

SIMULATION AND RECONSTRUCTION OF EVENTS IN THE MUON SYSTEM OF THE SPD INSTALLATION

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The scientific setup that is intended to be used for studying the nucleons' spin structure and other phenomena related to spin is SPD (Spin Physics Detector). It is planned to be placed in one of the two collision points of the NICA collider being built in the International Intergovernmental Scientific Research Organization "Joint Institute for Nuclear Research" (Dubna, Russia).

To facility design, study the possibility of solving the given physical problems and develop methods of registration and identification of processes in experiment, it is necessary to model different detector systems. The work is devoted to the simulation of the SPD muon system, using the software package SpdRoot, and subsequent development of software for processing and analysis of experimental data.

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