

03.06.01 Physics and Astronomy

Nuclear and Particle Physics

Program objectives

- training researchers in physics of elementary particles for conducting experimental and theoretical research in the following areas:
 - fundamental properties of matter
 - nuclear reactions
 - interaction of nuclei with beams of elementary particles at low, intermediate and high energies
 - neutrino physics
 - astrophysics (the origin of elements in the Universe, physics of cosmic rays);
- developing and implementing new physical methods for detecting nuclear phenomena;
- developing, designing and creating of new experimental facilities and equipment for nuclear physics research;
- elucidating the role of nuclear interactions in astrophysical phenomena and the physics of cosmic rays.