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Tier-1 centre at NRC «Kurchatov institute» between LHC Run2 and Run3

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The issues of development and modernization of the Tier-1 center at the National Research Center "Kurchatov Institute" are considered in accordance with the changing requirements of experiments at the Large Hadron Collider. Increasing requirements for computing resources, driven by increase in simulations, led to an increase in their volumes, which in turn required the development of automation of the processes of managing the installation and configuration of the software. To improve the quality of the software management system and minimize the risk of errors during the nodes automatic configuration a code review system was implemented. A new system for in-demand provision of additional computing resources from supercomputing cluster was developed and implemented.

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