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5 year operation of RIKEN SC-LINAC

Monday 22 September 2025 08:30 (20 minutes)

The RIKEN superconducting heavy-ion linac, so-called SRILAC, has been successfully operating for almost five years, and continuously deliver a heavy ion beam for a super-heavy-element synthesis experiment by fixing minor and major hardware troubles. The effects of a broken coupler in the early days and four years of operation have resulted in increased X-ray emission levels in several superconducting cavities, which have been successfully corrected by High Power Processing (HPP). Owing to the fine tunings of the control system of LLRF and cryogenic system the availablity more than 99 % has been achieved. This talk will share the experiences and lessons learned from five-year operation with low beta SC-cavities.

I have read and accept the Privacy Policy Statement

Yes

Footnotes

Funding Agency

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