Contribution ID: **29** Type: **Poster**

FRIB LLRF System

The design for the FRIB (Facility for Rare Isotope Beams) LLRF controllers is nearing completion. The LLRF controller features direct, non-IQ sampling of its RF inputs and ADRC (active disturbance rejection control) for mitigating the effects of microphonics in a noisy environment. The controller also contains internal driver circuits for controlling piezo actuators, stepper motors, and pneumatic tuners. Details of the hardware design and control test results will be presented.

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