S M T W T F S	S M T W T F S
1	1 2 3 4 5 6	1 2 3
2 3 4 5 6 7 8	7 8 9 10 11 12 13	4 5 6 7 8 9 10
9 10 11 12 13 14 15	14 15 16 17 18 19 20	11 12 13 14 15 16 17
16 17 18 19 20 21 22	21 22 23 24 25 26 27	18 19 20 21 22 23 24
23 24 25 26 27 28 29	28 29 30 31	25 26 27 28 29 30
30		

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30 ... 이종원 ... 양현민 ... 강병민	1 Armed Forces Day ... 이종원	2 ... 이종원	3 National Foundation Day 개천절 ... 이종원	4 Seunghwan Lee's 36th Birthday ... 이종원 9:00 AM 남선호 9:00 AM 박정혁	5 ... 이종원	6 ... 이종원 9:00 AM 양현민 9:00 AM 노가영
7 9:00 AM 이종원	8 Hangeul Proclamation Day 한글날 ... 이종원	9 ... 이종원 9:00 AM 서진주	10 ... 이종원 9:00 AM 박정혁 9:00 AM 남선호 9:00 AM 세미나실 스피커 미팅 4:00 PM KOTO-K Group Meeting	11 9:00 AM LAMPS meeting @ KU 9:30 AM KOTO-K Group Meeting	12	13
14	15	16	17	18 10:00 AM [세미나실] KUNPL 그룹 미팅	19	20
21	22	23	24 9:00 AM KPS	25 ... KPS	26 ... KPS	27
28	29	30	31	1	2	3

Stage 1

Stage 1

11월 계획

November 2018

- 중성자 검출기제작 참여
- KUNPL Calendar
- Contacts
- Holidays in Republic of Korea
- Jong-won Lee
- Birthdays
- japan
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- Calendar
- Work
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- 대한민국 공휴일

October 2018	November 2018	December 2018
S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5 6	1 2 3	1
7 8 9 10 11 12 13	4 5 6 7 8 9 10	2 3 4 5 6 7 8
14 15 16 17 18 19 20	11 12 13 14 15 16 17	9 10 11 12 13 14 15
21 22 23 24 25 26 27	18 19 20 21 22 23 24	16 17 18 19 20 21 22
28 29 30 31	25 26 27 28 29 30	23 24 25 26 27 28 29
		30 31

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1	2	3
4	5	6	7	8	9	10
	9:00 AM 경주건축예정	... 경주건축예정	... 경주건축예정	... 경주건축예정 9:00 AM New Event		
	Stage 2					
11	12	13	14	15	16	17
	Stage 3					
18	19	20	21	22	23	24
	Stage 4					
25	26	27	28	29	30	1
	All stage test					

PMT test (gain, gain curve, monitoring software)

측정내용

1회 4개 PMT 측정

~ 10k event / 회

측정전압 : 1600 ~ 2000V 구간 100V 간격(총 6 포인트)

LED : 1600 ~ 1800 3.6V, 1800~2000V 3.25V

1 PMT : Light intensity monitor (1800V 고정)

4 PMTs : 측정용

- PMT 인스톨 이후 모든 조정 및 데이터 해석을 스크립트로 자동화, PMT ID를 고정
- CAEN HV module의 HV 조정, HV & current monitoring program 작성.
- Function generator의 control program 작성

1600V, 3.6

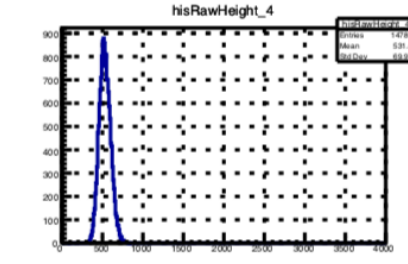
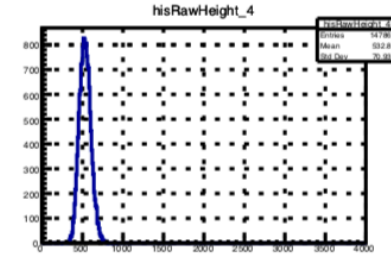
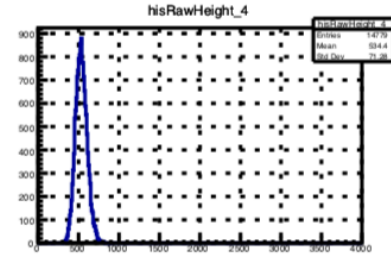
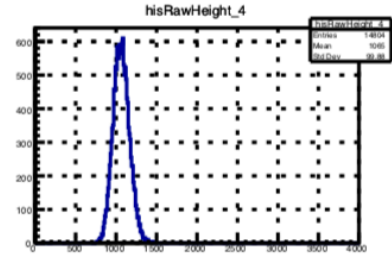
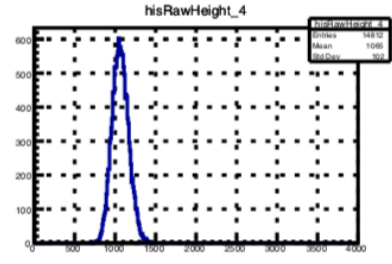
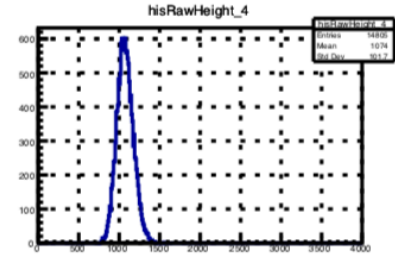
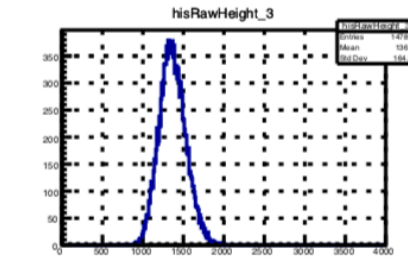
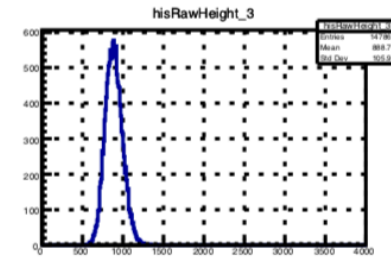
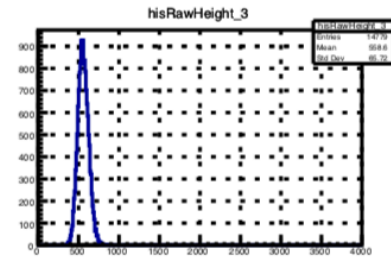
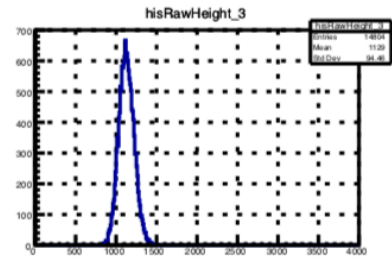
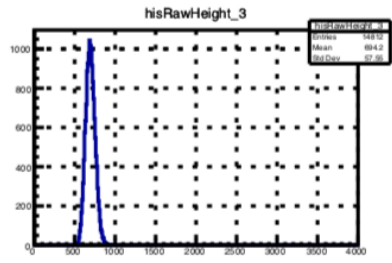
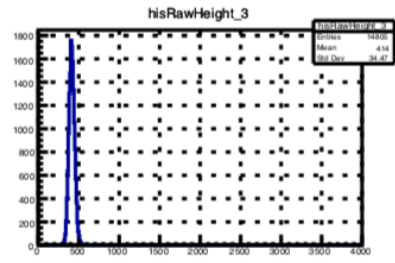
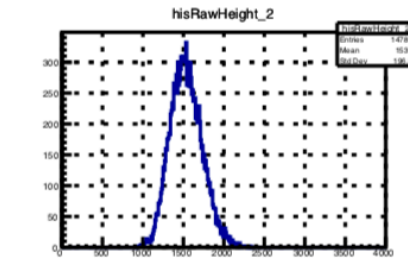
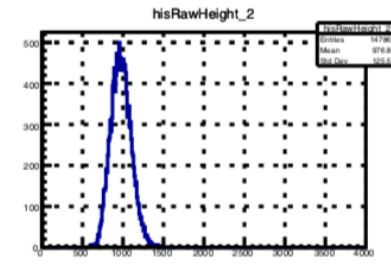
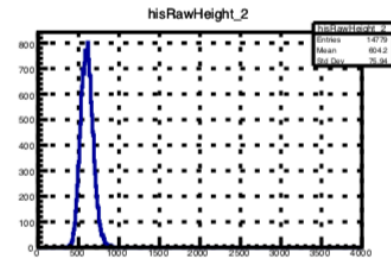
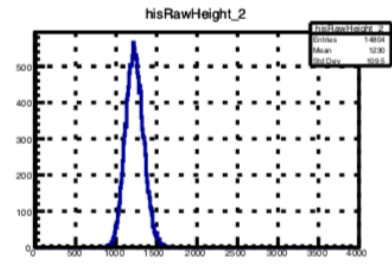
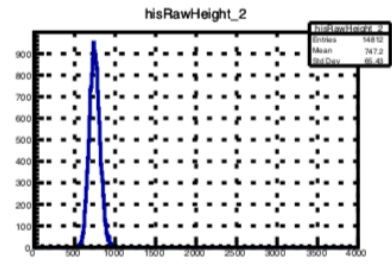
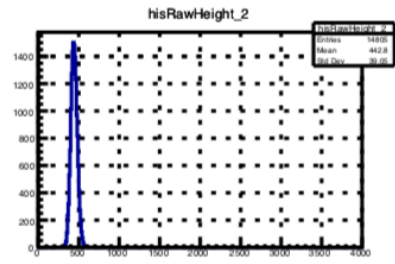
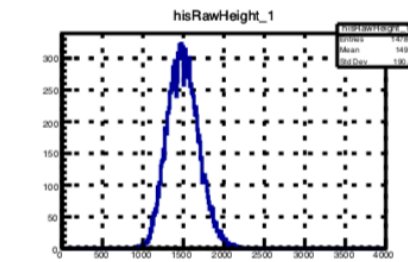
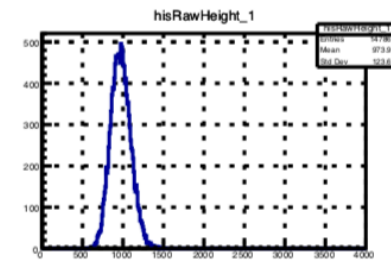
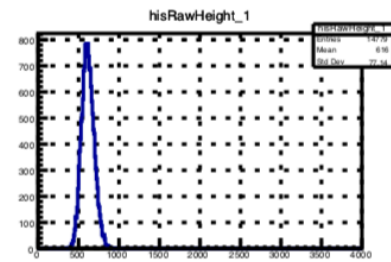
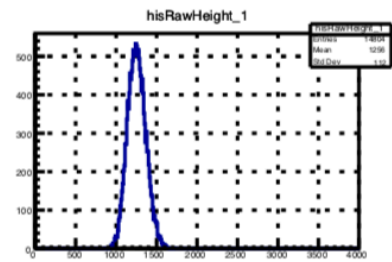
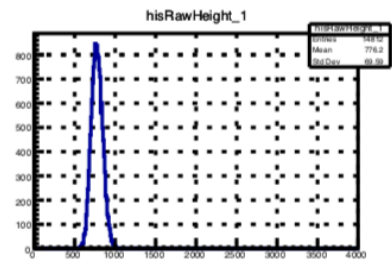
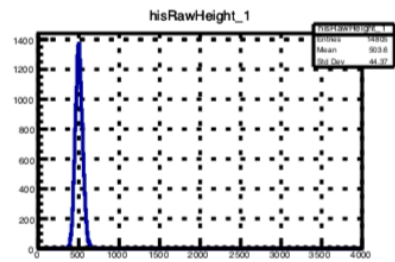
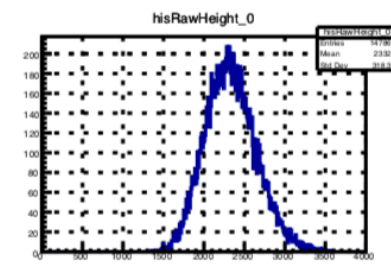
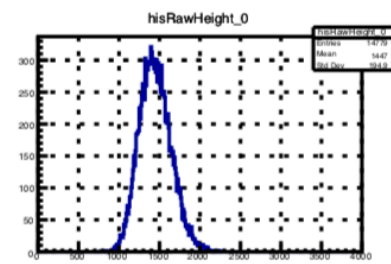
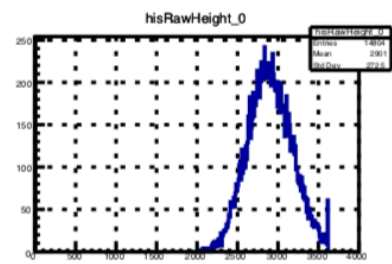
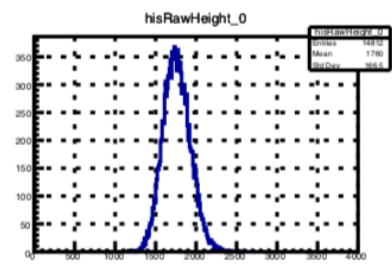
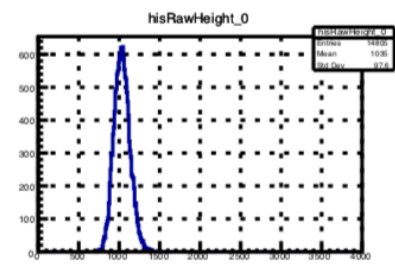
1700V, 3.6

1800V, 3.6

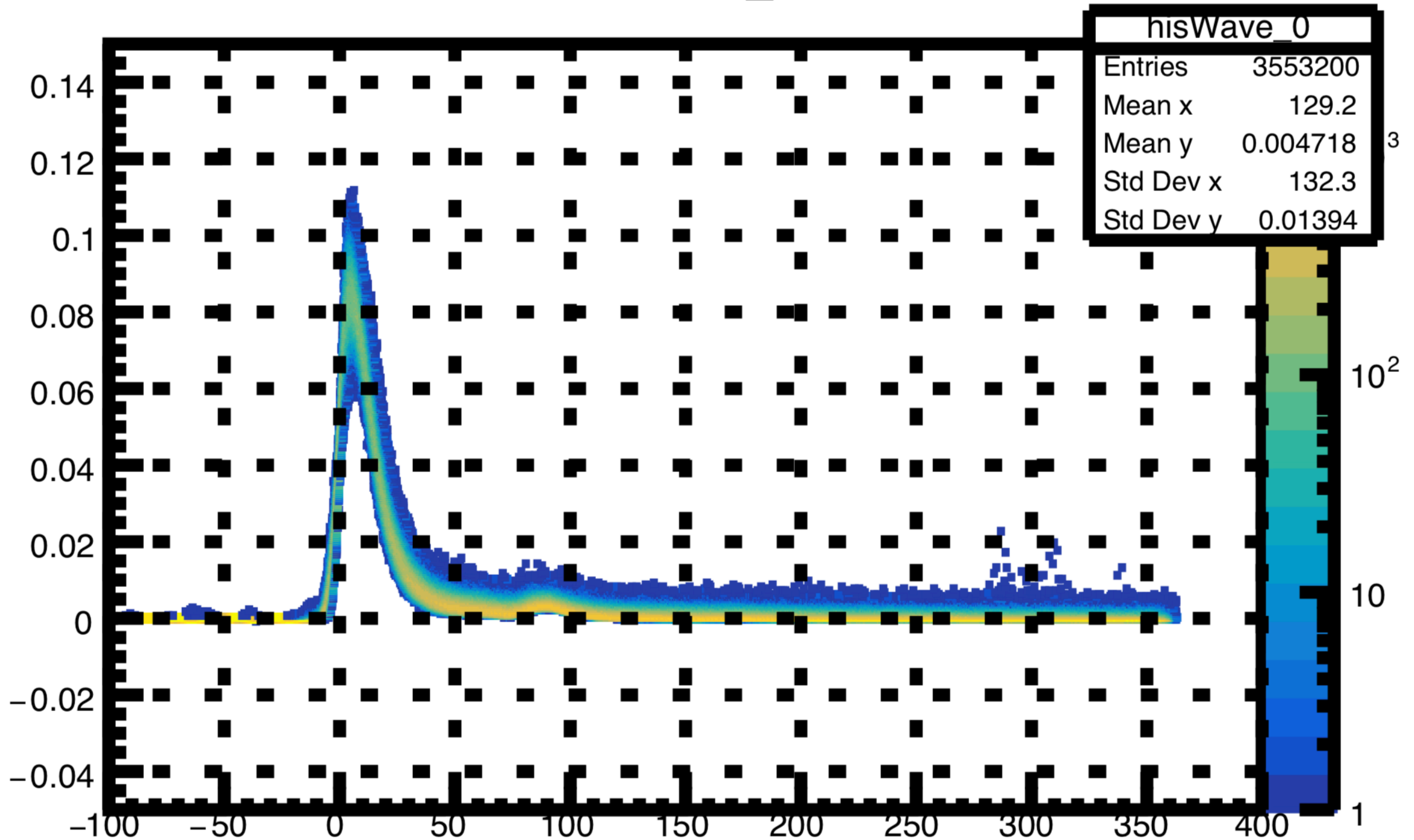
1800V, 3.25

1900V, 3.25

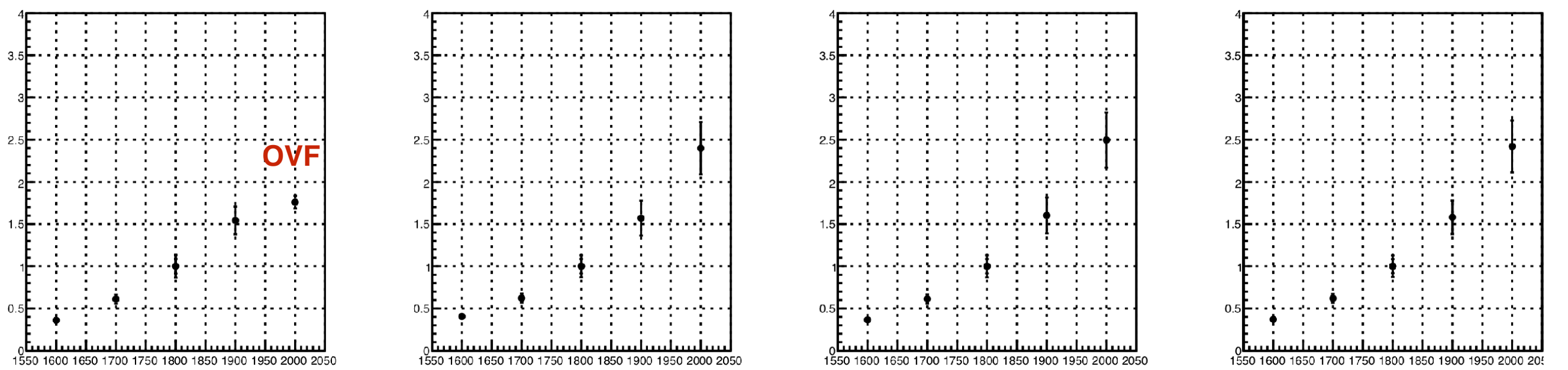
2000V, 3.25



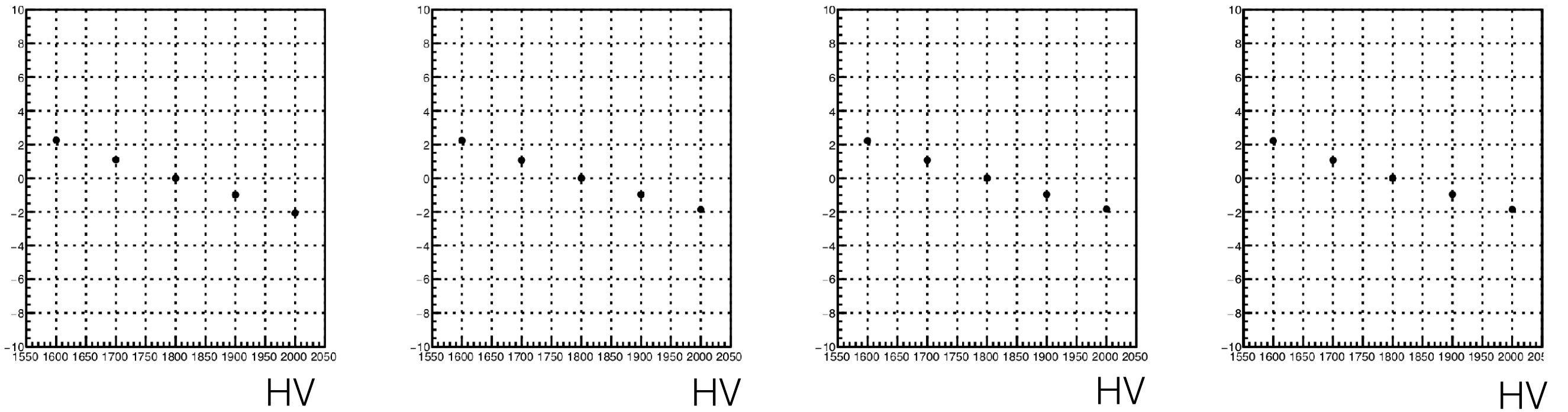
hisWave_0



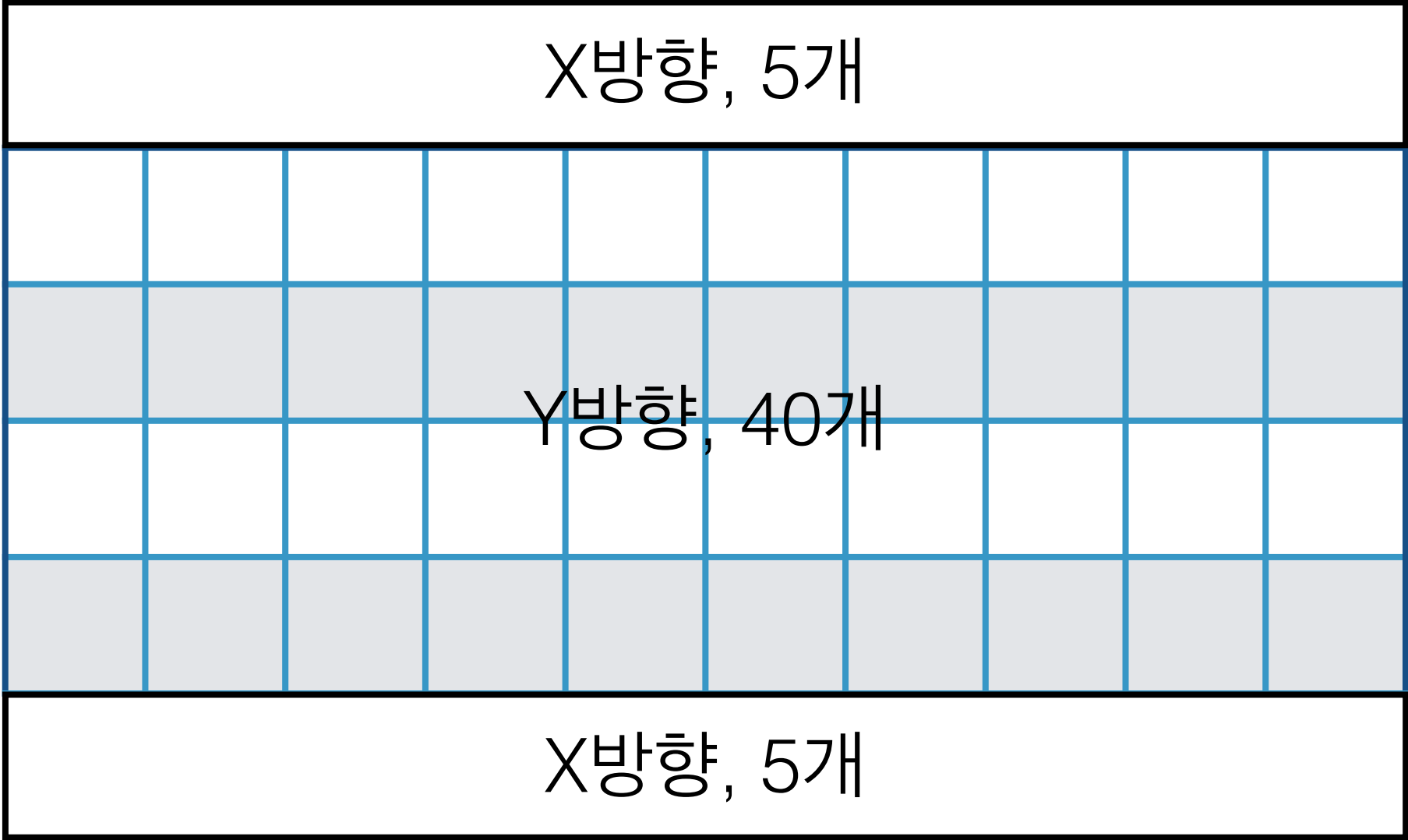
Gain curve



Signal timing delay

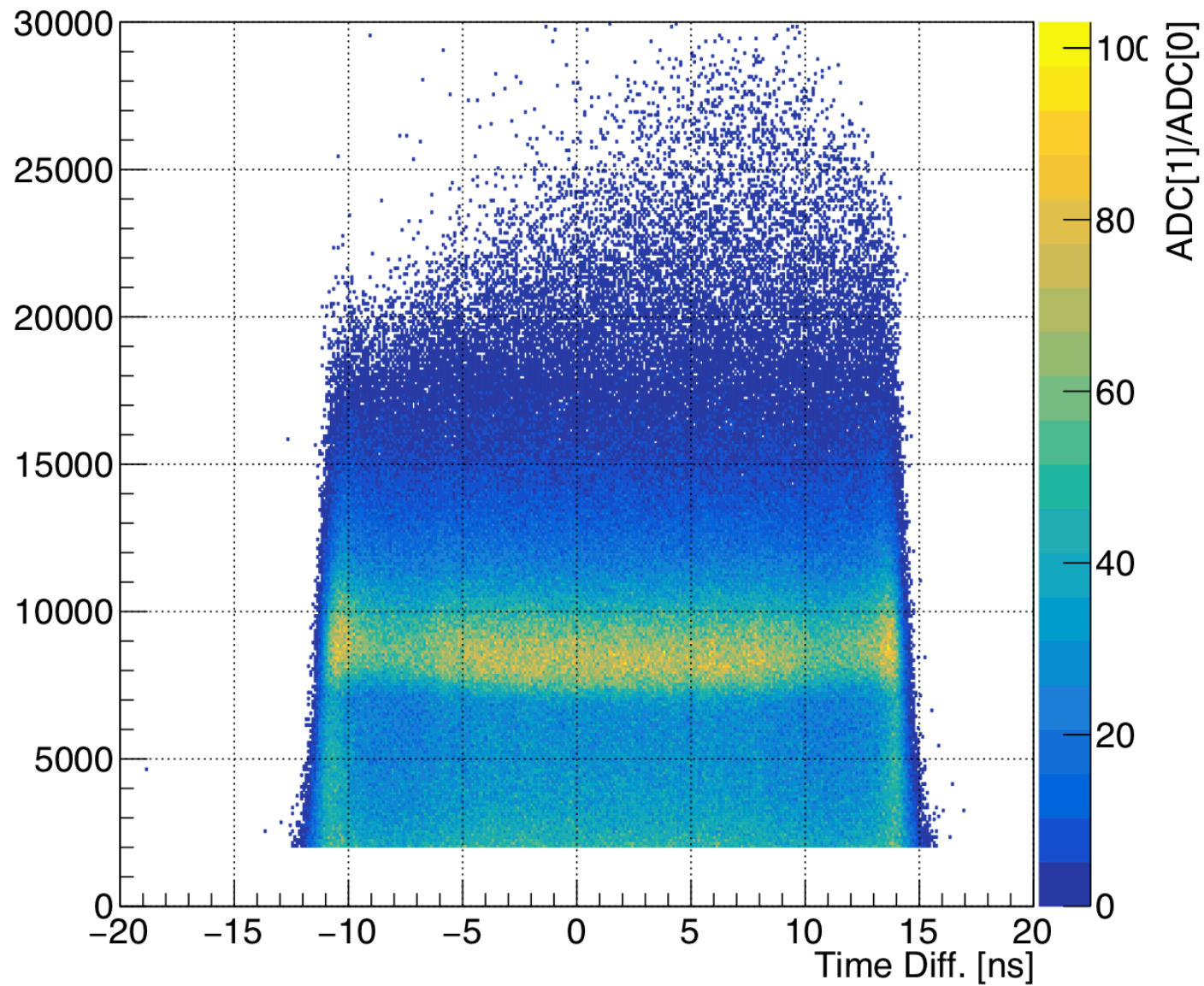


Module cosmic test for 40 modules

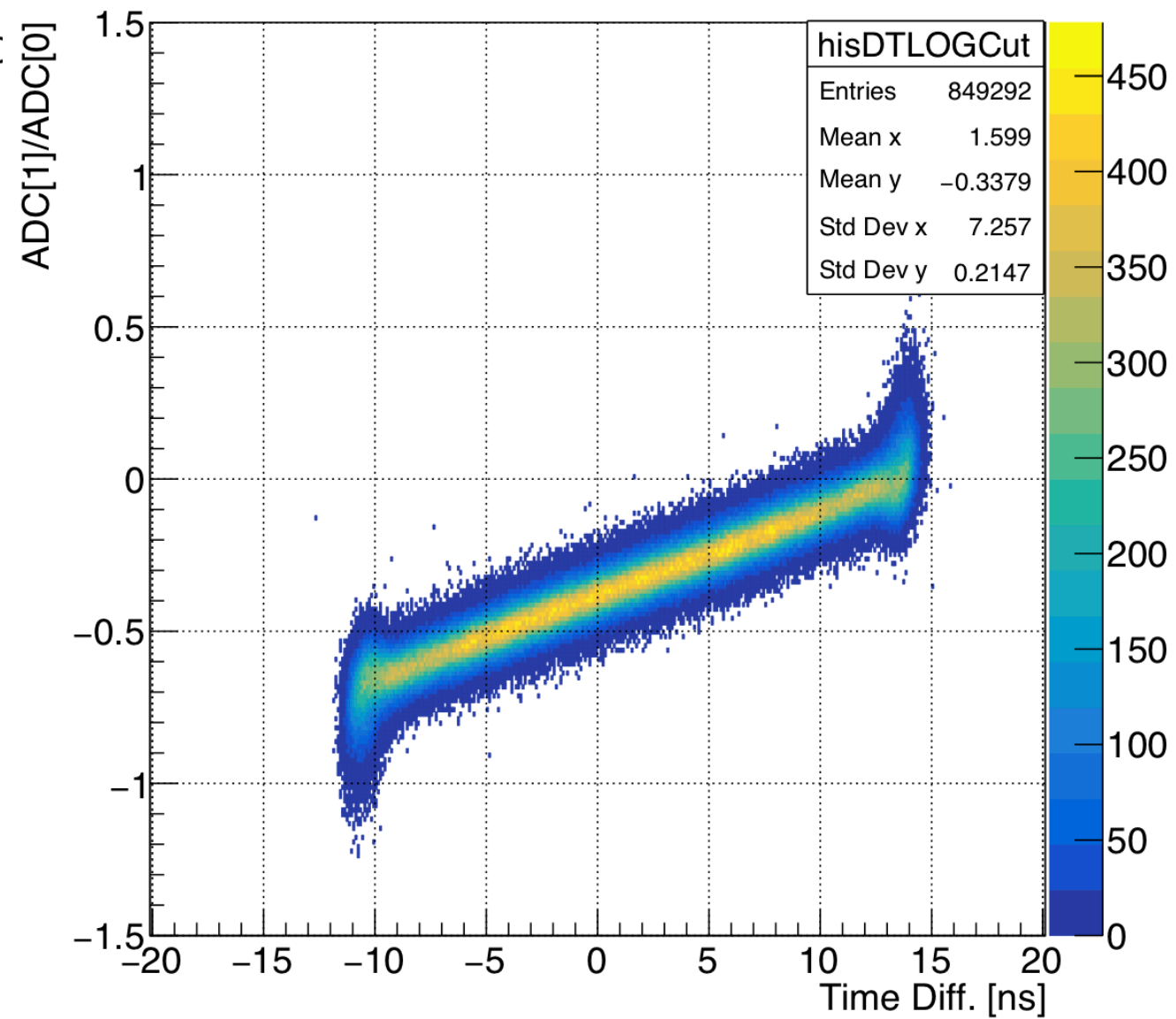


총 40개/1회
1일

Cosmic ray output



ADC Log Ratio



MIP peak value
Timing resolution
Attenuation length

를 모듈별로 정리