

Status Update of TARLA and NICA LLRF Projects

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The Turkish Accelerator and Radiation Laboratory in Ankara (TARLA) is the first particle accelerator facility under construction in Turkey. The accelerator will deliver electrons to generate gamma radiation via Bremsstrahlung as well as to drive an IR-FEL. It consists of normal conducting and superconducting cavities. The MicroTCA Technology Lab is developing a turn-key LLRF system for this accelerator.

The Nuclotron-based Ion Collider fAcility (NICA) at the Joint Institute for Nuclear Research in Dubna, Russia is a synchrotron that delivers light and heavy ions for collision experiments. The Light Ion Linac (LILAC) is the injector for (polarized) protons and deuterons. Its cavities will be designed and delivered by BEVATECH, Frankfurt. The MicroTCA Technology Lab has designed the LLRF system for those cavities in cooperation with BEVATECH.

These two projects and their current status will be presented in this poster.

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