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Transverse emittance measurement using a wire scanner in injector of RAON

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The Rare Isotope Accelerator Complex for ON-line Experiments (RAON) is a facility designed to produce rare isotope beams using the ISOL and IF methods. RAON has a variety of diagnostic devices to measure beam characteristics. Among them, emittance is an important parameter in determining beam characteristics. RAON was applied the Multi-wire scan and Quadrupole scan methods to measure emittance using a wire scanner. These methods of measurement was confirmed through beam generation and transmission simulation at Python. Afterwards, in the beam commissioning, the beam size were measured by 3 wire scanners installed in the MEBT section and the emittance were calculated from the Multi-wire scan and Quadrupole scan methods. In this poster, we presents simulation results and Argon beam emittance measurement results.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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