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PO18 - Development of Web Applications for SRILAC Operation

Tuesday, 12 September 2023 15:10 (20 minutes)

At the RIKEN Nishina Center, a superconducting RIKEN Linear Accelerator (SRILAC) project was started in 2019 to synthesize a new superheavy element 119 and above. This project's control system is constructed based on Experimental Physics and Industrial Control System (EPICS). To store the data for SRILAC operation, the Archiver Appliance (AA) has been introduced as a new data archive system for EPICS-based control system. As one of the features of the AA, Web APIs are implemented to obtain the stored data, manage the PVs, and so on. Using these Web APIs, we developed Web applications to visualize the archive data using JavaScript libraries such as D3.js and React. These web application technologies are also used to display the alarm logs of the Machine Protection System (MPS). From the viewpoint of accelerator operators, the developed web application is helpful during beam tuning because a mechanism has been implemented to provide a convenient notification of MPS alerts. In this presentation, we will introduce the development status and actual operation of these web applications in SRILAC operations.

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Session Classification: Poster / Demo Sessions