



Contribution ID: 1935 Contribution code: THPG20

Type: **Poster Presentation**

ALS-U AR RF equipment protection system

Thursday, 23 May 2024 16:00 (2 hours)

This paper presents the design and development of the Radio-Frequency (RF) Equipment Protection System (EPS) for the Accumulator Ring (AR) of Advanced Light Source Upgrade (ALS-U) project at LBNL. The key components of AR RF EPS include an FPGA-based LLRF controller managing fast interlocks, RF Drive Control acting as primary RF mitigation device and a PLC-based Master Interlock subsystem handling slow interlocks and supervisory control of the AR RF System. The design of AR RF EPS components is presented along with their interaction with internal and external subsystems.

Footnotes

Funding Agency

Paper preparation format

LaTeX

Region represented

North America

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Session Classification: Thursday Poster Session

Track Classification: MC6: Beam Instrumentation, Controls, Feedback, and Operational Aspects: MC6.T04 Accelerator/Storage Ring Control Systems