

User Web application and auxiliary services for the Condition Database of the NICA experiments

Wednesday, 13 October 2021 11:15 (15 minutes)

The NICA megaproject being implemented at Joint Institute for Nuclear Research (JINR) in Dubna is aimed at creating and investigating a hot baryonic matter under extreme conditions. To solve the task of storing required parameters and information on the NICA experiments, which are necessary for further processing of the obtained experimental data (as well as simulated events), the common Condition Database has been developed. For convenient management of the data stored in the database, a user web application has been implemented for viewing, changing and visualizing information on the experiments of the NICA project, such as information on sessions and runs, detectors, parameters and parameter values, and, also, generated simulation files. The report presents a user web application, its structure and important tasks, such as viewing, searching and managing the information on the NICA experiments in tabular form, visualizing summary information on stored data, are described in details. The developed auxiliary services for the Condition Database are shown, including data inspection service for checking the integrity and correct accessibility of stored experimental and simulated data. In addition, monitoring system on Grafana being used for tracking state of the Condition Database and host servers is shown.

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Session Classification: Information Technologies

Track Classification: Information Technology