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Beam Commissioning and Operations of the REX/HIE-ISOLDE Post-accelerator

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The High Intensity and Energy ISOLDE project (HIE-ISOLDE) is a major upgrade of the ISOLDE facility at CERN. The energy range of the post-accelerator will be extended from 2.85 MeV/u to 9.3 MeV/u for beams with $A/q = 4.5$ (and to 14.3 MeV/u for $A/q = 2.5$) once all the cryomodules of the superconducting accelerator are in place. The project has been divided into different phases, the first of which (two cryomodules and two HEBT lines) was completed in September 2016 after the machine was commissioned. A physics campaign followed with the delivery of radioactive beams to two different experimental stations. The main results of the tests conducted during the beam commissioning and the experience gained during the operations of the facility will be discussed in this presentation.

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