

14.04.02 Nuclear Physics and Engineering

Nuclear Physics and Astrophysics

Program objective

to train students to conduct contemporary research on solar-terrestrial physics and dynamical heliosphere processes in near-Earth space.

Curriculum features

combination of academic studies and real-life research of solar-terrestrial physics, Solar physics and astrophysics, incl. experimental data processing and analysis.

Practical training allow to improve the ability to select the necessary research methods, harness skills in experimental physics research and analyze data obtained with the use of modern computer technologies. Moreover, students become to apply research results for development and elaboration of new engineering and technological methods.

Future professional activities

- monitoring and forecasting of conditions of heliosphere, magnetosphere and atmosphere of the Earth
- design of nuclear-physics equipment for solar-terrestrial physics
- experimental data processing and analysis.