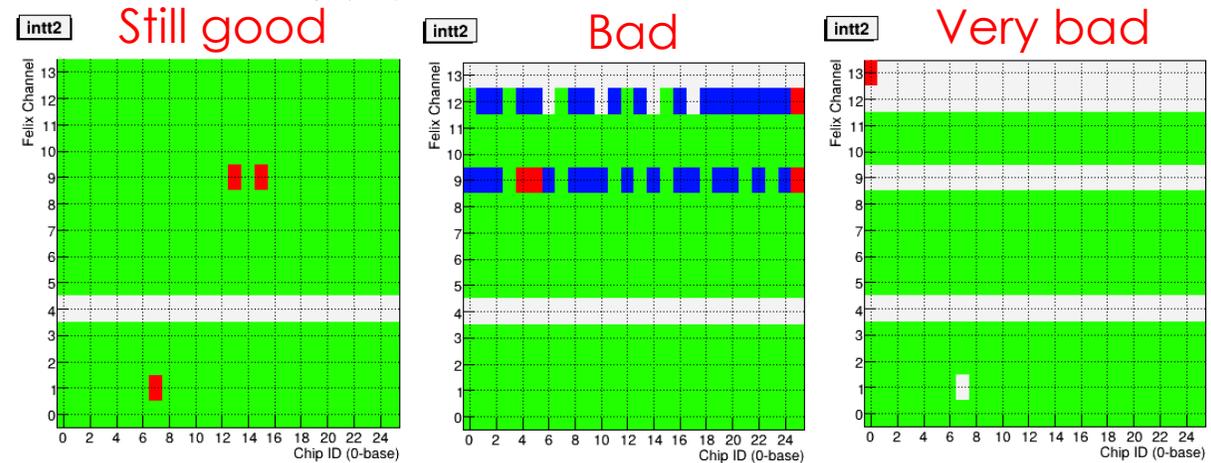


INTT status and plan for the end of run

Akitomo Enokizono

Recent INTT status: INTT2 issue

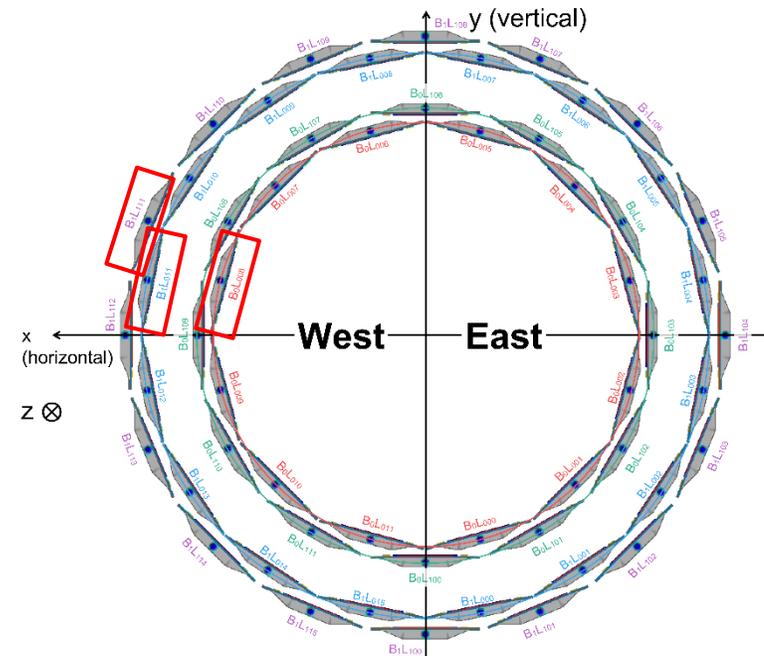
- 3 Felix channels on INTT2 are frequently in a bad state
 - **Still good**: some of the channels become hot/cold
 - **Bad**: Missing data, data size become larger by a few factors
 - **Very bad**: Data size become larger by orders, the buffer usage becomes 100%



- Those channels come from Port-C on ROC-5S (#23, no history of repairment)

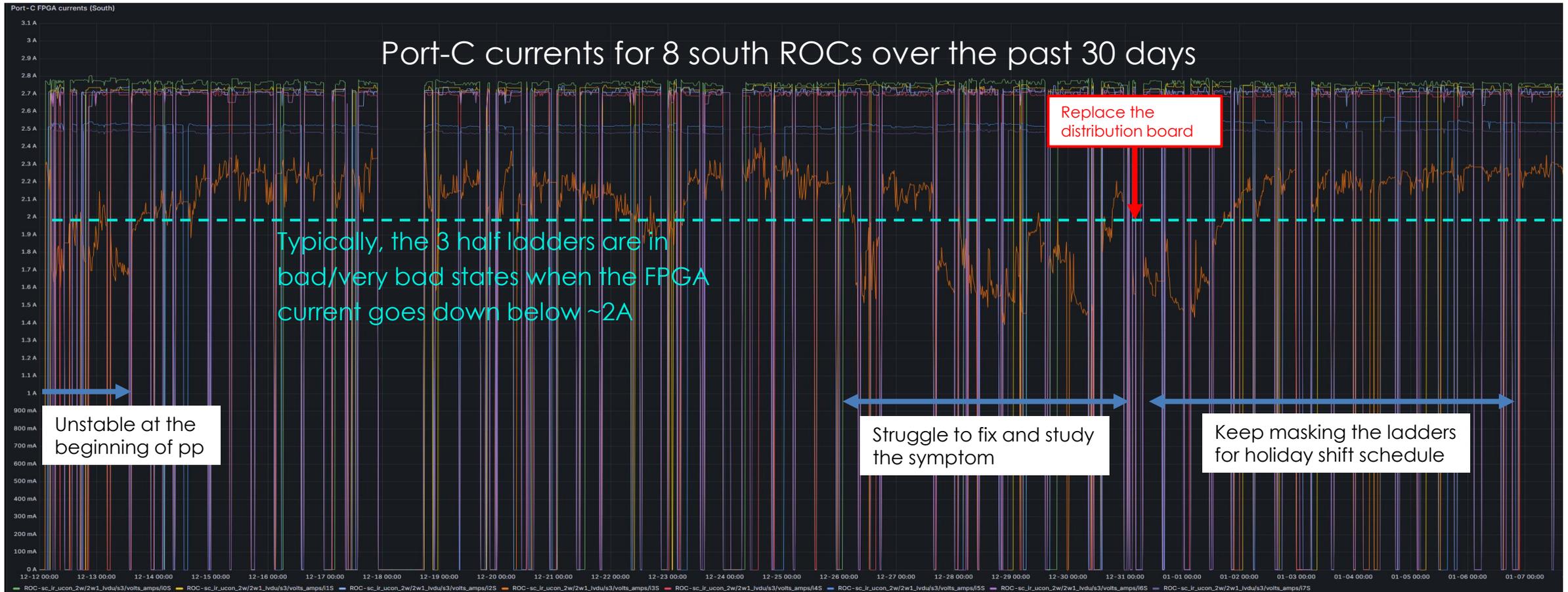
Felix ch	port	ladder
7	A1	BOL007S
8	B3	BOL108S
9	C1	BOL008S
10	A2	B1L110S
11	B2	B1L010S
12	C2	B1L111S
13	C3	B1L011S

- Lost acceptance is ~2.7%



View from the south side

Recent INTT status: INTT2 issue



- INTT experts will routinely check the current, and when it is constantly below $\sim 2A$, we will mask the 3 half-ladders until the current become stably above 2A.
 - Remote INTT experts are welcome to check the current on Grafana

What is the cause? Unknow yet...

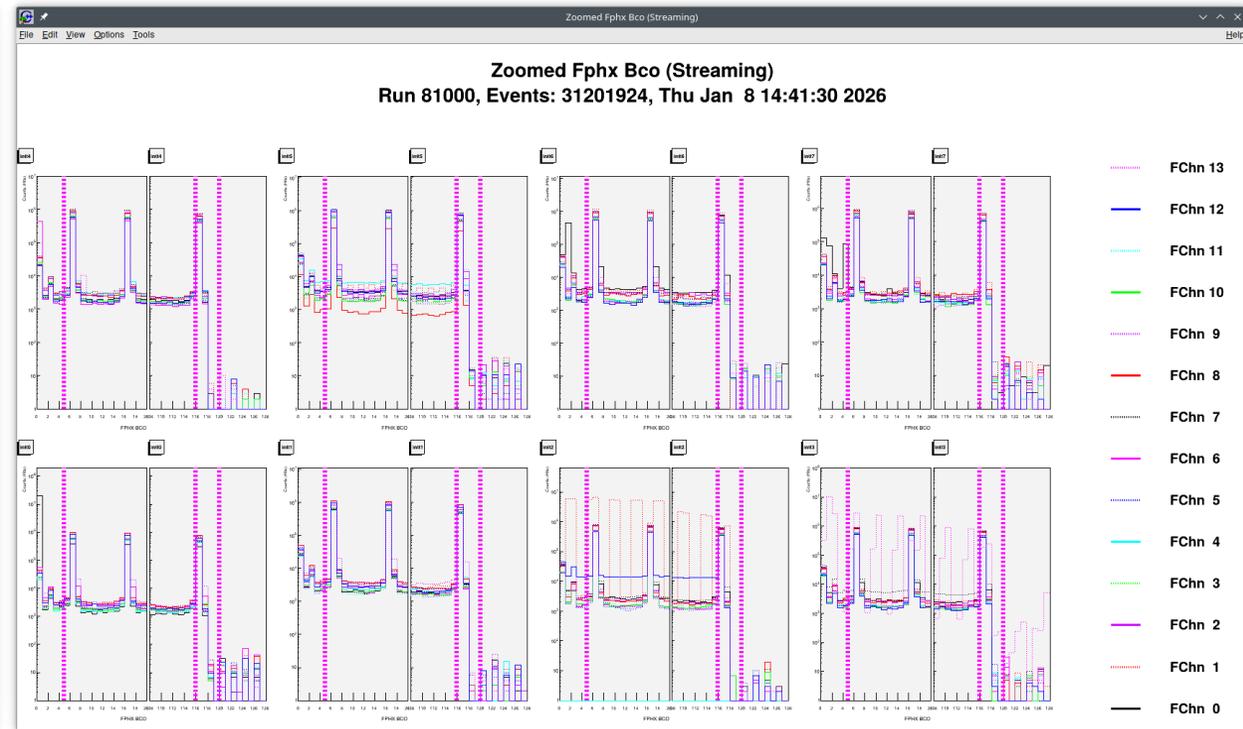
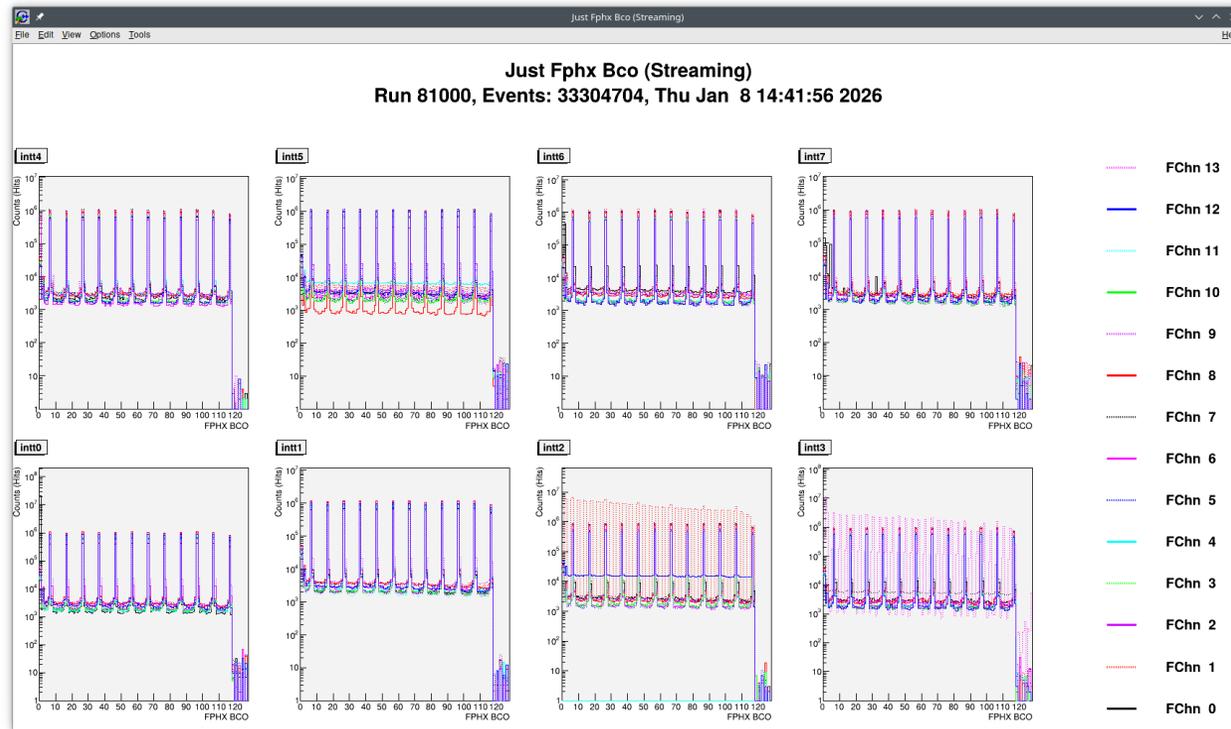
- The LV distribution boards which provide the LV to the FPGA has been replaced but it didn't fix the problem
 - We suspected a current sense resistor on it

Is there any other thing we can try without accessing the ROC?

- 1) Slightly increase the voltage of Megapak (e.g 0.1-0.2V) for the line to FPGA-C
There is a possibility that some extra voltage drop (a bit of additional resistance) between the LV distribution board and the first regulator on the ROC cause this issue.
- 2) Increase the chiller flow rate
The flow rate is decreasing from the summer because of the ambient temperature, but some of the components on the ROC would be affected by localized thermal distribution.



Is timing good for recent runs?



- 12x12 bunches data has been taken yesterday.
- Can we evaluate the timing to see any difference from the timing scan at the pp commissioning?

Tasks before the end of sPHENX operation

- After collisions plans:
 - Magnet on ~Jan 16ish - Feb 9
 - Magnet off Feb 9 - Feb 23
- Cosmic data for more than several hours in the triggered mode with the HCal coincidence trigger with/without the magnetic field for the detector study
- Anything else?

Shift schedule

- Now shift opens until Feb 24 (basically gas check shift).

Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Jan 13th - Jan 20th	Yeonju Go Brookhaven National Laboratory	0:00-8:00	Edward O'Brien Brookhaven National Laboratory	Ryotaro Koike Kyoto University	Yasuyuki Akiba RIKEN	Cheng-Wei Shih National Central University
		8:00-16:00	Hao-Ren Jheng Massachusetts Institute of Technology	Jeongsu Bok Pusan National University	Alex Patton Massachusetts Institute of Technology	Greg Ottino Lawrence Berkeley National Laboratory
		16:00-00:00	Mickey Chiu Brookhaven National Laboratory	Ming Liu Los Alamos National Laboratory	Chenliang Jin Stony Brook University	Anthony Frawley Florida State University
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Jan 20th - Jan 27th	Yeonju Go Brookhaven National Laboratory	0:00-8:00	Yasser Corrales Morales Massachusetts Institute of Technology			
		8:00-16:00	Valerie Wolfe Lehigh University	Shelby Pybus Lehigh University		
		16:00-00:00	Michael Peters Massachusetts Institute of Technology	Zhenyu Ye Lawrence Berkeley National Laboratory		
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Jan 27th - Feb 3rd		0:00-8:00	Sean Stoll Brookhaven National Laboratory	Chenliang Jin Stony Brook University		
		8:00-16:00	Akitomo Enokizono RIKEN			
		16:00-00:00	Cheng-Wei Shih National Central University	Anders Knospe Lehigh University		
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Feb 3rd - Feb 10th		0:00-8:00				
		8:00-16:00				
		16:00-00:00				
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Feb 10th - Feb 17th		0:00-8:00				
		8:00-16:00				
		16:00-00:00				
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Feb 17th - Feb 24th		0:00-8:00				
		8:00-16:00				
		16:00-00:00				

Travel schedule

- Any update?
- Clean up after the end of run
 - 1008 Mini-PC and monitors
 - Anything else?

	Month	Oct		Nov				Dec				Jan				Feb								
		9/30	10/7	10/14	10/21	10/28	11/4	11/11	11/18	11/25	12/2	12/9	12/16	12/23	12/30	1/6	1/13	1/20	1/27	2/3	2/10	2/17	2/24	
		10/6	10/13	10/20	10/27	11/3	11/10	11/17	11/24	12/1	12/8	12/15	12/22	12/29	1/5	1/12	1/19	1/26	2/2	2/9	2/16	2/23	3/2	
	Events		Riken				BARYONS			CM	AuAu→pp						Calibration							
	Beam Week	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Field on			Field off			
BNL	Rachid																							
BNL	Raul																							
Purdue	Wei																							
Purdue	Joseph																							
RIKEN	Yasuyuki		10/5	10/19							12/7	12/17			1/11		1/29							
RIKEN	Itaru			10/14			11/7				12/9						1/21							
RIKEN	Genki			理研公開準備	10/23		11/7																	
RIKEN	Akitomo					11/3			PeriodCod.	12/2		12/19		1/5			1/26			2/10		~2/25?		
RIKEN	Yuko						11/7			11/24		12/22												
RIKEN/NCU	Cheng-Wei								Semester Sep 1st ~ Dec 22nd							1/8					2/6			
NWU	Takashi						11/1	11/7																
NWU	Maya																							
NWU	Nao																							
NWU	Yui						11/3																12/26	
NWU	Mahiro																							
NWU	Itsuka									11/24													12/26	
NWU	UG students							<11/9?		11/24		12/16												
Rikkyo	Takahiro			10/14			11/7					12/9					1/15							
Rikkyo	Tomoki						11/3	Canada ca			12/5	12/9											1/21	
JAEA	Susumu																							
JAEA	Shoichi																							
NCU	Chia-Ming																							
NCU	Wei-Che																							
NCU	Shan-Yu																							
Korea Univ	Byungsik																							
Korea Univ	Jaein																							
Kyoto Univ	Ryotaro						11/02			12/2					1/11		1/21							
Kyoto Univ	Natsuki						11/02	11/11																