

### **03.04.01 Applied mathematics and physics**

**Partner university:** Karakalpak State University named after Berdakh (The Republic of Uzbekistan)

**Abstract:** The program is designed to train highly qualified specialists to conduct fundamental research in areas related to the creation of functional nanostructured materials, as well as work in the field of mathematical modeling of processes in nanoelectronic devices.

#### **Curriculum features:**

- modern methods of mathematical analysis;
- applications of modern software for experimental data processing;
- methods of mathematical modeling in semiconductor nanostructures for electronics and microwave photonics;

#### **Career opportunities:**

- International research centers (CERN, DESY, KEK);
- High-tech companies;

#### **Program Supervisors:**

Vladimir R.Nikitenko - Deputy Head of the Department of Condensed Matter Physics, Doctor of Physical and Mathematical Sciences, Professor.