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Development of the Condition Database for the experiments of the NICA complex

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Processing and analyzing of experimental and simulated data are an integral part of all modern high-energy physics experiments. These tasks are of particular importance in the experiments of the NICA project at the Joint Institute for Nuclear Research (JINR) due to the high interaction rate and particle multiplicity of ion collision events, therefore the task of automating the considered processes for the NICA complex has particular relevance. The report describes a new information system based on the Condition Database, as well as related services to automate storing and processing of information on the experiments. The Condition Database for the NICA experiments is aimed at storing, searching and using various parameters and operation modes of experiment systems. The implemented system provides necessary information for event data processing and physics analysis tasks, and organizes a transparent, unified access and management of the required parameter data throughout the life cycle of the scientific research. The scheme and purposes of the Condition Database, its attributes, key aspects of the development are shown. The integration of the Condition Information System with experiment software systems is also presented.

Summary

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