

International Conference on Shapes and Symmetries in Nuclei: from Experiment to Theory (SSNET 2024)

Orsay, November 4th – 8th 2024

Second circular

April 15, 2024

The Conference “*Shapes and Symmetries in Nuclei: from Experiment to Theory*” (SSNET 2024) will be hosted by the *Laboratoire de Physique des 2 Infinis Irène Joliot-Curie (IJCLab)* from **November 4th to 8th 2024 in Orsay, France**.

We plan to organize the conference with the physical presence of all participants.

The conference website is <https://indico.in2p3.fr/event/31262/>.

The conference poster can be downloaded from the conference site, in A3 or A4 size format. We invite you to transmit this information in your institution for broader information.

Scientific program

The program will consist of plenary presentations by invited speakers and contributions selected among submitted abstracts, as well as of a poster session. The main topics are:

1. Experimental studies of spherical and deformed ground and excited states in nuclei
2. New facilities
3. Experimental methods and instrumentation
4. Theoretical methods at the frontiers of contemporary nuclear structure studies
5. Theoretical studies of symmetries including uncertainties of modelling

There will be several topical sessions focused on:

- Shapes and shape-related structures in nuclei
- Nuclei without axial symmetry
- Clustering in nuclei
- Molecular symmetries in subatomic systems: from theory to experiment
- Highlights from large scale facilities and laboratories
- Coulomb excitation
- New isomeric decay modes
- Super-heavy nuclei
- Effective electromagnetic operators
- Exotic nuclei
- Energy density functional theory
- New results for neutron-rich heavy nuclei
- Nuclear ab initio approach
- Nuclear ground state properties: new methods and results

Important dates

Pre-registration and abstract submission open – December 3rd, 2023

Administrative registration and payment open – April 10th, 2024

Abstracts submission deadline - June 30th, 2024

Final conference program - July 15th

Registration and payment deadline – September 30th, 2024

Conference venue

The SSNET conference will take place at the Paris-Saclay University Campus at Orsay, France. The scientific sessions will be held in the Lehmann auditorium. All hotels listed on the SSNET website are within relatively short walking distance to the Orsay campus.

Registration

The registration and abstract submission need to be completed on the *indico* website. Each participant is invited to create an “Indico” account on the conference website by clicking on the “Registration form”. Once the “Indico” account is created, you can register and submit your abstract.

A second registration is required to proceed with the payment of the conference fee, on the following CNRS website

<https://dr04.azur-colloque.fr/inscription/fr/312/preinscription>

Each participant is invited to fill in the required information following the user-friendly dialogue on the website. Any questions concerning the registration or payment of the conference fee may also be addressed to SSNET2024@ijclab.in2p3.fr.

The conference fee of 350 Euros covers the participation at the meeting, 5 lunches (from Monday to Friday), the conference dinner, the refreshments at the coffee breaks, the welcome cocktail, the poster session cocktail, the transportation and excursion in Paris, and the workshop gadgets.

There will be 150 Euro fee for accompanying persons, which will include the welcome cocktail, the excursion to Paris, and the conference dinner.

The preferred method of payment is by credit card.

Accommodation

The participants are invited to make their own reservations.

Information about the accommodation can be found on the SSNET 2024 website.

Warning: The SSNET organizing committee will not send any mail offering to assist you when booking your accommodation. Consider such mails as spams, and follow instead the directions provided on the SSNET *indico* website!

Support for students and post-docs

Financial support will be provided for a limited number of students and post-docs. Financial support can be requested using the registration form; it can cover the conference fee and/or local accommodation costs.

Four prizes of 312.5 Euros each will be awarded to the best experimental and theory posters.

Abstract submission

The abstract submission is open. Authors are invited to select a subject corresponding to the list of 5 topics and topical sessions included in the conference and indicate the preferred presentation type: oral or poster. Depending on the available time slots we will try to offer an opportunity of the oral presentation to all abstracts submitted by registered participants – needless to say – the early submission of propositions and early registration will be very helpful in this respect. The authors of the propositions selected for oral presentation will be notified by June 30th 2024. All abstracts should be submitted via our web interface, through which an additional pdf file can also be joined. Upload a maximum of 1 page in A4 format, 12pt Times New Roman font in PDF format only. The presenting author is to be listed first. The abstract should be written in English.

Publication of the Conference Scientific Outcome

Selected original articles related to the Conference Scientific Program will be collated in an edited volume which will be published by CRC Press, Taylor & Francis Group, Oxford, UK. Detailed instructions for the authors as well as the templates in LaTeX or MS Word will be available on the web-page of the conference.

Program

The conference will start on Monday, November 4th, at 9:00 am, and close on Friday November 8th at 5:00 pm. The sessions will be held in the Lehmann auditorium within the Orsay Campus. A welcome cocktail will be offered on Monday evening, November 4th. The poster session accompanied by a cocktail will take place on Tuesday, November 5th. An excursion to Paris will be organized on Thursday, November 7th, afternoon, including a visit of the Orsay Museum, and a social dinner in the restaurant of the museum.

Exhibition

An exhibition area will be made available in close proximity to the lecture hall for the duration of the conference and will provide outstanding opportunities for the sponsoring institutions to exhibit products to the specialized international audience.

Venue and travel

The conference will be held at the Orsay campus, France. Orsay is located at about 25 km south-west of Paris. The campus site is accessible from Paris via RER B, Orsay-Ville station (35 min from Châtelet Les Halles).

- **From Roissy airport :**
Take RER B direction Saint Rémy lès Chevreuse. There is a train roughly every 15 minutes. Get off at Orsay-Ville.
- **From Orly airport :**
Take Orlyval to Antony then RER B to Orsay-Ville.

- **From Paris-Gare de Lyon:**
Take RER A towards Saint Germain en Laye. Change at Châtelet Les Halles and take RER B towards Saint Rémy lès Chevreuse to Orsay-Ville station.
- **From Paris by car :**
You can take the A6 / A10 through the exit of Orleans or the N118 from the Sèvres bridge. The exit to follow is "Orsay-Ville".

Visas

Participants need to ensure that they have the proper documents and visas to enter France. To request a support letter for your visa applications, please register and send an email to

SSNET2024@ijclab.in2p3.fr

We are looking forward to seeing you at Orsay!

Chairmen:

C. M. Petrache (IJCLab) – chair

J. Dudek (IPHC) - co-chair

Local organizing committee (IJCLab):

Alain Astier

Isabelle Deloncle

Amel Korichi

Radomira Lozeva

Costel Petrache

Conference secretaries (IJCLab):

Emilie Bonnardel

Valérie Brouillard

Vincent Jourdain

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