

## **03.06.01 Physics and Astronomy**

### **Physics of Charged Particle Beams and Accelerator Technology**

*Graduation department:* Electrophysical Facilities Department (№14).

Founded in 1948, it is the world's oldest center for training experts in the field of physics and technologies of charged particles accelerators.

#### **Program objectives**

training researchers and experts in particle accelerators development and operation including new and developing mega-science accelerators.

#### **Research areas**

- research, development, construction & exploitation of new charge particles accelerators for research, industry & medicine
- experimental & theoretical research of charge particles beams forming & dynamics, interaction with various physical objects & collective effects
- simulation & design of accelerators components
- design of new technologies of beams application (radiation technologies).

#### **Industrial and research practical training and employment opportunities**

- institutions of ROSATOM, the Russian Academy of Sciences
- NRC "Kurchatov Institute"
- Joint Institute for Nuclear Research
- other Russian and foreign institutions