

BENCH TESTS OF THE RF1 BARRIER SYSTEM OF THE NICA COLLIDER

The Joint Institute for Nuclear Research (JINR) is constructing a heavy ion collider based on the existing superconducting synchrotron, Nuclotron –NICA (Nuclotron based Ion Collider fAcility). It will be a multistage accelerator complex designed to study the interactions of ions with matter.

In this report, we will explore the inner workings of the High Frequency Barrier System RF1, a crucial component of the collider. Each ring of the collider has an RF1 station equipped with it, which is used to accumulate a significant number of particles emitted by the Nuclotron. The results of benchmarking the stations of the high-frequency barrier system RF1 will be presented.

Section

Nuclear physics (Section 1)

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