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Magnetic measurement system for series production of NICA superconducting magnets. Data acquisition, control and data analysis.

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The Nuclotron-based Ion Collider Facility (NICA) is the new accelerator complex being constructed at JINR. More than 250 superconducting (SC) magnets will be assembled and tested at the new test facility in the Laboratory of High Energy Physics JINR. Magnetic measurements system for NICA booster dipole magnets was built and commissioned at late 2013. First cryogenic measurements of dipole magnets was done at late 2014. Magnetic measurements system, its data acquisition and control system are described. Data analysis procedures and first results of cryogenic magnetic measurements are presented and discussed.

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