

*14th International “Hiroshima” Symposium on the
Development and Application of Semiconductor Tracking Detectors*

HSTD 14

November 16 - 21, 2025
Academia Sinica, Taipei

International Advisory Committee

P. Allport (Univ. Birmingham, UK)
N. Cartiglia (INFN Torino, Italy)
Y. Fukazawa (Hiroshima Univ., Japan)
M. Garcia-Sciveres (LBNL, Berkeley, US)
G. Hall (Imperial College, London, UK)
S. Hou (Academia Sinica, Taipei, Taiwan)
T. Ohsugi (Hiroshima Univ., Japan)
H.F.W. Sadrozinski (Univ. California, Santa Cruz, US)
A. Seiden (Univ. California, Santa Cruz, US)
T. Takahashi (Univ. Tokyo, Kashiwa, Japan)
Y. Unno (KEK, Tsukuba, Japan)
J. Wang (IHEP, Beijing, China)

TOPICS:

Detector Concepts, Simulations
Pixel and Strip Sensors
Avalanche-based Sensors
Sensors for Calorimetry
ASICs
Radiation Effects on Detectors
Radiation Tolerant Materials
Applications in Astrophysics, Biology,
Medicine and Medical Equipments
New Ideas and Future Applications

Key Dates:

Abstract submission: May 1 - Aug. 1
Registration: May 1 - Oct. 15

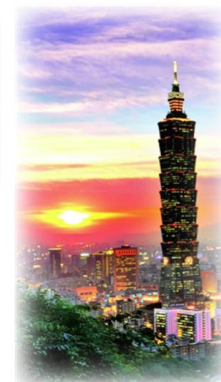
Contact: hstd14@sinica.edu.tw

<https://www-hep.phys.sinica.edu.tw/~HSTD14>



Local Committee

Suen Hou (Chair, AS)
Ling Yao Hsi (AS)
Tsui Shya Liu (AS)
Stathes Paganis (NTU)
Hong-Ju Shi (AS)
Yi Yang (AS)



14th Hiroshima Symposium (HSTD14)

Concluding Remarks

Y. Unno, S. Hou
representing IAC and LOC
for all participants and the organizers

Welcome and Thank you!!

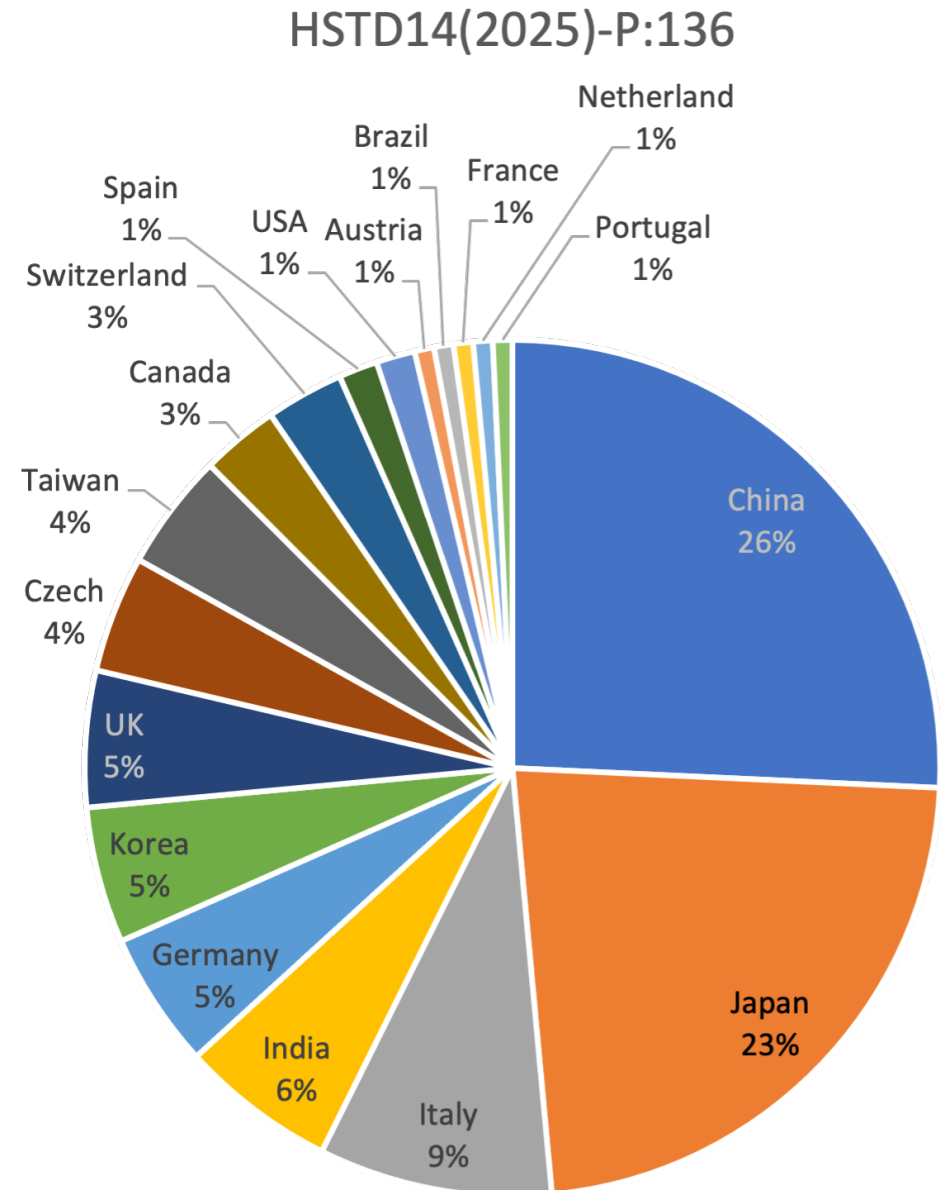
- First of all, to the participants from around the world, and to this intensive week
- The symposium would not have been successful without your contributions and participation.



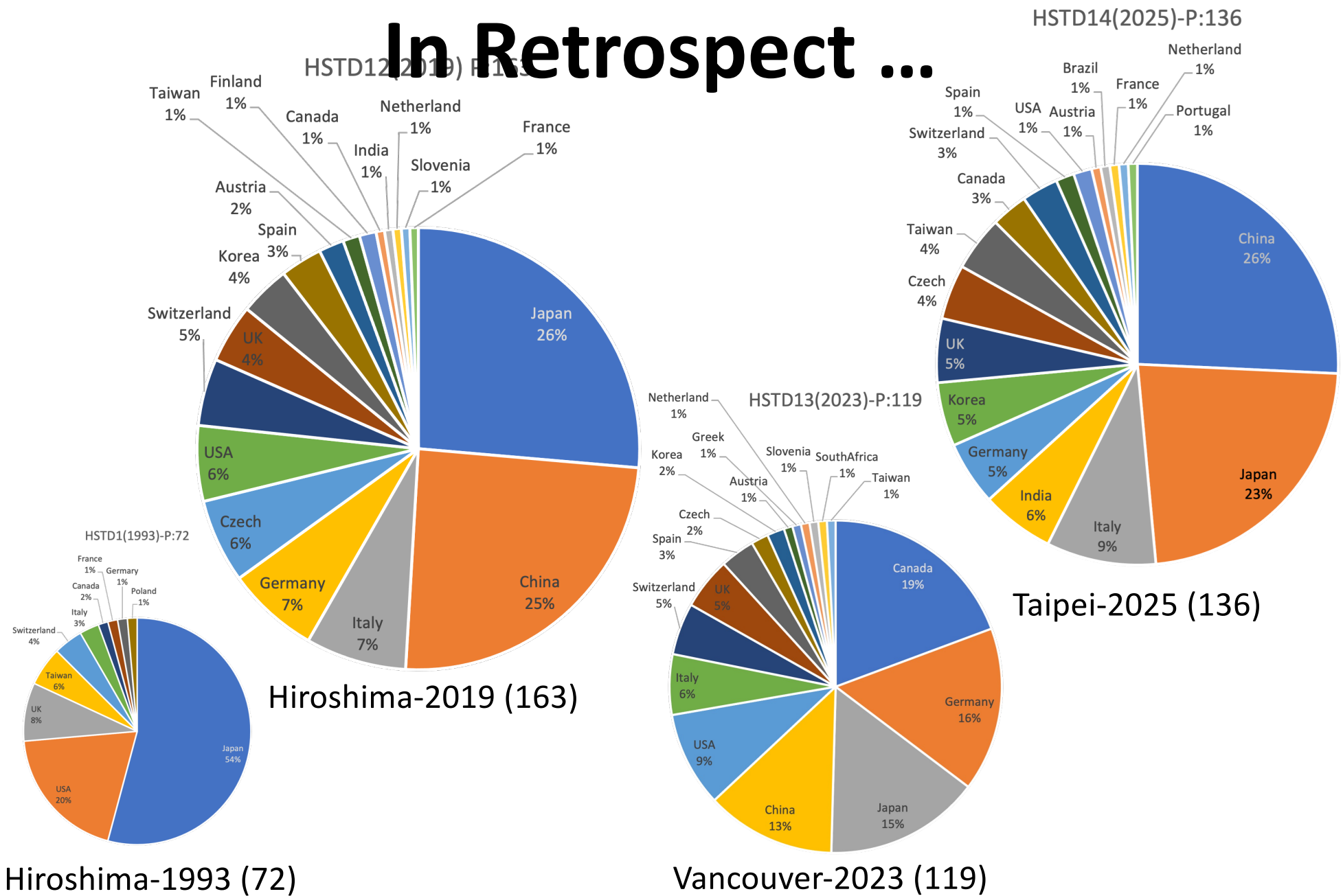
- ... An analysis of the participants is in the next page

Participants HSTD14

- Total: 136
- Austria 1
- Brazil 1
- Canada 4
- China 35
- Czech 6
- France 1
- Germany 7
- India 8
- Italy 12
- Japan 31
- Korea 7
- Netherland 1
- Portugal 1
- Spain 2
- Switzerland 4
- Taiwan 6
- UK 7
- USA 2



In Retrospect ...



- It is good to hold the symposia on both sides of the Pacific.

HSTD14 - Timetable

V1112

	Nov.16 Sun	Nov.17 Mon	Nov.18 Tue	Nov.19 Wed	Nov.20 Thu	Nov. 21 Fri
9:00		Mon-1 Opening 0.Det.Concept	Tue-1 1.Pixel.Strip	9:00 Wed-1 2.Aval.Sensor	Thu-1 7.App.Astro	Fri-1 8.New ideas
10:20		Coffee	Coffee	40' POSTER Q&A	Coffee	Coffee
10:50		Mon-2 0.Det.Concept	Tue-2 1.Pixel.Strip 5.Rad.Effect	11:00 Wed-2 2.Aval.Sensor	Thu-2 8.New ideas	Fri-2 8.New ideas Closing
12:10		lunch	lunch	12:20 lunch	lunch	lunch
14:00	All POSTER Put-up open 11/16 Presentation 11/16-11/21	Mon-3 0.Det.Concept 1.Pixel.Strip	Tue-3 5.Rad.Effect	14:10 Wed-3 2.Aval.Sensor	Excursion	Fare ware Short tours
15:20		Tea	Tea	40' POSTER Q&A		
15:50		Mon-4 1.Pixel.Strip	Tue-4 5.Rad.Effect 6.Rad.material	16:00 Wed-3 2.Aval.Sensor 7.App.Med		
17:30	Welcome	Reception	Night market / Taipei101		Dinner	



Opening by Director,
YuanHann Chang



Participants in the auditorium

Statistics of HSTD14 Scientific Program

- Diverse subjects:

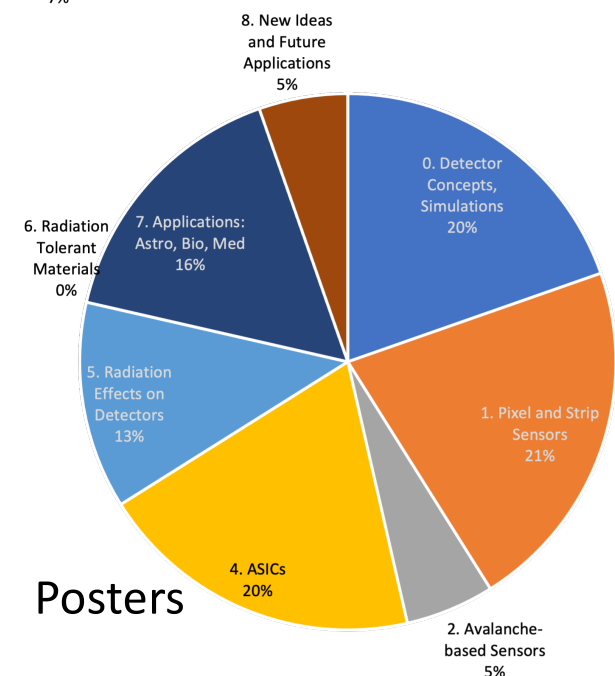
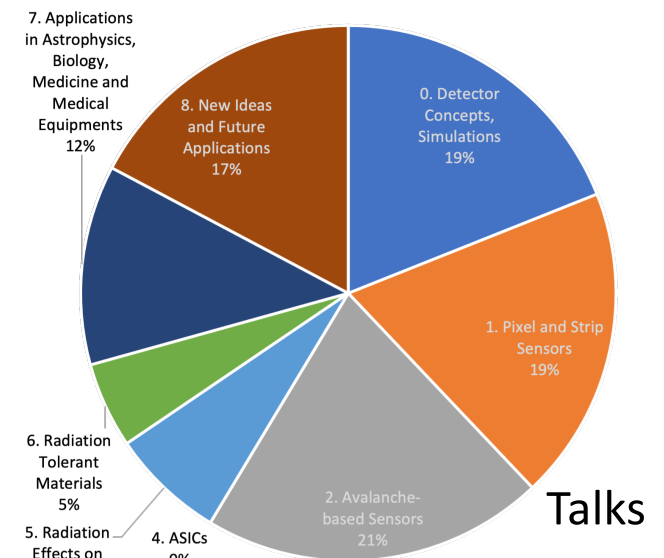
- 58 Talks
- 56 Posters

- Talks:

- ✓ 0. Detector Concepts, Simulations 11
- ✓ 1. Pixel and Strip Sensors 11
- ✓ 2. Avalanche-based Sensors 12
- ✓ 5. Radiation Effects on Detectors 4
- ✓ 6. Radiation Tolerant Materials 3
- ✓ 7. Applications in Astrophysics, Biology, Medicine and Medical Equipment 7
- ✓ 8. New Ideas and Future Applications 10

- Posters:

- ✓ 0. Detector Concepts, Simulations 11
- ✓ 1. Pixel and Strip Sensors 12
- ✓ 2. Avalanche-based Sensors 3
- ✓ 4. ASICs 11
- ✓ 5. Radiation Effects on Detectors 7
- ✓ 7. Applications: Astro, Bio, Med 9
- ✓ 8. New Ideas and Future Applications 3



Many interesting, topical contributions!

- On-going experiments remain healthy after radiation damage
- Production of the components for HL-LHC is progressing
- Great to see an LGAD integrated in a real system in HGTD
- Pixels and strips remain strong
- Detector development with gain is very active
- Many applications in Astro, medical, X-ray science, etc
- All of these efforts are complemented by the involvement of new generations, robust post-mortem analyses, studies on radiation damage, development of new materials, ...
- Good or bad, there could be concerns about the rapidly changing semiconductor industry

Social Program

- Pleasant parties! (Welcome (Sunday evening), Reception (Monday evening), ...)
- Coffee/Tea breaks, Poster presentations
- Excursion (Sky lantern in Shihfen and the nostalgic town of Jiufen)
- Conference Dinner (at Keelung Harbor)
- ... After all, we have successfully brought the "Symposium" to life
 - "Symposium - a drinking party or convivial discussion, especially as held in ancient Greece after a banquet – New Oxford Dictionary"

New Taipei crowd:136 Friends



- In the reception, posters, excursion, and the Dinner

And, if you have a chance (*),

- it's worth to visit the National Palace Museum, e.g.
- They have two master pieces: the Jadeite Cabbage and the Meat-shaped Stone, of course, among other treasures,
 - dedicated craftsmanship, similar to our semiconductor detectors



(*) if not, you should not regret because, during Sep-Dec 2025, the cabbage is in Prague

Giving Credits

International Advisory Com.:

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- G. Hall (Imperial C., UK)
- S. Hou (Academia Sinica)
- T. Ohsugi (Hiroshima, Japan)
- H.F-W. Sadrozinski (SCIPP, US)
- A. Seiden (SCIPP, US)
- T. Takahashi (U. Tokyo, Japan)
- Y. Unno (KEK, Japan)
- J. Wang (IHEP, Beijing, China)

Sponsors and Supporters:

- Academia Sinica
- Nat'l Sci. and Tech. Council
- Shui-Ching Lee foundation

Local Organizers:

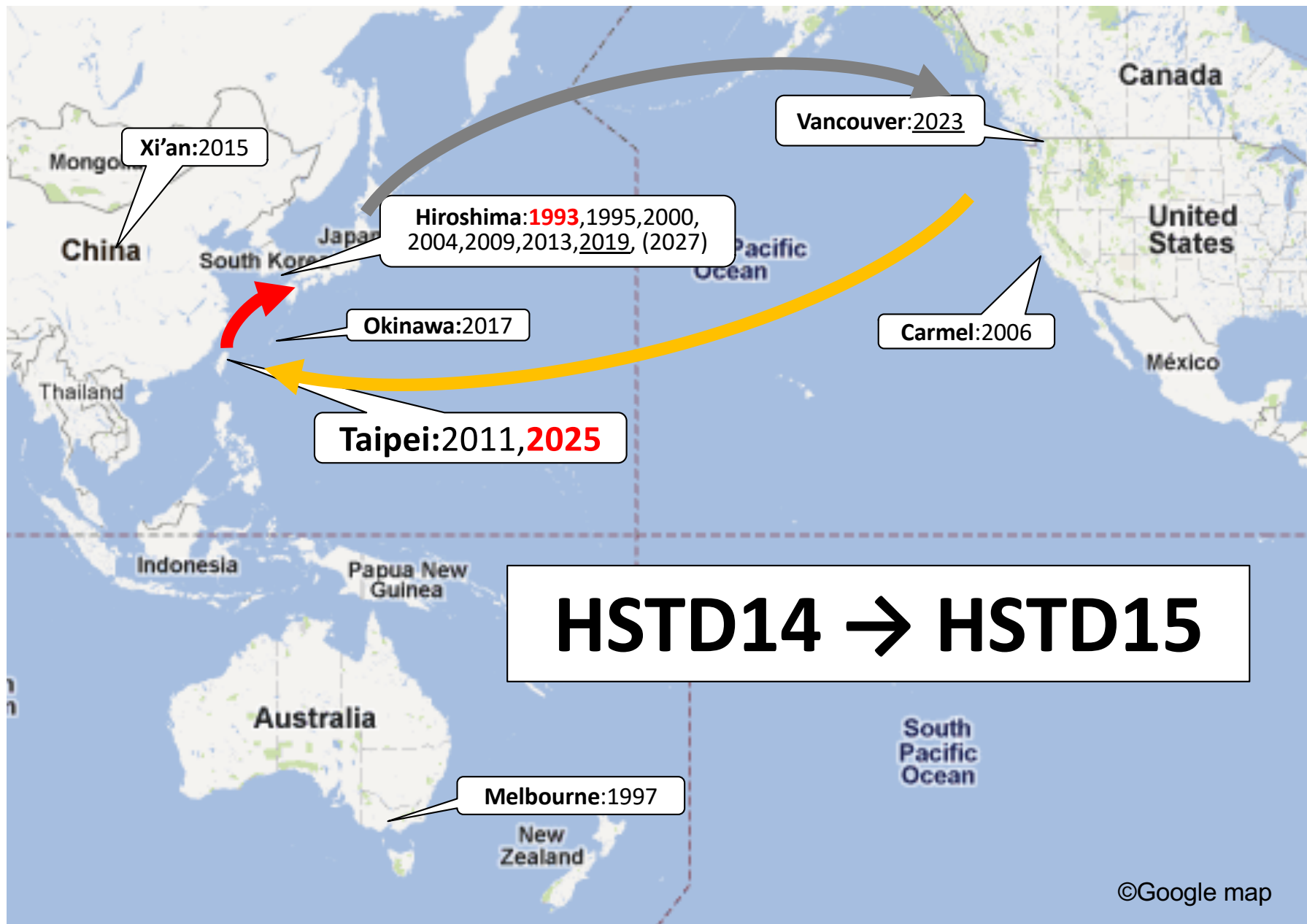
- Suen Hou (AS)
- Ling-Yao Hsi (AS)
- Tsui-Shya Liu (AS)
- Stathes Paganis (NTU)
- Hong-Ju Shi (AS)
- Yi Yang (AS)

Secretaries:

- Tracy Liu,
- Hong Ju Shi
- Emily Hsi
- Jingxuan Su
- Yan Jhen Liu
- Pu Kai Wang
- Yu Tang Wang

What's Next?

HSTD15 in 2027



“Hiroshima” symposia has been held around the Pacific rim, every 2-3 yrs, alternating one Hiroshima and two outside...

Taipei 2025 → Hiroshima 2027



Good bye, 2025



Hello, 2027

HSTD15 Organizers

- LOC members
 - Yasushi Fukazawa (Hiroshima U., Chair)
 - Kenta Shigaki
 - Yorito Yamaguchi
 - Hiromitsu Takahashi
 - Tsunefumi Mizuno
 - Yusuke Suda
 - Satoshi Yano
 - Yoshinobu Unno

One More Thing!

- HSTD14 is not finished yet!
- Your submission of the NIM Paper is forthcoming
- Watch the HSTD14 page for instructions
 - <https://www-hep.phys.sinica.edu.tw/~hstd14/>
- **Submission page opening:**

Dec. 1, 2025 – Feb. 28, 2026

- You can have a short break/rest to recover from the intensive sessions and the travel, but not much... 😊

Another One More...

- There is an announcement from our colleagues, after this presentation,
- Thus, the next page is "for the moment" ...

Good bye, and See you again in 2027!



Enjoy the rest of your time in Taipei, and Travel home safely