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LOW-LEVEL/HIGH-LEVEL –HOW AND WHY THE RF SYSTEM IS CHANGING AT INFN-LNS

Friday, September 22, 2017 12:40 PM (25 minutes)

The INFN-LNS RF system can be considered a sort of continuous work in progress, since the commissioning of the k-800 superconducting cyclotron, more than 20 years ago. We would like to show the most important changes, upgrades and improvements of the entire RF system, related to the low level, high level and mechanics. Some of the improvements are related to the system's age, to the outmodedness of important spare parts, like in the case of the High Level System, but some are related to modifying the system to achieve better performance, like in a few mechanical components of the cavities. Some improvements regard the low level system, to keep up with electronic innovations and, more importantly, to follow the requests and suggestions of the accelerator operators, in order to have, especially in the phase of tuning the entire cyclotron, a clear RF control panel where all the main parameters are displayed and the RF operation becomes easy, intuitive and, in the event of failures, the feedback is immediate. This progressive changing of the RF system is shown in this work.

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