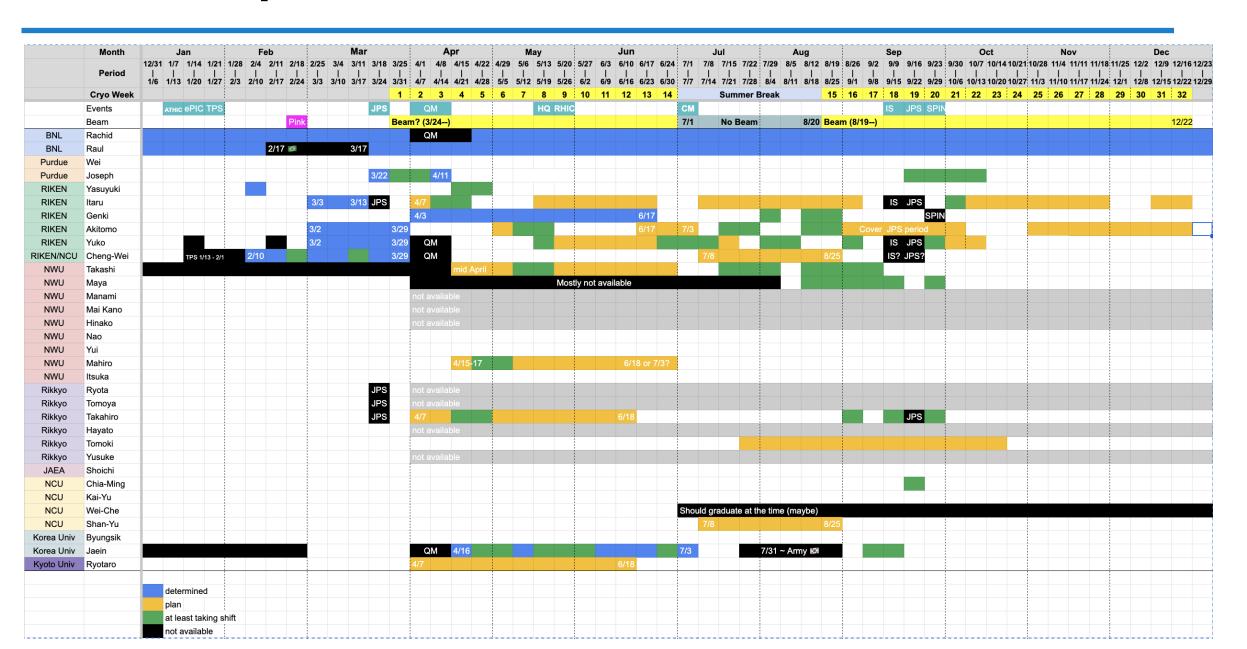
# Status at 1008

Yuko Sekiguchi RIKEN

## **INTT Group Travel Schedule**



## **INTT** manpower for commissioning

Joseph	~4/11
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Genki 4/2~

Ryotaro 4/7~

Takahiro 4/7~

Itaru 4/7~

Yasuyuki 4/13~

Takashi 4/15~

Mahiro 4/15~

Jaein 4/16~

## **To Do List During Commissioning**

https://docs.google.com/spreadsheets/d/1htkcbVkOhdixkYYMlCYj4p6Lr X5Tlg92cV-UOvlDumI/edit?gid=0#gid=0

Juga	ZCV-OOYIL	SPHENIX	it?gia=U#gia=U			
tep	Collider Requirement		Task	Events/Time Needed	Notes	Subsystem
			Check Signal+Background in Outer			
	Physics Collisions	Nothing	Donuts	60 minutes		Donuts
2	Single Yellow Beam	Nothing	Check background Outer Donuts	30 minutes		Donuts
,	Physics Collisions	Nothing	Inner Analog - 4 ch picoscope (or CAEN) to measure pulse-height of signal and background	60 minutes		Donuts
	Single Yellow Beam	Nothing	Inner Measure background	60 minutes		Donuts
	Physics Collisions	Nothing	Threshold scan to find where the rate drops to zero, leave thresholds above - probably after analog	60 minutes		Donuts
	5 Single Yellow Beam	Nothing	Set threshold between background and signal if there is a break between the two	60 minutes		Donuts
6	Single Blue Beam	Nothing	Check the variation in the donuts			Donuts
7	Physics Collisions	Nothing	Veto experimentation (if necessary and signals are good)			Donuts
8	1 bunch Yellow	MBD	Check extended mode		Can be done in parallel to 1 - 7	MVTX
Ş	1 bunch Blue	MBD	Check extended mode		Can be done in parallel to 1 - 7	MVTX
10	Low rate, physics (12x	Nothing (needs GTM signal)	MVTX streamed in baseline		Can be done in parallel to 1 - 7	MVTX
12	2 Low rate, physics (12x	MBD	MVTX in "extended" mode		Can be done in parallel to 1 - 7	MVTX
13	Low rate, physics (12x	MBD	MVTX in "triggered" mode		Can be done in parallel to 1 - 7	MVTX
14	Single Yellow, Single B	Beam parameter changes	MVTX in "streaming" mode			MVTX
15	Single Yellow, Single B	Beam parameter changes, MBD	MVTX in ?? (likely triggered mode)		Can be done in parallel to 1 - 7	MVTX
	Single Yellow, Single B	-	MVTX Clock trigger		Can be done in parallel to 1 - 7	MVTX
17	12x12 56x56 111x111		MVXT vs Donut scaling			M\/TX
	High rate trigger (>5kH		Carried over hit study (Trigger mode)	2 hours	Crucial	INTT
	111x111 bunches	MBD, INTT	Carried over hit study (Streaming mode)		Crucial	INTT
	Any condition	MBD, INTT	Chip saturation study	2 hours		INTT
	Fewer bunches (e.g les		INTT Timing Scan	60 minutes		INTT
	Single beam	MBD, INTT	Beam background study	30 minutes	Can run with MVTX	INTT
	Any condition	MBD, INTT	Digital control test	30 minutes		INTT
	Any stable condition	MBD	sEPD Gain scan	4 runs, can be parasit	Any other detectors are fine	sEPD

### Status in 1008

#### Summary of this & next week's activities

- Magnet operation
  - Monday March 24
    - Final magnetic sweep, close pole tip doors.
    - Magnet cooldown to ~4.5 K
  - Tuesday March 25
    - Interlock verification
    - The cold hipot for the sPHENIX Magnet was successfully performed at 10 AM on March 25, with no issues.
    - Magnet power supply test/ramp
- RHIC Status
  - Tuesday March 25 RHIC cold hipot (by Carl, Kin et. Al.) –
     (performed by the RHIC Power Supply group) encountered a problem.
  - Sweeps for beam in sPHENIX (TBD).
  - Next maintenance days are Apr. 9, Apr. 23



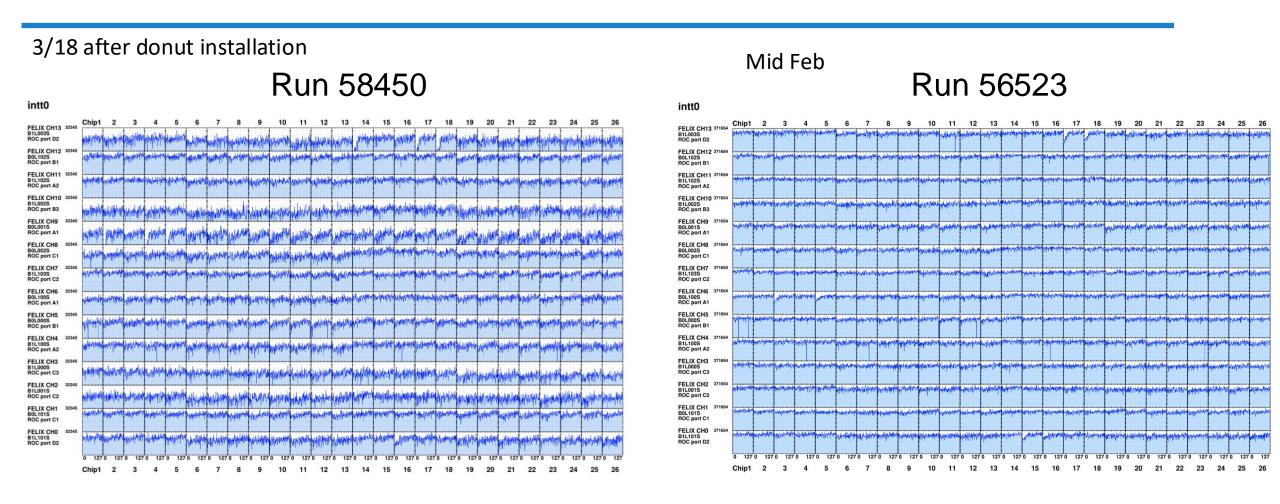
From the planning meeting on March 27

First beam collisions are likely to occur early next week.

### **INTT Status**

- The INTT is mostly in the big partition for cosmic data acquisition with the magnet on.
- The pedestal data is taken with the magnet on.
- The digital control test with pedestal is also conducted

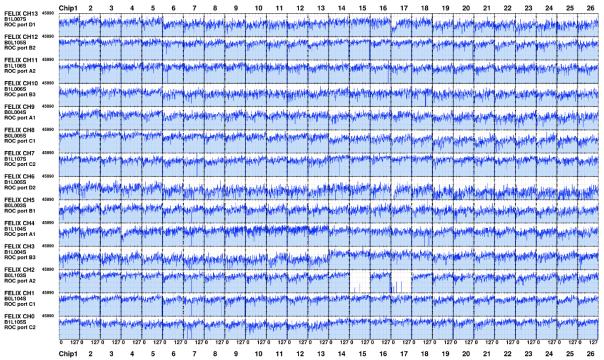
### INTTO



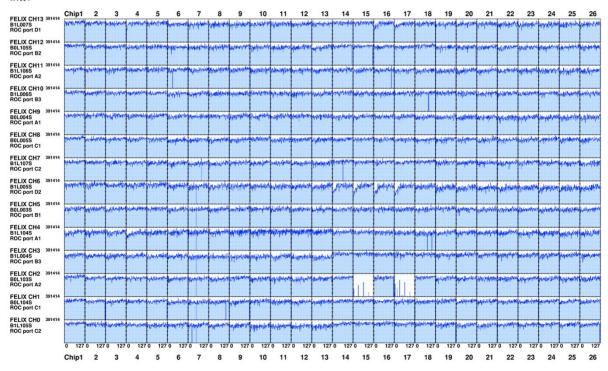
- XThe magnet is off in both runs.
- XThe left figure uses about 10% of the statistics used on the right.

#### Run 58450

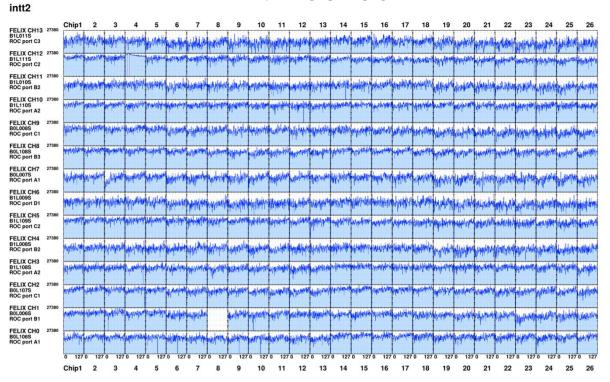


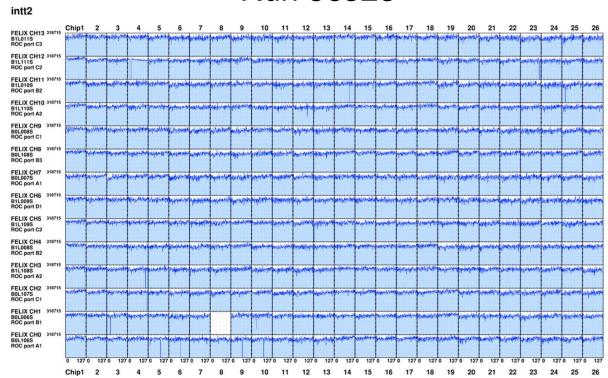




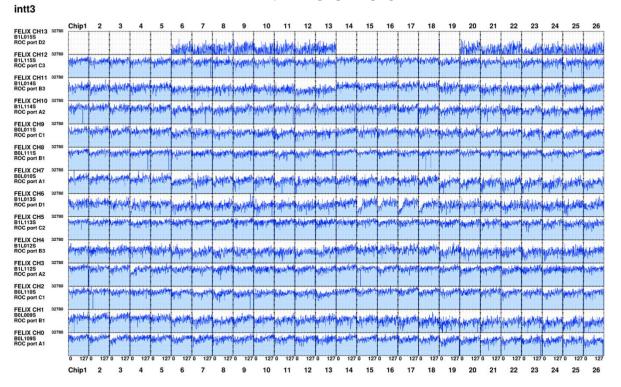


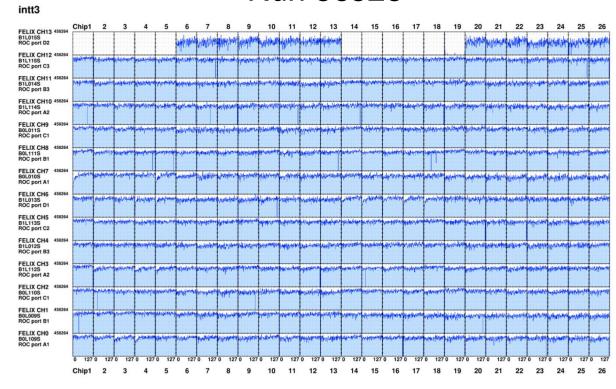




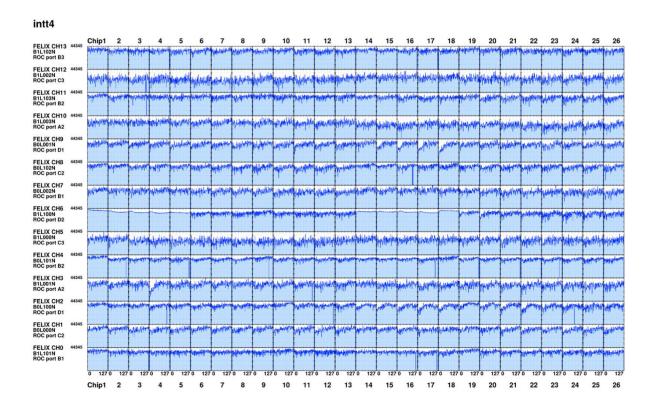


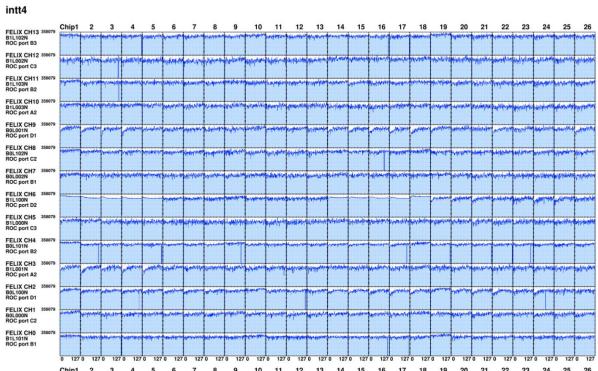




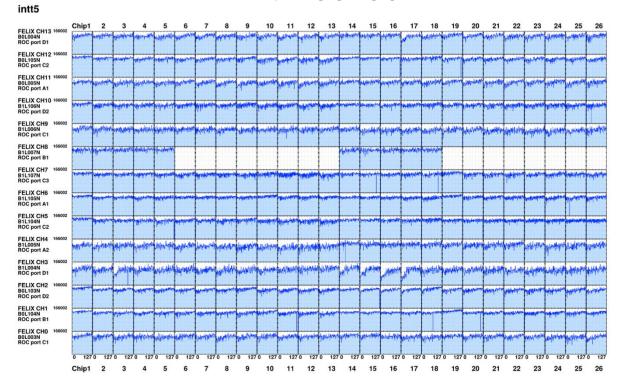


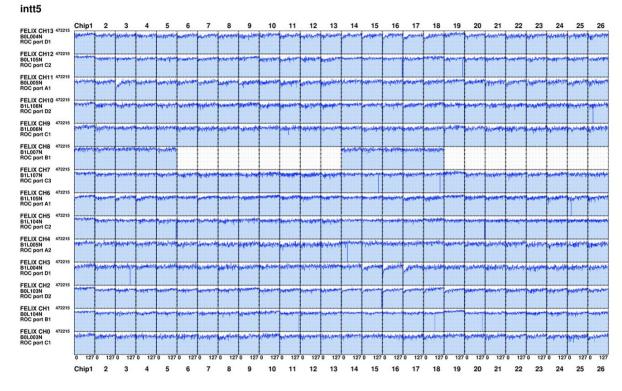
#### Run 58450



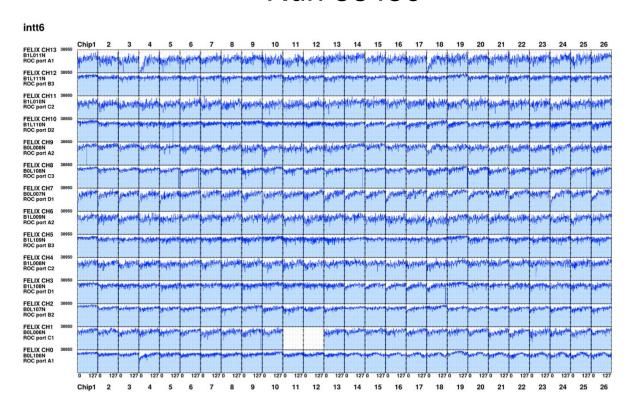




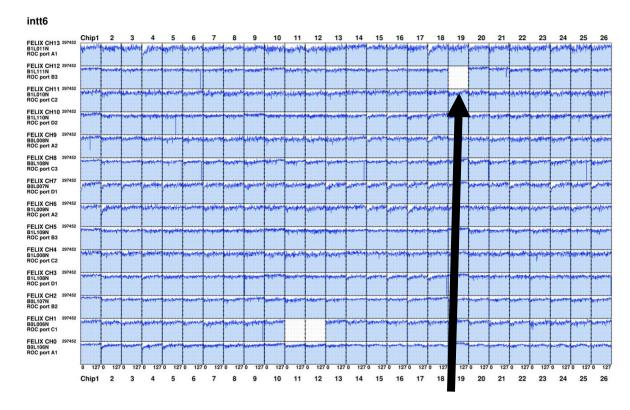




#### Run 58450

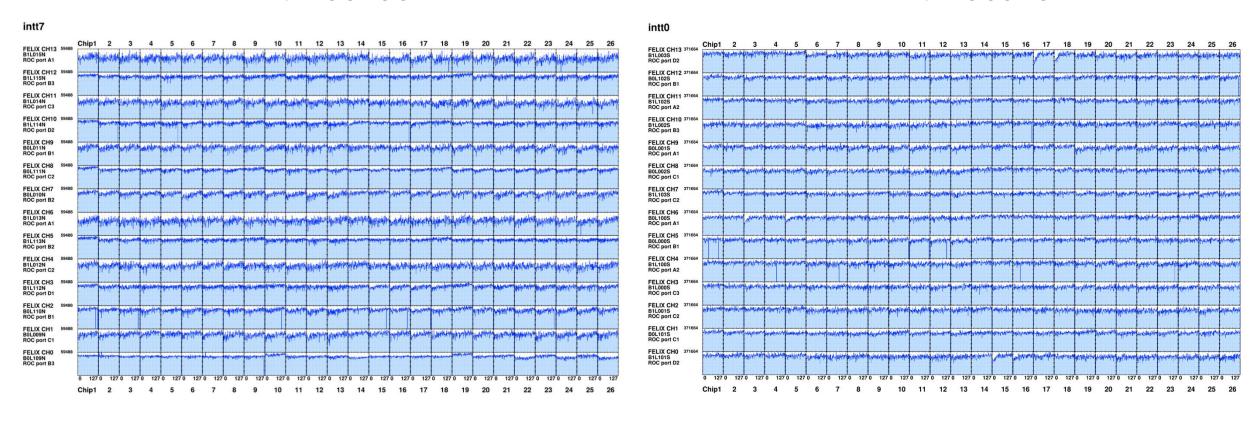


#### Run 56523

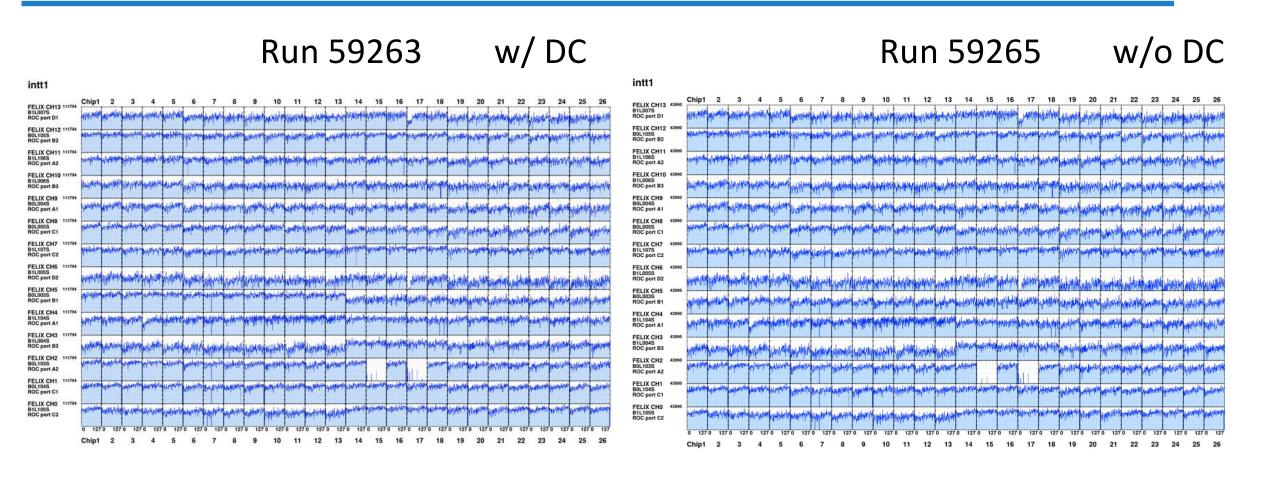


masked in Felix during run-24 (because one (two) hot channel(s)) to ensure stability of rcdaq

#### Run 58450



## **Digital control test**



# **Backup**

## **INTT Expert Duty**

- INTT expert is someone who is signed up below.
- The INTT exert should grasp the situation in 1008. The shift starts on Tuesday and runs until Monday.
  - Primary/secondary contact should receive calls from shifters and respond to INTT issues.
- The INTT expert should report INTT status at SCM and also report 1008 status at weekly INTT meeting.

MBD		Calorimeters Trainee =	TPOT =	TPC	F INTT	MVTX	sEPD =
Mickey Chiu			(see current exp	ert list instead)	Rachid Nouicer (631-652-5042)	(see expert call list instead)	(see current expe
Rivek Raj Tamang - Secu Do not click on https://ww https://www.linkedin.com	ww.evil.com						
Mickey Chiu	Skaydi Grossberndt (914-282-7346)	)		Charles Hughes (850-257-6313) & Tom Hemmick (516)982-1403	Rachid Nouicer (631-652-5042)	Ming Liu (505-412-7396)	NA
Mickey Chiu	Anthony Hodges (901-230-0597)			Charles Hughes (850-257-6313) & Tom Hemmick (516)982-1403	Rachid Nouicer (631-652-5042)	Ming Liu (505-412-7396)	NA
Mickey Chiu	Emma McLaughlin (5169871557)	Nikhil Kumar(3476864924)		Charles Hughes (850-257-6313) & Tom Hemmick (516)982-1403	Akitomo Enokizono (934-226-7791)	Yasser C(786-774-1546), Ming Liu (505-412-7396) Hao-Ren Jheng (at BNL, 617-949-6516)	3)
Mickey Chiu	Skaydi Grossberndt (914-282-7346)	) Nikhil Kumar(3476864924)		Charles Hughes (850-257-6313) & Tom Hemmick (516)982-1403	Akitomo Enokizono (934-226-7791)	Yasser C(786-774-1546), Hao-Ren Jheng (at BNI 617-949-6516)	-,
Mickey Chiu	Skaydi Grossberndt (914-282-7346)	) Nikhil Kumar(3476864924)		Tom Hemmick (516-982-1403) + Takao Sakaguchi (516-380-0912)	Yuko Sekiguchi (631-578-2029)	Hao-Ren Jheng (at BNL, 617-949-6516)	
Mickey Chiu	Anthony Hodges (901-230-0597)			Charles Hughes (850-257-6313) & Tom Hemmick (516)982-1403	Joseph Bertaux (317-385-3985)	Ming Liu (505-412-7396)	
Mickey Chiu	Anthony Hodges (901-230-0597)			Charles Hughes (850-257-6313) & Tom Hemmick (516)982-1403	Joseph Bertaux (317-385-3985)	Cameron Dean (505-309-1097)	
Lameck Mwibanda				Charles Hughes (850-257-6313) & Tom Hemmick (516)982-1403	Genki Nukazuka (631-816-3268)	Cameron Dean (505-309-1097)	

## **Team Phone for INTT expert**

Matters that require attention:

## Only for INTT expert shift use

Please do not allow others to use the phone just because no expert is currently using it.

- You cannot use this number for personal accounts such as banking or What's Up
- Not permitted for travel, even for one-day trips (e.g. New York City)
- Return the phone to Ito-san/RIKEN staff when you leave BNL
- If you have any problems/quetions with this phone, please contact Yuko.
- No exceptions will be allowed. If a violation is discovered, the usage permission will be terminated immediately.