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Design of the Data Quality Monitoring system for the BM@N experiment

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The report presents the design of the Data Quality Monitoring (DQM) system for the BM@N experiment of the NICA project, including a description of the system's objectives, a brief overview of such systems that operate in the CERN LHC experiments, and general approaches to creating the systems. The features of the BM@N experiment are analyzed, such as the rate and volume of data received during the setup operation, and other parameters that must be taken into account when designing the BM@N DQM system. The system architecture, object model, and database scheme are presented, and the structure of configuration files that will be used for fine-tuning the work of the system is described. The future user interface of the Data Quality Monitoring is also discussed.

Authors: CHEBOTOV, Alexander (JINR); Mr ALEXANDROV, Evgeny (JINR); GERTSENBERGER, Konstantin (JINR); Dr АЛЕКСАНДРОВ, Игорь (JINR)

Presenter: Dr АЛЕКСАНДРОВ, Игорь (JINR)

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