

INTT 日本語ミーティング 2024/06/07

The screenshot shows a Zoom meeting invitation with the following details:

INTT日本語ミーティング
Friday 7 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)

所在地でダイアル
+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 (Duration: 15m) 🕒 15m
Speaker: radlab phenix (riken)

09:15 → 09:35 自己紹介 (柳川はやと) (Duration: 20m) 🕒 20m

09:35 → 09:55 Event Mixup (Duration: 20m) 🕒 20m
Speaker: Mai Kano

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

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	6/21																											
12	RIKEN Itaru	6/9 6/14							7/1																				
13	RIKEN Genki	6/21								7/12?																			
14	RIKEN Akitomo										Temp return wanted																		
15	NWU Takashi	6/16									7/12																		
16	NWU Maya	-6/14?																											
17	NWU Manami																												
18	NWU Mai Kano																												
19	NWU Hinako																												
20	NWU Mahiro																												
21	NWU Nac																												
22	NWU Ishigaki																												
23	NWU Yuka																												
24	NWU Misaki																												
25	NWU Mai Watanabe																												
26	NWU Kan																												
27	NWU Yuri																												
28	Rikkyo Ryota																												
29	Rikkyo Tomoya																												
30	Rikkyo Kazuma																												
31	Rikkyo Takahiro																												
32	JAEA Shoichi																												
33	NCU Chia-Ming																												
34	NCU Kai-Yu																												
35	NCU Cheng-Wei																												
36	NCU Wei-Che																												
37	NTU Rong-Shyang																												
38	NTU Lian-Sheng																												
39	NTU Yu-Chen																												
40	NTU Tzu-Chuan																												
41	Korea Univ Byungsik	6/2																											
42	Korea Univ Jaerin																												
..		6/21																											

秋葉：7/2 からのシフトを取っているので、6/30～7/12 (BNL 発)

← 森本さんは一緒に移動？

森本：6/30～8/9 or 10、蜂谷と同時に帰国

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？

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：7/12(ほぼ確定)～9月初旬で渡航

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 or 6/30～8月初旬

蜂谷：6/17～8/9 or 10 ← NEW

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

* 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](#)

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

Analysis note for plot approval

- 辻端：<https://sphenix-invenio.sdcc.bnl.gov/communities/sphenixcommunity/requests/592c12ff-01a8-4ee5-bd5b-6d4d3796892f> (2024/06/05)
- 池本：<https://sphenix-invenio.sdcc.bnl.gov/communities/sphenixcommunity/requests/2a27e268-b2bc-4d8e-8213-f048029ef859> (2024/06/05)
- 加藤：

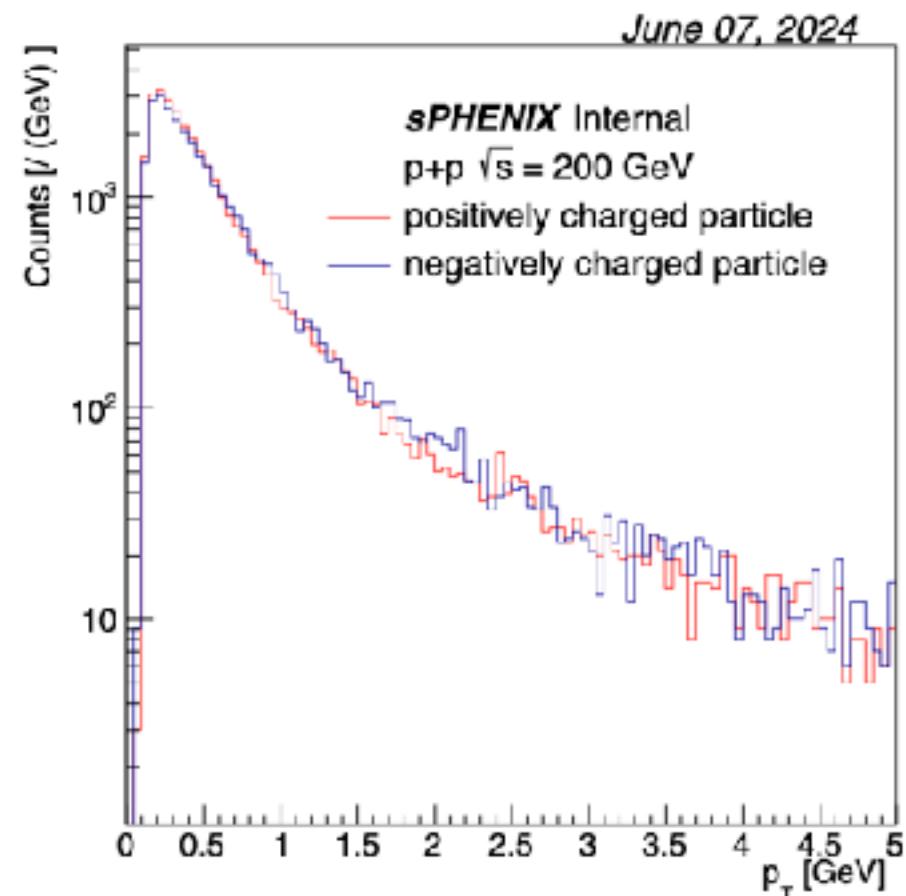


Figure 6: p_T of positively(red) and negatively(blue) charged particles.

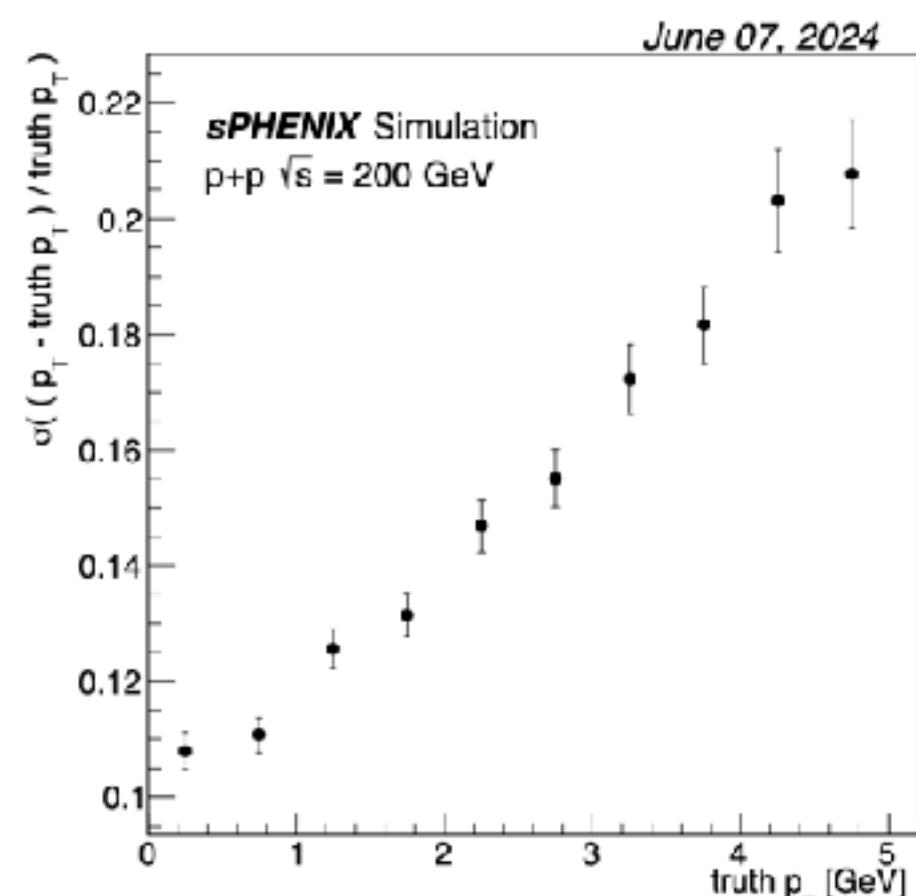
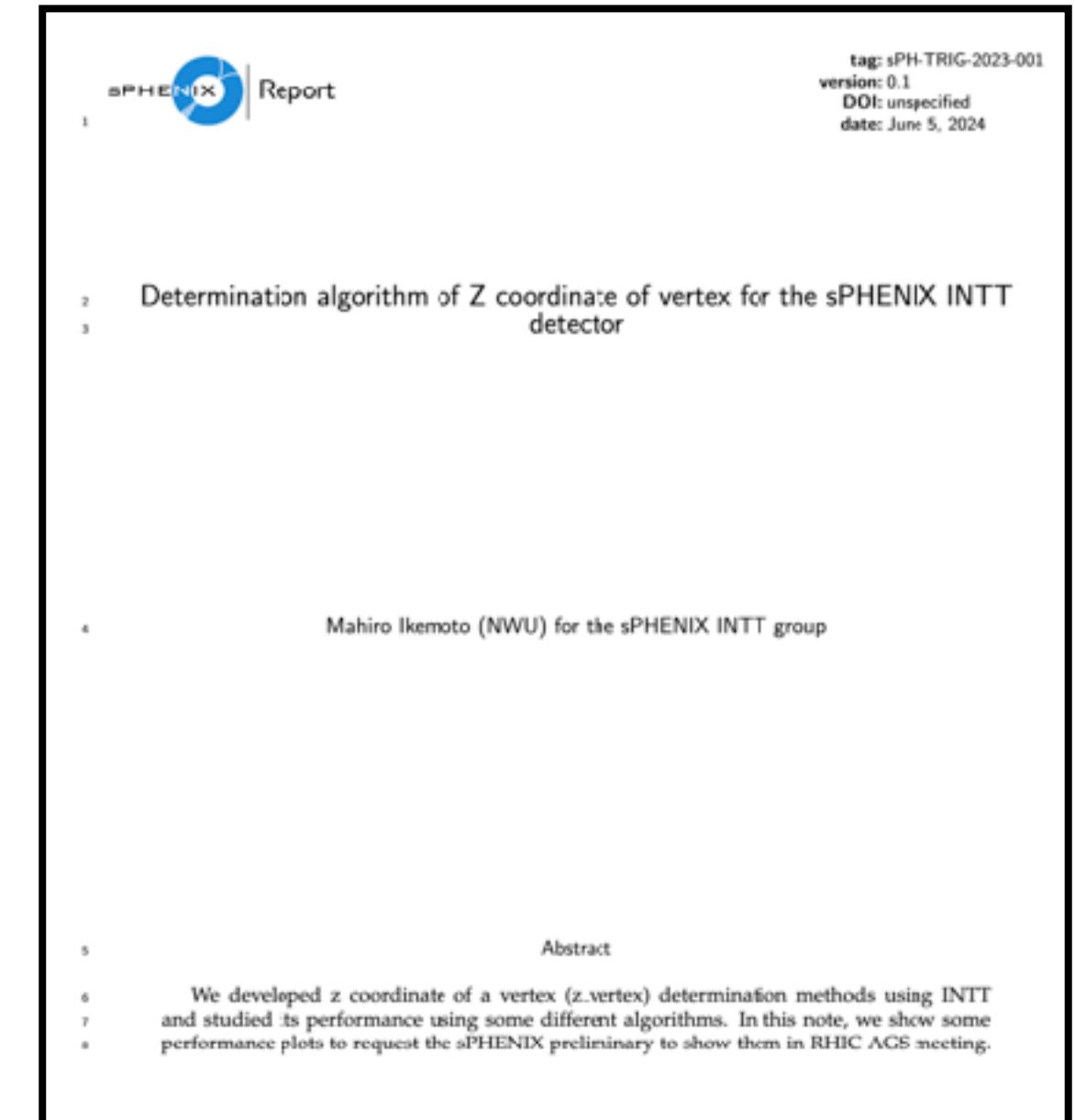


Figure 4: p_T resolution as a function of truth p_T .



MC data: p_T , MC truth vs p_T / p_T , MC truth を Tracking meeting で見せる。Approval もほしい。

pp data: p_T 分布見るだけ。Approval は要求しない。次のステップ (Hard Probe で見せたい) を示す。

pp data: R 分布：やめておく

sPHENIX General meeting 2024/06/07

12:00	→ 12:20	Collaboration news	⌚ 20m
		Speakers: David Morrison (BNL), Gunther Roland (MIT)	
12:20	→ 12:40	Detector status, schedule and commissioning plan	⌚ 20m
		Speaker: James Nagle (University of Colorado)	
12:40	→ 12:50	Speaker's bureau news	⌚ 10m
		Speaker: Marzia Rosati (Iowa State University (mrosati@iastate.edu))	
12:50	→ 13:15	Track seeding and reconstruction performance	⌚ 25m
		Speaker: Joe Osborn (Brookhaven National Laboratory)	
13:15	→ 13:35	Beam crossing analysis in pp	⌚ 20m
		Speakers: Anthony Frawley (Florida State University), Anthony Frawley	
13:35	→ 14:00	Status of distortion corrections and plans	⌚ 25m
		Speaker: Ross Corliss (SBU)	
14:00	→ 14:10	Performance plot approval: EMCal	⌚ 10m
		Speaker: Blair Seidlitz (Columbia University)	
14:10	→ 14:20	Performance plot approval: MVTX	⌚ 10m
		Speakers: Cameron Dean (MIT), Tanner Mengel (University of Tennessee (UTK))	
14:20	→ 14:40	Performance plot approval: ColdQCD	⌚ 20m
		Speaker: Devon Loomis (University of Michigan, Ann Arbor)	
14:40	→ 15:00	Performance plot approval: INTT	⌚ 20m
		Speakers: Hinako Tsujibata, Mahiro Ikemoto	

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？

- 糸塚: PHENIX/sPHENIX ColdQCD + INTT で好きなトピック（口頭）
- 辻端 : INTT tracking
- 池本 : INTT vertexing
- 加藤 : Large cluster in z

参加費 \$60 は RBRC が支払ってくれることです。

The screenshot shows the official website for the 2024 RHIC/AGS Annual Users' Meeting. The header features the title "2024 RHIC/AGS ANNUAL USERS' MEETING" and the subtitle "A New Era of Discovery Guided by the New Long Range Plan for Nuclear Science". Below this is the date "June 11–14, 2024". A navigation bar includes links for Home, Registration, Agenda, Logistics, Join Remotely, and Contact Us. The main content area has a section titled "Motivation" with a list of topics including Beam Energy Scan, Computing, Machine Learning, & AI, Heavy Flavor & Quarkonia, Jets, Spin Physics, Cold QCD, & UPCs, Flow & Vorticity, Diversity, Equity, & Inclusion. There is also a note about an in-person poster session on June 13. A sidebar titled "Important Dates" lists registration opening and closing dates. Another sidebar titled "Meeting Information" provides details about the venue at Brookhaven National Laboratory, Upton, NY, and contact information for Kelly Guiffreda.

[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 ($\sim 10\text{ns}$) 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.

The screenshot shows the homepage of the 12th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (HP2024). The header features the conference logo and title. Below the header, event details are listed: "22-27 Sept 2024 DEJIMA MESSE NAGASAKI Asia/Tokyo timezone". A search bar is located in the top right corner. The main content area includes a large "HP2024 NAGASAKI" logo, a brief description of the conference's focus on experimental and theoretical developments, and a list of conference topics. On the left, there is a sidebar with links to various conference sections like Overview, Scientific Programme, Timetable, Call for Abstracts, etc. At the bottom, there is contact information and a map of Nagasaki.

This screenshot shows the sidebar of the HP2024 conference website. It contains a vertical list of links for navigating the site, including 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, Satellite Meeting, Previous Conferences, and Contact. The contact section includes an email address: 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
[Go to map](#)

Tetsuya Chujo (chair)
Tetsufumi Hirano (co-chair)
Kezunori Itakura (co-chair)
Ken Oyama (co-chair)

DEJIMA MESSE NAGASAKI
4-1, Onouemachi, Nagasaki City, Nagasaki, 850-0158
Japan
[Go to map](#)

[HP2024-1stBulletin.pdf](#)
[HP2024-2ndBulletin.pdf](#)
[HP2024Logo1.png](#)
[HP2024Logo1Square.png](#)
[HP2024Logo2.png](#)
[HP2024Logo2Square.png](#)

Registration
Registration for this event is currently open

[Register now](#)

<https://indico.cern.ch/event/133955/>

日本物理学会

一般講演の申し込みが始まりました。申込みは早めに行いましょう。
申し込む前に、INTT 日本グループのマ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）
- ・ 糸塚：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?)

The screenshot shows the JPS website interface for the 79th Annual Conference (2024). It features a navigation bar with the JPS logo, a search bar, and links for "一般社団法人 日本物理学会" and "The Physical Society of Japan". Below the navigation, there are tabs for "募集要項", "申込手順", and "講演原稿集辰稿". A prominent blue header box says "第79回年次大会 (2024年)". Under this, there are three main buttons for "一般講演申込・修正・決済 (クレジットカード、コンビニ決済)" (May 21 at 9 AM - June 5 at 2 PM), "講演の修正・決済 (領収書)" (May 21 at 9 AM - June 5 at 2 PM), and "講演を取消する" (May 21 at 9 AM - June 5 at 2 PM). Below these buttons, there is a section for "一般講演原稿の送信、修正をする" (May 21 at 9 AM - July 23 at 2 PM). At the bottom of the page, there are several small notes in Japanese regarding non-members, presentation limit, manuscript requirements, and registration confirmation.

見える化：タスク、学会講演等

以前秋葉さんから提案され、ようやく動き始めました。

目的：INTT 関連のタスクを一覧できるようにする ← 現状把握、サボっている人を見つける等などができる

こういった話は一昔前 Trello が流行ったので、試してみた

The screenshot shows a Trello workspace titled "INTT tasks". On the left, there's a sidebar with options like "ワード", "メンバー", "ワークスペース設定", "ワークスペースビュー", "テーブル", "カレンダー", "ボード", "INTT talks", and "INTT tasks". The main board has several columns for team members: Genki, Joseph, Wei-Che, Hinako, Tomoya, Mahiro, Mai, and Manami. Each column contains cards with tasks such as "[pp] Timing scan analysis", "[Online] Updating channel mask", "[pp] Checking GL1 event vs INTT event ratio", "[pp] Updating hot channel determination algorithm", "[Cosmic] Detection efficiency", "[pp] Tracking INTT hits", "[pp] Tracking INTT-EMCal", "Cluster z-size study", "[pp] Vertex determination", "[AuAu] Event mix-up analysis", "[pp] Event mix-up", etc. Some cards have due dates like "6月7日". A small "Link" icon is visible at the bottom left.

INTT の Google アカウントで作成したので、このアカウントでログインするのも OK

無課金なので掲示板が横に長くなる・・・

 sPHENIX INTT
intt.sphenix@gmail.com

CW, Jaein に見せたが、概ね好評

ポイント

ここに書かなかったことで起こるいざこざは
本人の責任であるべき

見える化：タスク、学会講演等

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こういった話は一昔前 Trello が流行ったので、試してみた

The screenshot shows a Trello board titled "INTT talks". It has four columns representing different events:

- RHIC/AGS (June 2024)**: Contains cards for "[Poster] Hinako: Tracking", "[Poster] Mahiro: vertex", "[Poster]: Tomoya: INTT commissioning 2024", "[Inv. Talk] Genki: spin prospective", and "[Poster] Jaein: spin preparation".
- JPS (Sep 2024)**: Contains cards for "[Talk] Cheng-Wei: dN/deta (partially vertex)", "[Talk] Genki: INTT status", "[Talk] Mai: Event mix-up II", and "+ カードを追加".
- HardProbe (Sep 2024)**: Contains cards for "[Poster] Hinako : tracking", "[Poster] Mahiro : vertex", "[Poster] Genki: INTT general intro.", and "+ カードを追加".
- 12th CPPS (Nov 2024)**: Contains a single card "+ カードを追加".

The screenshot shows the "Talks" page of the sPHENIX wiki. It includes a sidebar with links to "Community portal", "Recent changes", "Random page", "Help", "sPHENIX Calendar", "Meetings", "Minutes", "ALICE", "Tracking", "PPC", "TRT", "MOTX", "INTT", "Bosonos", "Beam tests", "Software", "QA/QC", "Tools", "Meetings", "Upcoming", "Speakers Bureau", "Journals", "Document database", "Tools", "When I'm free", "Recent changes", "Upload file", "Special pages", "Printable version", "Permanent link", "Page information", and "Edit this page". The main content area lists "Meeting Materials and Minutes" for various years, with a note that materials from <https://indico.bnl.gov/talks/policy/855/> will be added soon.

→発表が終わったら情報を wiki に移動

[Link](#)

INTT の Google アカウントで作成したので、このアカウントでログインするのも OK

 **sPHENIX INTT**
intt.sphenix@gmail.com

CW, Jaein に見せたが、概ね好評

ポイント

ここに書かなかったことで起こるいざこざは
本人の責任であるべき

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