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The operation of ARIEL e-LINAC RF system

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The Advanced Rare Isotope Laboratory (ARIEL) at TRIUMF will utilize a high-power electron beam to produce radioactive ion beams through photo-fission. Currently, the 30 MeV section of the ARIEL electron linear accelerator (e-Linac)—a 1.3 GHz superconducting RF (SRF) system—includes the injector cryomodule (ICM), which houses a single nine-cell cavity, and the first accelerator cryomodule (ACM1), configured with two cavities. This paper focuses on recent progress toward high-power operation. At the beginning of 2025, the system achieved stable, continuous operation for three consecutive days.

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Yes

Footnotes

Funding Agency

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