HIE-ISOLDE QUARTER WAVE NB/CU CAVITY

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Abstract

The HIE-ISOLDE project aims at the energy boost of the radio active beams produced in the ISOLDE facility from 3 MeV/u up to 5.5 MeV/u in a first stage and 10 MeV/u as ultimate installation. The beam acceleration is mainly achieved by employing 20 Nb sputtered Quarter Wave Resonator at β = 0.1 for which an R&D program has started. RF and mechanical design as well as the latest results of the sputtering process are reported in this paper.

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