

Ecosystem of information services for the BM@N experiment

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For effective work on constructing the BM@N experiment of the NICA project, it is necessary to use tools for centralized storing and exchanging of information, which should simplify the search for the required information, as well as ensure its relevance and consistency, especially when an international collaboration is being formed around the experiment. In the process of designing the experiment, various types of documentations are produced, experiment data are simulated, scientific articles are written, software systems are developed and other work is carried out with many sources of information, which must be systematized for convenient work. To operate with various types of information concerned with the BM@N experiment, specific information services were developed and integrated into one ecosystem. The report describes all the services that compose the ecosystem and details of their implementation. The following integrated services are presented, such as, a Single Authorization and Group Security Policy service, system for storing structured information of the experiment (BM@N Wiki), online Electronic Logbook system, collaboration forum, service for visualizing hardware parameters of the slow control system, user interface for offline database of the experiment and job definition service for distributed data processing. The main entry point for collaboration members is the official BM@N website, from which access to all the implemented information services is obtained.

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