

Design and Status of the MicroTCA.4 Based LLRF System for TARLA

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The Turkish Accelerator and Radiation Laboratory in Ankara (TARLA) is constructing a 40 MeV Free Electron Laser with continuous wave RF operation. In order to control and monitor the four superconducting (SC) TESLA type cavities as well as the two normal conducting buncher cavities, a MicroTCA.4 based LLRF system is foreseen. This highly modular system is further used to control the mechanical tuning of the SC cavities by control of piezo actuators and mechanical motor tuners. This talk focuses on giving an overview regarding hardware and software components of LLRF control of TARLA, as well as an update on the ongoing integration tests at DESY

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