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Commissioning status of the RAON superconducting accelerator

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The Rare isotope Accelerator Complex for ON-line experiments (RAON) has been proposed as a multi-purpose accelerator facility for providing beams of exotic rare isotopes of various energies. It can deliver ions from hydrogen (proton) to uranium. Protons and uranium ions are accelerated up to 600 MeV and 200 MeV/u respectively. It can provide various rare isotope beams which are produced by isotope separator on-line system. The RAON injector was successfully commissioned in 2022 to study the beam parameters from the main technical systems, such as the ECR ion source and RFQ, and to find the optimized LEBT and MEBT setpoints and matching conditions. In addition, the low-energy superconducting linac (SCL3) is under commissioning. In this paper, we present the current beam commissioning status of the RAON injector and superconducting accelerator.

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Footnotes

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Primary author: KIM, Hyung Jin (Institute for Basic Science)

Co-authors: PARK, Bum-Sik (Institute for Basic Science); JEON, Dong-O (Institute for Basic Science); LIM, Eun-hoon (Korea University Sejong Campus); KIM, Gi Dong (Institute for Basic Science); JUNG, Hoechun (Institute for Basic Science); JIN, Hyunchang (Institute for Basic Science); HONG, In-Seok (Institute for Basic Science); KWON, Jangwon (Institute for Basic Science); HEO, Jeong Il (Institute for Basic Science); JANG, Ji-Ho (Institute for Basic Science)

Presenter: KIM, Hyung Jin (Institute for Basic Science)

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