

Area of applied technologies and scientific infrastructure at the accelerator complex NICA

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Area of applied technologies and scientific infrastructure at the accelerator complex NICA. The analysis of (We analyze) possible directions of applied research at the accelerator complex NICA using beams of different nuclei and different energies. For applied research, both in the F3 zone and on other channels has been developed and successfully operated a complex system of monitoring beams of accelerated particles. It is also designed spatial beam scanning system on the project with the raster of 100x100 mm. To study the structure of the irradiated objects such as inorganic and biological origin, developed optical diagnostic methods. On this basis, developed a confocal laser scanning microscope and CARS-microscope for biological objects. On established by the Joint Institute for Nuclear Research in RRC "Kurchatov Institute" energy dispersive EXAFS-spectrometer developed technique to study (method of research of), (research methodology for) radiation damage in condensed matter.

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