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Status of the SRF cavity tuner for the MEXT-ATD / ITN cryomodule being built at KEK

Tuesday 23 September 2025 14:30 (3 hours)

Currently a prototype cryomodule for the International Linear Collider featuring eight 1.3 GHz TESLA-type superconducting radio frequency cavities is being designed and built at KEK. In this contribution we report on the status of the development and production of the cavity frequency tuner. The design of the tuner body was finalized and the procurement of the first four series units is underway. The first test of the slow actuator cold test setup is discussed. It is prepared for the upcoming qualification of a newly developed slow actuator. Results of the qualification tests of a new fast actuator prototype are presented. The concept of the fast actuator control system is described.

I have read and accept the Privacy Policy Statement

Yes

Footnotes

Funding Agency

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