Session Program

18–26 Sept 2025

SRF2025 TOKYO

22ND INTERNATIONAL CONFERENCE ON RF SUPERCONDUCTIVITY

September 21-26, 2025

SRF2025 - 22nd International Conference on RF Superconductivity

Thursday Poster Session

Ito International Research Center
Tokyo

Thursday 25 September

14:30

Thursday Poster Session

Poster Session | **Location:** Ito International Research Center, Tokyo

Construction of the LB650 pre-production cryomodule for the PIP-II linear accelerator

Speaker
Guillaume Devanz

When plastic meets particle physics: developing & characterising 3D-printed vacuum vessels for helium leak testing at high stakes and low pressures

Speaker
Oliver Poynton

Beam diagnostics and RF cavity operation during SCL3 beam commissioning at RAON

Speaker
Jangwon Kwon

Expansion of the line-up of high capacity 4 K GM-JT cryocooler system

Speaker
Yuki Iino

The RF power source systems of CSNS-II Linac RF superconducting cavities

Speaker
Zhencheng Mu

Preliminary design of continuous wave low-level RF systems for S3FEL

Speaker
Zhiyuan Zhang

CFD simulation of micron-scale dust particle transport and deposition in superconducting accelerator vacuum lines

Speaker
Zhizhen Luo

RaSTA 2.0 - development of a compact sample test cavity for surface resistance measurements

Speaker
Dr Sebastian Keckert

Horizontal cryostat testing of the ORNL Spallation Neutron Source (SNS) Proton Power Upgrade (PPU) cryomodules at Jefferson Lab

Speaker
Michael McCaughan

Depth-resolved characterization of the magnetic field screening in superconducting RF materials near the critical field

Speaker
Robert Laxdal

Improved calorimetric cavity measurement techniques for the HB650 prototype cryomodule for PIP-II

Speaker
Jeremiah Holzbauer

Utilization of remote monitoring tools in the long-term operation of the superconducting linac at RIKEN

Speaker
Kenta Kaneko

Beam envelope measurements using beam position monitors for low-beta superconducting linear accelerator

Speaker
Takahiro Nishi

Unveiling the interplay: cold work, recrystallization, and flux expulsion in SRF cavities

Speaker
Dr Santosh Chetri

Point defects in Nb-based superconducting films probed by positron annihilation spectroscopy

Speaker
Sebastian Klug

RF and DC vortices in superconductors studied with time-dependent Ginzburg-Landau theory

Speaker
Prof. Steven Anlage

Activities on medium grain niobium at DESY

Speaker
Detlef Reschke

Characterizing and controlling recovery and recrystallization in Nb for improved SRF cavity performance

Speaker
Eric Taleff

Electrochemical impedance spectroscopy analysis of Nb electropolishing in HF solutions

Speaker
Eric Viklund

RF measurements and performance tests at 4K of cryomodule 1 cavities for HELIAC

Speaker
Florian Dirk Dziuba

HOM antenna upgrades and refurbishment of TESLA cavities for the MESA ER-Mode

Speaker
Paul Plattner

Development of 1.3 GHz 3-cell superconducting cavities for high current application

Speaker
Xiaowei Wu

The influence of rolling direction and surface pinning of deformed grain boundaries during recrystallization in high-RRR niobium sheet

Speaker
Zackery Thune

The effects of strain path and strain magnitude on the uniformity of recrystallization in high-RRR niobium 1.3 GHz half-cells

Speaker
Zackery Thune

Assembly of the LIPAc SRF LINAC cryomodule

Speaker
Janic Chambrillon

Development of 1.5 GHz harmonic superconducting cavity and cryomodule

Speaker
Zheng Mi

Searching for axions: a new SRF cavity-based programme at CERN

Speaker
Lee Millar

The operation of ARIEL e-LINAC RF system

Speaker
Yanyun Ma

Q degradation in operation in ISAC-II SC linac

Speaker
Zhongyuan Yao

Magnetic field sensitivity of a QWR under different cooldown dynamics

Speaker
Philipp Kolb

Study of interstitial oxygen concentration near surface of Mid-T heat treated Nb SRF cavities: frequency shift analysis

Speaker
Rezvan Ghanbari

Development of niobium 3 GHz single-cell cavity for superconducting thin film research

Speaker
Dr Ryo Katayama

Impact of initial cold work on the bulk microstructure and flux expulsion performance of SRF Nb cavities

Speaker
Santosh Chetri

Study of multilayer thin-film structures in superconducting acceleration cavities

Speaker
Taisei Sasaki

Fabrication of 1.3 GHz MgB2 superconductor-on-copper cavity using hybrid physical-chemical vapor deposition

Speaker
Prof. Xiaoxing Xi

Cold spray additive manufactured copper as substrate for thin film-SRF cavities

Speaker
Fritz Motschmann

European thin film roadmap

Speaker
Oleg Malyshev

Additive manufacturing for seamless 6 GHz Nb/Cu cavity

Speaker
Davide Ford

Thermal and magnetic flux dynamics in superconducting niobium cavities: implications for the threshold field limit

Speaker
Ravikumar Gurazada

LCLS-II HE cryomodule test results after an uncontrolled vacuum event

Speaker
Genfa Wu

Improving the performance of mid-T baked niobium cavities through post-bake surface treatment

Speaker
Genfa Wu

Thermo-mechanical testing results for IC-DX ultra-low thermal expansion alloy at cryogenic temperature

Speaker
Tomohiro Yamada

New cleanroom nitrogen purge system to be used for superconducting radio frequency cavity string build at STFC

Speaker
Stuart Wilde

Design of a fast reactive tuner for 1.3 GHz TESLA cavities at MESA

Speaker
Ricardo Monroy-Villa

Low beta cavity production based on a novel procedure at IMP

Speaker
Zhijun Wang

Contamination of the Nb3Sn evaporation coating furnace at IHEP: analysis of causes and solutions

Speaker
Baiqi Liu

Status of the Mainz Energy-Recovering Accelerator (MESA)

Speaker
Timo Stengler

Role of niobium purity and thermal parameters in SRF cavity optimization

Speaker
Ravikumar Gurazada

Measurement of low accelerating gradients in 1.3 GHz cavities at DESY

Speaker
Mateusz Wiencek

Interface studies of Nb-AlN-NbTiN multilayers grown by PEALD

Speaker
Isabel González Díaz-Palacio

Virtual cavity probe for the real-time identification of cavity burst-noise type in superconducting radio-frequency systems

Speaker
Jin Ma

Upgrades to the Daresbury Laboratory Vertical Facility and testing of PIP-II HB650 cavities

Speaker
Andrew Blackett-May

A LHe-free test facility for thin film SRF cavity testing

Speaker
Daniel Seal

Molecular dynamics study on the mechanical behavior of pure and alloyed niobium for superconducting RF cavity applications

Speaker
Taeyoung Yoon

Considerations on using SQUID metamaterials for tuning SRF cavities in accelerator applications

Speaker
Thomas Oseroff

PIP-II LB650 cryomodules test bench at CEA

Speaker
Hassen Jenhani

Fabrication of the prototype spoke cavity for the JAEA-ADS linac

Speaker
Jun Tamura

Enhancing superconducting radio-frequency performance with high-throughput method-assisted FeSe1-xTex coated Nb films

Speaker
Chao Dong

Progress of prototype RFD crab cavity string assembly for HL-LHC at TRIUMF

Speaker
Zhongyuan Yao

Magnetic environment optimization in SRF testing at INFN-LASA

Speaker
Michele Bertucci

Strain gauge-based position monitoring of spaceframe-suspended SRF cavities

Speaker
Ms Nina Ohm

Hybrid Wire Laser Additive Manufacturing and CNC machining for advanced SRF cavity fabrication

Speaker
Oscar Azzolini

Feature of NC25 material and impact on flux trapping when used them for SRF cavity assembly

Speaker
Kenji Saito

Local magnetic field evolution in shielded SRF cavities during thermal cycling in a cryomodule-like configuration

Speaker
Rocío Santiago Kern

Mitigating residual magnetization in coldmass components via superconducting focusing lenses

Speaker
Jacopo Bernardini

Attempt to include beam loading effects in finite element method RF simulations for B-cell cryomodules

Speaker
Thomas Oseroff

The design and test of 648 MHz 6-cell elliptical cavity for CSNS-II

Speaker
Wenzhong Zhou

Sideband excitation phenomena study in SRF vertical testing

Speaker
Enrico Cenni

Preliminary physics design of 1.3 GHz superconducting electron gun

Speaker
XiongHao Yuan

High intensity proton cryomodule parasitic radiation analysis

Speaker
Guillaume Devanz

String assembly for the first HELIAC cryomodule

Speaker
Thorsten Kuerzeder

Preliminary cryogenic design for superconducting deflecting cavities for E2.0

Speaker
Dr Marco Modica

Development of a cobot-assisted High Pressure Rinsing solution for SRF cavities

Speaker
Nicolas Gandolfo

RF in situ heating of a single and nine cell 1.3 GHz cavity

Speaker
Julia Goedecke

The development and application of expansion joints

Speaker
kai huang

Mock-up waveguide loop development toward a half-meter scale traveling-wave SRF cavity

Speaker
Kellen McGee

17:30