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The Evolving Role of Monitoring in a Large-Scale Computing Facility

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Monitoring a large-scale computing facility is evolving from a passive to a more active role in the LHC era, from monitoring the health, availability and performance of the facility to taking a more active and automated role in restoring availability, updating software and becoming a meta-scheduler for batch systems. This talk will discuss the experiences of the RHIC and ATLAS U.S. Tier 1 Computing Facility at Brookhaven National Lab in evaluating different monitoring software packages and how monitoring is being used to improve efficiency and to integrate the facility with the Grid environment.
A monitoring model to link geographically dispersed, regional computer facilities which can be used to improve efficiency and throughput will be presented as well.

Primary authors: Mr WITHERS, Alex (Brookhaven National Lab); Dr GIBBARD, Bruce (Brookhaven National Lab); Mr HOLLOWELL, Chris (Brookhaven National Lab); Mr SMITH, Jason (Brookhaven National Lab); Mr HOVER, John (Brookhaven National Lab); Dr RIND, Ofer (Brookhaven National Lab); Mr PETKUS, Rob (Brookhaven National Lab); Dr THROWE, Tom (Brookhaven National Lab); Dr CHAN, Tony (BROOKHAVEN NATIONAL LAB); Dr ZHAO, Xin (Brookhaven National Lab); Mrs LIU, Zhenping (Brookhaven National Lab)

Presenter: Dr CHAN, Tony (BROOKHAVEN NATIONAL LAB)

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