

# EUROSCHOOL ON EXOTIC BEAMS

organized by the "Instituut voor Kern- en Stralingsfysica, K.U.Leuven" in the framework of the Training and Mobility of Researchers Program of the Commission of the European Union.

Leuven, Belgium September 1 - 5, 1997

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## FIRST BULLETIN

The fifth "Euroscool on Exotic Beams" will be held in Leuven, Belgium from September 1 to September 5, 1997. The School is intended for Ph.D. 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: ARENAS<sup>3</sup>, 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 E. Roeckl and G. Münzenberg, GSI-Darmstadt.

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 Ph.D. 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 has to be made. The lectures, given by specialists in the field, will start from a basic level.

## 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. Five lecturers will give the main courses. 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

*"Relativistic beams of fission products"*

M. Bernas (IPN, Orsay)

*"Shell model studies of nuclei near the proton drip line"*

B. A. Brown (MSU, East Lansing)

*"In-beam and beta-decay spectroscopy of exotic nuclei"*

H. Grawe (GSI, Darmstadt)

*"Superheavy elements"*

S. Hofmann (GSI, Darmstadt)

*"Measurement of atomic masses in the Experimental Storage Ring ESR"*

H. Wollnik (University of Giessen)

For more information, please contact

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## **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-Köln). A shuttle bus between the Leuven railway station and the school site will be organized on Sunday, August 31, 1997, from 5 pm on.

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 near 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 1, 1997, at 9 a.m. and end on Friday, September 5, 1997 at 12 a.m. 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 and the school's banquet.

### Accommodation

All participants will be accommodated in students residences. The price for the week (from Sunday evening to Friday afternoon), including breakfast and lunch, is 7000 BF. Students from the European Union and from countries subscribing the Training and Mobility of Researchers 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, 1997. A selection will be made and the applicants will be notified by the end of June.

### Grants

The school is sponsored by the Training and Mobility of Researchers program of the European Union. The accommodation of EU students or of students from countries subscribing the TMR program will be covered by this program. Additional grants, for the registration and/or for travel expenses, can be obtained upon request. Students from the less-favored regions of Europe will have priority.