INTT Status and Schedules

RIKEN/RBRC

Itaru Nakagawa

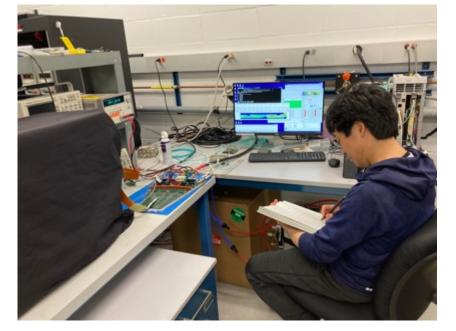
Ladder Status





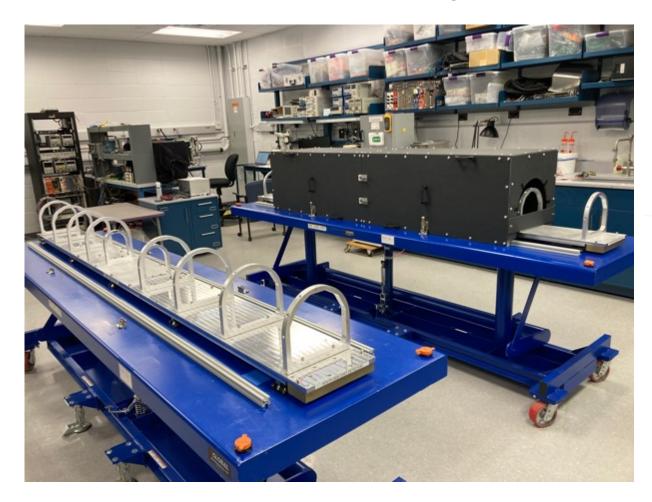
82 Ladders Assembled Ladders in BNL

	Assembly	Calib Test	Source Test
BNL	82	82	30
Taiwan	40	40	22



- Assembly of ladder has been completed
- Testing ladders are ongoing.
- 56 Class-1 ladders are to be assembled into the barrel

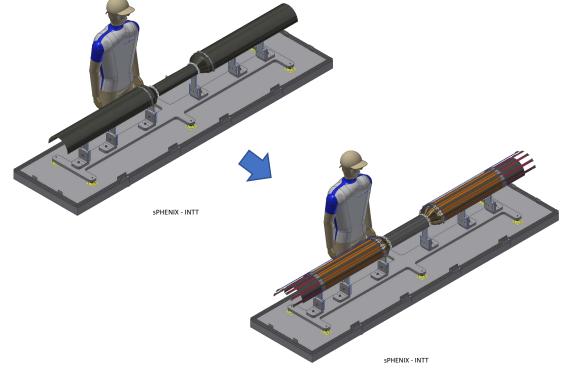
Barrel Assembly



All materials are ready except for CFC support structure pieces. They were shipped from France and on their way to BNL.

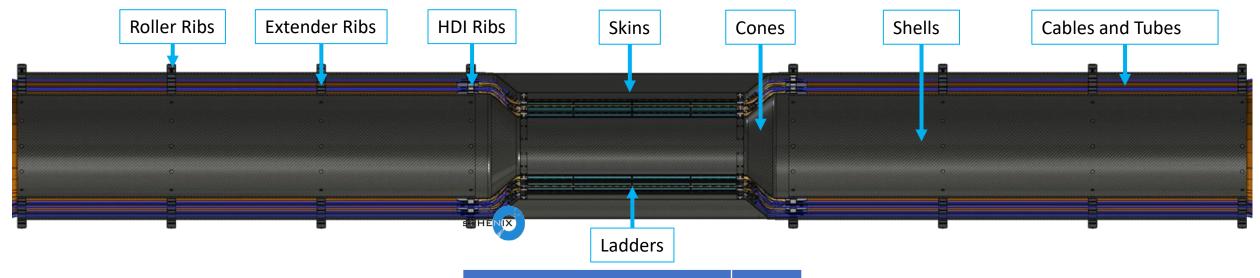


INTT Barrel Mock up



Barrel – Components





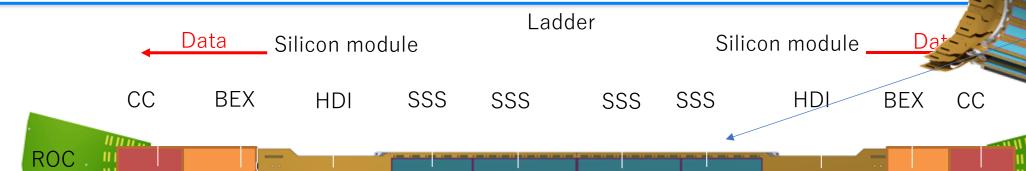


Description	QTY
Support Pipe	1
Outer Service Barrel	2
Inner Service Barrel	4
Outer End Ring Cone	4
Inner End Ring Cone	4
Outer Skin	2
Inner Skin	2



INTT Ladder Components





HDI Cable



1.11 m Bus Extender



Silicon Sensors



Conversion Cable Prototype-I



FPHX Chip

CFC Stave



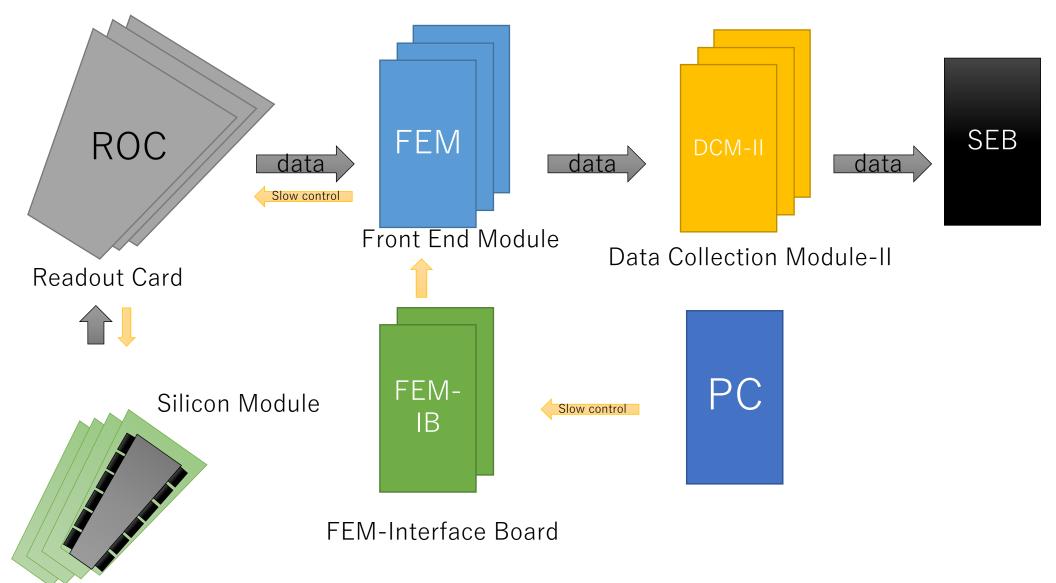
INTT Production Status

* Beyond 112 are spares

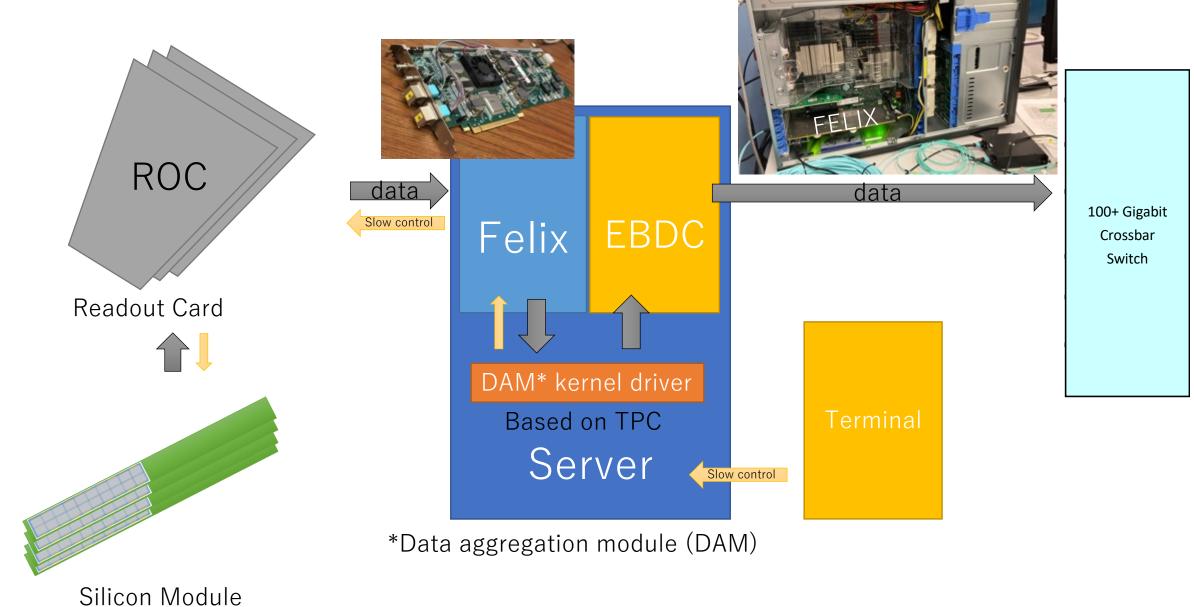
2022	1	2	3	4	5	6	7	8	Qty*	Status
Silicon									135	Done
HDI									176	Done
Stave									204	Done
Bus Extender		Batch-1(Ba	atch- <mark>2</mark> (40))	Bato	:h-3(70)	130	Production
Conversion Cable	Prot	totype-1	Contract		Prototype	-2 Test Pro	duction (130)	130	Prototype
Beam Clock Board	Des	ign	Public bid	Pı	reproducti	ion(2)			20	Prototype
Barrel Assembly					-					

Student's travel to BNL

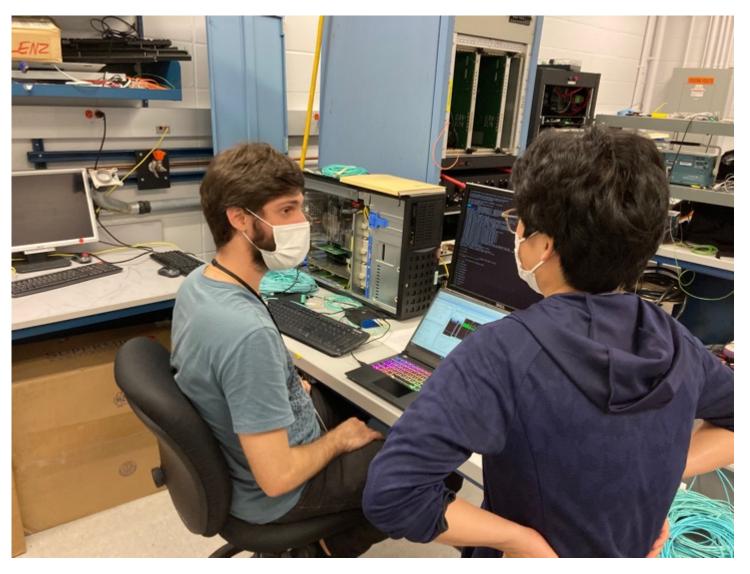
FVTX Readout Chain



INTT-Felix Readout Chain



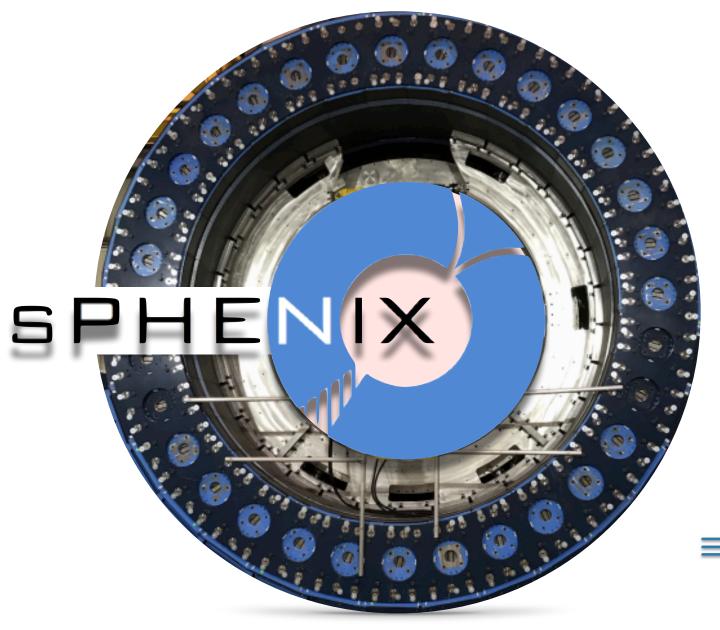
INTT FELIX Readout



- Initial attempt to take data with FELIX readout system has been successful.
- Passed 1st stage FELIX review in April.
- Start to establish environment for control/online software.
- Redirecting more man powers for software development this Summer.

Installation and Commissioning

Discussed in the general meeting on May 13, 2022



Report from the sPHENIX commissioning task force

Putting together information from Russ Feder, the commissioning task force members, and others

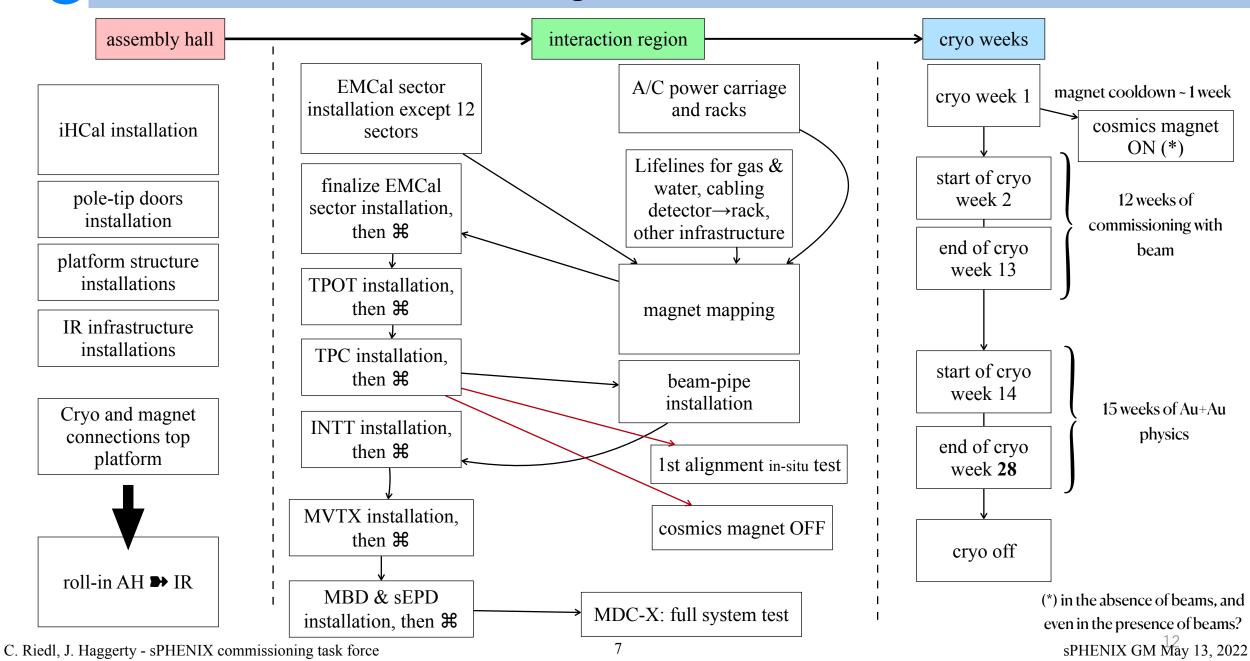


first beams February 2023



≋= service installation and cabling

Schedule logic without dates - overview



Installation Schedule Highlights and Milestones



Remove the shield wall after RHIC Run-22	4/19 – 5/6
Install the magnet pole tips and cryo on the platform in the Assembly Hall	5/9 - 7/15
Install the IHCal	6/14 - 7/15
Roll carriage into the IR	7/18 - 7/22
Complete the magnet cryo/power/controls hook up in the IR	7/25 – 9/1
Install the EMCal in the IR	7/25 – 9/1
Magnet mapping	9/9 - 9/27
Install TPOT	9/28 - 10/24
Install the TPC	10/25-11/28
Beam pipe installation and bake out	12/6 - 12/27
IRR complete	12/16
ARR complete	1/13/23
Install silicon and trigger detectors	12/29/23 – 2/13/23
Begin RHIC Run-23	2/22/23

Depending on the task we are a little ahead, or a little behind schedule. We revise the schedule as needed





