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Cryomodule developments for proton and heavy-ion linacs at IMP

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The QWR/HWR/Elliptical cavity cryomodules have been developed for proton and heavy-ion linacs at the Institute of Modern Physics (IMP) of the Chinese Academy of Science (CAS). In this paper, the development situation of the cryomodules for IMP has been reported. The application of some specific design effectively improves the commissioning performance of the cryomodule. These cryomodules are being installed in parallel across multiple lines in the assembly hall currently. And the first cryomodule for heavy-ion linacs has completed horizontal testing in July 2024 of HIAF(High Intensity heavy-ion Accelerator Facility) project. This paper will report the design, assembling and commissioning of these cryomodules.

Footnotes

Funding Agency

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Yes

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