

The V International Scientific Forum “Nuclear Science and Technologies”

Monday, 7 October 2024 - Friday, 11 October 2024

Almaty, Kazakhstan

Scientific Programme

The V International Scientific Forum “Nuclear Science and Technologies”

Nuclear physics (Section 1)

Mechanisms of nuclear reactions and structure of nuclei;
Heavy and superheavy elements: synthesis and fission;
Nuclear physics of low and medium energies, nuclear astrophysics;
High energy and astroparticle physics, cosmology.

Energy and materials science (Section 2)

Nuclear research and power facilities;
Controlled thermonuclear fusion;
Nuclear energy safety;
Formation and evolution of defects in solids;
Structural and fuel materials of nuclear and thermonuclear technology;
Modification of materials by beams of plasma and charged particles;
New materials and methods for their production, nanomaterials;
Physics of condensed matter;
Research and technology in alternative energy.

Radiation ecology and methods of analysis (Section 3)

Radio-ecological studies of former nuclear test sites, risk assessment and dosimetry issues;
Technologies for reducing the environmental risk of radiation-hazardous objects and territories, radioactive waste management;
Analytical methods in applied scientific research and nuclear forensics.

4th International Conference “Nuclear and Radiation Technologies in Medicine, Industry and Agriculture” (Section 4)

Sub-Section 4-1 “Nuclear Medicine”

Nuclear and radiation technologies in medicine.

Sub-Section 4-2 “Radiation Technologies”

Radiation technologies in industry and agriculture.

8th CERN School “Introduction to high-energy physics, accelerator technology and nuclear medicine”

