

Student's Zone 2020 of the NICA Project



Contribution ID: 9

Type: **not specified**

Monitoring and management of large-scale physics simulations

MPD experiment requires running a massively parallel computing tasks (hundreds of thousands of jobs) for the simulation of physics processes and MPD detector response. The advanced management, monitoring and reporting for such large-scale tasks is required. The task involves development and/or application of proper management, monitoring and reporting tools for routine operation of the Monte-Carlo simulations for MPD. Tasks will be run on large-scale computing clusters - LIT and NICA Cluster (>5k CPU cores each).

Work requires good knowledge of Linux, cluster management software (job schedulers) and web technologies for on-line reporting of computing resources status.

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