



EUROSCHOOL ON EXOTIC BEAMS

organized by the "Instituut voor Kern- en Stralingsfysica, KU Leuven" in the framework of the Human Capital and Mobility Program of the Commission of the European Union

Leuven, Belgium September 2 - 6, 1996

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FIRST BULLETIN

The fourth "Euroscool on Exotic Beams" will be held in Leuven, Belgium from September 2 to September 6, 1996. The School is intended for PhD students and young post-docs starting to work in the fields related to radioactive ion beams.

The school is set up by a board of directors active in four major European facilities for radioactive ion beams: ARENAS³, Louvain-la-Neuve; ISOLDE-CERN, Geneva; GANIL, Caen and GSI, Darmstadt. In order to keep the organizational work and the financial costs as low as possible, we have chosen to hold the school every year at the University of Leuven. The responsibility for the scientific program, however, will be taken by one of the four teams, on a rotational base. This year the scientific organization lies in the hands of J. Vervier, Louvain-la-Neuve and M. Huyse, P. Van Duppen, KU Leuven.

This first bulletin includes information on the scientific and social program of the school as well as on transportation, registration and accommodation.

General scope

The production and use of energetic radioactive beams is a rapidly developing new field in Nuclear Physics, especially in Europe. Pioneering experiments are taking place, dedicated facilities are being commissioned and new facilities are proposed. Several workshops and conferences have been devoted to this new field and the senior scientists have ample opportunities to be informed on the latest developments. Young PhD students and post-docs encounter more difficulties to be introduced to this new area and to receive both the basic and the detailed information. The European Union has created the possibility to set up Euroconferences where "*the leading scientists are brought together with the youngest scientists in a specific field...*" Therefore, we have taken the initiative to organize an annual school on exotic beams.

In a one week's program it is not possible to give a complete introduction to all technical and scientific aspects of the production and use of energetic radioactive beams. As a consequence a selection had to be made.

The lectures, given by specialists in the field, will start from a basic level.

The organization of the school

The school is hosted by the University of Leuven. The city of Leuven is an ancient town which history is closely related to that of the 570-year old university. It is located in the Flemish part of Belgium, some 25 km from Brussels (and its airport) and some 30 km from Louvain-la-Neuve where the Walloon sister university is situated. Leuven can easily be reached by car (E40 highway) and by train (Brussels-Cologne). A shuttle bus between the Leuven railway station and the school site will be organized on Sunday, September 1, 1996.

All activities of the school will take place in the parks of the Arenberg Castle where the Science and Sports Campus is situated. Participants will be accommodated on a half-board basis (breakfast and lunch) in students residences located in the park. The lectures are given in an auditorium in the castle and are scheduled from 9 a.m. to 12 a.m. and from 3 p.m. to 6 p.m. They start on Monday, September 2, 1996, at 9 a.m. and end on Friday, September 6, 1996 at 12 a.m. On Wednesday afternoon a visit to the "Ion and Molecular Beam Laboratory" of the "Instituut voor Kern- en Stralingsfysica" of the KU Leuven is planned. The school's banquet is on Thursday evening. Sporting facilities are available in the afternoon and evening. Dinner can be taken in one of the many restaurants in the old center of the town (15 minutes walking).

Registration fee

The registration fee is 7500 BF and includes the registration to the school, the welcome reception and the school's banquet.

Accommodation

All participants will be accommodated in student residences. The price for the week (from Sunday evening to Friday morning), including breakfast and lunch, is 6500 BF. Students from the European Union and from countries subscribing to the Human Capital and Mobility (HCM) program of the EU are accommodated free of charge.

Application

In order to fulfill the goals of the school, the total number of participants, including the lecturers, has been limited to 70 people. The dead-line for the application to the school is set on May 1, 1996. A selection will be made and the applicants will be notified by the end of June.

Grants

The school is sponsored by the Human Capital and Mobility program of the European Union. The accommodation of EU students or of students from countries subscribing the HCM program will be provided. Additional grants, e.g. for the registration and/or for travel expenses, can be obtained upon request. Students from the less-favored regions of Europe will have a higher priority.

Scientific program

A choice has been made to limit the number of subjects in order to have the possibility to start at a basic level and to grow in more detail. Four lecturers will give the main courses (16 hours in total). Four additional hours are dedicated to special topics. Time is foreseen for students who are interested in giving a brief oral presentation of their scientific work (15 min). If you wish to do so, please fill in the title of your contribution on the application form.

Lectures

"Recent developments in Ge detector technology"

J. Eberth (University of Cologne)

"Fundamental interaction studies through the decay of radioactive isotopes"

P. Quin (University of Wisconsin)

"Reactions with light unstable nuclei"

A. C. Shotter (University of Edinburgh)

"Nuclear astrophysics, an experimental approach"

K.-L. Kratz (University of Mainz)

Special Topics

"Radioactive Beams in Nuclear Astrophysics"

J. Vervier (University of Louvain-la-Neuve)

"Selective ionization with laser light"

L. Vermeeren (University of Leuven)

For more information, please contact

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