

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

Monday Poster Session

Ito International Research Center
Tokyo

Monday 22 September

14:30

Monday Poster Session

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

Initial results for CVD based growth of Nb₃Sn

Speaker

Gabriel Gaitan

First ESS LINAC cooldown using the master automatic control sequence

Speaker

Mr Emilio Asensi

Optimization of several operating parameters to increase the beam delivery time at the European XFEL

Speaker

Vladimir Vogel (Fogel)

RF testing and performance analysis of low beta superconducting cavities for HIAF and CiADS facilities

Speaker

Yuan He

Strength evaluation of large grain niobium sheets and derivation of allowable stress

Speaker

Hiroaki Umezawa

Design and conditioning of a low thermal load coupler for conduction-cooled accelerators

Speaker

Haoyu Shen

Operational status and experience of the TLS CESR-B type SRF module

Speaker

Chih Hung Lo

Update on INFN LASA in-kind contribution to ESS ERIC superconducting linac

Speaker

Daniele Sertore

ITN in Europe: a coordinated effort for ILC technology development

Speaker

Laura Monaco

First results on plasma cleaning tests in a SSR1-type spoke resonator for PIP-II project at IJCLab

Speaker

David Longuevergne

Preparation and qualification of pre-production SSR2 jacketed cavities for PIP-II

Speaker

Laura Grassellino

High-Q 3D niobium $\lambda/4$ coaxial cavities for quantum applications inspired by SRF technologies**Speaker**

Takaaki Takenaka

Design and CW RF transmission test up to 100 kW of L-band high-power input coupler**Speaker**

Pragya Nama

Status of PIP-II HB650 cavities production**Speaker**

Anna Shabalina

RF conditioning of MYRRHA couplers at IJCLab**Speaker**

Nouredine ElKamchi

AUP progress: procurement and performance of crab cavities for the HL-LHC**Speaker**

Alejandro Castilla

Development of a 197 MHz crab cavity cryomodule for the electron-ion collider**Speaker**

Naeem Huque

Commissioning of chemical vapor deposition system for superconducting thin films**Speaker**

Alexis Grassl

Results from DQW cavity testing & validation for HL-LHC**Speaker**

Amelia Edwards

Electromagnetic design of a quadrupole resonator for SRF materials at IMP**Speaker**

Yong Zhao

The fabrication of the 1.3 GHz single-cell cavities by niobium materials with fine and medium grain sizes**Speaker**

HeeSu Park

HPR development for SSR cavities for RAON**Speaker**

Juwan Kim

Status of the power coupler for the half wave resonator in IRIS

Speaker

Sungmin Jeon

Cavities mass production for SHINE**Speaker**

JIANBING ZHAO

CEPC superconducting RF system EDR design and R&D**Speaker**

Jiyuan Zhai

France-Japan collaboration for high-Q / high-G SRF cavities**Speaker**

Akira Miyazaki

Beam dynamics studies of cavity failures for the initial operation phase of the ESS superconducting linac**Speaker**

Bruce Yee-Rendon

Early exploration of zirconium doping SRF cavities with chemical vapor deposition**Speaker**

Alexis Grassl

High Q - high G study on single cell medium grain niobium cavities**Speaker**

Ashish Kumar

Ab initio investigation of surface passivation coatings to suppress Nb oxide formation**Speaker**

Cristobal Mendez

Magnetic flux expulsion lens: concept and measurements**Speaker**

Daniel Turner

Status of the 650 MHz elliptical cavities in IMP**Speaker**

Yulu Huang

Nb₃Sn coatings on copper at INFN-LNL**Speaker**

Dorothea Fonnesu

Progress in Nb₃Sn vapor diffusion method for single-cell cavities at KEK**Speaker**

Hayato Ito

CNRS contribution to PIP-II project: overview and lessons learned from SSR2 cavities prototyping phase**Speaker**

David Longuevergne

Grinding studies for improvement of cavity sub-components manufacturing defects**Speaker**

Laura Grassellino

Design of a 915 MHz conduction-cooled cryomodule**Speaker**

John Vennekate

Strength evaluation of high-purity niobium single crystals considering crystal orientation**Speaker**

Masashi Yamanaka

Design, fabrication and concept for the surface treatment of the SRF cavity prototype for the CLIC damping rings**Speaker**

Daniel Bafia

Horizontal testing of 648 MHz elliptical superconducting cavities for CSNS-II using dual-frequency signal method**RFD crab cavity HOM evolution: cold tests, cryostating & cryomodule testing at 2 K****Speaker**

Amelia Edwards

ELBE SRF gun - the most advanced source of its kind**Speaker**

Andre Arnold

Impedance measurement setup design of a silicon carbide beamline higher-order-mode absorber**Speaker**

Wencan Xu

Higher order modes couplers tuning optimization of 1.3 GHz 9 cell SRF cavities for SHINE project**Speaker**

xiaoyun pu

Trapped mode and wakefield evaluation of bellows for 197 MHz superconducting crab cavities**Speaker**

Guangjiang Li

591 MHz single-cell cavity optimization using evolutionary algorithms**Speaker**

Guangjiang Li

Vertical test results for ITN single cell cavities**Speaker**

Eric Viklund

Microstructural characterization of Nb₃Sn thin films using 3D FIB tomography**Speaker**

Eric Viklund

INFN LASA activities toward the PIP-II LB650 cavity production**Speaker**

Daniele Sertore

Conduction-cooled operation of an SRF multi-cell cavity**Speaker**

John Vennekate

Electromagnetic-thermal coupling study of the SHINE injector cavity**Speaker**

Xinghao Guo

Detuning and strength optimization of an 1.3 GHz 7-cell SRF cavity for high current application**Speaker**

Xinghao Guo

The design of a compact conduction-cooling system for SRF characterization**Speaker**

GAI WANG

Design and testing of high power test bench for CiADS elliptical superconducting cavity input coupler**Speaker**

Guochang liu

Initial conditioning of the 1.5 GHz prototype couplers for VSR demo**Speaker**

Emmy Sharples-Milne

Status of the cryomodule tests as a part of Polish in-kind contribution to the European Spallation Source (ESS) realized by IFJ PAN**Speaker**

Dariusz Bocian

Gamma-based diagnostics of field emission in SRF cavities and cryomodules using plastic scintillators: a joint study at ESS TS2**Speaker**

Enrico Cenni

Enhancing niobium films for SRF and quantum applications**Speaker**

Bektur Abdisatarov

In-situ HRTEM monitoring of oxide layer decomposition and lattice defect evolution on Nb during Medium-T Baking**Speaker**

Yuan He

Upgrade of E2.0cryogenic plant

Speaker

Dr Marco Modica

Insights into the cryogenic operation of the ESS superconducting cryomodules during the first commissioning phase**Speaker**

Marek Skiba

HOM study for CEPC cavities: HOM damping and recent developments**Speaker**

Hongjuan ZHENG

Dynamics issues and challenges of superconducting triple RF systems in future-synchrotron light sources**Speaker**

Tianlong He

Status of the 650 MHz high power couplers in IMP**Speaker**

TIANCAI JIANG

The horizontal testing of CSNS-II elliptical cryomodule**Speaker**

Cong Zhang

The higher order mode study of CSNS-II superconducting Linac**Speaker**

Cong Zhang

Cavity string design of the EIC ESR 591 MHz SRF cryomodule**Speaker**

Jiquan Guo

Enhancing bulk niobium quality: addressing surface pits and delamination in cavity manufacturing**Speaker**

Anna Shabalina

Testing and delivery of high beta cavities for the European Spallation Source by UKRI-STFC Daresbury Laboratory**Speaker**

Mr Alan Wheelhouse

Experimental investigation of plasma processing for PIP-II SSR2 cavities**Speaker**

Bianca Giaccone

Contactless RF shielded beamline warm-to-cold transition bellows for EIC ESR cryomodules**Speaker**

Jiquan Guo

Coupler installations on cavities at CEA followed by high power test in horizontal cryostat at Fermilab prior to the assembly of the PIP-II LB650 pre-production cryomodule**Speaker**

Nicolas Bazin

Commissioning plans for the CSNS-II superconducting linac**Speaker**

Jun Peng

SRF R&D activities at INFN-LASA**Speaker**

Laura Monaco

HOM analysis of the 1.3 GHz 3-cell cavity for high-current beam acceleration**Speaker**

Xuan Huang

Centrifugal barrel polishing of the SHINE 1.3 GHz 9-cell cavities**Speaker**

Xuan Huang

Fabrication of higher-order mode couplers for HL-LHC crab cavities at JLab**Speaker**

Naeem Huque

17:30