



INTERNATIONAL STUDENT PROGRAM

August 2 – September 24, 2010

A wireframe illustration of a particle accelerator ring, showing a large circular structure with various internal components and a smaller structure in the distance.

RESEARCH EXPERIENCE for UNDERGRADUATES

The GSI Helmholtz centre for Heavy-Ion Research is one of the world's leading laboratories for fundamental research using a heavy-ion accelerator facility with a linear accelerator UNILAC, a synchrotron SIS18 and a storage ring ESR. Over the next years the international Facility for Antiproton and Ion Research (FAIR) will be constructed on the GSI premises adjacent to the existing complex. The centre provides unique research opportunities for investigations in the fields of nuclear and hadronic physics, atomic, laser and plasma physics, materials science and biophysics with applications in cancer therapy, as well as new accelerator developments and radiation safety.

Every summer the centre invites students in physics or related natural science disciplines from Europe or GSI/FAIR partner countries to participate in an *International Student Program*.

Scope: As the main task, each participant will work on a small research project in one of the research groups. A series of lectures will be held as an introduction to the various branches of research and applications using heavy ions. Free accommodation will be provided in guest rooms. Travel support as well as a daily allowance will be provided by GSI. Further details are given on the web page below.

Qualification: The program is intended for students at the *undergraduate* level, who have completed 3 years of study in their major discipline.

Applications should be submitted via the Internet. Applications and recommendations must reach us before **January 31, 2010**. The number of participants is limited to 35. The selection procedure will be completed by mid-March, 2010.

Web page: <http://theory.gsi.de/stud-pro> or
<http://www.gsi.de> → Research → Education, Teaching
E-mail: stud-pro@gsi.de Subject: GSI-ISP2010
FAX: +49 6159 71 2990
Student Program, GSI
Planckstr. 1, D-64291 Darmstadt, Germany