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The CMS Tier1 at JINR: five years of operations

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This talk summarizes five years of operational experience of the WLCG Tier1 computer centre at the Laboratory of Information Technologies of Joint Institute for Nuclear Research, which serves the CMS experiment at LHC. In early 2013 the Tier1 prototype was deployed and its trial operation began. March, 2015 is the date of finalization of this complex and commissioning a full-scale Tier1 centre for CMS at JINR. Since its inception it was continuously adapted to the new requirements, introducing new hardware and technologies as they became available. The resources provided by the centre to the CMS experiment have increased significantly and it is on top reliability levels as compared to other Tier1 centers processing data for CMS. A special Tier1 network centre was developed to provide scalability of its network infrastructure. Additional work has been done in the recent years in hardware and services monitoring. Future modernization and increase of the Tier1 performance will provide possibilities of efficient and fast processing and reliable storage of the CMS data to cope with high luminosity and high energy of the collisions of LHC run 3.

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