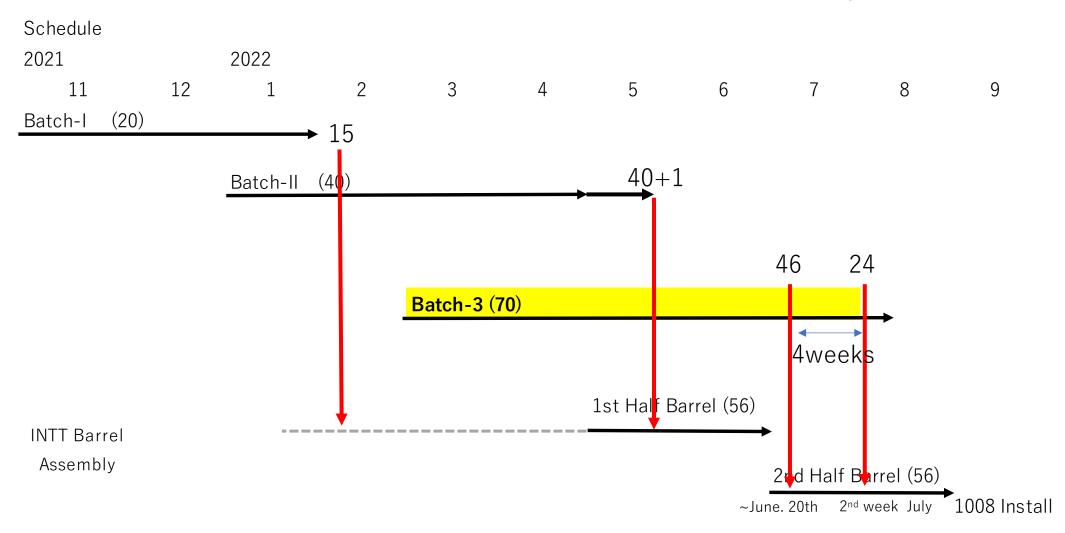
Production Status

RIKEN/RBRC

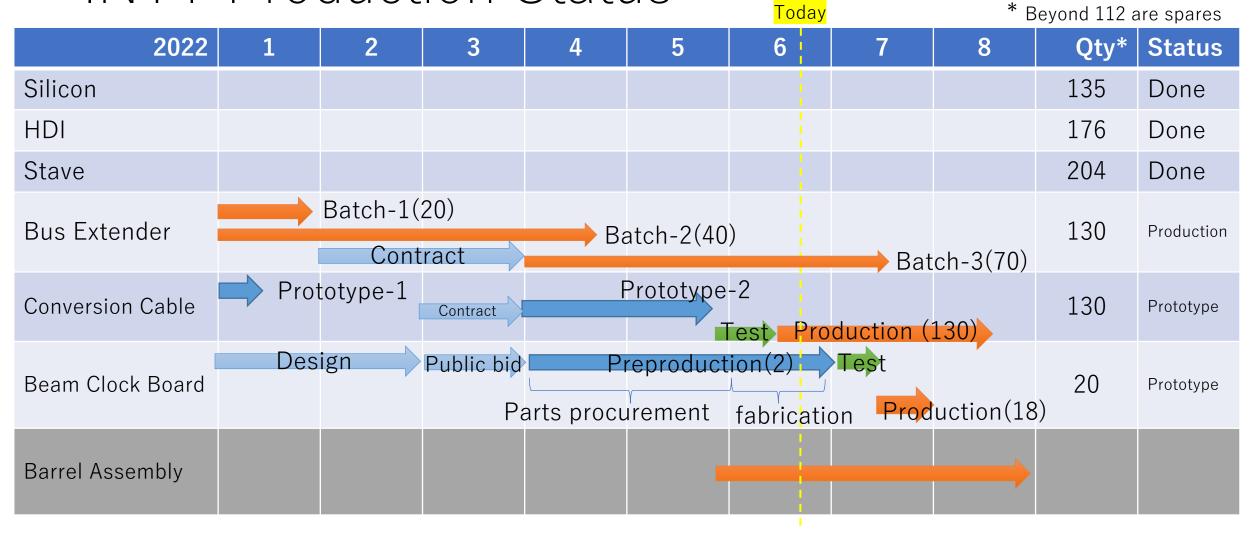
Itaru Nakagawa

Bus Extender Production Batch-II, III



Total Qty. in BNL 15 56 102 126

INTT Production Status



- 46 BEX are to be delivered in week of June 20th.
- Finalize design of the conversion cable for production.
- To be delivered beam clock board by the end of of June. Cables need to be prepared

3rd batch bus extender LOT-1

- There are 46 (serial No. 61 \sim 106) good BEX were delivered to RIKEN on June $21^{\rm st}$ and picked up for export on $22^{\rm nd}$ as scheduled.
- Expected delivery to BNL is June 28th.







ROC Boards Testing

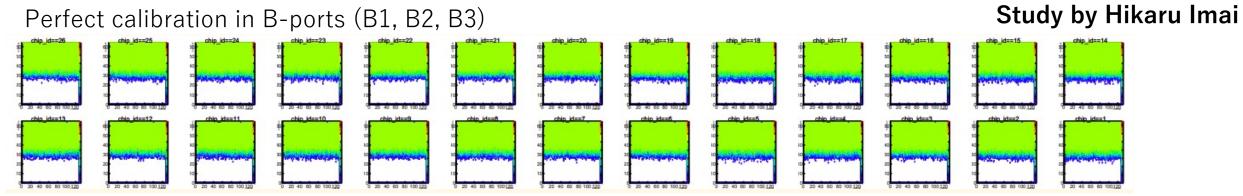
- Received 4 ROC boards from BNL.
- Will inspect DF18 connectors or chips if there are any damaged ones. Then these boards are handed to Hayashi-REPC co. for the regulator upgrade and repair (June ~ July).

Concern towards Production

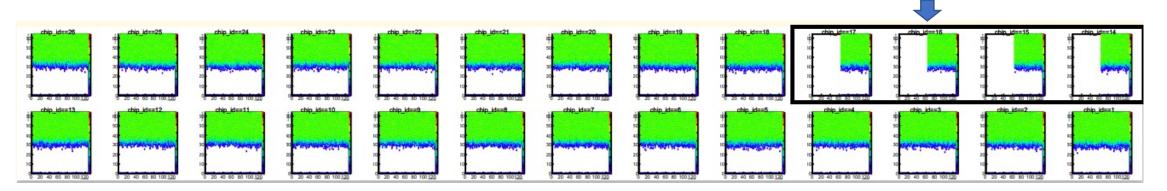
Partially dropped data observation in D3 port

Partially Dropped Data in Calibration





Occurs particularly in D-port of ROC. Worst in D3 port.

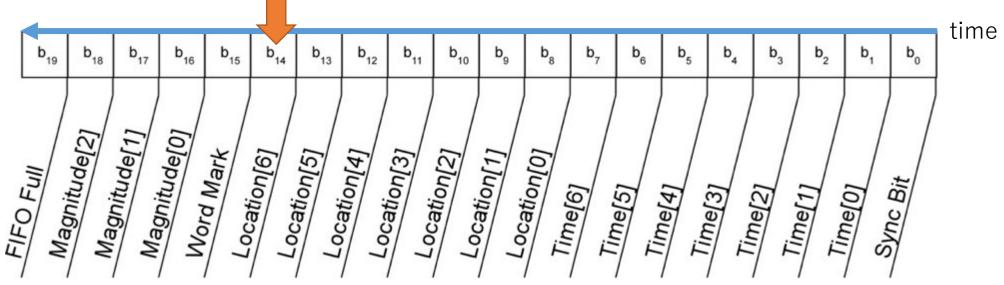


Typically, missing data strip#0 \sim 64 of Chip 14 \sim 17

Strategy

1: Strip #64 ~ 127

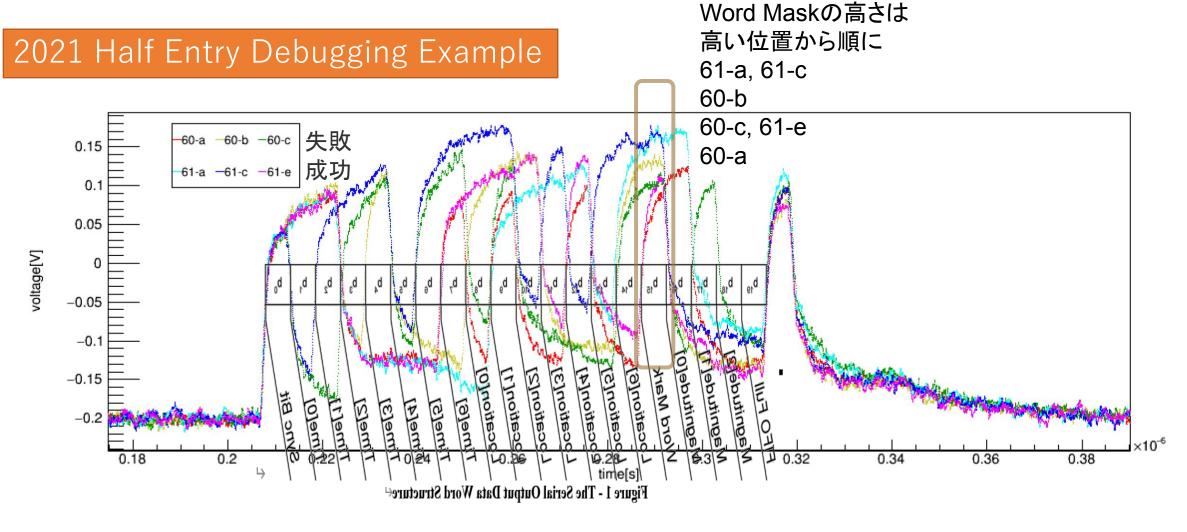
0: Strip #0 ~ 63



Note that in time order, the Sync bit comes out first and the FIFO full bit comes out last.

- If we observe data pattern b14=false, then the problem is in down stream, i.e. data is healthy. The problem is in the ROC.
- If we don't observe data pattern always b14=true, then the problem is in upstream. Most likely the initialization failure of FPHX chip. Slow control transmission issue of μ -Coax?

Word Mark



前回の20bitデータ測定(今回の条件ではこれよりも信号がはっきりしているはず。)

2021/08/04 Miu Morita 波形測定 @BE MT

Signal Observation @ D3 Port (1)

With BEX + 25cm Micro-Coax Conversion Cable

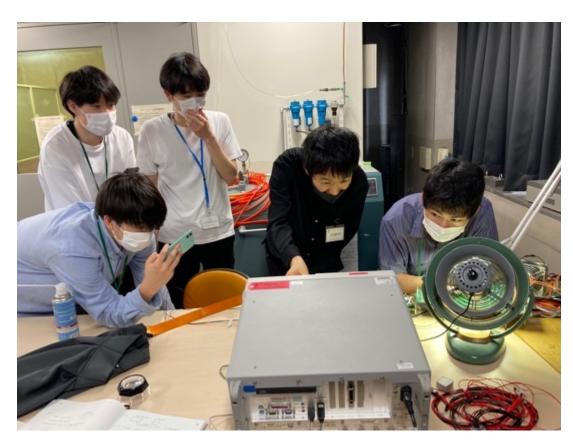




June 20, 2022

Signal Observation at D3 port (2)

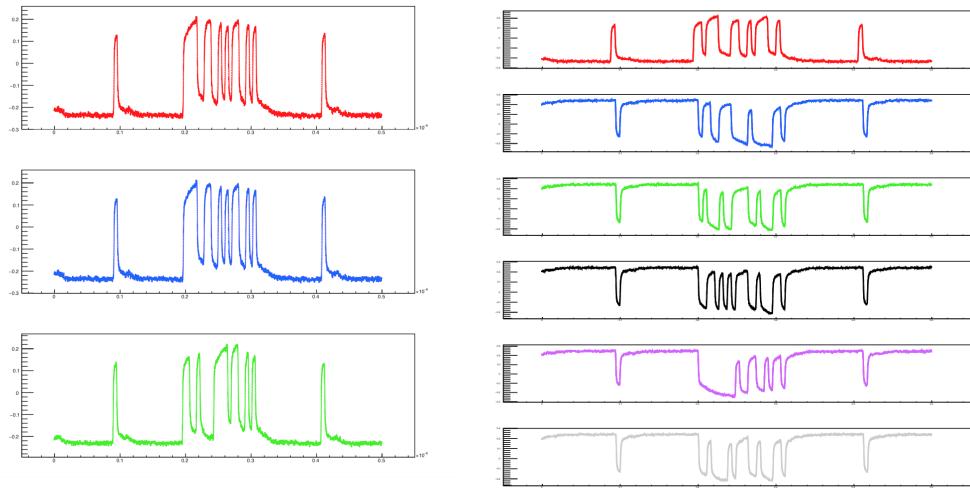
With BEX + 25cm Micro-Coax Conversion Cable





June 20, 2022

Observed Wave Form



Plot by Hikaru Imai

INTT Collaboration Meeting

INTT Collaboration Meeting in BNL

- Many members are going to travel to BNL this Summer.
- I would like to propose a collaboration meeting in August at BNL
- Review activities in each institutes to understand each other's work and figure out if there is anything overlooked.
- Discuss plans and schedules for this Fall and Winter.