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Multifunctional Information and Computing Complex of JINR: status and perspectives

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The implementation of the MICC (Multifunctional Information and Computing Complex) project in 2017-2019 laid foundation for its further development and evolution taking into account new requirements to the computing infrastructure for JINR scientific research. The rapid development of information technologies and new user requirements stimulate the development of all MICC components and platforms. Multi-functionality, high reliability and availability in a 24x7 mode, scalability and high performance, a reliable data storage system, information security and a customized software environment for different user groups are the main requirements, which the MICC should meet as a modern scientific computing complex.
The JINR MICC consisting of four key components - the grid infrastructure, the central computing complex, the computing cloud and the HybriLIT high-performance platform which includes the 'Govorun'supercomputer, ensures the implementation of a whole range of competitive research conducted at the world level at JINR in experiments: MPD, BM@N, Alice, ATLAS, CMS, NOvA, BESIII, STAR, COMPASS and others. The MICC includes theTier1 grid center which is the only one in the JINR Member States and one of the 7 world data storage and processing centers of the CMS experiment (CERN). The JINR Tier1 and Tier2 grid sites are elements of the global grid infrastructure used in the WLCG project for processing data from the LHC experiments and other grid applications.

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