

**INTERNATIONAL SCIENTIFIC MEETING ON NUCLEAR PHYSICS. LA
RÁBIDA 2025****Basic concepts in Nuclear Physics: theory, experiments and applications.
FIRST ANNOUNCEMENT**

Dear colleagues and friends,

This is the first announcement of the 2025 La Rábida International Scientific Meeting on Nuclear Physics: “*Basic concepts in Nuclear Physics: theory, experiments and applications*”.

The event will take place from June 16th to June 20th, 2025 (arrival: Sunday, June 15th; departure: morning of Saturday, June 21st) on the campus of the International University of Andalucía (UNIA) at La Rábida. This UNIA campus is fully equipped for hosting such events, providing a very pleasant and relaxed atmosphere fostering close interactions among the participants. Facilities include a library, computer access, lecture rooms, and gardens and entertainment places. Board and lodging are included in the registration fee. La Rábida (province of Huelva, Spain) is within walking distance from the “Monasterio de Santa María de La Rábida”, the Franciscan monastery where Columbus sought refuge in 1490. It is also close to the beach and to the Doñana National Park (approximately half an hour away by car).

The School, that lasting five days, aims to provide students and young postdocs with a comprehensive education in the field of Nuclear Physics, presenting in a clear and pedagogical way basic concepts of Nuclear Physics. Lecturers will present fundamental concepts of the field and explore their various applications in different areas of human activity in a clear and pedagogical way.

This new edition follows closely the framework of five previous meetings, held in 2009, 2012, 2015, 2018, 2022 (see <http://institucional.us.es/rabida/>). The origins of this event be traced back to the International Summer Schools organized by the Nuclear Physics Group at the University of Sevilla during the 1980s.

While lectures will form the core of the meeting, active participant contributions are expected through discussions and presentations of their work. Time will also be allocated for selected seminars, short oral communications, or poster sessions.

Topics and lecturers

The meeting offer the participants the opportunity to get in close contact with experienced researchers and gain insights into the current state-of-the-art in key areas of Nuclear Physics. The program is divided into three main topics: theory, experiments, and applications. Considering the available time, we have selected six speakers, each delivering four hours of lectures. The list of speakers and topics is as follows:

- Dr. N. Belcarì (U. Pisa, Italy). Topic: *Nuclear medicine*.
- Dr. A. Ekström (Chalmers U. of Technology, Sweden). Topic: *Ab initio calculations*.
- Dr. S. Kraemer (KU Leuven, Belgium) . Topic: *Nuclear clocks*.
- Dr. R. García Ruiz (MIT, USA). Topic: *Laser spectrometry*.
- Dr. P. Garrett (U. Guelph, Canada). Topic: *Nuclear spectroscopy*.
- Dr. P. Van Isacker (GANIL, Caen, France. Topic: *Group-theory based models*.

The organizers have emphasized to the lecturers the importance of the interaction with young students, and the pedagogical character of the meeting.

Fees

The registration fee is **Euros 500**. It includes the participation in the meeting, six days of full board and lodging in a double room (from Sunday evening, June 15th, to Saturday morning, June 21st) social events, and the bus Sevilla–La Rábida (round trip).

A limited number of single and accessible rooms may also be available. **Scholarships** covering board and/or accommodation will be offered in some cases, PhD students and young postdocs are encouraged to apply.

Applications and Contact Information

The application form will be soon (January 2025) available on the web page of the Meeting, and a preliminary program will be sent as soon as possible with the second announcement.

Meeting Web Page: <http://institucional.us.es/rabida>. The e-mail address for correspondence is: rabida@us.es

Organizing Committee

HUELVA UNIVERSITY: José-Enrique García-Ramos (chair), Curro Pérez-Bernal, and Ángel M. Sánchez-Benítez

SEVILLA UNIVERSITY: María Victoria Andrés, José Antonio Lay, and Antonio M. Moro.
The meeting is jointly organized with Universidad Internacional de Andalucía (UNIA).

International Advisory Committee

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