

HIE ISOLDE - Alignment and Monitoring System of the LINAC

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The HIE-ISOLDE project is a major upgrade of the ISOLDE REX facility. To run the linac in the optimum conditions the superconducting RF cavities and solenoids placed in cryomodules have to be aligned on the REX Nominal Beam Line (NBL) within a precision of, respectively, 0.3 mm and 0.15 mm at one sigma level along directions perpendicular to the beam axis. An integrated permanent alignment system based on BCAM opto-electronic sensors, optics and precise mechanical elements, is being developed. Part of these elements, i.e. the targets, will be installed in various non-standard environmental conditions such as high vacuum, cryogenic temperatures and will be observed through precise viewports.

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