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Grid at JINR

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The JINR grid infrastructure is represented by the Tier1 center for the CMS experiment at the LHC and the Tier2 center. The grid center resources of the JINR are part of the global grid infrastructure WLCG (Worldwide LHC Computing Grid), developed for LHC experiments. JINR LIT actively participates in the WLCG global project. The work on the use of the grid infrastructure within the WLCG project is carried out in cooperation with the collaborations such as CMS, ATLAS, Alice and major international centers, which operate as Tier1 centers of the CMS experiment (CH-CERN, DE-KIT, ES-PIC, FR-CCIN2P3, IT-INFN-CNAF, US-FNAL-CMS) and as Tier2 grid centers located in more than 170 computing centers of 42 countries worldwide. Since the beginning of 2015, a full-scale WLCG Tier1 site for the CMS experiment at the LHC has been operating in JINR LIT. The CMS Tier1 center at JINR has demonstrated stable work through the entire period since its launch into full operation and takes second place in its performance in the world Tier1 sites for CMS. The Tier2 center supports a whole number of virtual organizations particularly Alice, ATLAS, CMS, LHCb, BES, BIOMED, COMPASS, MPD, NOvA, STAR and others.

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