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Development and Integration of the Electronic Logbook for the BM@N experiment at NICA

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The acquisition of experimental data is an integral part of all modern high-energy physics experiments. During experiment sessions, not only the data collected from the detectors are important for understanding the produced events, but also the records in logbooks that are written by the shift crew and describe operating modes of various systems and detectors and different types of events. The report shows a new electronic logbook developed to automate the latter process in the BM@N experiment, a fixed target experiment of the first stage of the NICA project at the Joint Institute for Nuclear Research. The online electronic logbook allows collaboration members during experiment runs to record information on current events, states of various systems, operation conditions of detectors and many others which are further used in the processing and physics analysis of the particle collision events. The system provides users with tools for convenient viewing, transparent managing and searching for the required information in the logbook. The specialized Web-interface and application programming interface for storing and accessing these data are considered. The important task of integrating the online electronic logbook with the central experiment database is also shown. The implementation of such information system is a necessary step for the successful future operation of the BM@N experiment.

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