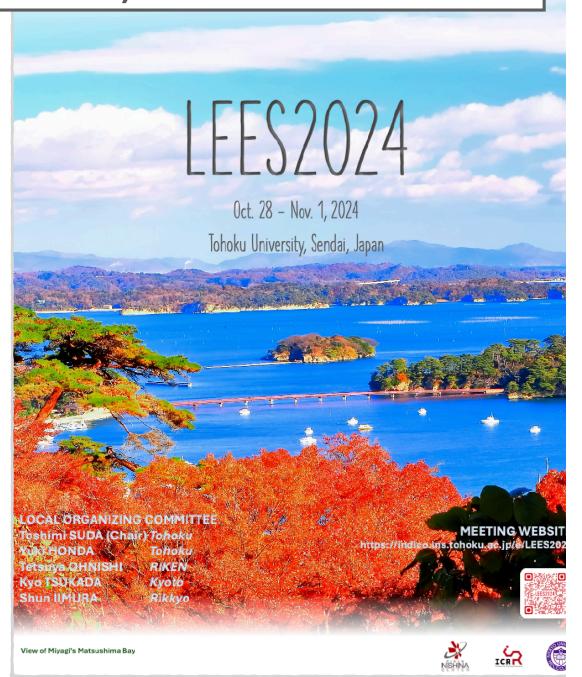
Low-Energy Electron Scattering for Nucleon and Exotic Nuclei (LEES2024)

Date: Oct. 28 - Nov. 1, 2024

Place: Sendai, JAPAN

participants 60 overseas 27

Oct. 28 reception
29 poster session
30 excursion
31 banquet
Nov. 1 RARiS facility



Low-energy electron scattering activities in Japan



$$Ee = 10 - 60 \text{ MeV}$$

$$\theta$$
e = 30 - 150 deg.

 $ULQ_2@Tohoku => Q^2 = 3x10^{-5} - 0.013 (GeV/c)^2$

SCRIT@RIKEN/RIBF

e-scattering of online-produced exotic nuclei (~107/sec)

$$Ee = 150 - 300 \text{ MeV}$$

$$\theta$$
e = 30 - 60 deg.

$$=> q = 80 - 300 \text{ MeV/c}$$

$$Q^2 = 0.006 - 0.09 (GeV/c)^2$$



Edito

Electron scattering provides a long-awaited view of unstable nuclei

Nuclear reactions produce a plethora of short-lived artificial isotopes. Figuring out what they look like has been a challenge.

The cartoon picture of an atomic nucleus looks kind of like the inside of a gumball machine that dispenses only two flavors: protons and neutrons, stranger the structures it can adopt. Short-lived nuclei might form bubble structures with depleted central density, or they might have a valence nuand colleagues, working at RIKEN's Radioactive Isotope Beam Factory (RIBF) in Wako, Japan, have performed the first electron-scattering experiment on unstable nuclei produced on the fly in a nuclear reaction.¹ Their isotope of choice, cesium-137, has a half-life of 30 years. It's not so exotic that the research-

electron scattering - *the gold standard for probing nuclear structure* - has been off
limits to short-lived nuclei



Shortigated

01 November 2023 22:46:01

Lunch etc.

Lunch: 1) so many options in the city center

2) campus cafeteria campus restaurant

Stores: 1) campus store

2) "seven-eleven"

3) many in downtown



Wifi: eduroam only

we have several eduroam guest accounts contact LOC if you need

Coffee break: 1F foyer

3F water

LOC members

Toshimi SUDA (Tohoku)
Yuki HONDA (Tohoku)
Tetsuya OHNISHI (RIKEN)
Shun IIMURA (Rikkyo)
Kyo TSUKADA(Kyoto)

Yuka CHIBA (Tohoku) Midori TAKEMON (Kyoto)



Special exhibition on the famous Chinese writer, Lu Xun,



Financial support for the LEES workshop

· JSPS



Sendai city



· Grad. School of Science, Tohoku Univ.



· RARiS, Tohoku Univ.



Nishina Center, RIKEN

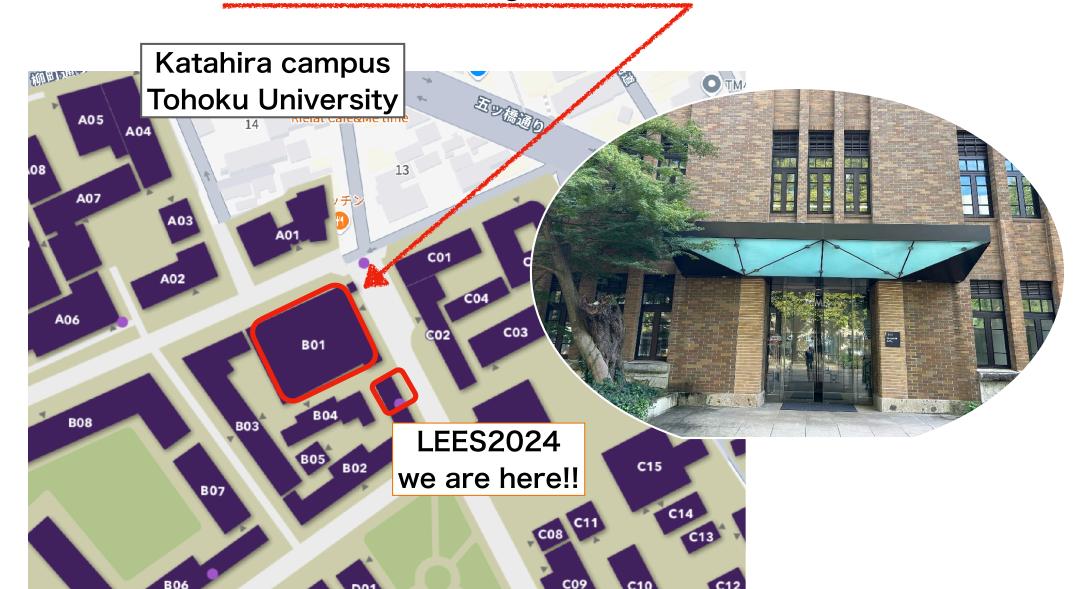


Kyoto University



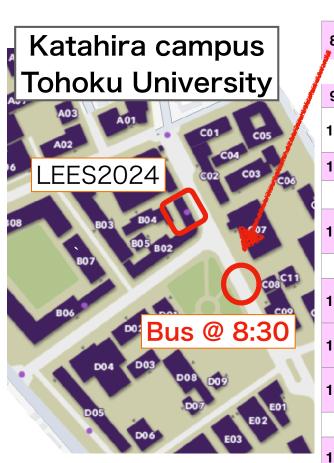
LEES2024 Reception

- 1) October 28 (Monday) 19:00 -
- 2) AIMR (next building) 5F floor



LEES2024 Excursion

- 1) October 30 (Wednesday) 8:30 17:00
- 2) Matsushima (one of the three most scenic spots of Japan) https://www.matsushima-kanko.com/en/



	Time	Events	Place/Transportation	
	8:30	meet up	Katahira Campus	
j	1		Bus	
	9:45		Shiogama Port	1
	10:00		Excursion boat	
	11:30		Shiogama Port	
			Bus	
	12:00	Lunch	TAIKANSO restaurant	1
١			Bus	
	13:30		Zuiganji-Temple	
	15:00		Free time at Matsushima area	
	16:00		Meet at Bus parking place announced later	C
			Bus	K
	17:00	Return	Katahira Campus	



LEES2024 Banquet @ "SS30"

"SS30" is a landmark skyscraper located in the heart of Sendai City.

1) October 31 (Thursday) welcome drink 18:30 -

dinner 19:00 -

2) Restaurant



SS30-building 28F



LEES2024@RARiS

Research Center for Accelerator and Radioisotope Science

1) Meeting on Nov.1 (Fri.) will be held at the RARiS facility

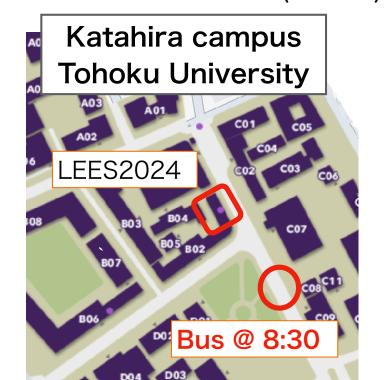
LEES sessions + ULQ2 tour Lunch box will be provided

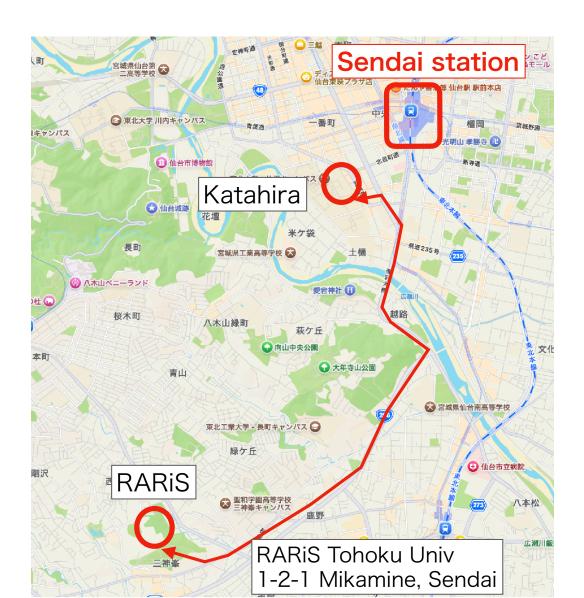
2) Bus service

Katahira (8:30) => RARiS

RARiS session starts at 9:15

RARiS => Katahira (~17:00)





LEES2024 Excursion on Oct. 30

Matsushima Bay Area

Time	Place/Transportation			
8:30	Katahira Campus			
	Bus			
9:45	Shiogama Port			
10:00	Excursion boat			
11:30	Shiogama Port			
	Bus			
12:00	Lunch @TAIKANSO Hotel			
	Bus			
13:30	Zuiganji-Temple			
15:00	Free time			
16:00	Bus @ parking place			
	Bus			
17:00	:00 Katahira Campus			

