

NUCLEAR PHYSICS INSTITUTE OF THE ASCR, v. v. i.

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The Institute was created in 1972 from the Physics Section of the former Institute of Nuclear Research of the Czechoslovak Academy of Sciences, which was founded in 1955 and in 1972 the major portion of which was transferred to

the jurisdiction of the Czechoslovak Atomic Energy Commission. In 1994 the Academy's Institute of Radiation Dosimetry became a part of the Nuclear Physics Institute as its extramural section. Pursuant to Act No. 341/2005 Coll., the Institute became a public research institution as of 1 January 2007.

The work of the Institute is primarily devoted to research in nuclear physics at low and medium energies, both theoretical and experimental. The Institute carries out studies in the nuclear spectroscopy of beta and gamma radiation, nuclear reactions including the collisions of heavy ions and hypernuclear physics. Its work is also focused on related fields, such as the study of the solid phase using neutron scattering, mathematical physics and theoretical subnuclear physics.

Applied research is pursued in particular by means of nuclear analytical methods utilizing charged particles and neutrons. The dosimetry of ionizing radiation is concerned with the metrology of ionizing radiation, the dosimetry of natural radiation fields, including dosimetry in the orbits of satellites with human crews, dosimetry of selected radionuclides and study of their transport in the environment, and biophysical effects of ionizing radiation. Recently, some aspects of nuclear power generation and transmutation of nuclear wastes have been studied. Research and development of radiopharmaceuticals is performed. PET and some other radiopharmaceuticals are investigated and produced.

The largest experimental facilities of the Institute are the cyclotron U-120 M used for both nuclear-physical experiments and for the production of radioisotopes, and the tandem electrostatic accelerator TANDETRON TN 4130 MC, used especially for interdisciplinary and applied research conducted with nuclear analytical methods. The electrostatic spectrometer ESA 12 is ranked among other significant equipment.

More detailed information about the organisational structure of the Institute and its research and specialised units can be found at the following URL:
<http://www.ujf.cas.cz>