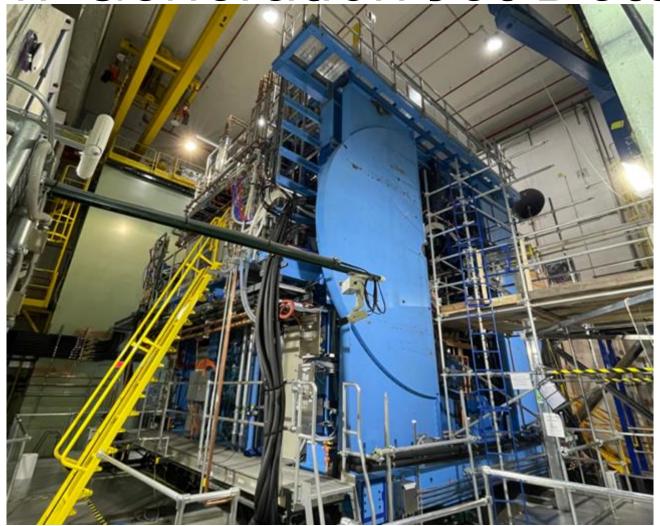


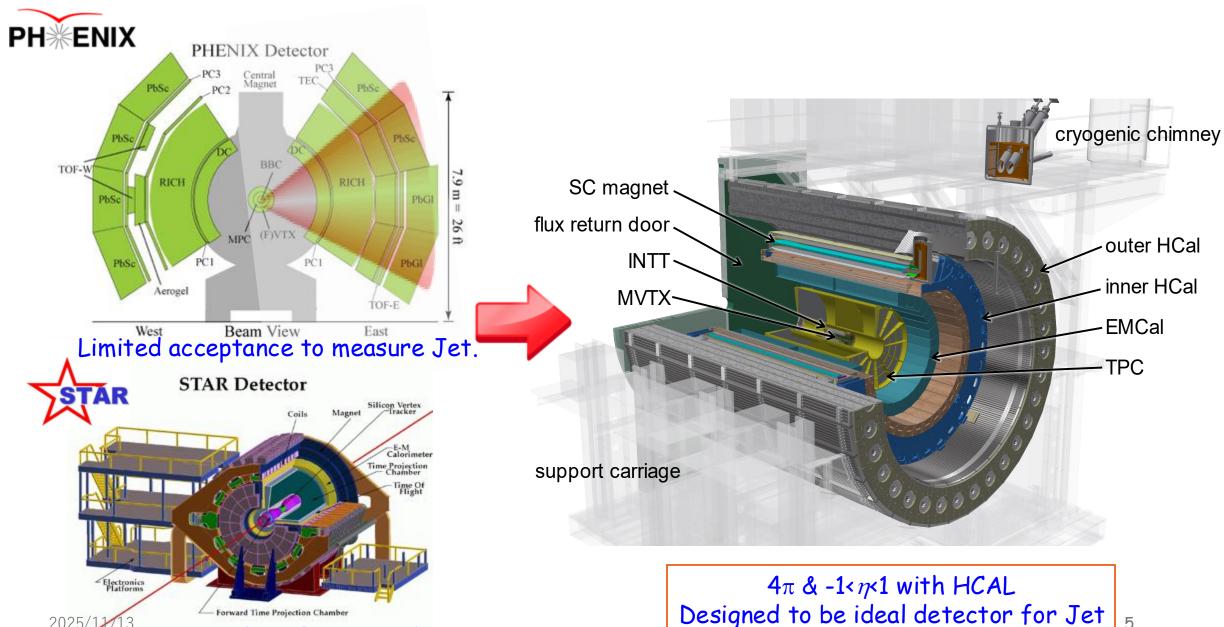


sPHENIX Experiment

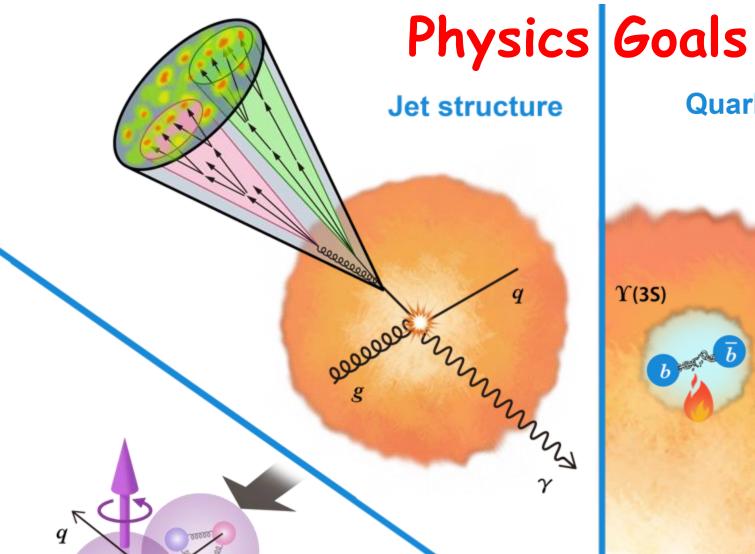
~New Generation Jet Detector~



What's new about sPHENIX



 4π , but incomplete for jet without HCAL

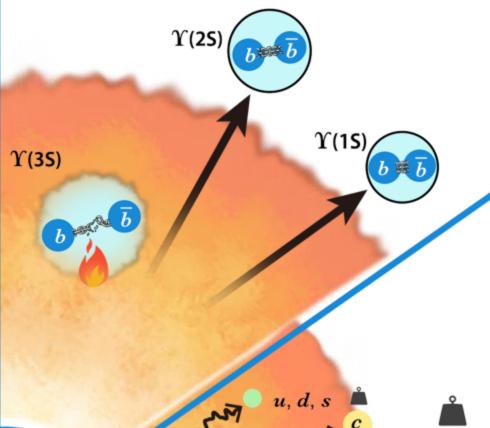


 \boldsymbol{P}

Cold QCD

/ouis

Quarkonium spectroscopy



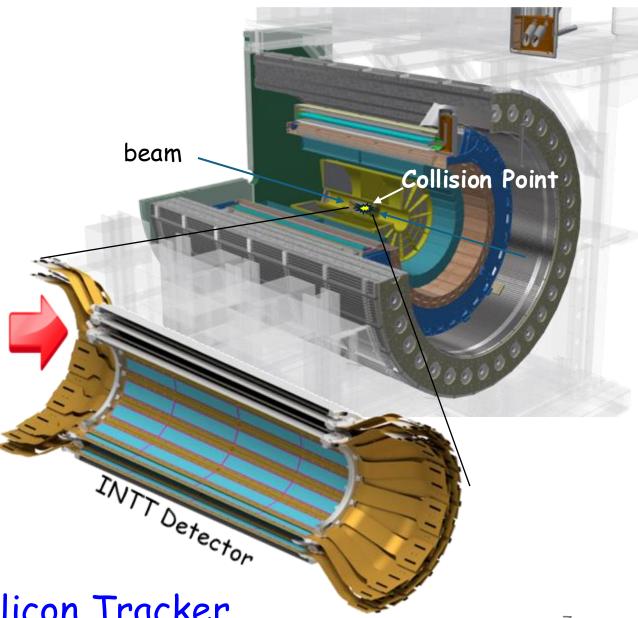


Parton energy loss

sPHENIX Detector

INTT-sPHENIX





INTermediate Silicon Tracker



sPHENIX Tracking System

Silicon pixel detector (MVTX)

- 29 um x 27 um, pixels
- 2.5 cm < R < 4.5cm
- 20 BLCK integration time

Silicon strip detector (INTT)

- 78um, strip sensors
- 7cm < R < 11cm
- 1 BCLK timing resolution

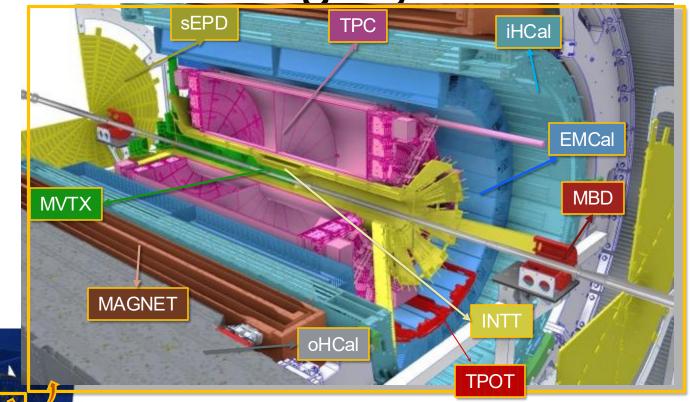
Time projection Chamber (TPC)

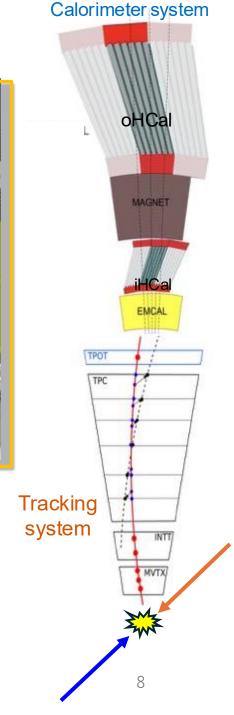
- 20cm < R < 78cm
- Spatial resolution, ~100um
- Long drift time, ~13us

TPC Outer Tracker (TPOT)

Calibrate TPC

2025/11/13

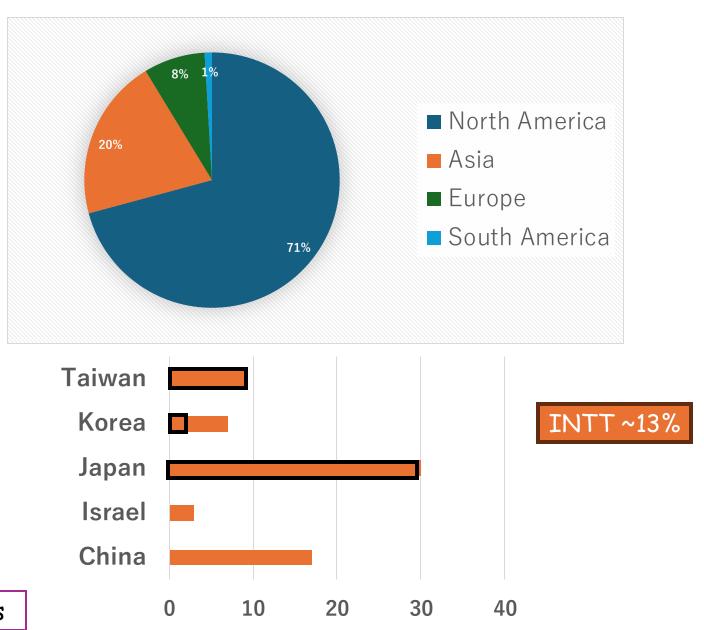




The sPHENIX collaboration

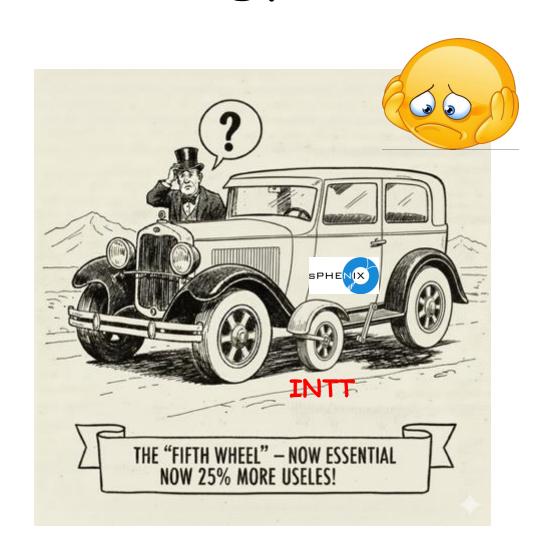
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M.I. Abdulhamid<sup>13</sup>, U. Acharva <sup>©13</sup>, E.R. Adams<sup>7</sup>, G. Adawi<sup>13</sup>, C.A. Aidala <sup>©26</sup>, Y. Akiba<sup>39</sup>
M. Alfred<sup>14</sup>, S. Ali<sup>13</sup>, A. Alsayegh<sup>10</sup>, S. Altaf<sup>15</sup>, H. Amedi<sup>13</sup>, D.M. Anderson <sup>© 17</sup>, V.V. Andrieux <sup>© 15</sup>
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S. Bathe <sup>©2</sup>, A. Bazilevsky<sup>3</sup>, S. Bela<sup>22</sup>, R. Belmont <sup>©33</sup>, J. Bennett<sup>15</sup>, J.C. Bernauer<sup>43</sup>,
J. Bertaux <sup>37</sup>, R. Bi<sup>7</sup>, A. Bonenfant <sup>6</sup>, S. Boose <sup>3</sup>, C. Borchers <sup>13</sup>, H. Bossi <sup>25</sup>, R. Botsford <sup>22</sup>.
 R. Boucher<sup>11</sup>, A. Brahma<sup>13</sup>, J.W. Bryan <sup>©35</sup>, D. Cacace <sup>©3</sup>, L. Cali<sup>26</sup>, M. Chamizo-Llatas<sup>3</sup>.
 S.B. Chauhan<sup>35</sup>, A. Chen<sup>22</sup>, D. Chen<sup>43</sup>, J. Chen<sup>12</sup>, K. Chen<sup>5</sup>, K.Y. Chen<sup>30</sup>, K.Y. Cheng<sup>30</sup>
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J.M. Durham 623, A. Enokizono 639, H. Enyo 39, J. Escobar Cepero 13, R. Esha 643, B. Fadem 628
 R. Feder<sup>3</sup>, K. Finnelli<sup>43</sup>, D. Firak <sup>643</sup>, A. Francisco <sup>66</sup>, J. Frantz<sup>35</sup>, A. Frawley<sup>11</sup>, K. Fujiki<sup>41</sup>
M. Fujiwara<sup>29</sup>, B. Garcia<sup>7</sup>, P. Garg <sup>043</sup>, G. Garmire<sup>15</sup>, E. Gentry<sup>7</sup>, Y. Go <sup>03</sup>, C. Goblin<sup>6</sup>,
W. Goodman<sup>22</sup>, Y. Goto<sup>39</sup>, A. Grabas<sup>36</sup>, O. Grachov<sup>48</sup>, J. Granato<sup>22</sup>, N. Grau<sup>1</sup>, S.V. Greene<sup>347</sup>
S.K. Grossberndt 3, R. Guidolini-Cecato, T. Hachiya 22, J.S. Haggerty 3, R. Hamilton,
J. Hammond<sup>3</sup>, D.A. Hangal<sup>2</sup>, S. Hasegawa<sup>18</sup>, M. Hata<sup>29</sup>, W. He<sup>12</sup>, X. He<sup>13</sup>, T. Hemmick<sup>43</sup>
A. Hodges <sup>15</sup>, M.E. Hoffmann<sup>2</sup>, A. Holt<sup>14</sup>, B. Hong <sup>19</sup>, M. Housenga<sup>15</sup>, S. Howell<sup>43</sup>, Y. Hu<sup>20</sup>,
H.Z. Huang 4, J. Huang T.C. Huang 2, D.A. Huffman 22, C. Hughes 17,22, J. Hwang 19,
T. Ichino<sup>41</sup>, M. Ikemoto<sup>29</sup>, D. Imagawa<sup>41</sup>, H. Imai<sup>41</sup>, D. Jah<sup>7</sup>, J. James<sup>947</sup>, H.-R. Jheng<sup>925</sup>
Y. Ji 620, Z. Ji 64, H. Jiang 8, M. Kano 29, L. Kasper 47, T. Kato 41, Y. Kawashima 41, M.S. Khan 13.
T. Kikuchi<sup>41</sup>, J. Kim<sup>50</sup>, B. Kimelman <sup>0,47</sup>, H.T. Klest <sup>0,43</sup>, A.G. Knospe <sup>0,22</sup>, M.B. Knuesel<sup>7</sup>,
H.S. Ko<sup>20</sup>, J. Kuczewski<sup>3</sup>, N. Kumar<sup>2</sup>, R. Kunnawalkam Elavavalli <sup>©47</sup>, C.M. Kuo <sup>©30</sup>, J. Kvapil <sup>©23</sup>
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T. Lian<sup>22</sup>, S. Liechty<sup>7</sup>, S. Lim <sup>38</sup>, D. Lis<sup>7</sup>, M.X. Liu <sup>323</sup>, W.J. Llope <sup>348</sup>, D.A. Loomis <sup>326</sup>,
 R.-S. Lu <sup>32</sup>, L. Ma<sup>12</sup>, W. Ma<sup>12</sup>, V. Mahaut <sup>6</sup>, T. Majoros<sup>9</sup>, I. Mandjavidze <sup>6</sup>, E. Mannel <sup>3</sup>
C. Markert <sup>646</sup>, T.R. Marshall <sup>64</sup>, C. Martin <sup>45</sup>, H. Masuda <sup>41</sup>, G. Mattson <sup>615</sup>, M. Mazeikis <sup>15</sup>
C. McGinn <sup>©25</sup>, E. McLaughlin <sup>©8</sup>, J. Mead<sup>3</sup>, Y. Mei <sup>©20</sup>, T. Mengel <sup>©7,45</sup>, M. Meskowitz <sup>©22</sup>
J. Mills<sup>3</sup>, A. Milov<sup>49</sup>, C. Mironov<sup>25</sup>, G. Mitsuka<sup>40</sup>, N. Morimoto<sup>29</sup>, D. Morrison<sup>63</sup>
L.W. Mwibanda<sup>10</sup>, C.-J. Naim <sup>643</sup>, J.L. Nagle <sup>67</sup>, I. Nakagawa <sup>639</sup>, Y. Nakamura <sup>41</sup>, G. Nakano <sup>41</sup>
A. Narde <sup>315</sup>, C.E. Nattrass <sup>45</sup>, D. Neff <sup>6</sup>, S. Nelson <sup>27</sup>, D. Nemoto <sup>41</sup>, P.A. Nieto-Marín <sup>317</sup>,
R. Nouicer<sup>3</sup>, G. Nukazuka <sup>© 39</sup>, E. O'Brien <sup>© 3</sup>, G. Odyniec<sup>20</sup>, S. Oh<sup>20</sup>, V.A. Okorokov <sup>© 31</sup>
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D. Padrazo Jr. 3, T. Pani 42, J. Park 7, A. Patton 325, H. Pereira Da Costa 328, D.V. Perepelitsa 7
M. Peters<sup>25</sup>, S. Ping<sup>12</sup>, C. Pinkenburg<sup>3</sup>, R. Pisani<sup>3</sup>, C. Platte<sup>47</sup>, C. Pontieri<sup>3</sup>, T. Protzman<sup>22</sup>
M.L. Purschke<sup>3</sup>, J. Putschke<sup>48</sup>, R.J. Reed <sup>© 22</sup>, L. Reeves<sup>15</sup>, S. Regmi <sup>© 35</sup>, E. Renner<sup>23</sup>.
D. Richford $\infty$2.51, C. Riedl $\infty$15, T. Rinn $\infty$23, C. Roland $\infty$25, G. Roland $\infty$25, A. Romero Hernandez $\frac{15}{2}$.
M. Rosati <sup>17</sup>, D. Roy<sup>42</sup>, A. Saed<sup>22</sup>, T. Sakaguchi <sup>3</sup>, H. Sako<sup>18</sup>, S. Salur <sup>42</sup>, J. Sandhu<sup>22</sup>
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 K. Shiina<sup>41</sup>, M. Shimomura <sup>©29</sup>, R. Shishikura<sup>41</sup>, E. Shulga <sup>©43</sup>, A. Sickles <sup>©15</sup>, D. Silvermyr <sup>©24</sup>
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Y. Sugiyama<sup>29</sup>, O. Suranyi<sup>20</sup>, W.-C. Tang<sup>30</sup>, S. Tarafdar<sup>24</sup>, E. Thorsland<sup>25</sup>, T. Todoroki<sup>40</sup>
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sPHENIX Collaboration



Total 330 Collaborators from 54 institutions

Strategy to maximize the presence









Rachid Nouice

INTT Collaboration





Itaru Nakagawa





Maya Shimomura Genki Nukazuka











Antonio Vederosa



Steven Andrade









BNL Steven Andrade, Stephen Boose, Daniel Cacace, Raul Cecato, Donald Pinelli, Rachid Nouicer, Robert Pisani, Nick Seberg, Antonio Vederosa

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Korea Univ.

Byungsik Hong, Jaein Hwang

National Taiwan Univ.

Rong-Shyang Lu, Jenny Huang, Lian-Sheng Tsai, Ou-Wei Cheng

National Central Univ.

Chia-Ming Kuo, Kai-Yu Cheng, Cheng-Wei Shih, Wei-Che Tang







Lian-Sheng Tsai













Akitomo Enokizono

TIRI

Takashi Kondo

JAEA

Shoichi Hasegawa

Takahiro Kikuchi



Tomoya Kato





Yuka Sugiyama





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Nara Women's Univ. Kashi Kondo

Manami Fujiwara, Takashi Hachiya, Misaki Hata, Mahiro Ikemoto, Rin Kan, Mai Kano, Nao Morimoto, Maya Shimomura, Yuka Sugiyama, Yuri Terasaka, Hinako Tsujibata, Mai Watanabe



Stephen Boose



Purdue Univ.

Joseph Bertaux.

Milan Stojanovic, Wei Xie.

Han-Sheng Li

(former member)

Chia-Ming Kuo





Wei-Che Tang









Manami Fujiwara





Mahiro Ikemoto



Joseph Bertaux





INTT Collaboration



Itaru Nakagawa









Maya Shimomura Genki Nukazuka

TIRI

Takashi Kondo

JAEA

Shoichi Hasegawa







Antonio Vederosa



Steven Andrade





Joseph Bertaux





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Chia-Ming Kuo, Kai-Yu Cheng, Cheng-Wei Shih, Wei-Che Tang

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Lian-Sheng Tsai















Tomoya Kato





Yuka Sugiyama



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Han-Sheng Li

(former member)

Chia-Ming Kuo



Byungsik Hong



Jaein Hwang

Wei-Che Tang





Cheng-Wei Shih

Hinako Tsujibata



Mahiro Ikemoto







Rachid Nouice

INTT Collaboration





Itaru Nakagawa





Maya Shimomura Genki Nukazuka Kazuma Fujiki













Antonio Vederosa







Joseph Bertaux

Purdue Univ.

Joseph Bertaux.

Milan Stojanovic, Wei Xie.

Han-Sheng Li

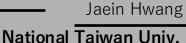
(former member)



Antonio vederosa

azuma Fujiki Γomoya Kato, Boose, Takahiro Kikuchi, Ryota Shishikura

Korea Univ. Byungsik Hong,



Rong-Shyang Lu, Jenny Huang, Lian-Sheng Tsai, Ou-Wei Cheng

National Central Univ.

Chia-Ming Kuo, Kai-Yu Cheng, Cheng-Wei Shih, Wei-Che Tang



Lian-Sheng Tsai















TIRI

Takashi Kondo

JAEA

Shoichi Hasegawa

Takahiro Kikuchi



Tomoya Kato







Yuka Sugiyama Shoichi Hasegawa

RIKEN, RBRC

Akitomo Enokizono

Yasuyuki Akiba, Akitomo Enokizono, Itaru Nakagawa, Genki Nukazuka

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Stephen Boose



Chia-Ming Kuo



Rong-Shyang Lu

Jaein Hwang

Wei-Che Tang







Hinako Tsujibata



Yuri Terasaka



Mahiro Ikemoto



Three Beam Tests of INTI



2018@FNAL

2021@ELPH in Japan

have confirmed that the INTT ladder is performing as designed.!



INTT Silicon Ladder

Bus Extender

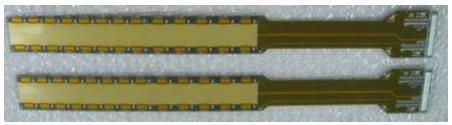


Stave





HDI





Silicon



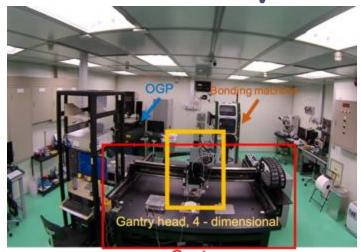


Ladder Assembly System



INTT assembly in Taiwan

1/3 of Ladder Assembled



Taiwan Silicon Detector Facility (TSiDF)

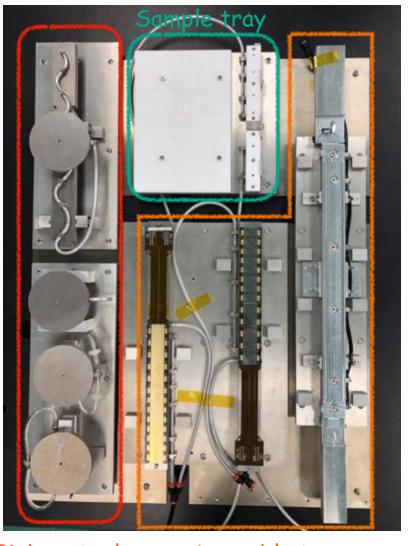
Assembly Unit: Half-ladder

Assembly procedures:

- 1. Chips glued on HDI then wire-bonded
- 2. Sensors glued on HDI then wire-bonded
- 3. Encapsulate all wire-bonds
- 4. Thermal cycles modules

Ladder assembly procedures:

· 2 half-ladder glued on stave



Pick up tools

Assembly tray



Rong-Shyang Lu



Wei-Che Tang



Kai-Yu Cheng



Lian-Sheng Tsai



Jenny Huang

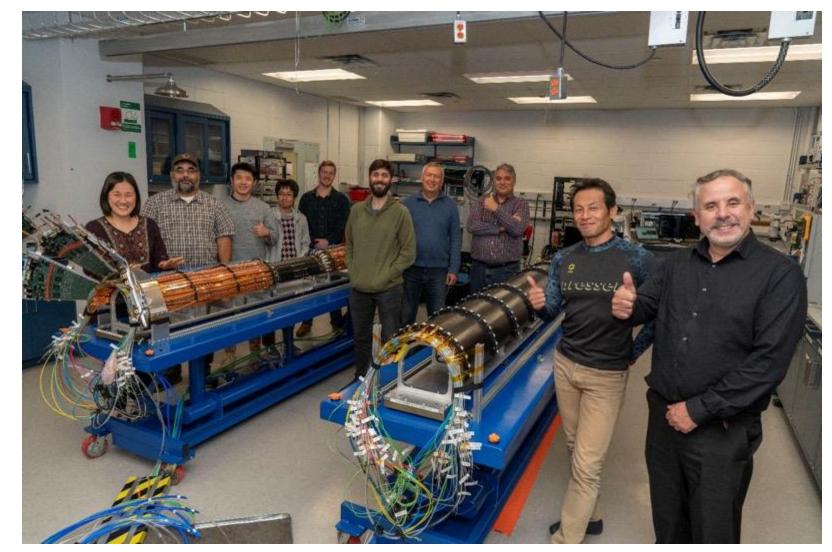


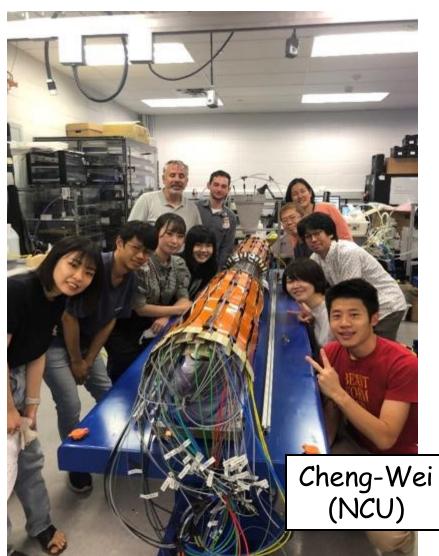
Cheng-Wei Shih



Ou-Wei Cheng

INTT-Silicon Strip Detector





Japan-Taiwan-Korea-USA international Collaboration

Mid. May, 2023

sPHENIX Commissioning

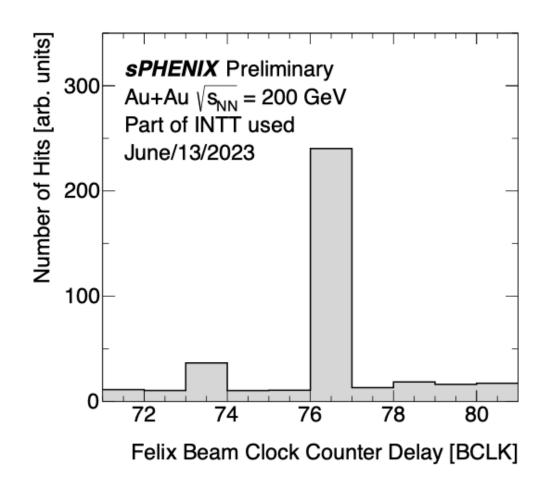
Are we looking at true signal?

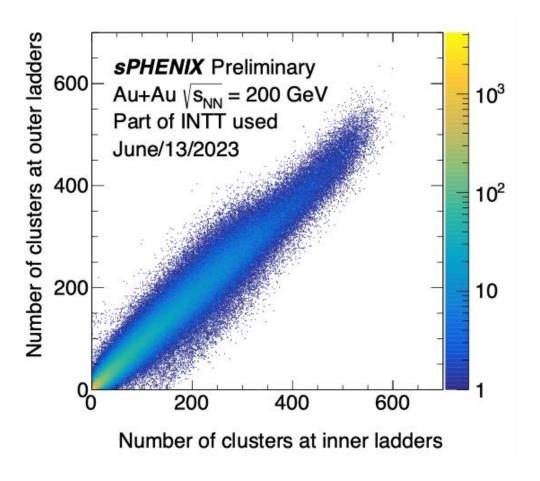
New detector, new electronics, new beam environment, new data acquisition, new decorder, new analysis software...



INTT Commissioning

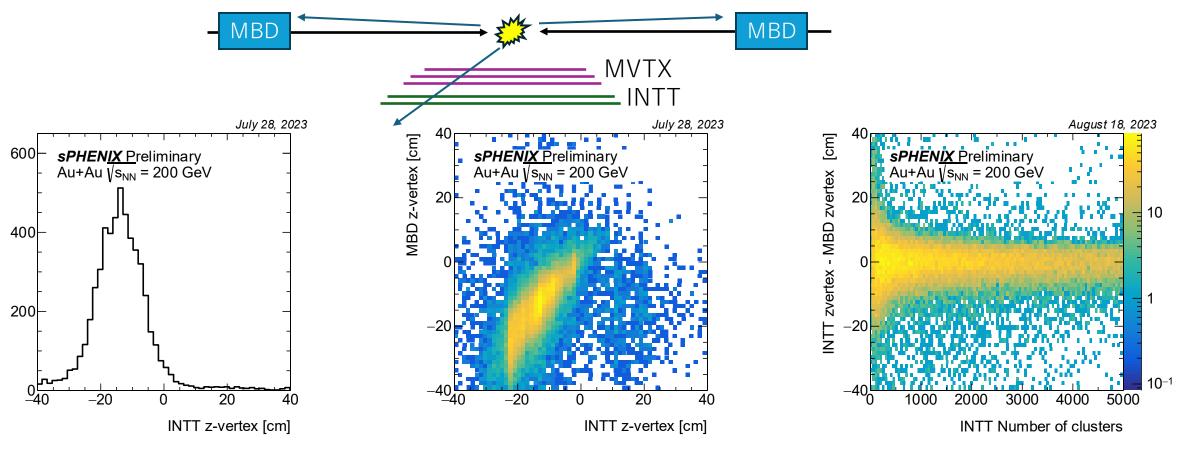
New detector, new electronics, new beam environment, new data acquisition, new decorder, new analysis software...





Preliminary Plots approved within 3 weeks started commissioning

Providing Reliable Reference to MBD



z_{vtx} distribution reconstructed by INTT. Released on Aug/18/2023.

A correlation of z_{vtx} reconstructed by INTT and MBD.

Released on Aug/18/2023.

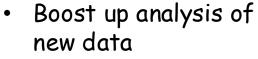
A correlation between #INTT clusters and the difference of zvtx reconstructed by MBD and INTT.

Released on Aug/18/2023.

INTT 2 Weeks Analysis Workfest



November, 2024 in Korea



 Training of junior students

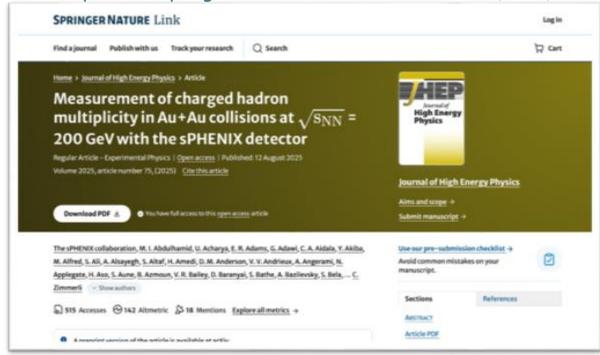
 Stoic lifestyle of Taiwanese/Korean senior students made good influences to younger students



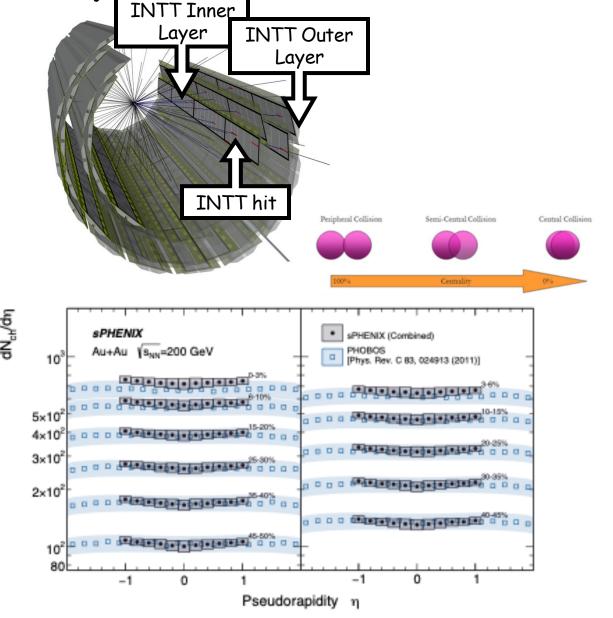


One of 2 First Physics Papers of sPHENIX

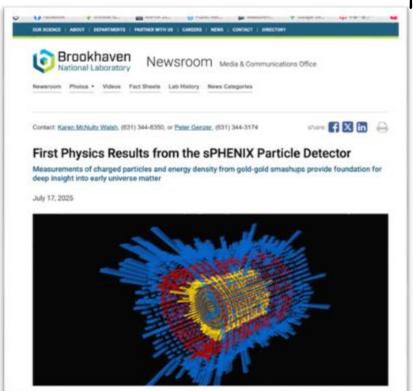
https://link.springer.com/article/10.1007/JHEP08(2025)075



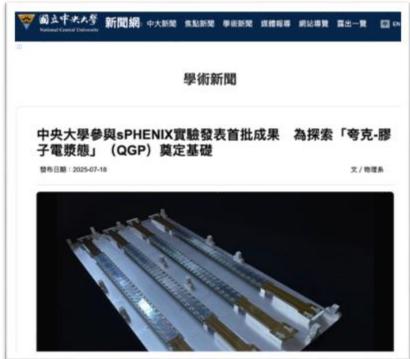
- Measured charge multiplicity in Au+Au using INTT
- In good agreement with existing RHIC data!
- 2025/8/12 Published from Journal of High Energy Physics.
- Cheng-Wei Shih (NCU) gave a plenary Talk at Initial Stage 2025 in NTU



Press Release



National Central University (Taiwan)





Brookhaven (USA)

RIKEN & Nara Women's Univ. (Japan)

First NIM Paper of sPHENIX Main Detector

Technical publications

| Name | Journal | arXiv | Date |
|---------------------------|--------------------------------------|--------------------------------|------------------------|
| INTT test beam | Sub. NIM-A | physics.ins- det/2509.00908 | Sep- tember 2025 |
| INTT ladder + read- | NIM-A 1082 (2026) 171020 | physics.ins- | March |
| out | | det/2503.09105 | 2025 |
| TPOT performance | NIM-A 1066 (2024) 169615 | physics.ins- det/2403.13789 | March 2024 |
| ACTS track reconstruction | Computing and Software for Big | physics.ins- | March |
| | Science 5 (2023) 23 | det/2103.06703 | 2021 |
| Test Beam 2D Pro- | IEEE Trans. Nucl. Sci. 68 (2021) 173 | physics.ins- | March |
| jective EMCal | | det/2003.13685 | 2020 |
| Test Beam EM- | IEEE Trans. Nucl. Sci. 65 (2018) | physics.ins- | April 2017 |
| Cal+HCal | 2901 | det/1704.01461 | |

https://www.sphenix.bnl.gov/PublicResults#final

Nuclear Instruments and Methods in Physics Research A 1082 (2026) 171020



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Nuclear Inst. and Methods in Physics Research, A





Full Length Article

The ladder and readout cables of intermediate silicon strip detector for sPHENIX

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Proposed plan for INTT Publications

| Topics | Target Journal | Leading Author | Timeline | Status |
|------------------------------------|--|--------------------------|-------------|------------------------------------|
| Bus Extender ✓ (Electrical) | The Japan Institute of Electronics Packaging | Takashi Kondo (TIRI) | 2022/Aug | Published |
| 2021 Beam Test √ | ELPH Ann. Rprt. | Genki/Cheng- Wei/Yuka | 2022/Winter | Published |
| INTT Ladder √ | NIM | ltaru | 2025/Sept. | published |
| 2021 Beam Test | NIM | Genki/Cheng-Wei | 2025/Summer | Submitted |
| INTT Barrel | NIM | Itaru/Rachid | 2025/Winter | In preparation |
| Bus Extender (Mechanical) | NIM | Takashi | 2026? | Final evaluation of the yield rate |

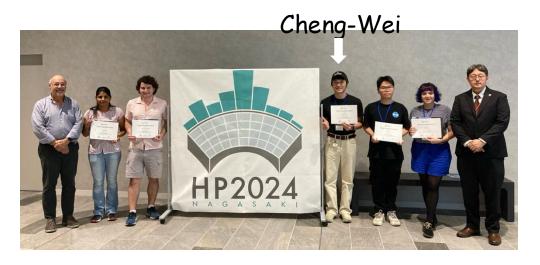
sPHENIX Poster/Presentation Awards

| Major Conference | sPHENIX Winner Subsystem | |
|------------------------|-------------------------------------|-------------|
| Initial Stages 2025 | Emma McLaughlin (Columbia U.) | Calorimeter |
| QM2025 | Jaein Hwang (Korea Univ.) | INTT |
| Hard Probe 2024 | Cheng-Wei (NCU) | INTT |
| QM2023 | Cheng-Wei (NCU) | INTT |

- 2024 Student Presentation Award of the Physical Society of Japan (Cheng-Wei, NCU)
- 2nd Year Doctoral Course Research Fellowships, Japan Society for the Promotion of Science (Ryotaro Koike, Kyoto Univ.)

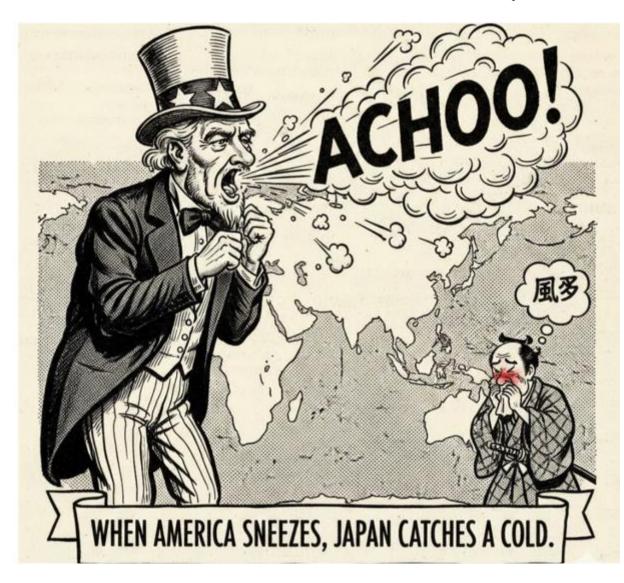


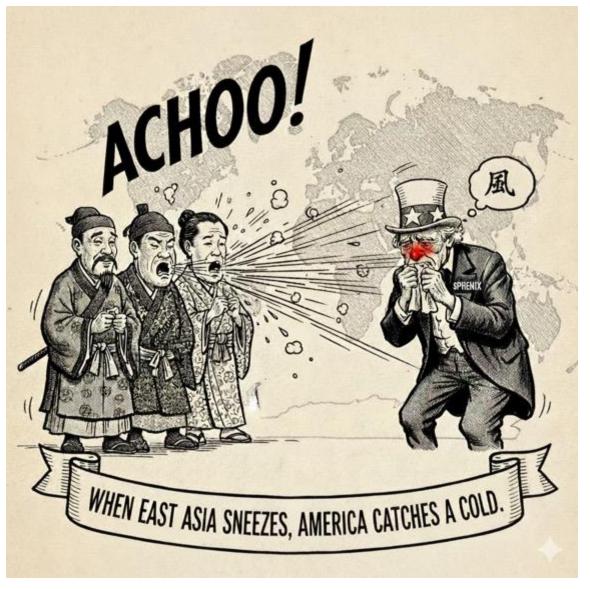




INTT team contributes to sPHENIX gaining worldwide recognition.

Take initiative of sPHENIX!





Summary

- sPHENIX is a new experiment at RHIC.
- Operation 2023 2025.
- Japan-Taiwan-Korea-USA are collaborating to build INTT silicon detector.
- Taking advantage of geographical advantage of eastern Asia, we formed very strong team.
- The INTT team has been successful in taking the initiative of sPHENIX experiment!