

System for checking of electrical parameters of superconducting magnets for NICA and FAIR projects

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Serial production of superconducting (SC) magnets for the NICA and FAIR projects is currently underway at Joint Institute for Nuclear Research (JINR) in Dubna, Russia. SC-coil electrical parameters should be checked before each stage of assembling and cryogenic testing to avoid faults, such as inter-turn short circuit and insulation failure. A system for checking of SC-magnets electrical parameters is described in this paper. The results, obtained by this system, are presented and outlined.

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