

# Production Status

RIKEN/RBRC

Itaru Nakagawa

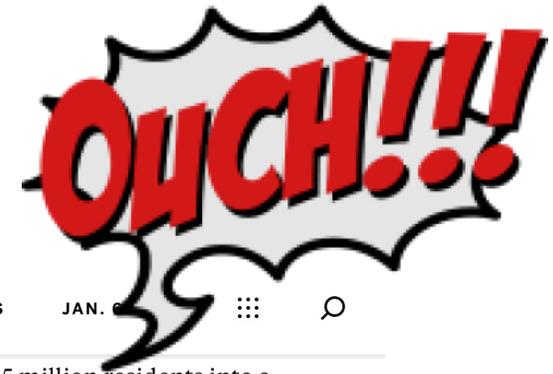
# INTT Production Status

\* Beyond 112 are spares

2022	1	2	3	4	5	6	7	8	Qty*	Status	
Silicon									135	Done	
HDI									176	Done	
Stave									204	Done	
Bus Extender	Batch-1(20)		Batch-2(40)			Batch-3(70)			130	Production	
Conversion Cable	Prototype-1	Contract		Prototype-2			Production (130)			130	Prototype
Beam Clock Board	Design		Public bid	Preproduction(2)		Production(18)			20	Prototype	

- Components procurements for BCDB by Arus co. is in progress. In optimistic scenario, they will complete procurements by 1<sup>st</sup> week of May.
- Batch-2(40) Bus Extender Production is on schedule. Expected delivery in next week. All cables are to be shipped to BNL right away.
- The harness of  $\mu$ -coax cables for the prototype-II are expected to be delivered to Hayashi-REPIC by the 1st week of May. The delivery of prototype-II on schedule is getting feasible.

# Potential Risk for Delay...



神宇股份 SHEN YU COMMUNICATION

Products Application About Competence Join us Contact

★ 中文版 | ★ English

PRODUCT 产品中心

High-end stationary phase cables

Microwave low loss cable

Semi rigid cable

Fine coaxial radio frequency cable

Very thin radio frequency coaxial cable

High speed data line

Radio frequency cable components customized

**Fine coaxial radio frequency cable**

- 1.中心导体：神宇电缆使用的中心导体为铜镀银，表面电镀的银确保了最佳的长期高频传输性能和耐高温特性
- 2.介质：神宇电缆使用了聚四氟乙烯（PTFE）或氟化乙丙烯（FEP）作为绝缘体，相比聚乙烯是一种有更好的高频性能、更佳的可弯曲性、更高耐温的绝缘材料
- 3.外导体：神宇电缆的外导体采用了镀银铜线或镀铜铜线编织，特点是柔软，加工方便，耐温高也满足了连接器安装时压接和焊接的需要
- 4.护套：神宇电缆的护套选择氟化乙丙烯（FEP）具有耐温200°C，表面光滑耐磨，适合于狭小空间的通过，天生的抗紫外线、不降解、防盐雾、等优异特性。

**RF radio frequency coaxial cable**

- SFF-75-1.5-2
- SFF-75-1.5-1
- SFF-50-7-2
- SFF-50-3-1
- +More

**RG radio frequency coaxial cable**

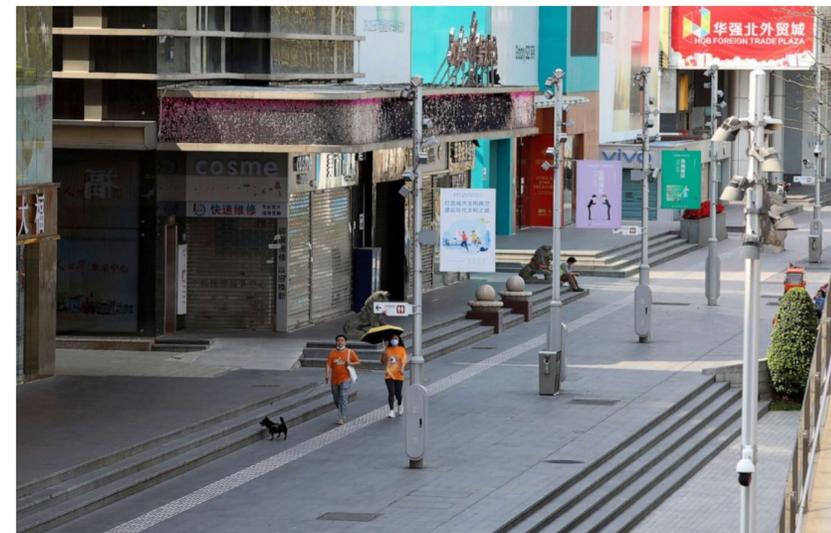
- RG400 (50Ω)
- RG316 (50Ω)
- RG302 (75Ω)
- RG180 (50Ω)
- +More

Factory is in Shenzhen

On Sunday, China ordered all of Shenzhen's 17.5 million residents into a seven-day lockdown, with three rounds of testing. All public transport is halted and all businesses, except essential services, will be closed until March 20.

As a result, Apple supplier Foxconn has shut two of its plants in the area and relocated production elsewhere.

The lockdown and outbreaks threaten manufacturing and tech production in Shenzhen, known as China's Silicon Valley. It's home to Huawei and Tencent, and is home to one of the country's key ports.



-> Back in operation by now.

# Bus Extender Production Batch-II, III

Schedule

2021

2022

11

12

1

2

3

4

5

6

7

8

9

Batch-I (20)

15

Batch-II (40)

40+1

**Batch-3 (70)**

40 30

2 weeks

The next lot starts two weeks after the first lot.

1st Half Barrel (56)

INTT Barrel  
Assembly

2nd Half Barrel (56)

1008 Install

# Batch-1 Bus Extender

The screenshot shows a Google Docs spreadsheet titled "Production Bus Extender Database". The spreadsheet contains a table with the following data:

Batch	Serial Number	2022/2/10	2022/2/28
1	1	TIRI	RIKEN
	2	Taiwan	
	3	NWU	
	4	NWU	
	5	NWU	
	6	BNL	
	7	BNL	
	8	BNL	
	9	BNL	
	10	BNL	
	11	BNL	
	12	BNL	
	13	BNL	
	14	BNL	
	15	BNL	
	16	BNL	
	17	BNL	
	18	BNL	
	19	BNL	
	20	BNL	

An orange box highlights the cell containing "NWU" in the Serial Number column (row 4), with the text "To be shipped to BNL from one of them." written inside the box.

# 1008 ROC Test

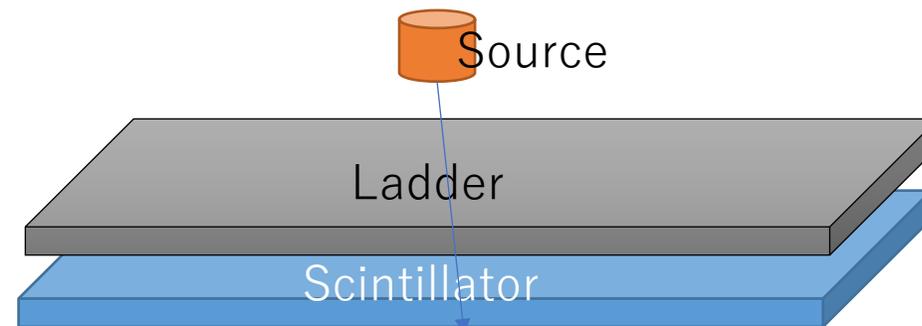
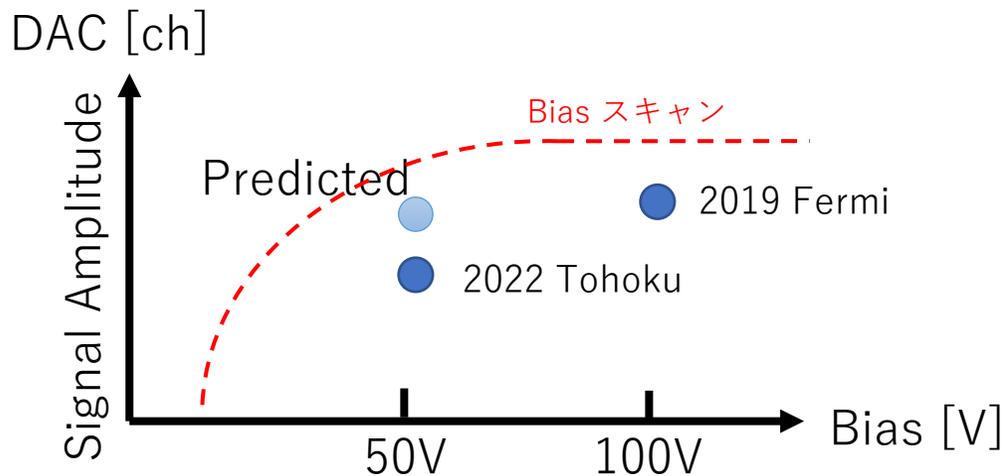
- 6 Class-1 ROCs are to be exported to BNL. It is now under paper work.
- Details are to be reported by Hikaru Imai soon.



Hikaru is training 3 new undergraduate students of Rikkyo University

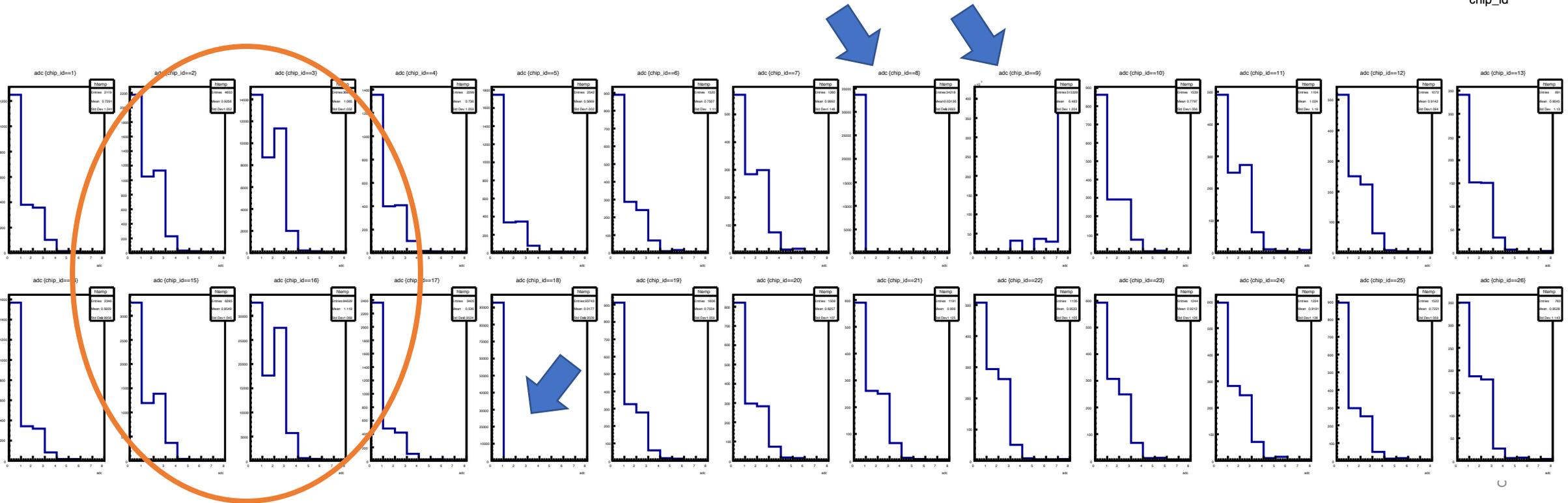
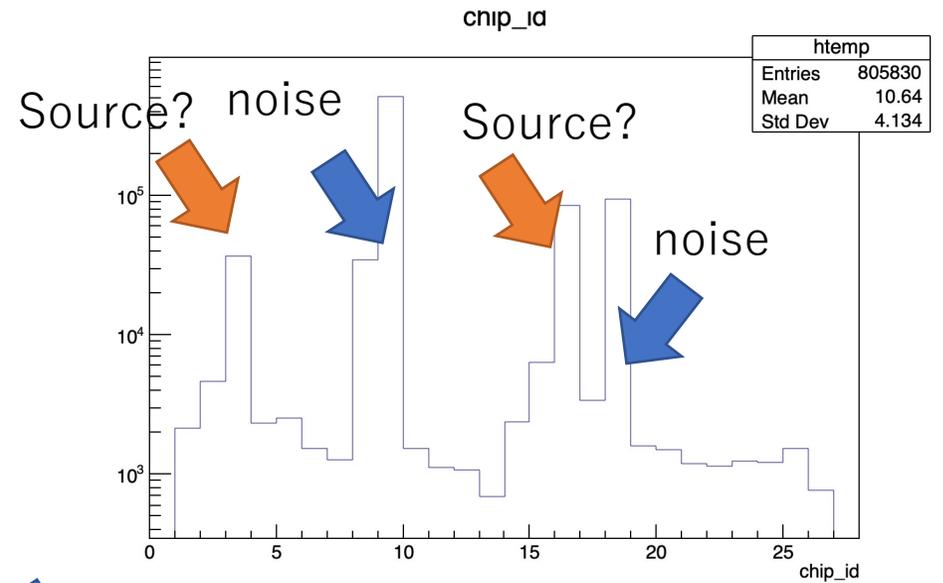
# Bias Response of Silicon Signal

- The MIP position is smaller than what we expect from Hamamatsu's C-V observation.
- Here is the idea how we can investigate further on this remaining mysterious behavior.
- There are  $56 \times 4 = 224$  Silicon Bias channels to be operated simultaneously.
- We should have some idea of the behavior of necessity  $<100V$  operation in case during the experiment.



# Can we identify the peak?

The operating voltage was 50V.  
The peak may be identifiable.



# External Trigger Preparation In RIKEN TB

- Trigger Scintillators, Bias Powers.
- MIN logic (Discr, level adapter, GG for delay)
- Trigger cables
- Bias power, Bias power cable
- Visual Scaler
- Etc..

