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Improvement of RAON Linac Beam Commissioning

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The RAON linear accelerator consists of an injector and a superconducting linear accelerator (SCL3). The injector is composed of an ECR ion source, LEBT, RFQ, and MEBT. The ECR ion source generates various ion beams (A/Q = 1~7.2) with an energy of 10 keV/u, and the RFQ accelerates them to 500 keV/u. The superconducting accelerator (SCL3) is composed of two types of superconducting accelerating cavities, QWR and HWR, and accelerates uranium beams up to 18.5 MeV/u. In last year's beam commissioning of the superconducting linac using an argon beam, the measured energy was lower than expected; however, this issue has been resolved this year. In this presentation, we summarize the results of injector and superconducting accelerator beam commissioning performed this year, along with several improvements.

Paper submission Plan

No

Best Presentation

No

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