INTT general topics

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Summer collaboration meeting + workfest

This week	11	12	13	14	**15**	16	17
AUM25	18	19	20	21	22	23	24
RHIC beam	25	26	27	28	29	30	31
June	1	2	3	4	5	6	7
Ramp up	8	9	10	11	12	13	14
Workfest	15	16	17 PAC	18	19	20	21
Coll. Meeting	22	23	24	25	26	27	28
	29	30	1	2	3	4	5
	6	7	8	9	10	11	12

- Thanks everyone for inputs from the last (pre)GMs!
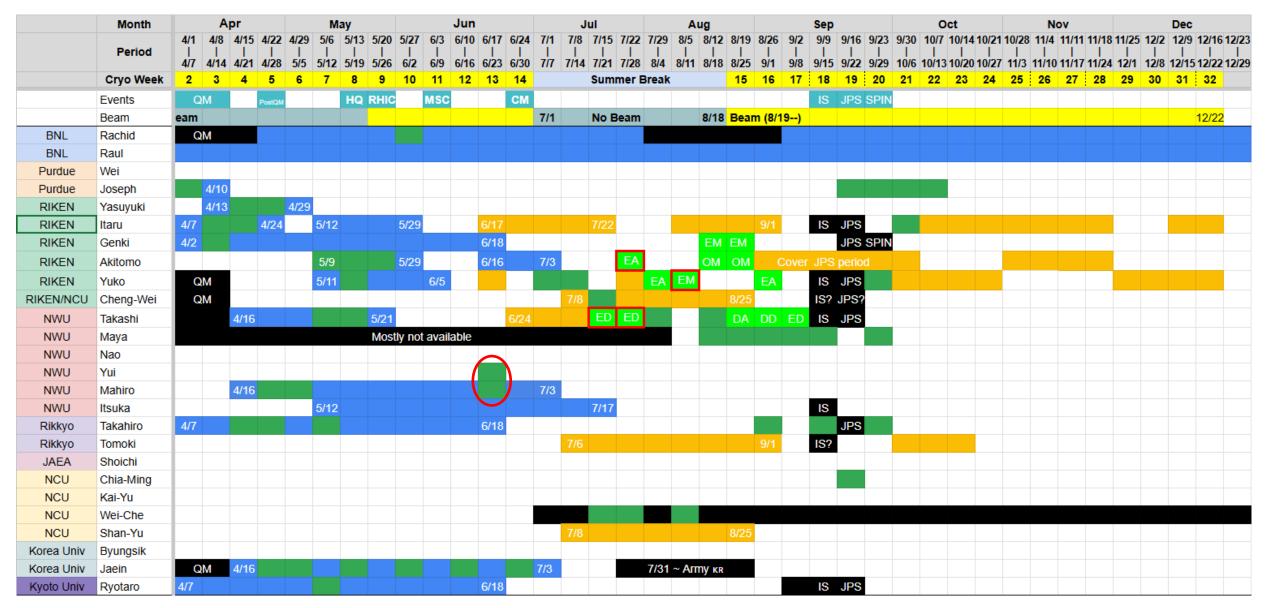- The latest RHIC schedule has cool down completed on May-27, and collision start around June 1st. → 現在のところ６月２日頃
- Deep data check workfest June 16-27
  - Timing determined by first collision day + two week for MVTX commissioning and data collection
  - Focus is to Run25 data check using analysis as in-depth as we could muster
  - Sessions/teams organized by calibration&reco groups/TGs
  - Overlap with PAC-update meeting on June 17, which should be OK
- Collaboration meeting June 23-27 (merged with the workfest)
  - Format: morning talks with a topical focus for each day. Work time and workfest parallel sessions in the afternoon
  - Daily topics:
    - Mon: Overviews, IB meeting
    - Tue: Tracking detectors
    - Wed: tracking calibration, tracking reco, HF/Q TGs
    - Thu: Calo/DAQ
    - Fri: calo calibration, jet, spin, bulk TGs
  - Goals: review collaboration status, summarize data check workfest, shaping message for summer PAC/IS25

Megan Connors (GSU), Jin Huang (BNL)

197th sPHENIX Fortnightly Meeting

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BNL travel and shift schedule

Month		Apr				May				Jun				Jul				Aug				Sep				Oct				Nov				Dec		
Period		4/1–4/7	4/8–4/14	4/15–4/21	4/22–4/28	4/29–5/5	5/6–5/12	5/13–5/19	5/20–5/26	5/27–6/2	6/3–6/9	6/10–6/16	6/17–6/23	6/24–6/30	7/1–7/7	7/8–7/14	7/15–7/21	7/22–7/28	7/29–8/4	8/5–8/11	8/12–8/18	8/19–8/25	8/26–9/1	9/2–9/8	9/9–9/15	9/16–9/22	9/23–9/29	9/30–10/6	10/7–10/13	10/14–10/20	10/21–10/27	10/28–11/3	11/4–11/10	11/11–11/17	11/18–11/24	11/25–12/1	12/2–12/8	12/9–12/15	12/16–12/22	12/23–12/29
Cryo Week		2	3	4	5	6	7	8	9	10	11	12	13	14	Summer Break									15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Run25 commissioning to do list

Task	Person in Charge	Duration	Points	Beam condition	Other subsystem	Priority	Field	Trigger	Comment	code	plot
Chip saturation study	DAQ: 1008 guys Analysis: Ryotaro Support: Cheng-Wei	10 mins for each	INTT in trigger mode Different open time 25, 40, 60, 80, 90, 110, 127 moderate ncollision, 2, 50, 100 If possible we need the long GTM busy window for this test	with collisions (with low rate)	With MBD, in global mode	High	Any	MBD	This is to study the chip hit saturation issue discovered on Dec 10 2024. Whether we still see the cutoff in the chip nhit distribution even with the open time of 128 BCO? We also need to check the cluster phi size distribution We can also try to learn the correlation between the open_time and nhits	https://github.com/ChengWei Shih/INTT/tree/main/general _codes/CWShih/INTTRawHit SanityCheck	
Carried over hit study	DAQ: 1008 guys Analysis: Ryotaro Support: Cheng-Wei	30 mins	INTT in trigger mode moderate open_time (80 or 128) ncollision 1 or 2 or 3 Short GTM busy window for this test	with collisions (with high rate)	With MBD, in global mode	High	Any	MBD	As of Nov 25 2024, I think we never have the dataset with very narrow ncollision for the event-mixed-up study With the statistic approach, in the reality, we just cannot distinguish b/w mix-up hits and the hits from real collisions. So it's good to have such a dataset that we have the potential to believe that any abnomal behavior found in the data can be really came from anything other than the really collisions. In addition, by comparing with the previous dataset with ncollision 100, we can possibly learn where the event mixup happened.	https://github.com/ChengWei Shih/INTT/tree/main/general _codes/CWShih/INTTRawHit SanityCheck	
Timing coarse delay scan	DAQ: 1008 guys Analysis: Ryotaro Support: Genki	5 min x 6 points x 2 sets	lvl1 = 112, 113, 114, 115, 116, 117	With collisions	With MBD, standalone	High	Any	MBD	After GTM is finalized	Under development by Ryotaro	
DAC0 scan	DAQ: 1008 guys Analysis: Nao Support: Akitomo	5 min x 6 points x 2 sets	DAC0 = 15, 20, 25, 30, 35, 40	better to be with beam	Standalone	Middle	Any	MBD	Better to take data in the same condition as Run2024 Au+Au commissioning, i.e. with Au+Au beam, with other subsystems on.	Under development by Nao	
Digital control test	DAQ: Takahiro Analysis: Tomoki Support: Itaru	5 min x 2 points x 2 sets	Digital Ctrl = 2, 10	With collisions	Standalone	High	Any	Any	First try the digital control test with pedestal data with no collisions. If it's not successful, retry to take data with collisions.	Under development by Tomoki	
Renew chip/channel mask	DAQ: 1008 guys Analysis: Jaein Support: Rachid/Raul	1 min w/ FA	Need some iterations	With collisions	Standalone	Must	Any	Any	~~Can be finished before Au beam comes.~~ This work will should be performed AFTER 1 week of stable data taking using the current mask condition. Also need Raul to unmask FELIX chip masking		
Single bunch crossing	DAQ: 1008 guys Analysis: ?? Support: ??	10 mins?	one run ncollision 100 one run small ncollision	single or two bunch crossing(s) with collisions	Join the MVTX commissioning	Low	Any	Any	We never join the MVTX commissioning data taking. I think it's a good idea to take at least one run with single bunch crossing or five. We can learn the noise level and also the beam background, and also fraction of the hit moved to the next bin		Normalized ADC distribution
Hit rate study with/without collar	DAQ: 1008 guys Analysis: ?? Support: ??	10 mins?	one run ncollision 100 one run for each configuration small ncollision	single or two bunch crossing(s) with collisions	Join the MVTX commissioning	Low	Any	Any		?	Normalized ADC distribution

誰かボランティアしませんか？

国際会議・学会

- Initial Stages 2025 (https://indico.cern.ch/event/1479384/)
  - 会期・会場：９月７日〜１２日, 国立中央大学, 台湾
  - 講演申込期限：Closed
  - 学生補助申し込み期限：５月３１日 (指導教官からの手紙も必要）

- 日本物理学会 第８０回年次大会
  - 会期・会場：９月１６日〜１９日、広島大学・東広島キャンパス
  - 講演申込期限：７月３日、１４時

- SPIN 2025
  - 会期・会場：９月２２日〜２６日、Qingdao Haitian Hotel、中国・青島市
  - 講演申込期限：６月３０日