Contribution ID: **1577** Type: **Poster**

Modernization of control electronics of RF stations of Nuclotron NICA

Monday 28 October 2024 18:50 (20 minutes)

At the commissioning stage of the NICA project, the electronics of the Nuclotron radio frequency (RF) stations are being modernized in parallel. The main achievements to date include the development and commissioning of two key elements of the system: an adjustable amplifier unit with automatic gain control and a remote control unit for RF stations. The remote control unit for RF stations allows centralized control of all stations, which significantly simplifies the operation of the equipment and minimizes the risk of human error. Both units are designed with the ability to be integrated into a single control system for the RF station complex, which will improve control efficiency, automate control and monitoring processes, and provide more flexible adjustment of the equipment to various operating modes.

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Session Classification: Poster session & Welcome drinks

Track Classification: Particle Accelerators and Nuclear Reactors