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Low Level RF System in KEK-STF

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At the electron linac of KEK-STF (Superconducting RF Test Facility), an accelerating electric field of $\pm 0.1\%$ in amplitude and ± 0.1 degree in phase is required for Low-Level RF (LLRF) system. Digital feedback (FB) system is adopted for flexibility of the FB and feedforward (FF) algorithm implementation to accomplish these requirements. In order to carry out the efficient testing of the control system, rf system modelling with MATLAB/Simulink library is utilized for the investigation of the control method and cavity simulator using a FPGA board has been developed.

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