

NAPS2024

International workshop “Nuclear Astrophysics with Stable Beam 2024”

Tokai, Ibaraki, Japan, 20 -22 February 2024

Second circular

Dear colleagues

International workshop “Nuclear Astrophysics with Stable Beam 2024 (NAPS2024)” will be held from 20th Feb. to 22nd Feb. 2024 in Tokai, Ibaraki, Japan. The workshop is supported by

- ❖ Advanced Science Research Center (ASRC), Japan Atomic Energy Agency (JAEA)
- ❖ JSPS A3 Foresight Program
- ❖ Ukakuren (Japan Forum of Nuclear Astrophysics)

Workshop Web page is available at <https://asrc.jaea.go.jp/soshiki/gr/HENS-gr/NAPS2024/>

Scope of the workshop

In the NAPS2024, we will focus on nuclear reactions and structure relevant to nucleosynthesis in stars, by highlighting key reactions which can be studied using stable ion beams. We will exchange new ideas in experiment and theory, whereby possible collaboration programs will be also discussed among the participants. The subjects to be discussed include,

- (1) Big bang nucleosynthesis
- (2) s-process
- (3) rp-process
- (4) Fission recycle for r-process
- (5) Stellar burning

Workshop venue

Workshop will be held at “*Tokai Village Museum*”, Tokai, Ibaraki, Japan.

<https://www.guidoor.jp/en/places/6299>

The venue is located within a 10-min walking distance from the JR Tokai station.

Program

The program will consist of talks from the following invited speakers, supplemented by talks selected from the submitted abstracts, a tour of local facilities and a conference dinner.

Invited Speakers:

S. Ahn (CENS),	Y. Aritomo (Kindai),	K. Chae (Sungkyunkwan),
S. Hayakawa (CNS),	K. Hirose (JAEA),	N. Iwamoto (JAEA),
N. Iwasa (Tohoku),	S. Kimura (KEK),	Y. H. Lam (IMP),
W. Liu (CIAE),	H. Makii (JAEA),	M. Mumpower (LANL),
K. Sakanashi (Osaka),	S. Shibagaki (Wroclawski),	D. Suzuki (RIKEN),
X. Tang (IMP),	Y. Taniguchi (Kagawa College),	T. Teranishi (Kyushu),
N. Tominaga (NAOJ),	A. Tumino (Catania),	S. Q. Yan (CIAE)

Registration and abstract submission

Those who wish to participate and/or make a presentation can fill the registration form and send abstract to asrc-fission@jaea.go.jp. Template and details can be obtained from the workshop web page.

Deadline for abstract submission for oral presentation **17th Jan. 2024 (Extended)**.

Deadline of registration **26th Jan. 2024**.

Participants who need VISA are encouraged to register as early as possible.

Tour

We will visit JAEA tandem accelerator facility in Nuclear Science Research Institute of JAEA, <https://ttandem.jaea.go.jp/index-eng.html>, on **21st Feb. 2024 (Changed)**.

Social dinner

After the JAEA Tandem tour, we will have a dinner at a restaurant close to JR Katsuta station. The fee will be approximately JPY 6000 per person.

Accommodation

There are a number of hotels close to JR Katsuta Station and JR Mito Station, which are 10 and 15 minutes by the local train from JR Tokai Station, respectively. Please see the map on the web, https://asrc.jaea.go.jp/soshiki/gr/HENS-gr/NAPS2024/JR-Line_V3.JPG for details. Due to the greater amenities available nearby, we recommend that you stay at one of the hotels near Katsuta or Mito Station such as the Terrace Inn Katsuta. If you would like to consider other hotels, please visit the workshop web page.

Workshop Fees

The workshop is free for all participants.

Organizing Committee

K. Nishio (JAEA)-Chair, H. Makii (JAEA)-Scientific Secretary, S. Kubono (RIKEN), W. Liu (CIAE), N. Iwasa (Tohoku Univ.), X. Tang (IMP), K. Chae (Sungkyunkwan), S. Ahn (IBS), S.Q. Yan (CIAE), T. Kawabata (Osaka Univ.), A.N. Andreyev (Univ. of York), T. Katabuchi (Tokyo Tech), H. Yamaguchi (CNS, Univ. of Tokyo), T. Kajino (Beihang Univ.), T. Teranishi (Kyushu Univ.)

Local Organizing Committee

K. Nishio, H. Makii, H. Koura, N. Iwamoto, A. Kimura, R. Orlandi, J. Smallcombe (JAEA)
S. Kubono (RIKEN)

Schedule

Final circular: Early February 2024 (program and workshop detail)

Information

For more information, please contact to the local organizing committee.

e-mail: asrc-fission@jaea.go.jp