



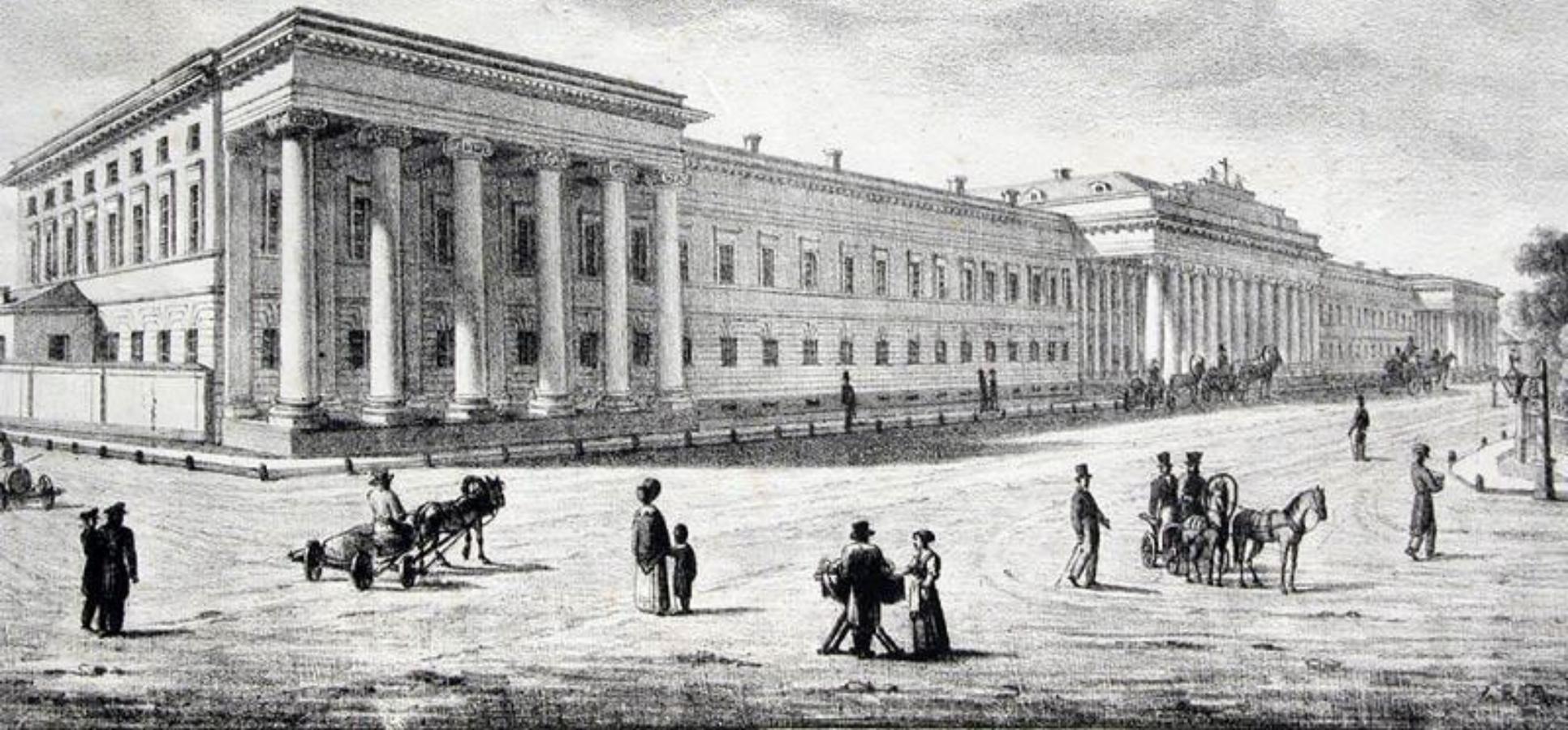
KAZAN FEDERAL UNIVERSITY

# Institute of Physics

[kpfu.ru](http://kpfu.ru)

# Kazan University

- was founded in **1804** as *Kazan Imperial University*
- is the second oldest of the current Russian universities



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N. Lobachevsky

V. Lenin

L. Tolstoy

I. Siminov

A. Butlerov

A. Arbuzov

E. Zavoisky



# Institute of Physics

Institute of Physics is a *leading national center for education and research* in different branches of contemporary physics, astronomy and high technologies. It has more than 200 years of history with remarkable discoveries and findings. Among many the names of Zavoisky, Petrov, Engelgardt, Altshuler could be mentioned.

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In the process of education and in their scientific work students make full use of modern information technology (computer classes, videoconferences) and newest equipment for studies and science. The Institute employs approximately **190** teaching staff members, among them **57** full professors; it has over **1,300** under- and post-graduate students.



E. Zavoisky started systematic studies on interaction of electromagnetic waves with matter in 1933. He formed a group of talented experimentalists and theoretists of various background, which included *Boris Kozyrev* and [Semen Altshuler](#). Starting from 1943, Zavoisky focused on [electron paramagnetic resonance](#) (EPR). In 1944, EPR signals were detected in several salts. The results were **revolutionary** and were first not accepted even by the Soviet scientists (including [Pyotr Kapitsa](#)). The doubts were dispersed when Zavoisky visited Moscow, assembled an EPR spectrometer from scratch and reproduced his results there.



# Museum of E. Zavoisky

# Institute of Physics

- 16 departments;
- 147 educational laboratories;
- 21 specialized scientific laboratories;
- 3 observatories: in the suburb of Kazan, Zelenchuk city (North Caucasus, Russia), Antalya (Turkey)

# Institute of Physics

Department

of General Physics  
of Theoretical Physics  
of Physics of Molecular Systems  
of Computational Physics and Modeling of Physical Processes  
of Theory and Methods of Teaching Physics and Informatics  
of Educational Technologies in Physics  
of Optics and Nanophotonics  
of Solid State Physics  
of Relativity Theory and Gravity  
of Chemical Physics  
of Astronomy and Cosmic Geodesy  
of Radiophysics  
of Technical Physics and Energy  
of Radioelectronics  
of Quantum electronics and radiospectroscopy  
of Radioastronomy  
of Medical Physics

Resonant properties of condensed matter

Radiophysical study of natural environments and information systems

Complex astrophysical systems and fundamental fields in the Universe: theory, space- and land-based observation technologies

Physics of atoms and molecules

Biomedical radio-frequency spectroscopy and optics

Research into coordinate- and time-related problems of astronomy and geodesy

SCIENCE



# International Training-and-Research Centre for Medical Physics

# SCIENCE

## International Centre for Magnetic Resonance



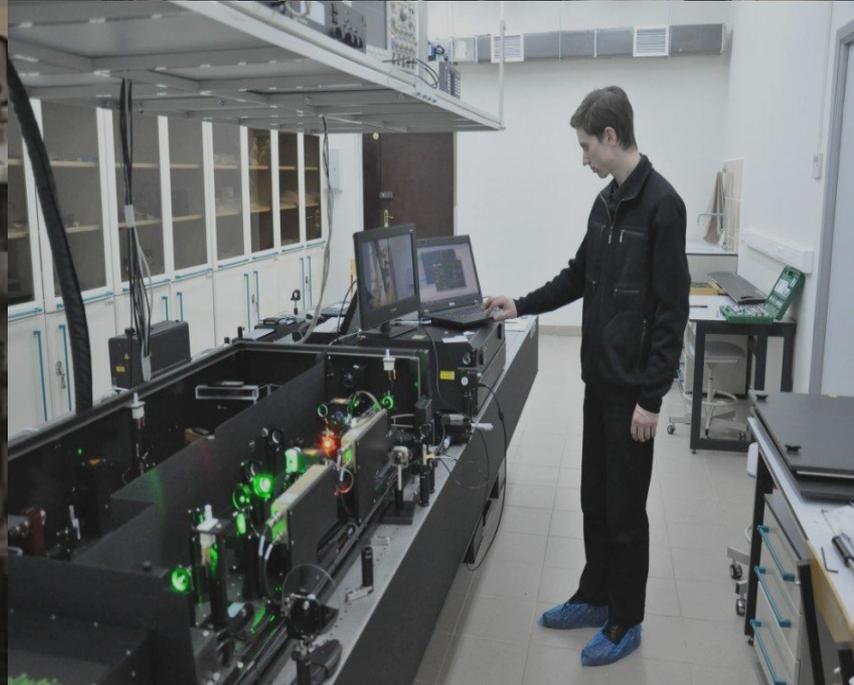
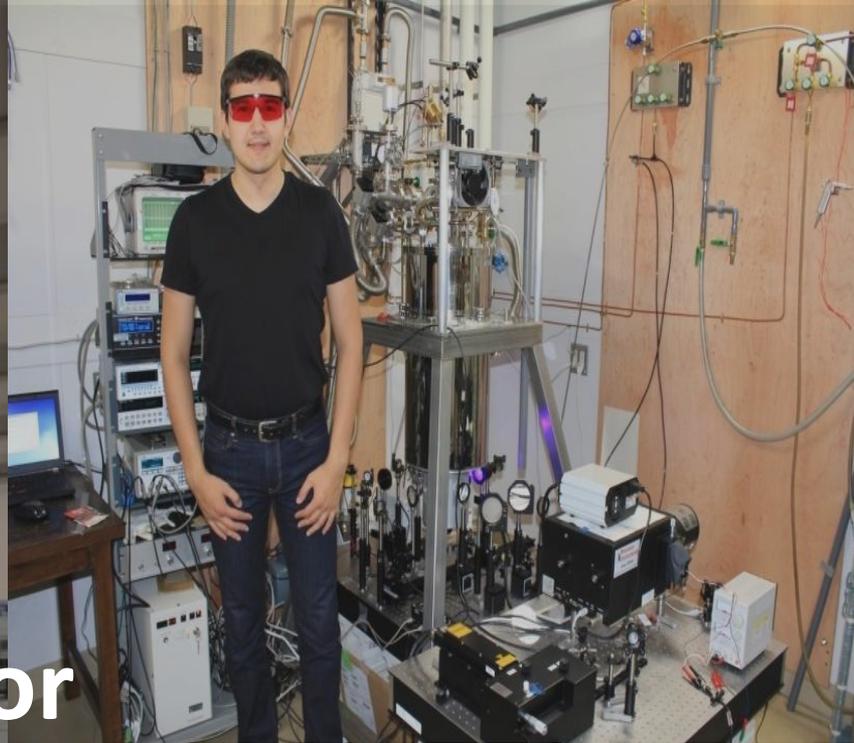
SCIENCE

# International Training-and-Research Centre for Physics of Complex Systems



SCIENCE

International Centre for  
Quantum Technologies



SCIENCE

# Training-and-Research Centre for Space Research and Technologies



# Education

## Bachelor Degree

### Physics

- Fundamental Physics
- Medical Physics
- Condensed-Matter Physics

### Radiophysics

- Quantum Radiophysics and Quantum Electronics
- Physics of Magnetic Phenomena
- Electronics, micro- and nanoelectronics
- Telecommunications Systems and Information Technologies
- Ionospheric and Radio Propagation Physics, Radioastronomy
- Special Radiotechnical Systems
- Application-Specific Radiophysical Methods (Biophysics)
- Application-Specific Radiophysical Methods (Radiophysical Measurements)

### Information security

### Geodesy and Remote Sensing

### Technical Physics

### Innovation Studies

### Nanotechnologies and microsystems equipment

### Biotechnologies

# Education

## Master Degree

### Physics

- Molecular Physics
- Condensed-Matter Physics (rus & eng)
- Theoretical and Mathematical Physics
- Physics of Complex Systems
- Medical Physics

### Technical Physics

- Thermal Physics
- Applied Plasma Physics and Controlled Thermonuclear Fusion

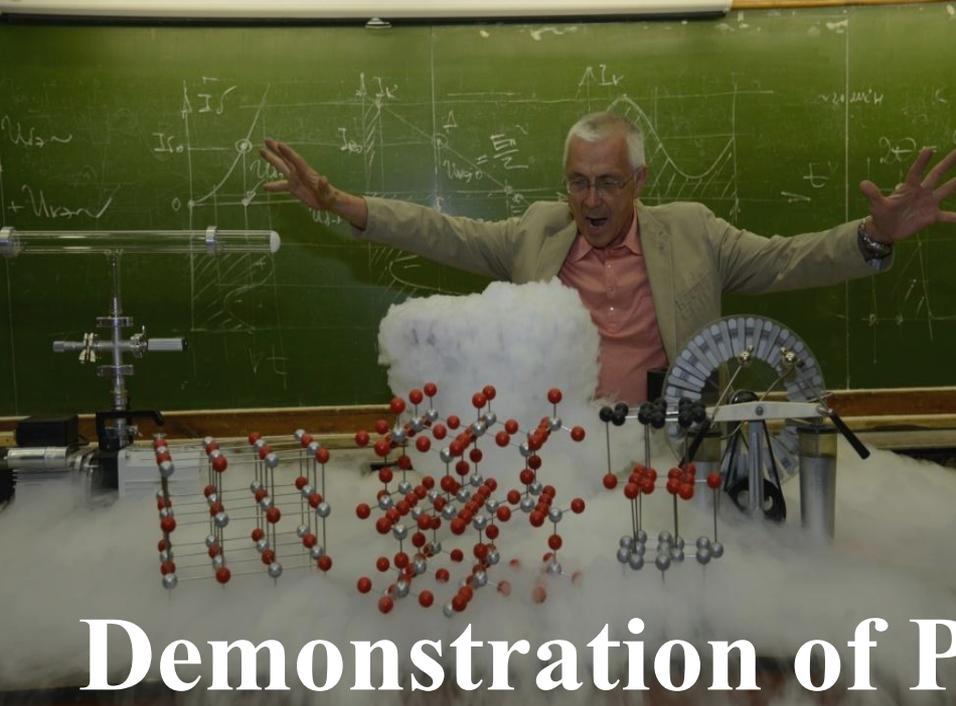
### Radiophysics

- Electromagnetic Waves in Media
- Information Processes and Systems
- Radiophysical Methods by Fields of Application
- Physics of Magnetic Phenomena (rus & eng)
- Quantum Radiophysics

### Information security

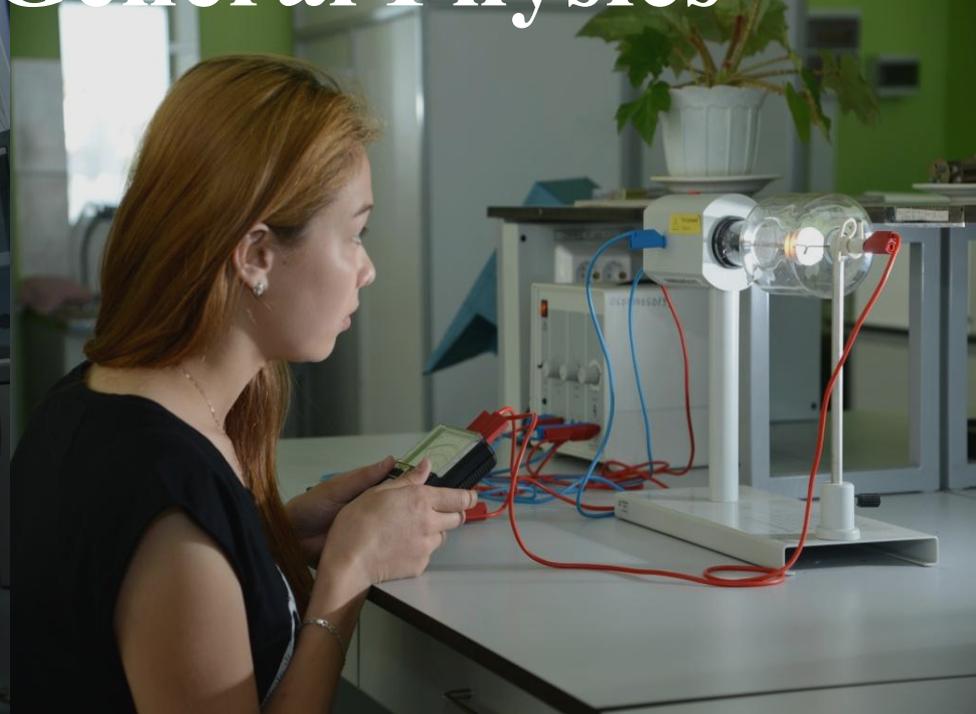
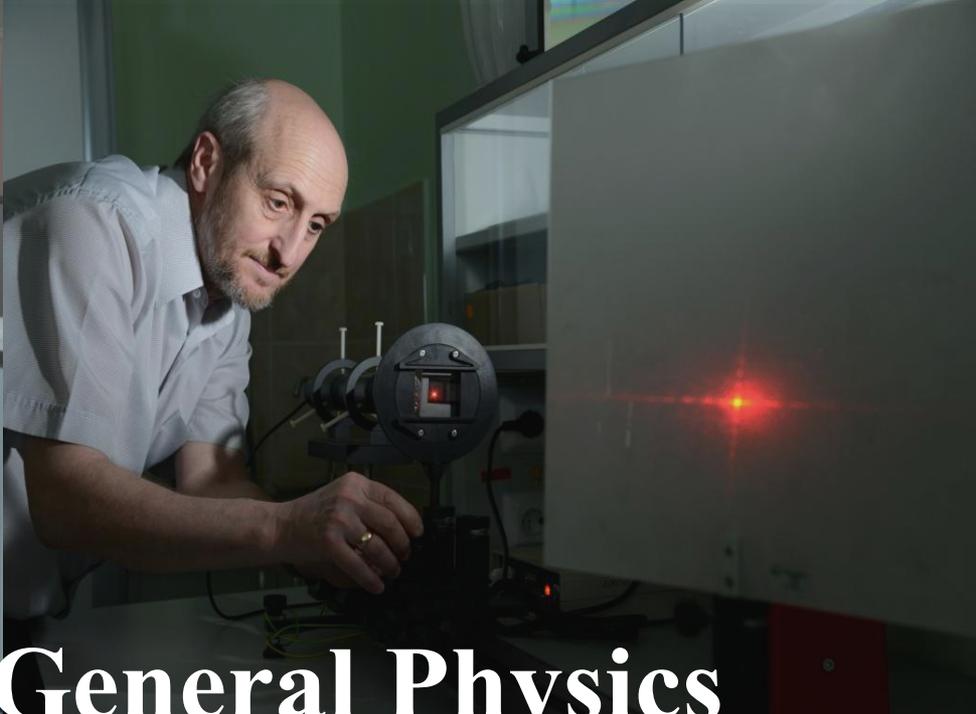
Geodesy and Remote Sensing

Innovation Studies



# Demonstration of Physical Experiments

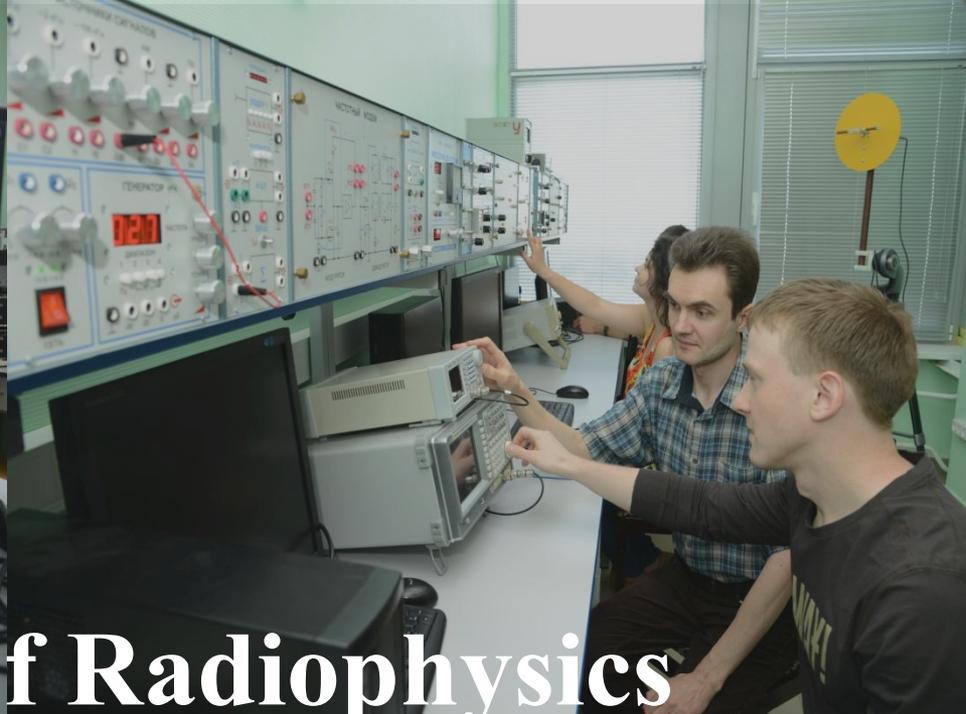




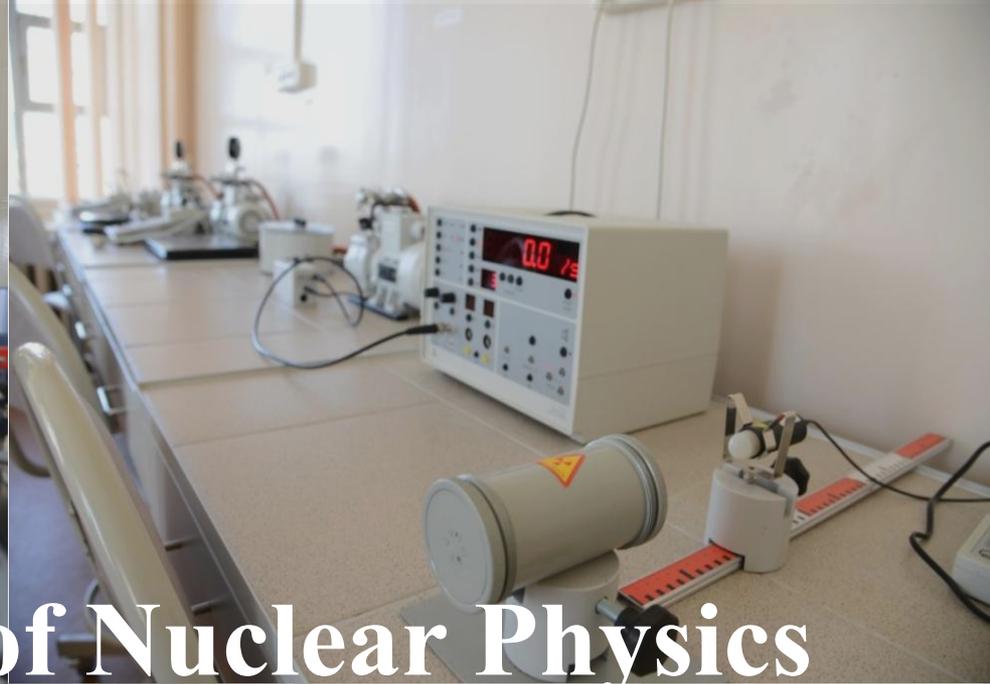
# Laboratories of General Physics

# Laboratory for advanced studies in general physics





# Laboratories of Radiophysics



# Laboratory of Nuclear Physics





# Astronomy and Geodesy



# Grant contest for masters and post-graduate studies in KFU

## The Grant includes:

- tuition fee payment;
- accommodation ( in KFU dormitory);
- monthly stipend;
- Russian language.

## Timetable of the call (post-graduate studies):

June 30 – August 01: Application period

August 11 – 27: Entrance examinations (Philosophy, Foreign Language, Major)

## Timetable of the call (master studies):

June 10 – July 25: Application period

July 25 – 8 August Entrance examinations (CV)

email: [admission@kpfu.ru](mailto:admission@kpfu.ru)



UNIVERSIADE  
KAZAN  
2013  
RUSSIA

# KAZAN

education

science

culture

sport



Burevestnik Swimming Pool



Gymnastics Centre



Rowing Centre



Tennis Academy





# Student Clinic



Universiade  
Village

is the **best** student campus  
in Russia

only 3.5 € / month  
or 5\$ / month



A large number of blue and white balloons are floating in the air, filling the sky. In the background, a classical building with columns and a pediment is visible. The scene is bright and festive.

Welcome to  
Kazan University!