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Control and monitoring system for the SRC experiment at BM@N

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The SRC experiment searches for short-period two-nucleon correlations using the detector subsystems of the BM@N facility. Successful experiments of this kind require an easy-to-operate, reliable system for controlling and monitoring the slowly changing parameters of the experimental hardware. Slowly changing parameters of experimental hardware that require constant monitoring are high and low supply voltages, environmental parameters, data from gas subsystems, etc., often from a large number of hardware manufacturers.

Slow control system provides solution of the following tasks: control and monitoring of control parameters of detectors and other subsystems in the process of operation and setup of experimental facility, timely detection of failures in facility operation and alarming of emergency situations, monitoring of environmental parameters, archiving of facility parameters in database for further use in analysis of experimental data for the purpose of their correction.

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