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Type: **Poster Presentation**

Machine Learning based SRF cavity active resonance control

Monday 8 May 2023 16:30 (2 hours)

We'll introduce a high precision active motion controller based on machine learning (ML) technology and electric piezo actuator. The controller will be used for srf cavity active resonance control, where a data-driven model for system motion dynamics will be developed first, and a model predictive controller (MPC) will be built accordingly. Simulation results as well as initial test results with real SRF cavity will be presented in the paper.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

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