

Beam Instrumentation for the HIE-REX linac

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In the framework of the High Intensity and Energy (HIE)-ISOLDE project, a beam instrumentation R&D program is on-going for the superconducting upgrade of the REX linac (HIE-REX). An overview of the main beam diagnostics developments is presented, focusing on the challenging specifications required by the superconducting linac. The project includes intensity and transverse profile monitors to be implemented in the very narrow space available between the foreseen cryomodules. A longitudinal profile monitor to be placed downstream the linac will provide energy and timing beam distributions and will allow for a fast phase-tuning of the foreseen 32 superconducting cavities.

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