

## **Control System for Automatic Frequency Tuning of the Harmonic Station RF3 for Collider NICA**

*Monday, 30 October 2023 21:45 (15 minutes)*

The work is devoted to the creation of an automatic frequency control system for the harmonic station RF3 of the NICA collider. The special attention was paid to the main tasks and the algorithm of the station's work. Based on the studied modes of station's operation, a program for generating control pulses was developed, they use for moving the tuners which set up the station to the resonant frequency. The created program was debugged and integrated into the general project.

**Primary author:** Mrs MOROZOVA, Victoria (JINR)

**Co-authors:** Mr KARPUK, Alexander (JINR); Mr MOROZOV, Dmitriy (JINR); Mr YABLOCHKIN, Michael (JINR)

**Presenter:** Mrs MOROZOVA, Victoria (JINR)

**Session Classification:** In-person poster session & welcome drinks

**Track Classification:** Particle Accelerators and Nuclear Reactors