

Development of the Web-service for the database of the BM@N experiment

Thursday, 18 April 2019 16:30 (15 minutes)

The NICA megaproject implementing at Joint Institute for Nuclear Research (JINR) is aimed at recreating and investigating a nuclear matter under extreme conditions. One of the experiments of the NICA project is the BM@N (Baryonic Matter at Nuclotron) setup proposed to study a dense matter produced in collisions of elementary particles and heavy ions with a fixed target. To solve the task of storing information on the BM@N experiment, which is necessary for further processing of the obtained experimental data, a specialized database is under development now. For convenient user management of the data stored in the database, it is required to develop a Web-service for viewing, modifying and visualizing the information on the BM@N conducted runs. The report briefly presents the scheme of the NICA complex and the BM@N experiment. The modern development tools and libraries for implementation are shown. The developed Web-interface is described in details. Its structure and tasks to be solved (such as viewing and modifying the BM@N experiment data in tabular form, showing the summary information on the stored data and visualizing the detector geometries in the conducted sessions) is also noted.

Primary author: Mr CHEBOTOV, Alexander (JINR, LHEP)

Co-author: Dr GERTSENBERGER, Konstantin (JINR)

Presenter: Mr CHEBOTOV, Alexander (JINR, LHEP)

Session Classification: Information Technologies

Track Classification: Information Technology