



**Basic concepts in Nuclear Physics: theory, experiments and applications.**

**July 4<sup>th</sup> – 10<sup>th</sup>, 2009**

**La Rábida, Huelva (SPAIN)**

## **FIRST ANNOUNCEMENT**

Dear colleagues and friends,

This is the first announcement of the 2009 La Rábida International Scientific Meeting on Nuclear Physics: *“Basic concepts in Nuclear Physics: theory, experiments and applications”*.

The event will take place from July 4th (arrival day) to 10th (departure day), 2009 in the campus of the International University of Andalucía (UNIA) at La Rábida. This campus is fully equipped for this kind of events, providing also a very pleasant and relaxed atmosphere that favours a close contact among the participants. It includes library, lecture, computer and seminar rooms, as well as gardens and entertainment places. Residence, restaurant and coffee services are also provided. La Rábida (province of Huelva) is on a walking distance from “Monasterio de Santa María de La Rábida”, the franciscan monastery where Columbus took refuge in 1490. It is also close (about half an hour) to the beach and Doñana National Park.

The Nuclear Physics Group at the University of Sevilla has a long tradition organizing International Summer Schools on topics related to Nuclear Physics. There have been, up to now, eight editions in which very different subjects have been covered. The title for the next edition is: “Basic concepts in Nuclear Physics: theory, experiments and applications”.

The School, that will last one week, aims to provide the students and young postdocs a wide and solid education in the field of Nuclear Physics, showing in a clear and pleasant way the basic concepts of Nuclear Physics and their multiple applications in very different aspects of the human activity. In addition, we intend the lectures to be collected in a book that could be used as a reference text.

Although the lectures will constitute the main part of the meeting, an active contribution of the participants is expected with discussions and presentation of their own works. There will be some time for selected seminars, short communications or poster sessions.

## Topics and lecturers

The objective of the meeting is to give the attendance the opportunity to get in close contact with experienced researchers and hear their clear account of the nowadays state-of-the-art in some hot topics in Nuclear Physics. The course is proposed to be divided in three main topics: theory (studies of nuclear structure and the mechanism of nuclear reactions), experiments (performed in different facilities for a very diverse range of energy), and applications (technology, medical physics, etc.). Having in mind the time available, we have selected six speakers, four hour lecturing each one. The list of speakers and topics is as follows:

- Prof. K. Heyde. Gent University (Belgium) (to be confirmed). Topic: *General Ideas on Nuclear Structure*.
- Prof. Oliver Jäkel. University of Heidelberg (Germany). Topic: *Heavy Ion Therapy*.
- Prof. Jan Jolie. University of Cologne (Germany). Topic: *Symmetries in Nuclear Systems*.
- Prof. Giuseppina Orlandini. University of Trento (Italy). Topic: *Physics of Electroweak Interactions*.
- Prof. Patricia Roussel Chomaz. GANIL (France). Topic: *Direct Reactions with Exotic Beams*.
- Prof. Hans-Arno Synal. ETH Zürich (Switzerland). Topic: *Accelerator Mass Spectrometry*.

The organizers have emphasized in the invitation letter to the lecturers the importance of interaction with young students, as well as the pedagogical character the meeting should have.

## Fees

The fee is EUROs 360. It covers the participation in the meeting as well as the 6 days full board and lodging in double room (from the evening of Saturday, July 4<sup>th</sup>, to the morning of Friday, July 10<sup>th</sup>), social events and the bus Sevilla-la Rábida (two way trip). A few number of single rooms will also be available and some scholarships covering board and/or accommodation could be provided for students.

## Applications and Contact Information

The application form is already 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://www.uhu.es/gem/meeting/rabida2009/>

The e-mail address for correspondence is: [rabida09@us.es](mailto:rabida09@us.es)

## Organizing Committee

SEVILLA UNIVERSITY:

Juan A. Caballero (director), Clara E. Alonso and María Victoria Andrés.

HUELVA UNIVERSITY:

José E. García-Ramos and Francisco Pérez-Bernal.