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Toward the next generation: LLRF activities in LBNL

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LLRF systems are required to integrate information from many sources: at least the RF system, cryomodule system, interlock system, beam based feedback system, laser system, timing and synchronization system. Success is providing a stable RF field to interact with the beam in the accelerator. Multiple LBNL groups are working together to develop hardware and programming for LLRF systems that can meet the stability and integration requirements for the next generation of accelerators. In this workshop, we summarize the ongoing and evolutionary progress at LBNL, from system architecture and engineering implementation, as well as projects that apply these concepts, including APEX and SPX.

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