

The Low-Energy Electron Scattering for Nucleon and Exotic Nuclei

LEES2024

Sendai, Japan, Oct. 28th – Nov. 1st, 2024

First Circular

This is the first circular for the workshop LEES2024 (Low-Energy Electron-Scattering for Nucleon and Exotic Nuclei), which will be held from October 28th to November 1st in Sendai, Japan.

Overview

We are currently conducting two unique low-energy electron scattering experiments in Japan to study nucleon and exotic nuclei: ULQ2 (Ultra-Low Q2) with $E_e = 10 - 60$ MeV at Tohoku University and SCRIT with $E_e = 150 - 300$ MeV at RIKEN. The ULQ2 team has recently completed measurements of elastic electron scattering for the charge radius determination of proton covering the lowest-ever momentum transfer, and the SCRIT collaboration has successfully conducted the world's first electron scattering experiment for an online-produced radioactive isotope.

Considering such progress made in Japan, which showcases new research opportunities presented by low-energy electron scattering, we decided to host an international workshop in Japan to discuss recent findings, exchange insights, and foster future collaborations. LEES2024 is designed as an in-person workshop to discuss primarily the size and structure of nucleons and exotic nuclei and related studies underway worldwide. Possible uses of low-energy electron accelerators for new physics will also be an important topic of this workshop.

Key Topics

Experimental and theoretical studies on

Electron scattering for nucleons and nuclei including exotic ones,

Size and structure of nucleons and nuclei including exotic ones,

Photo-nuclear reaction,

New physics with high-intensity low-energy electron beams.

Scientific program

The program will consist of presentations by invited speakers, contributed presentations, and posters. The detailed program will be shown later on the workshop website.

Venue

The workshop will take place at the TOKYO ELECTRON House of Creativity, located on the Katahira Campus of Tohoku University. The campus is in downtown Sendai and is approximately a 15-minute walk from the Sendai Station. (Website: <https://www.tfc.tohoku.ac.jp/>)."

On the final day of the workshop, November 1st (Friday), we will convene at RARIS on the Mikamine Campus for additional sessions and a RARIS facility tour. We will provide a transportation bus between the Katahira Campus and the RARIS facility.

Accommodation

As late October is the best season for tourism in the Sendai area, hotels in Sendai are expected to be crowded. Workshop participants are advised to book their accommodation well in advance.

Important dates

June 10 th	Registration open
Oct. 10 th	Registration deadline:
Oct. 28 th – Nov. 1 st	Workshop
Oct. 28 th	Welcome reception
Oct. 29 th	Poster session
Oct. 30 th	Excursion (one day)
Oct. 31 st	Banquet
Nov. 1 st	RARIS Facility tour

Registration, Fees

The registration site will open on June 10th. Please register by Oct. 10th.

If you wish to present your research, please submit the title and abstract of your presentation at the registration.

The registration fee is JPY 30,000. This includes participation fees for this workshop, coffee break, welcome reception, excursion, and banquet. Concerning the accompanying person, the fee for the welcome reception, excursion, and banquet is JPY 15,000.

Registration fee will be paid at the workshop desk. Only cash (Japanese Yen) is accepted.

Excursion

The one-day excursion includes a boat trip to Matsushima, and a visit to Zuiganji Temple after a traditional Japanese-style lunch.

Matsushima is renowned as one of Japan's three most scenic spots, and late October is the best season to visit, offering beautiful autumn foliage and pleasant weather, and making the best season to enjoy this scenic area.

VISA

If you need VISA, please contact lees2024@raris.tohoku.ac.jp.

Workshop Website

LEES2024 <https://indico.lns.tohoku.ac.jp/e/LEES2024>

This workshop website will be updated accordingly.

Local Organizing Committee

Toshimi SUDA (RARIS , Tohoku Univ.) Chair

Yuki HONDA (RARIS , Tohoku Univ.)

Tetsuya OHNISHI (RIKEN Nishina Center)

Kyo TSUKADA (ICR, Kyoto Univ.)

Shun IIMURA (Rikkyo Univ.)

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Hosts

This workshop is hosted by the following universities and institutions.

Tohoku University, RARIS

RIKEN Nishina center accelerated-based science

Kyoto University, ICR

Rikkyo University