

INTT 日本語ミーティング 2024/05/31

INTT日本語ミーティング

Friday 31 May 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)
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- +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

Speaker: radlab phenix (riken)

15m

ミーティング日程: 毎週金曜日 09:00 (JST)

これからの BNL 滞在予定

		6					7					8					9					10										
Month	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						
Event		SQM RHIC					ICHEP					NN					JPS HP					KPS										
RHIC projection pp→AuAu→pp		5.5 weeks (timing tbd)					pp, 9 weeks																									
Latest scenario							AuAu, 5.5 weeks (timing tbd)					pp, 9 weeks																				
BNL	Rachid	[Blue bar]																														
BNL	Raul	[Blue bar]																														
Purdue	Wei	[Blue bar]																														
Purdue	Milan	[Blue bar]																														
Purdue	Joseph	[Blue bar]																														
RIKEN	Yasuyuki	6/9	6/14				7/1																									
RIKEN	Itaru			6/21								7/12?																				
RIKEN	Genki	Temp return wanted																														
RIKEN	Akitomo		6/16																													10/31
NWU	Takashi			-6/14?																												
NWU	Maya	[Green bar]																														
NWU	Manami	Schedule not determined at all																														
NWU	Mai Kano	Together with Takashi																														
NWU	Hinako	[Blue bar]																														
NWU	Mahiro	[Blue bar]																														
NWU	Nac	move together with Yasuyuki?																														
NWU	Ishigeki	Schedule not determined at all																														
NWU	Yuka	[Grey bar]																														
NWU	Misaki	[Grey bar]																														
NWU	Mai Watanabe	[Grey bar]																														
NWU	Kan	[Grey bar]																														
NWU	Yuri	[Grey bar]																														
Rikkyo	Ryota	[Green bar]																														
Rikkyo	Tomoya	[Blue bar]																														
Rikkyo	Kazuma	[Grey bar]																														
Rikkyo	Takahiro	7/13?																														
JAEA	Shoichi	[Green bar]																														
NCU	Chia-Ming	[Green bar]																														
NCU	Kai-Yu	[Green bar]																														
NCU	Cheng-Wei	6/2																					8/16									
NCU	Wei-Cho	[Green bar]																														
NTU	Rong-Shyang	[Green bar]																														
NTU	Lian-Sheng	[Green bar]																														
NTU	Yu-Chen	[Green bar]																														
NTU	Tzu-Chuan	[Green bar]																														
Korea Univ	Byungsik	[Green bar]																														
Korea Univ	Jaein	6/21																														

菊池：最速日程 7/13。7/15? 9 月末 (± 1 週間) まで滞在予定

同時に帰国するスタッフ募集←糠塚

∴ 帰国は 9/30 ← 考え中...

中川：7 月に BNL へ行くが、ランの状況次第なので未定 (7/12?)

森本・石垣：7 月初旬～8 月 10 日ごろまで?

宍倉：中川 7 月渡航と同時?

秋葉：7/2 からのシフトを取っているので、6/30 日本発かも?

← 森本さんは一緒に移動?

秋葉：7 月末～8 月 4 日より前に BNL 滞在かも

秋葉：8 月末～9/1 BNL 滞在予定 (RHIC レビューあり)

加納：6/17 (?)～7 月末か 8 月初旬 ← NEW

* 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)
を誰か取ってくれませんか?

シフト申請はまず指導教員に相談してください。

[リンク](#)

2024 RHIC/AGS ANNUAL USERS' MEETING

2024/06/11 — 14 に RHIC/AGS ミーティングが開かれます。

去年は

- Joseph: sPHENIX トラッキングシステム (口頭)
- Jaein: INTT (ポスター)

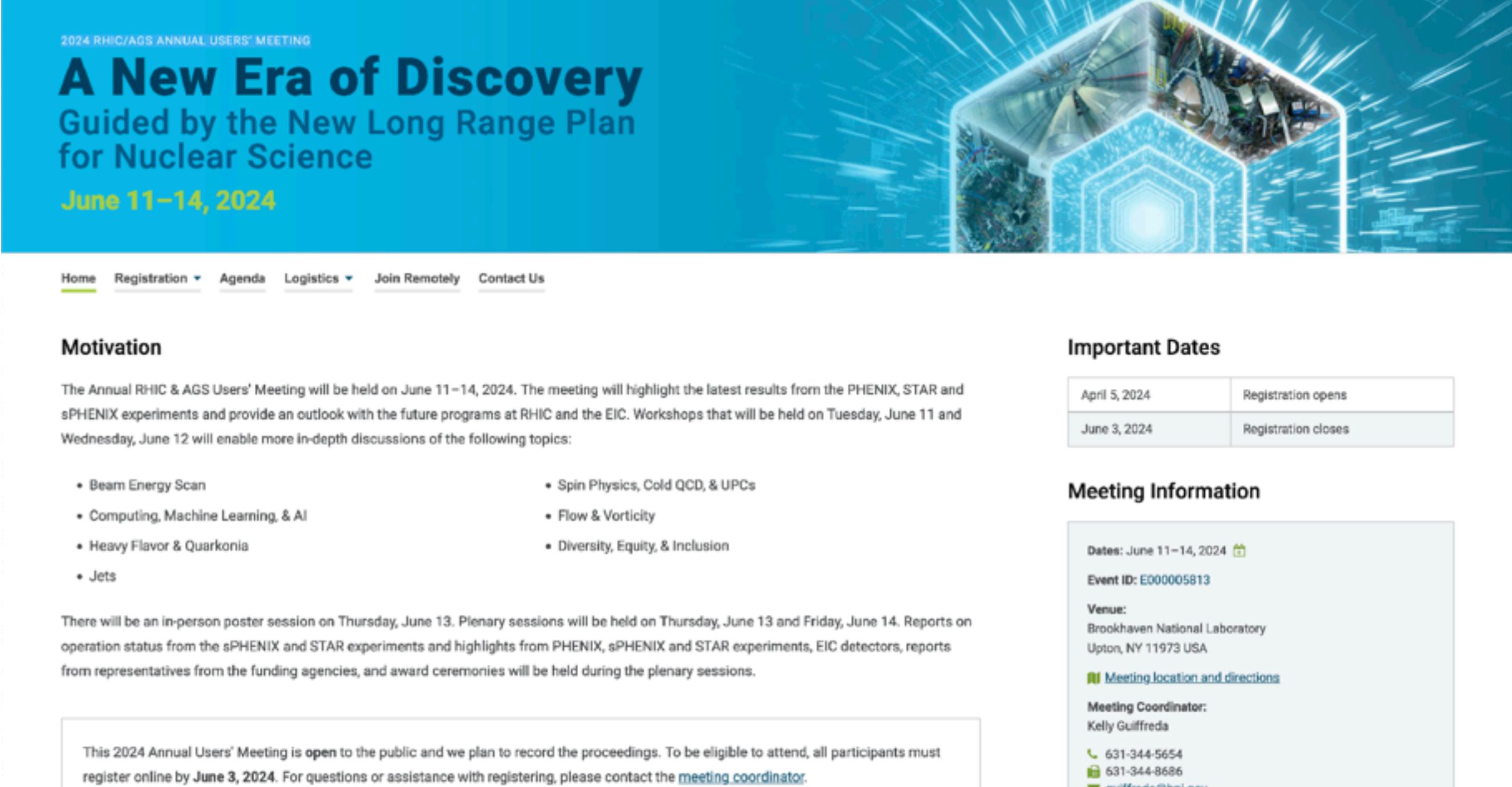
でした。

今年は？

- 糠塚: PHENIX/sPHENIX ColdQCD + INTT で好きなトピック (口頭)

- 辻端
- 池本
- 加藤

参加費 \$60 は RBRC が支払ってくれるとのこと。



2024 RHIC/AGS ANNUAL USERS' MEETING

A New Era of Discovery

Guided by the New Long Range Plan for Nuclear Science

June 11-14, 2024

[Home](#) [Registration](#) [Agenda](#) [Logistics](#) [Join Remotely](#) [Contact Us](#)

Motivation

The Annual RHIC & AGS Users' Meeting will be held on June 11-14, 2024. The meeting will highlight the latest results from the PHENIX, STAR and sPHENIX experiments and provide an outlook with the future programs at RHIC and the EIC. Workshops that will be held on Tuesday, June 11 and Wednesday, June 12 will enable more in-depth discussions of the following topics:

- Beam Energy Scan
- Spin Physics, Cold QCD, & UPCs
- Computing, Machine Learning, & AI
- Flow & Vorticity
- Heavy Flavor & Quarkonia
- Diversity, Equity, & Inclusion
- Jets

There will be an in-person poster session on Thursday, June 13. Plenary sessions will be held on Thursday, June 13 and Friday, June 14. Reports on operation status from the sPHENIX and STAR experiments and highlights from PHENIX, sPHENIX and STAR experiments, EIC detectors, reports from representatives from the funding agencies, and award ceremonies will be held during the plenary sessions.

This 2024 Annual Users' Meeting is open to the public and we plan to record the proceedings. To be eligible to attend, all participants must register online by **June 3, 2024**. For questions or assistance with registering, please contact the [meeting coordinator](#).

Important Dates

April 5, 2024	Registration opens
June 3, 2024	Registration closes

Meeting Information

Dates: June 11-14, 2024 📅

Event ID: E000005813

Venue:
Brookhaven National Laboratory
Upton, NY 11973 USA

[Meeting location and directions](#)

Meeting Coordinator:
Kelly Guiffreda

📞 631-344-5654
📠 631-344-8686
✉️ kguiffreda@bnl.gov

[リンク](#)

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 ± 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.

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？）
- ・ 蜂谷：EIC 検出器（シンポジウム）
- ・ ??：INTT 検出効率（検出器）

The screenshot shows the website for the 79th Annual Meeting (2024) of the Japanese Physical Society. The page is in Japanese and features a navigation menu at the top with links for '大会要項' (Meeting Details), '申込手順' (Application Procedure), and '講演要集印刷' (Print Lecture Abstracts). The main content area is titled '第79回年次大会（2024年）' and includes a sub-header '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'. Below this, there are four buttons with their respective deadlines: '一般講演を申し込む（マイページへ）' (5月21日9時受付開始 ~6月5日14時締切), '講演の修正、決済（領収書）' (5月21日9時受付開始 ~6月5日14時締切), '講演を取消する' (5月21日9時受付開始 ~6月5日14時締切), and '一般講演原稿の送信、修正をする' (5月21日9時受付開始 ~7月23日14時締切予定). At the bottom, there are several small notices regarding non-membership, abstract submission limits, and contact information.

一般講演を申し込む（マイページへ）
5月21日9時 受付開始
~6月5日14時締切

講演の修正、決済（領収書）
5月21日9時 受付開始
~6月5日14時締切

講演を取消する
5月21日9時 受付開始
~6月5日14時締切

一般講演原稿の送信、修正をする
5月21日9時 受付開始
~7月23日14時締切予定

※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。）
※原稿集原稿の書き方、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。