



Workshop on Recent Developments from QCD to Nuclear Matter

12/17 - 20
2025

5F, 1st Meeting Room, Institute of Physics, Academia Sinica

Invited Speakers

Kazuya Aoki /KEK
Elena Bratkovskaya /GSI
Evgeny Epelbaum /Rhein Univ., Bochum
Anthony Francis /NYCU
Kenji Fukushima /Univ. Tokyo
Yuki Fujimoto /Niigata U.
Yoshimasa Hidaka /ITPP Kyoto
Natsumi Ikeda /Kobe Univ.
Tadaaki Isobe /RIKEN
Masakiyo Kitazawa /ITPP Kyoto

Chia-Ming Kuo /National Central Univ.
Tomoya Naito /Univ. Tokyo
Takashi Nakatsukasa /Univ. Tsukuba
Yasushi Nara /Akita Int'l Univ.
Muneto Nitta /Kew Univ.
Alexander Rothkopf /Korea Univ.
Kenta Shigaki /Hiroshima Univ.
Daiki Suenaga /Nagoya Univ.
Hiroyuki Tajima /Univ. Tokyo
Yuya Tanizaki /ITPP Kyoto
Hajime Togashi /Kyoto Univ.

Organization Committee

Wen-Chen Chang /Academia Sinica
Philipp Gubler /JAEA
Tomoya Naito /University of Tokyo

Naoki Yamamoto /Keio University
Di-Lun Yang /Academia Sinica



Contact | Ms. CY. Svetlana Sam. samcy@as.edu.tw, 02-2789-8386

Sponsors



Introduction to Workshop on recent developments from QCD to nuclear matter

Di-Lun Yang

Institute of Physics, Academia Sinica (Dec. 17, 2025)

Organizers :

Wen-Chen Chang (Academia Sinica)
Philipp Gubler (JAEA)
Tomoya Naito (University of Tokyo)
Naoki Yamamoto (Keio University)
Di-Lun Yang (Academia Sinica)

The Institute of Physics, Academia Sinica

- Academia Sinica (AS, Latin: Academia Sinica, lit. 'Chinese Academy'; Chinese: 中央研究院; lit. 'Central Research Academy')
- It is a government founded research institute analogous to Max Planck Institute and RIKEN.



- The Institute of Physics (IoP) was founded in Shanghai in 1928 and was reestablished in Taipei in 1962.
- Current research areas of IoP can be grouped into four main categories: Quantum Materials Physics, Physics of Active and Living Matter, **Medium High Energy Experimental Group**, and **High Energy Theory Group**
- A new hub of National Center of Theoretical Sciences (physics div.) will be established in IoP from **Jan. 2026**. Please contact me if you are interested in visiting us.

Previous workshops

■ Workshop on Recent Developments in QCD and Quantum Field Theories



Organizers :

Jiunn-Wei Chen (National Taiwan Univ.)
Tetsuo Hatsuda (RIKEN iTHEMS)
Hsiang-Nan Li (Academia Sinica)
Di-Lun Yang (RIKEN Nishina Center)

■ Workshop on Recent Developments in Chiral Matter and Topology



Organizers :

Jiunn-Wei Chen (National Taiwan Univ.)
Guang-Yu Guo (National Taiwan Univ.)
Tetsuo Hatsuda (RIKEN iTHEMS)
Chang-Tse Hsieh (Kavli IPMU / ISSP, the Univ. of Tokyo)
Hsiang-Nan Li (Academia Sinica)
Tomoki Ozawa (RIKEN iTHEMS)
Di-Lun Yang (RIKEN Nishina Center; YITP, Kyoto)

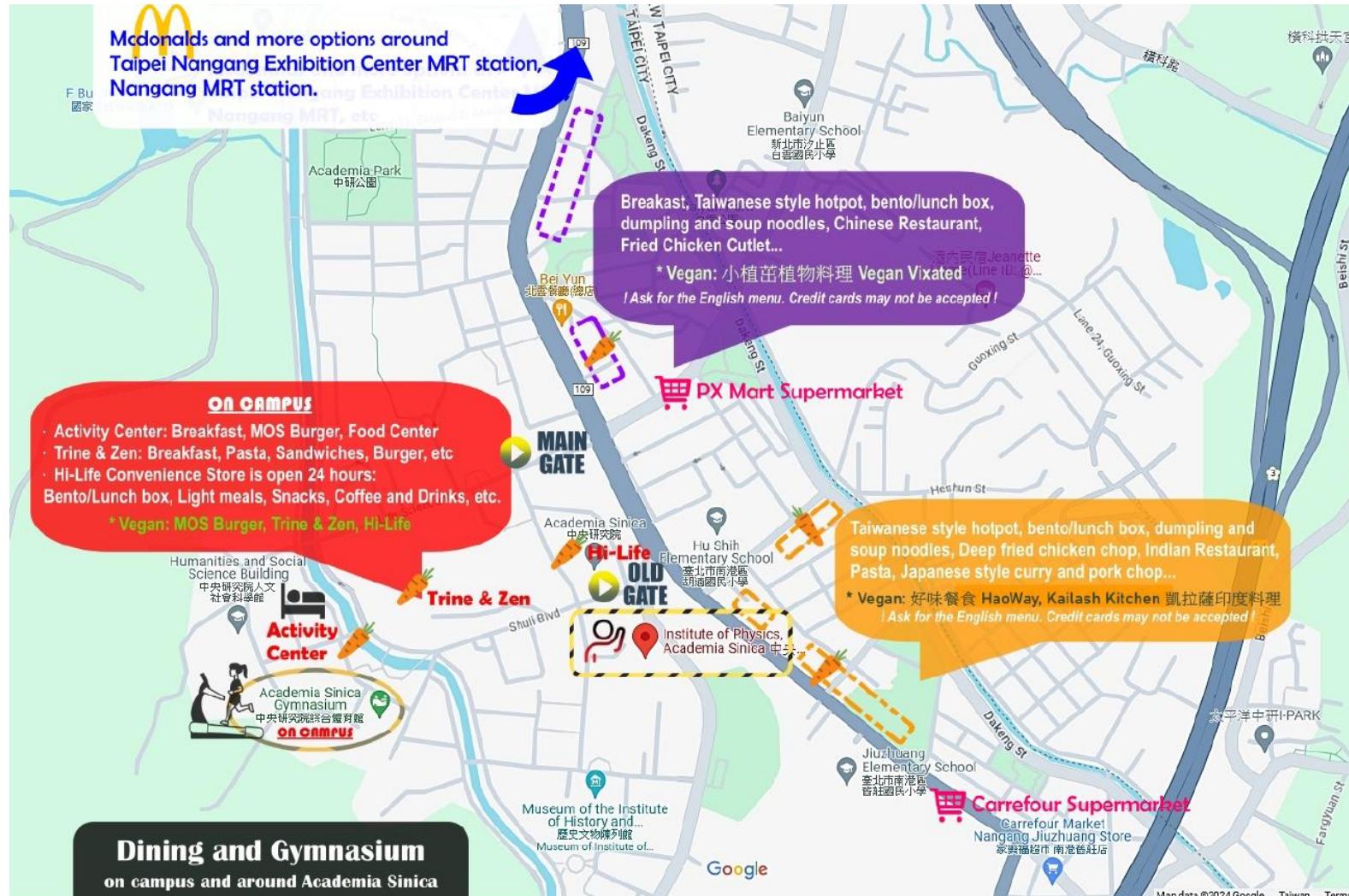
Scientific purposes

- To stimulate the “cross-field” interaction and collaboration for researchers interested in the following topics :
 1. Heavy ion collisions & high-energy QCD
(organizers : Wen-Chen Chang, Di-Lun Yang)
 2. Dense QCD matter & nuclear astrophysics
(organizers : Naoki Yamamoto)
 3. Dense hadronic & nuclear matter (including nuclear structure)
(organizers : Philipp Gubler, Tomoya Naito)
- ➡ We need the input from experts both inside and outside these fields and the cross talks between experimentalists and theorists.
- The workshop comprises 3 overview talks (40 min), 17 invited talks (30 min), and 10 contributed talks (20 min).

Workshop guidelines

- Some snacks & coffee will be served after 9:30 am. You are welcomed to come earlier for discussions.
- Dec. 19 (Friday) afternoon : free discussions or self-organized excursions
- Please upload or send me the slides preferably one day before your talk.
- Recommended : 35 min presentation + 5 min Q&A for the 40-min overview talk, 25 min presentation + 5 min Q&A for the 30-min talk, 17 min presentation+3 min Q&A for the 20-min talk. (~5 min extension is possible)
- One may ask questions during the presentation, but please postpone long discussions to Q&A or the break.
- We look forward to fruitful discussions, cross-field exchanges, and potential collaborations.

Lunch options



Excursion recommendations

1. National Palace Museum (by taxi)

(國立故宮博物院)



2. Jiufen Old Street (by taxi)

(九份老街)



3. Maokong Gondola

(貓空纜車)

