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Beam test of physics applications at the beam commissioning of the RAON accelerator

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The RAON accelerator has been constructed for various fields of science programs since 2011. The installation of the low-energy superconducting accelerator section (SCL3) had finished at the end of 2021, and the cooling of the cryogenics system started in early 2022. Prior to the SCL3, the beam commissioning has been carried out at the injector section of the RAON accelerator since 2020, and the beam was successfully accelerated with five quarter-wave resonator (QWR) cavities at the front of the SCL3 in October 2022. For successful and efficient beam commissioning, various beam physics studies have been conducted for several years, and physics applications have been also developed. Here we will introduce various physics applications used for beam commissioning and show the results of these beam tests.

Funding Agency

Footnotes

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Yes

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