

INTT 日本語ミーティング 2024/06/21

INTT日本語ミーティング



📅 Friday 21 Jun 2024, 09:00 → 11:00 Asia/Tokyo

Description *Meeting URL

Zoomミーティングに参加する
<https://zoom.us/j/93991701519>

ミーティングID: 939 9170 1519
ワンタップモバイル機器
+13462487799,,93991701519# 米国 (Houston)
+16699006833,,93991701519# 米国 (San Jose)

所在地でダイヤル
+1 346 248 7799 米国 (Houston)
+1 669 900 6833 米国 (San Jose)
+1 929 205 6099 米国 (New York)
+1 253 215 8782 米国 (Tacoma)
+1 301 715 8592 米国 (Washington DC)
+1 312 626 6799 米国 (Chicago)
+81 3 4578 1488 日本
+81 363 628 317 日本
+81 524 564 439 日本
ミーティングID: 939 9170 1519
市内番号を検索: <https://zoom.us/u/adlmUqtJ8b>

09:00 → 09:15 コミュニケーション等

🕒 15m

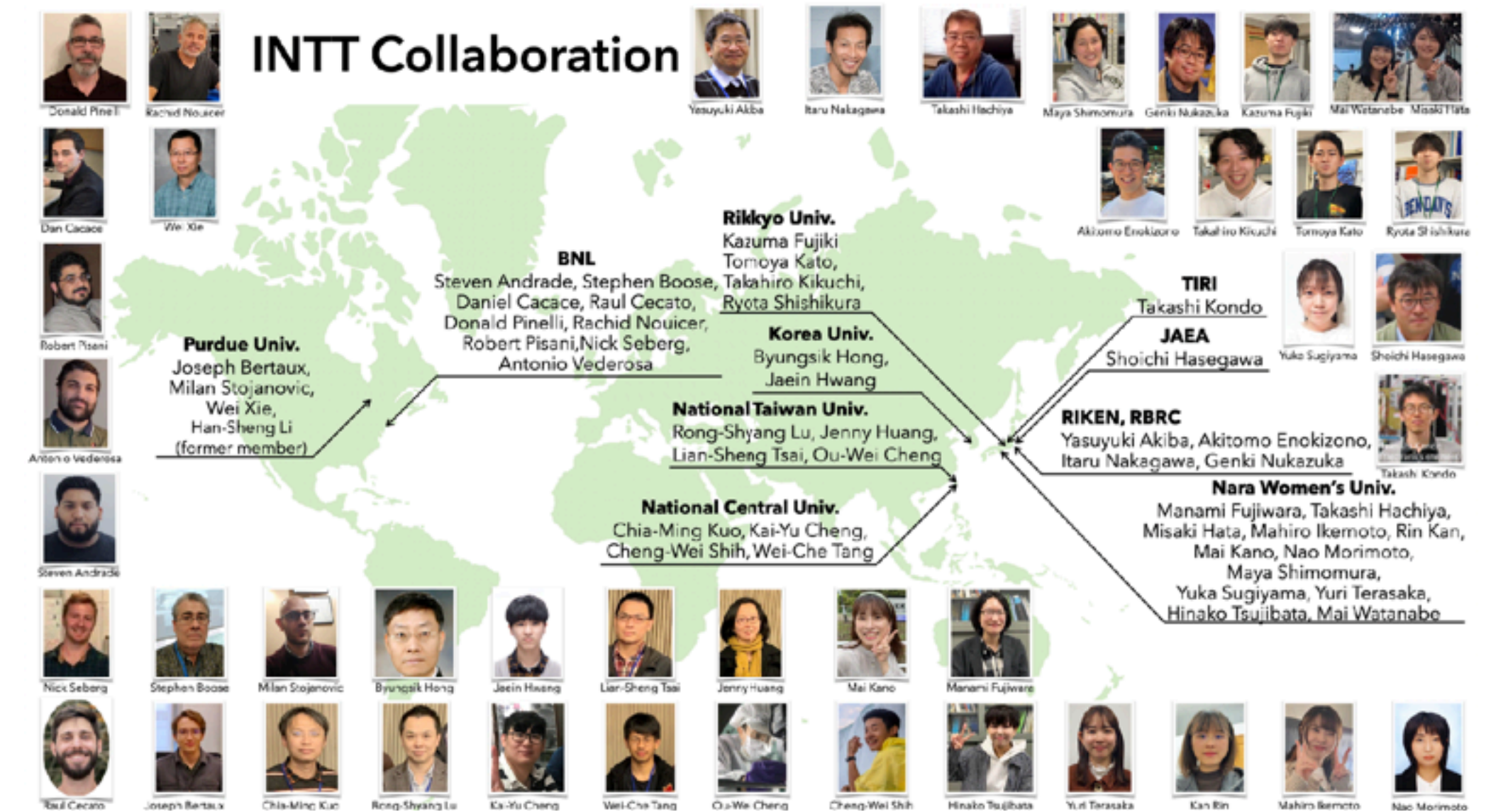
Speaker: radlab phenix (riken)

ミーティング日程: 毎週金曜日 09:00 (JST)

新人へ

やってほしいこと

- INTT 日本語ミーティングでの自己紹介
- INTT 全体ミーティングでの自己紹介 (?)
- メールアドレスを教えてください
- INTT 日本グループのメーリングリストへ加入
- 理研 Indico のアカウント作成
- Google カレンダー共有 (任意)
- Slack 加入?
- 写真を糠塚にください。INTT メンバーリストのスライドに足します。
- BNL アカウント取得
- あとは?



これからの BNL 滞在予定

糠塚：7, 8 月中に 2 週間ほど帰国予定 ← NEW

糠塚：JPS 前に帰国 ← NEW

	A	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ			
1		Month	6					7					8					9					10							
2		Week	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5			
3		Event	SQM RHIC					ICHEP					NN					JPS HP					KPS							
4	RHIC projection	pp→AuAu→pp	5.5 weeks (timing tbd)					pp, 9 weeks																						
5	Latest scenario		AuAu, 5.5 weeks (timing tbd)					pp, 9 weeks																						
6	BNL	Rachid																												
7	BNL	Raul																												
8	Purdue	Wei																												
9	Purdue	Milan																												
10	Purdue	Joseph																												
11	RIKEN	Yasuyuki	6/9	6/14		6/29		6/30	7/12																					
12	RIKEN	Itaru																												
13	RIKEN	Genki																												
14	RIKEN	Akitomo																												
15	RIKEN/NCU	Cheng-Wei	6/2	6/16				7/12						8/16													↑ some overlap	~10/31あたり		
16	NWU	Takashi																												
17	NWU	Maya																												
18	NWU	Manami																												
19	NWU	Mai Kano																												
20	NWU	Hinako																												
21	NWU	Mahiro																												
22	NWU	Nao																												
23	NWU	Yui																												
24	NWU	Yuka																												
25	NWU	Misaki																												
26	NWU	Mai Watanabe																												
27	NWU	Kan																												
28	NWU	Yuri																												
29	Rikkyo	Ryota																												
30	Rikkyo	Tomoya																												
31	Rikkyo	Kazuma																												
32	Rikkyo	Takahiro																												
33	JAEA	Shoichi																												
34	NCU	Chia-Ming																												
35	NCU	Kai-Yu																												
36	NCU	Wei-Che																												
37	NTU	Rong-Shyang																												
38	NTU	Lian-Sheng																												
39	NTU	Yu-Chen																												
40	NTU	Tzu-Chuan																												
41	Korea Univ	Byungsik																												
42	Korea Univ	Jaemin																												

- * 6/19 Heavy Ion Pub@阪大
 - * 8/6 - 8/8 チュートリアル研究会@阪大
- Hard Probe に向けて予備知識をつける!

Cheng-Wei からのメッセージ：
 Cha-Ming Kuo の以下のシフト
 8/27-9/3 16:00-0:00 (Data Monitor Operator)
 を誰か取ってくれないか？

シフト申請はまず指導教員に相談してください。 [リンク](#)

Shift trading market today

	A	B	C
1	5/10/2024	Willing to give up shifts	
2			
3	Name	Email Address	Period of shift that one is willing to give up
4	Jordan Dias-Gaylor	jordan.j.dias-gaylor@vanderbilt.edu	08/06-08/13 (DAQ Operator)
5	Sookhyun Lee	dr.sookhyun.lee@gmail.com	08/13-08/20 16:00-0:00 (Shift Leader)
6	Bade Sayki	badesayki@lanl.gov	07/16-07/23 08:00 - 16:00 (Detector Operator)
7			
8	Jakub Kvapil	jakub.kvapil@cern.ch	Jul 30th - Aug 6th 08:00-16:00 (Detector Operator)

←Ralf と一緒。おすすめ

F	G	H
	Looking for shifts to take	
Name	Email Address	Period of shift that one wants to take
Jordan Dias-Gaylor	jordan.j.dias-gaylor@vanderbi	Any Shift in June and July for DAQ Operator or Data Monitor Operator
Dylan Neff	dylan.neff@cea.fr	7/23-7/30 Anything but shift leader
		Any Shift in June and July for DAQ Operator or Data Monitor Operator
Bade Sayki	badesayki@lanl.gov	Any non-owl shift in Aug or mid-late september

これからの学会

せっかく INTT の結果があるので、発表したいですね
Google カレンダーにはすでに記載しています。

名称	日程	場所	参加登録	リンク	備考
CPOD2024	2024/05/20-24	アメリカ カリフォルニア, LBL	アブスト： ~Mar/1	Link	
SQM2024	2024/06/03-07	フランス ストラスブルグ	アブスト： ~Feb/17	Link	dN/dη アブスト提出 Jaein INTT ポスター?
Transversity 2024	2024/06/03-07	イタリア トリエステ	03/20~	Link	
RHIC/AGS	2024/06/11-14	BNL	?	?	?
ICHEP	2024/07/17-24	チェコ プラハ	アブスト 受付開始	Link	
NN2024	2024/08/18-23	カナダ British Columbia	アブスト： ~Jan/26	Link	dN/dη(中川 CW 推し)
日本物理学会	2024/09/16-19	北海道大学札幌キャンパス	まだ	まだ	
HP2024	2024/09/22-27	長崎	まだ	まだ	
PacSpin2024	2024/11/09-12	中国・合肥	~2024/09	Link	糠塚

Hard Probe 2024

発表予定

・ 糠塚：INTT 性能評価・全体的な話

The sPHENIX collaboration has been taking data since 2023 at the Relativistic Heavy Ion Collider in BNL to study the Quark-Gluon Plasma and cold-QCD. A detector complex consisting of the solenoid magnet, a hadron calorimeter, an electromagnetic calorimeter, a time projection chamber, a MAPS-based vertex detector, and the intermediate silicon tracker (INTT). A tracking system formed by the three latter detectors enables us to measure the heavy flavor jets and identify the three upsilon states. The INTT surrounding the collision point azimuthally at about 10 cm away with two layers of silicon strip sensors detects hit points at the intermediate area of the tracking system to have better tracking precision. In addition to that, the INTT also provides timing information of the hits, which is possible only by INTT, thanks to its good timing resolution, to eliminate pile-up events by misidentifying bunch-crossing. This poster presentation will show the status of commissioning with proton-proton collision runs this year and achievements using Au-Au collision data taken in 2023.

・ 辻端：Tracking

The sPHENIX experiment has been taking data using RHIC (Relativistic Heavy Ion Collider) at Brookhaven National Laboratory since May 2023. It aims to reveal the nature of Quark-Gluon-Plasma and nucleon structure. INTT (Intermediate Tracker) is one of the sPHENIX tracking detectors which covers full azimuthal angles and pseudorapidity within $|\eta| < 1.1$. Only INTT has a good timing resolution less than single bunch crossing time (~ 106 ns) among sPHENIX detectors which prevents pile-up phenomena even in high rate circumstances. In order to make use of this feature, we have been developing a tracking algorithm using INTT. Tracks are reconstructed in the following procedure. INTT can detect hits (the positions where particles pass) using two-layer barrels. As the first step, one hit in the inner barrel and another hit in the outer barrel are selected as track seeds. Then, the collision point is calculated using multiple track seeds. In the final step, tracks are optimized with the track seeds and the collision point. This algorithm has been applied to simulation data and proton-proton collision data taken this year. This poster presentation will show the progress in the development of a tracking algorithm.

・ 池本：Vertex, Alignment(?)

The sPHENIX experiment has been taking data since 2023 at the Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory, USA. This experiment aims to study the properties of the Quark-Gluon Plasma and incorporates the intermediate silicon tracker INTT that we have developed. The INTT consists of two cylindrical layers of silicon detectors that can precisely measure the passage positions of charged particles. By using the collision point (vertex) of ions and the measurement points from the INTT, we can reconstruct the particle tracks. However, the INTT has lower resolution and a wider beam closing in the z-axis than in the x and y axes. It is necessary to determine the vertex positions accurately, especially along the z-axis. Additionally, discrepancies can occur between the actual position of the detector and its theoretical position. Such discrepancies cause measurement points to shift, leading to incorrect track reconstruction. To correct for this, it is necessary to align the detector positions in the software, a process called alignment. This poster presentation will show the development process of the vertex reconstruction method and report on the current status of alignment verification using proton-proton collision data obtained in 2024 with the optimal vertex positions.



12th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions

22-27 Sept 2024
DEJIMA MESSE NAGASAKI
Asia/Tokyo timezone

- Overview
- Scientific Programme
- Timetable
- Call for Abstracts
- Registration/Apply for Young Scientist Support
- Announcement
- Code of Conduct
- Important Dates
- Young Scientist Support
- Conference Fee
- Accommodations
- Travel Information
- Tourist Information
- Committees
- Setellite Meeting
- Previous Conferences

Contact
✉ hp2024-contact@cern.ch



The 12th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2024, HP2024) will take place in Nagasaki, DEJIMA MESSE NAGASAKI, in Japan from 22nd September until 27th September 2024.

The student lectures will take place on Sunday, September 22nd.

The conference is focused on experimental and theoretical developments on perturbative probes of hot and dense QCD matter as studied in high-energy nucleus-nucleus, proton-nucleus and proton-proton collisions. Specifically, topics for discussion will include:

- Jet modification and medium response
- High momentum hadrons and correlations
- Heavy quarks and quarkonia
- Electromagnetic and electroweak probes
- Nuclear PDFs, saturation and early time dynamics
- Future experimental facilities and new techniques

The conference is in-person only.

🕒 Starts 22 Sept 2024, 08:00
Ends 27 Sept 2024, 16:00
Asia/Tokyo

📍 DEJIMA MESSE NAGASAKI
4-1, Onsuemachi, Nagasaki City, Nagasaki, 850-0058
Japan
[Go to map](#)

👤 Tetsufumi Hirano (co-chair)
Kezunori Itakura (co-chair)
Ken Oyama (co-chair)

- 📄 HP2024-1st Bulletin.pdf
- 📄 HP2024-2nd Bulletin.pdf
- 🖼️ HP2024 Logo1.png
- 🖼️ HP2024 Logo1 Square.png
- 🖼️ HP2024 Logo2.png
- 🖼️ HP2024 Logo2 Square.png

📄 Registration
Registration for this event is currently open [Register now](#)

<https://indico.cern.ch/event/1339555/>

これからの学会

[Sphenix-I] The sPHENIX Speakers Bureau is seeking nominations/volunteers

M sPHENIX-I<sphenix-l-bounces@lists.bnl.gov> が Marzia Rosati via sPHENIX-I<sphenix-l@lists.bnl.gov> の代理で送信
宛先: Akitomo Enokizono via sPHENIX-I <sphenix-l@lists.bnl.gov>



2024/06/20 (木) 12:15

ATT00001.txt
454 バイト

Dear sPHENIX Collaborators,

The Speakers Bureau is seeking nominations/volunteers to present the sPHENIX overview at the [XIII International Conference on New Frontiers in Physics \(ICNFP 2024\)](#), which will take place from **26 August to 4 September 2024 in the Orthodox Academy of Crete (OAC), Kolymbari, Crete, Greece**. The conference website is at <https://indico.cern.ch/event/1307446/> The conference also invites oral presentations on other topics, which can be presented physically at the conference venue on Crete, or online via zoom. sPHENIX internal abstract deadline is June 27.

If you are interested in giving a talk on a sPHENIX related topic please fill the nomination form at <https://forms.gle/oH8meQxAoewzCJ418> or email the speakers' bureau at sphenix-sb@iastate.edu

Best Regards

Marzia

=====
Marzia Rosati (she/her/hers)
Professor, Department of Physics & Astronomy
Iowa State University
Email: mrosati@iastate.edu
Phone: (515) 294-8573
=====

日本物理学会

一般講演の申し込みが始まりました。申し込みは早めに行いましょう。申し込む前に、INTT 日本グループのメーリングリストへ通知するのがいいと思います。

発表予定

- ・ 中川：sPHENIX スピン（核子構造セッション）
- ・ 糠塚：INTT 性能評価（検出器？核子構造？）
- ・ 加納：Event mix-up（検出器）
- ・ 蜂谷：EIC 検出器（シンポジウム）
- ・ CW: $dN/d\eta$ (QGP セッション?)

講演概要提出締切は 7/23 です。

The screenshot shows the website for the 79th Annual Meeting (2024) of the Japanese Physical Society. The header includes the JPS logo and the text "一般社団法人日本物理学会" and "The Physical Society of Japan". Navigation links for "事業要項", "申込手順", "講演概要集印刷", "個人情報の取り扱い", and "English" are visible. The main content area is titled "第79回年次大会 (2024年)" and "一般講演申込・修正・決済 (クレジットカード、コンビニ決済)・取消・原稿送信". There are four buttons with their respective deadlines:

一般講演を申し込む (マイページへ)	講演の修正、決済 (領収書)	講演を取消する	一般講演原稿の送信、修正をする
5月21日9時 受付開始 ～6月5日14時締切	5月21日9時 受付開始 ～6月5日14時締切	5月21日9時 受付開始 ～6月5日14時締切	5月21日9時 受付開始 ～7月23日14時締切予定

Below the buttons, there are several notes in Japanese:

- *非会員の方は、お申し込みいただくことができませんので、「物理学会入会」よりお手続きたい上、講演をお申し込みください。
- *講演発表者（登壇者）としての講演申込は、特別な場合を除いて1人1件までです。（申込件数は、秋季大会と異なりますのでご注意ください。）
- *概要集原稿の書き方、テンプレートは上部メニューに掲載しております。
- *登録終了後、登録内容をE-Mailでお送りしております。必ずE-Mailをご確認ください。
- 届かない場合は正常に登録されていない可能性がありますので締切までに jps_gakkai24@gakkai-web.net 宛にご連絡ください。

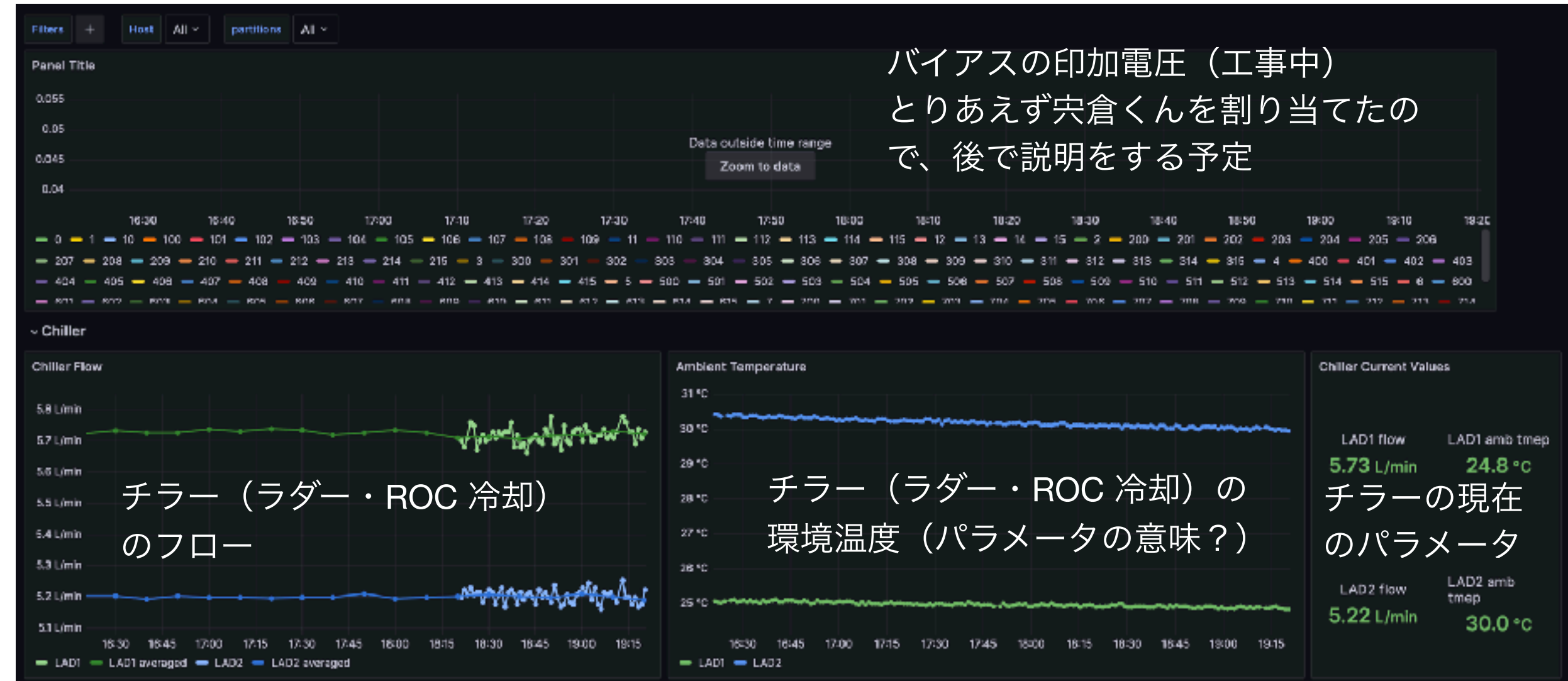
タスク分配

Tasks not assigned

- [Online] LV monitoring with Grafana
- [Online] Ladder temperature monitoring with Grafana
- [Online] Updating channel mask
- [pp] Updating hot channel determination algorithm
- [pp] Offline QA together with Thomas
- [pp] Logging more information, which is made by run.py
- [pp] Logging FPHX configuration history to the sPEHNIX PostgreSQL in 1008
- [pp] Logging FELIX parameters (open_time, etc.) to the sPHENIX PostgreSQL in 1008
- [pp] Detection efficiency study using pp data

+ Add a card

Grafana INTT モニターの現状



←ホットチャンネル解析

←ホットチャンネル解析

←QA (データ品質管理) ジョセフが最適?

←設定値を SQL データベースに記録

←設定値を SQL データベースに記録

←設定値を SQL データベースに記録

←INTT, EMCal を使った INTT 検出効率解析

他にタスクありませんか?

- ・文章作成 (個々の案件)
- ・文章チェック← wiki 整頓時に自動で行われるはず
- ・Wiki 整頓 (榎園)

sPHENIX INTT Wiki

だんだんわかりにくくなってきたので、榎園さんが再構築中

The screenshot shows the sPHENIX Wiki page for the Intermediate Tracker (INTT). The page is structured with a navigation sidebar on the left and a main content area. The main content area includes a 'Contents list' with a table of contents, a 'General information' section, and a 'Hardware configuration' section. A table of parameters is also present.

Element	Value	Unit
Beam velocity	70	km/s
Beam length	1.5	cm
Beam diameter at one end	1.2	cm
Beam diameter at the other end	1.2	cm
Average length	1.5	cm
Average diameter	1.2	cm
Average diameter at one end	1.2	cm
Average diameter at the other end	1.2	cm
Number of bunches	10	
Total number of particles	10 ¹⁰	

The page also includes sections for 'General information' (e.g., 'INTT is a beam pipe', 'INTT is made of stainless steel') and 'Hardware configuration' (e.g., 'INTT is made of stainless steel', 'INTT is made of stainless steel').

The screenshot shows the sPHENIX Wiki page for the INTT Barrel. The page is structured with a navigation sidebar on the left and a main content area. The main content area includes a 'Contents list' with a table of contents, a 'General information' section, and a 'Hardware configuration' section. A table of parameters is also present.

Element	Value	Unit
Beam velocity	70	km/s
Beam length	1.5	cm
Beam diameter at one end	1.2	cm
Beam diameter at the other end	1.2	cm
Average length	1.5	cm
Average diameter	1.2	cm
Average diameter at one end	1.2	cm
Average diameter at the other end	1.2	cm
Number of bunches	10	
Total number of particles	10 ¹⁰	

The page also includes sections for 'General information' (e.g., 'INTT is a beam pipe', 'INTT is made of stainless steel') and 'Hardware configuration' (e.g., 'INTT is made of stainless steel', 'INTT is made of stainless steel').