



Contribution ID: 532

Type: Plenary talk

Comprehensive monitoring, automation, and analysis system for the computing cluster at NRC «Kurchatov Institute» - IHEP

Friday 11 July 2025 10:00 (30 minutes)

The computing cluster at the NRC «Kurchatov Institute»—IHEP is a complex system integrating multiple diverse components and technologies. These include distributed computing, high-performance computing, highly reliable uninterruptible power supply systems, precision cooling systems, and information and communication technologies. Monitoring the system's status, analyzing its behavior, and managing its operation present a highly challenging task that can be broken down into several subtasks. This paper describes the current state of the system for collecting and analyzing the computing cluster's parameters and its management.

Author: KOTLIAR, Viktor (Institute for High Energy Physics named by A.A. Logunov of National Research Center "Kurchatov Institute")

Co-authors: KOTLIAR, Anna (IHEP); SHEMEIKO, Maria (Institute for High Energy Physics named by A.A. Logunov of National Research Center "Kurchatov Institute"); MOROZOV, Valerii (Institute for High Energy Physics named by A.A. Logunov of National Research Center "Kurchatov Institute"); GUSEV, Victor (Institute for High Energy Physics named by A.A. Logunov of National Research Center "Kurchatov Institute"); EZHOVA, Victoria (IHEP)

Presenter: KOTLIAR, Viktor (Institute for High Energy Physics named by A.A. Logunov of National Research Center "Kurchatov Institute")

Session Classification: Plenary