Institute of Nuclear Research

of the Hungarian Academy of Sciences

Founded in 1954

Mission

The mission Atomki is to perform *fundamental research* in experimental and theoretical atomic, nuclear and particle physics, and to *apply the physical methods* and knowledge in other fields of science like materials research, environmental and earth sciences, biological and medical research etc. Strong emphasis is laid on the development of techniques and instruments for fundamental and applied research, and on solving practical problems for industry, agriculture and medicine. The Institute is strongly involved in undergraduate and graduate *physics education.* The Department of Environmental Physics is run jointly by the Institute and by the University of Debrecen. The activity of the researchers of Atomki is rapidly increasing in knowledge and technology transfer. The Institute is hosting a European Research Council (ERC) Starting Grant in the field of nuclear astrophysics.

Organization

Division of Nuclear Physics

- Section of Experimental Nuclear Physics
- Section of Ion Beam Physics
  - → *Nuclear Astrophysics Group*
  - → Laboratory of Ion Beam Applications
- Theoretical Physics

Division of Atomic Physics

- Section of Atomic Collisions
- Section of Electron Spectroscopy and Materials Science
  - → Laboratory of Secondary Ion/Neutral Mass Spectrometry

Division of Applied Physics

- Section of Environmental and Earth Sciences
  - → Hertelendi Laboratory of Environmental Studies
  - → Radon Group
  - → K-Ar Laboratory
  - → QMS Laboratory
- UD—ATOMKI Department of Environmental Physics
- Section of Cyclotron Applications
- Section of Electronics
  - → Computational Group

Accelerator Centre

- → Cyclotron Laboratory
- → Laboratory of Electrostatic Accelerators
- → ECR Laboratory
- → Isotope Separator Laboratory

Meeting room

SNMS-XPS

↑ X-ray Photoelectron Spectrometer linked to Secondary Neutral Mass Spectrometer.

AMS

↓ C-14 Accelerator Mass Spectrometer for environmental research.

Cyclotron

↓ A particle accelerator for basic research, applications and education.

Contact

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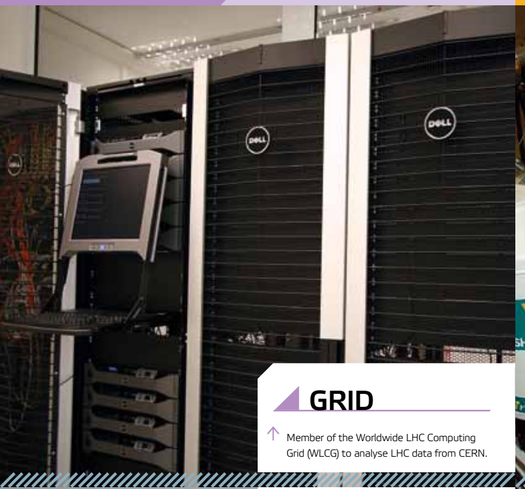
Applied Computing



GRID

↑ Member of the Worldwide LHC Computing Grid (WLCG) to analyse LHC data from CERN.

Nuclear Surface Science

Microprobe

↑ The Scanning Ion Microprobe is used in various interdisciplinary applications.

Nuclear Detector

DIAMANT

↑ A detector system used for the study of nuclei of strongly elongated shapes.

Applied Nuclear

Radiochemistry

↑ Synthesis boxes for preparation of ^{11}C-, and ^{18}F-labelled radiopharmaceuticals.

mini-PET

↓ A small animal PET for pre clinical use developed by Atomki.

ECR

↓ An ion source designed to produce highly charged plasmas and ion beams.

ESA-22

↓ A spectrometer developed by Atomki for the study of photo- and Auger electrons.

Lecture Hall

Applied Medical

Accelerator Atomic

Atomic Collisions

Education Conferences

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Debrecen