



Contribution ID: 2190 Contribution code: SUPG075

Type: **Poster Presentation**

Devices and preparation methods for niobium coupon samples used to investigate high-Q mechanism

Sunday, 19 May 2024 16:00 (2 hours)

A surface treatment device has been established at the Wuxi Platform, enabling chemical polishing treatment on coupon samples. Currently, several samples treated with buffered chemical polishing (BCP) have been utilized in the investigation of nitrogen doping and medium-temperature baking mechanisms. This paper presents the development process of this device along with the experimental outcomes. In the future, we plan to enhance the device to facilitate electropolishing (EP) treatment on coupon samples.

Footnotes

Funding Agency

Paper preparation format

LaTeX

Region represented

Asia

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Session Classification: Student Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability: MC7.T07 Superconducting RF