

39th International Symposium on Superconductivity (ISS2026)

Official Public Program

Dates: 1–3 December 2026

Language: English

This public program summarizes plenary lectures and technical tracks.

Conference Overview

ISS2026 features four major technical categories:

- Physics & Chemistry (PC)
- Wires & Bulk (WB)
- Electronic Devices (ED)
- Large Scale Applications (AP)

The symposium also includes plenary sessions and poster presentations.

Plenary Lectures

PL1 (December 1)

Ryotaro Arita

Toward a Complete Ab Initio Description of Superconducting States

PL2 (December 2)

Takanobu Kiss

New Frontiers in Next-Generation REBCO Coated Conductors

PL3 (December 2)

Tsuyoshi Wakuda

Can Superconductivity Marry Liquid Hydrogen?

PL4 (December 3)

Jaw-Shen Tsai

Rise of Superconducting Quantum Circuits

Technical Tracks

Physics & Chemistry (PC)

- Iron-based Superconductors
- Nickelate Superconductors
- Cuprate Superconductors
- Vortex Physics
- Novel Materials

Wires & Bulk (WB)

- Bulk Magnets
- REBCO Manufacturing
- Advanced Conductors
- Data-Driven Approaches

Electronic Devices (ED)

- Quantum Information
- Digital Electronics
- Detectors
- SQUIDs

Large Scale Applications (AP)

- Fusion Magnets
- Accelerator Magnets
- Electric Propulsion
- Magnet Technologies

Poster Sessions

Poster sessions are scheduled on 1 and 2 December 2026 across foyer and exhibition spaces, covering all symposium categories.

ISS2026 Conference Program

1 December 2026

AP Category

Rotating Machines and Electric Propulsion

09:45-10:15 | AP1-01-INV | Superconducting Motors for Aircraft Applications

Speaker: *Min Zhang¹, Weijia Yuan¹, Alexander Shchukin¹, Ercan Ertekin¹

Affiliation: 1. University of Strathclyde(UK)

Location: 201, 2nd Floor

10:15-10:45 | AP1-02-INV | High-temperature Superconducting Induction/Synchronous Motors for Liquid Hydrogen Pump Applications

Speaker: *Taketsune Nakamura¹

Affiliation: 1. Kyoto University(Japan)

Location: 201, 2nd Floor

10:45-11:15 | AP1-03-INV | The potential of HTS technology for electric propulsion for space

Speaker: *Nicholas Joseph Long¹, Jakub Glowacki, Max Goddard-Winchester, Sebastian Hellmann, Xiyong Huang, Ben Mallett, Betina Pavri, Cameron Shellard, Nick Strickland, Emile Webster, Randy Pollock

Affiliation: 1. Victoria University of Wellington(New Zealand)

Location: 201, 2nd Floor

11:15-11:30 | AP1-04 | A superconducting turbogenerator demonstrator for aviation applications

Speaker: *Grant Lumsden¹, Rupert Power², James Lonsdale³, Nic RogersRehn⁴, Lukas Hamm⁵, James Storey¹, Trevor Hughes³, Duleepa Thrimawithana², Zhenan Jiang¹

Affiliation: 1. Victoria University Wellington(New Zealand), 2. University of Auckland(New Zealand), 3. Air New Zealand(New Zealand), 4. Openstar Technologies(New Zealand), 5. Transfluid(Germany)

Location: 201, 2nd Floor

11:30-11:45 | AP1-05 | Entropy generation issues in compact and energy-efficient High Temperature Superconducting (HTS) motors and generators

Speaker: *Sangkwon Jeong Jeong¹, Zhenan Jiang², Grant Lumsden², Alan Caughley³, Michael Gschwendtner⁴, Sarat Singamneni⁴

Affiliation: 1. KAIST(Korea), 2. Victoria University Wellington(New Zealand), 3. University of Canterbury(New Zealand), 4. Auckland University of Technology(New Zealand)

Location: 201, 2nd Floor

11:45-12:00 | AP1-06 | An analytical torque equation for the HTS machine with stacked-tape architecture rotor

Speaker: *Andrés Antonio Yenes Sepúlveda¹, Tabea Arndt¹

Affiliation: 1. Karlsruhe Institute of Technology(Germany)

Location: 201, 2nd Floor

High-Field Magnets and Superconducting Power Applications

15:15-15:45 | AP2-01-INV | Ultra-High-Field MRI Magnets: Current Situation and Future Plans

Speaker: *Pierre Vedrine¹

Affiliation: 1. Université Paris-Saclay, CEA, Institut de recherche sur les lois fondamentales de l'Univers, 91191, Gif-sur-Yvette, France.(France)

Location: 201, 2nd Floor

15:45-16:15 | AP2-02-INV | Screening-Current-Induced Stress and Strain in High-Field REBCO Pancake Coils: Experimental Observations and Numerical Analysis

Speaker: *Yu Suetomi¹, Shannon Griffin¹, Kwangmin Kim¹, Hongyu Bai¹, Jun Lu¹, Aniket Ingrole¹, Iain Dixon¹

Affiliation: 1. National High Magnetic Field Laboratory(USA)

Location: 201, 2nd Floor

16:15-16:30 | AP2-03 | Status of the KIT EnergyLab Hydrogen Integration Platform (HIP) and relevance to HTS

Speaker: *Tabea Arndt¹, Michael J Wolf¹, Mira Wehr¹, Giovanni de Carne¹, Nils Nemsow¹

Affiliation: 1. KIT ITEP(Germany)

Location: 201, 2nd Floor

16:30-16:45 | AP2-04 | Acceptable tolerances for material properties in a DC power transmission cable assessed by numerical modelling

Speaker: Eugen Seiler¹, Marek Mořat¹, *Fedor Gömöry¹, Antonio Morandi², Mattia Simonazzi², Beate West³, Arnaud Allais⁴

Affiliation: 1. Institute of Electrical Engineering, Slovak Academy of Sciences(Slovakia), 2. Department of Electrical, Electronic and Information Engineering "Guglielmo Marconi" of the University of Bologna(Italy), 3. Nexans Deutschland(Germany), 4. Nexans France(France)

Location: 201, 2nd Floor

16:45-17:00 | AP2-05 | AC loss comparison in 1 MVA HTS transformers: effect of using transposed and non-transposed cables.

Speaker: *Chenxi Tian¹, Wenjuan Song³, Jin Fang², Nicholas J Long¹, Zhenan Jiang¹

Affiliation: 1. Robinson Research Institute, Victoria University of Wellington, New Zealand(New Zealand), 2. School of Electrical Engineering, Beijing Jiaotong University(China), 3. CryoElectric Research Lab, Propulsion, Electrification & Superconductivity Group, James Watt School of Engineering, University of Glasgow(UK)

Location: 201, 2nd Floor

AC losses

17:15-17:45 | AP3-01-INV | Modelling of AC loss and electrothermal stability of high-temperature superconducting motors for electric aircraft propulsion

Speaker: *Enric Pardo¹, Anang Dadhich¹, Arif Hussain¹, Alexandre Colle², Remi Dorget², Mohamed Essam Ahmed²

Affiliation: 1. Institute of Electrical Engineering SAS(Slovakia), 2. AIRBUS UpNext(France)

Location: 201, 2nd Floor

17:45-18:15 | AP3-02-INV | AC Loss Evaluation of HTS Coils for High Field Magnets Wound with Two-ply Bundle Conductors

Speaker: *Kazuhiro Kajikawa¹

Affiliation: 1. Sanyo-Onoda City University(Japan)

Location: 201, 2nd Floor

18:15-18:30 | AP3-03 | AC loss study of a 300 kW fully HTS synchronous wind generator considering winding heads

Speaker: *Yue Wu¹, Sebastian Lengsfeld², Jannis Sindram², Nick Thönelt¹, Zhenan Jiang³, Francesco Grilli¹

Affiliation: 1. Karlsruhe Institute of Technology(Germany), 2. Fraunhofer Institute for Energy Economics and Energy System Technology(Germany), 3. Victoria University of Wellington(New Zealand)

Location: 201, 2nd Floor

APP

APP1

13:15-14:45 | APP1-01 | Design aspects of a megawatt-level rotor employing REBCO saddle coils

Speaker: *James Storey¹, Bart Ludbrook¹, Michael Southon¹, Grant Lumsden¹, Zhenan Jiang¹

Affiliation: 1. Victoria University of Wellington(New Zealand)

Location: 3F Foyer East

13:15-14:45 | APP1-02 | Torque Improvement of an HTS Induction Motor Using a Double-Rectangular-Coil Armature and a Dual-Diameter Rotor

Speaker: *Miyatada Murasaki¹, Rentarou Suenaga¹, Koya Hori¹, Kohei Yoshida¹, Hayato Toda¹, Tomohiro Inoue¹, Hiroshi Miyazaki¹, Masataka Iwakuma¹

Affiliation: 1. Kyushu University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-03 | Effects of Rotor Eccentricity and Axial Displacement on Electromagnetic Force and Torque in High-temperature Superconducting Induction Motor

Speaker: *Guangwei Xu¹, Taketsune Nakamura¹

Affiliation: 1. Kyoto University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-04 | 3D Nonlinear Electromagnetic Field Analysis of a High-Thrust, Several-Kilowatt-Class Tubular High-Temperature Superconducting Linear Induction Motor

Speaker: *Tatsuya Matsumura¹, Taketsune Nakamura¹

Affiliation: 1. Kyoto University Electrical, Electronic, and Digital Science and Engineering(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-05 | Experimental Evaluation on Circulating Current Reduction in a Four-Parallel Saddle-Shaped Full-Pitch Coil with Symmetric Strand Arrangement under Rotating Magnetic Field

Speaker: *Tomohiro Inoue¹, Goki Kawasaki², Miyatada Murasaki¹, Asato Kobun², Shun Miura³, Hiroshi Miyazaki¹, Koichi Yoshida¹, Akifumi Kawagoe⁴, Masataka Iwakuma¹

Affiliation: 1. Kyushu University(Japan), 2. National Institution of Technology, Miyakonojo College(Japan), 3. National Institution for Fusion Science(Japan), 4. Kagoshima University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-06 | From industrial power electronic devices to a 77 K power converter

Speaker: Yanis LAÏB¹, Marceline MANYONG KAPEND¹, Kevin BERGER¹, Stephane RAEL¹, *Jean LEVEQUE¹

Affiliation: 1. Université de Lorraine, GREEN, F-54000 Nancy, France(France)

Location: 3F Foyer East

13:15-14:45 | APP1-07 | Improving GFM-to-GFL Handover in Renewable-Energy Microgrids with Fast SMES Support

Speaker: *YUCONG YANG¹, Kohei Higashikawa¹, Takanobu Kiss¹

Affiliation: 1. Kyushu University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-08 | Development of a High-Speed Physics-Based Simulation Model for Autonomous Predictive Maintenance of SMES Superconducting Coils

Speaker: *Satsuki Okumura¹, Yoh Nagasaki¹, Makoto Tsuda¹

Affiliation: 1. Tohoku University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-09 | A novel application for HTS coated conductors: pulsed high-voltage spiral generators

Speaker: Thor Wens¹, Jean Francois Fagnard¹, Christophe Greffe², *Philippe Vanderbemden¹

Affiliation: 1. University of Liege(Belgium), 2. GeneriX SRL(Belgium)

Location: 3F Foyer East

13:15-14:45 | APP1-10 | Superconductor and normal-conductor currents in RE123 tape during short-circuit current experiments, analyzed with LTspice

Speaker: *KOKI SHINTANI¹, MASAE KANDA¹, SATARO YAMAGUCHI¹

Affiliation: 1. Chubu University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-11 | Numerical study on current distribution of two-layer REBCO assembled conductors during AC inductive energization

Speaker: *Takumi Gotomyo¹, Masayoshi Ohya¹

Affiliation: 1. Kwansei Gakuin University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-12 | SS-Armored CORC Bend

Speaker: *LINLI GUO¹

Affiliation: 1. Shanghai Jiao Tong University(China)

Location: 3F Foyer East

13:15-14:45 | APP1-13 | Compression characteristics of high-temperature superconducting spirally assembled conductors

Speaker: *Soya Okabe¹, Mio Yoshizaki¹, Masayoshi Ohya¹

Affiliation: 1. Kwansei Gakuin University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-14 | Effect of surface condition on cooling stability of REBCO wires cooled by liquid hydrogen

Speaker: *Takuma Obuchi¹, Daiki Nakashima¹, Masayoshi Ohya¹, Shinnosuke Matsunaga², Yuta Onodera³, Naoko Nakamura³, Naoki Hirano³

Affiliation: 1. School of Engineering, Kwansei Gakuin University(Japan), 2. National Institute of Technology, Gifu College(Japan), 3. National Institute for Fusion Science(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-15 | Effect of Outer Pipe Surface Materials on the Thermal Insulation Performance of Cryogenic Pipes

Speaker: *Hiroaki Kobayashi¹, Masae Kanda¹, Sataro Yamaguchi¹, hirofumi Watanabe¹

Affiliation: 1. Chubu University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-16 | Optimization of Condenser Design for a Hydrogen Thermosyphon Cooling System in HTS Applications

Speaker: *Haruki Wakita¹, Kota Yamaguchi¹, Keita Tsuzuki²

Affiliation: 1. National Institute of Technology, Toba college(Japan), 2. National Institute of Technology, Toyota college(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-17 | Status of the FASUM projectForty Tesla All Superconducting User Magnet

Speaker: *Philippe Fazilleau¹, Xavier Chaud², Jung-Bin Song², Thibault L  crevisse¹

Affiliation: 1. CEA Saclay(France), 2. CNRS-LNCMI Grenoble(France)

Location: 3F Foyer East

13:15-14:45 | APP1-18 | Trapping High Magnetic Field in Tubular Stacked Coated Conductors by pulsed field

Speaker: *Cheng Yu¹, Yuji Tsuchiya², Yoshimitsu Kohama¹

Affiliation: 1. Tokyo Univ. (Japan), 2. Tohoku Univ.(Japan)

Location: 3F Foyer East

13:15-14:45 | APP1-19 | Evaluation of a Wind & Shape HTS Tape Undulator Considering Anisotropic Critical-Current Characteristics

Speaker: *Takuto Fukui¹, Ryota Kinjo¹, Sohki Murakami¹, Marco Calvi², Alexandre Arsenault²

Affiliation: 1. Osaka Institute of Technology(Japan), 2. Paul Scherrer Institute(Switzerland)

Location: 3F Foyer East

13:15-14:45 | APP1-20 | Post-mortem analysis of a Metal-as-Insulation Double Racetrack REBCO coil after multiple quenches

Speaker: *Thibault L  crevisse¹, Antomne Caunes¹, Guillaume Campagna¹, Audren Blondelle¹, Philippe Fazilleau¹, Franco Julio Mangiarotti², Algirdas Baskys², Amalia Ballarino²

Affiliation: 1. CEA-Universit   Paris-Saclay / Irfu(France), 2. CERN, European Organisation for Nuclear Research(Switzerland)

Location: 3F Foyer East

Digital, Detector, High-frequency Devices

13:15-14:45 | EDP1-01 | Test Set Generation Method for Timing Faults in RSFQ Circuits Composed of Clockless Gates

Speaker: *Masaki Oiwa¹, Nobutaka Kito¹

Affiliation: 1. Chukyo University(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-02 | Evaluation of Operating Speed of High-Speed Superconductive Random Number Generator Using an Autocorrelation Calculation Circuit

Speaker: *Yoshinobu Tomitaka¹, Nobuyuki Yoshikawa^{2,3,4}, Yuki Yamanashi^{2,3,4}

Affiliation: 1. Graduate School of Yokohama National University(Japan), 2. Faculty of Engineering Yokohama National University(Japan), 3. Institute of Advanced Sciences Yokohama National University(Japan), 4. Institute for Multidisciplinary Sciences Yokohama National University(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-03 | Implementation of an SFQ Spiking Neural Network Using SFQ ReLU Neurons for Dataset Classification

Speaker: *Yuto Ueno¹, Zeyu Han², Nobuyuki Yoshikawa^{2,3}, Yuki Yamanashi^{2,3}

Affiliation: 1. Yokohama National Univ.(Japan), 2. Yokohama National Univ. IMS(Japan), 3. Yokohama National Univ. IAS(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-04 | Design of a reconfigurable adiabatic quantum-flux-parametron logic gate

Speaker: *Aoto Tanaoka¹, Nobuyuki Yoshikawa^{1,2,3}, Yuki Yamanashi^{1,2,3}

Affiliation: 1. Yokohama National University(Japan), 2. Institute of Advanced Sciences, Yokohama National University(Japan), 3. Institute for Multidisciplinary Sciences, Yokohama National University(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-05 | R&D of Josephson Voltage Standard Systems and Their Applications

Speaker: *Michitaka Maruyama¹, Kaho Koyanagi¹, Daiki Matsumaru¹, Hirotake Yamamori¹, Nobu-Hisa Kaneko¹

Affiliation: 1. National Metrology Institute of Japan (NMIJ), National Institute of Advanced Industrial Science and Technology (AIST)(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-06 | Effect of Reduced Operating Temperature on the Noise Performance of HTS SQUIDS

Speaker: Saburo TANAKA¹, *Takeyoshi Ohtani²

Affiliation: 1. Toyohashi University of Technology(Japan), 2. Nikka Densok Limited(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-07 | Data Augmentation for High-Resolution Microwave Frequency Identification Using Bias-Tuned Superconducting Transmission Lines

Speaker: *Yuta Yasutani¹

Affiliation: 1. Saitama University(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-08 | Design and evaluation of HTS Bulk Resonator Antenna with Fabry-Perot Resonator for Wireless Power Transfer

Speaker: *IKUTO SHINDO¹, Takumu Suzuki¹, Yamato Kobayashi¹, Haruto Niida², Atsushi Saito¹

Affiliation: 1. Graduate school of science and Engineering, Yamagata University(Japan), 2. Fuji Electric Co., LTD(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-09 | Development of a Low-Temperature Measurement System for an Aluminum MKID for Solar Electron-Neutrino Observation

Speaker: *Kento Kakinoki¹, Taichi Fukushima¹, Hirokazu Ishino¹, Ryota Takaku¹, Hirotake Yamamori²

Affiliation: 1. Okayama Univ.(Japan), 2. AIST(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP1-10 | Estimations of kinetic inductance in YBCO coplanar waveguides

Speaker: *HISASHI SHIMAKAGE¹, Masaru Furukawa¹, Ibuki Takahashi¹

Affiliation: 1. Ibaraki University(Japan)

Location: 3F Foyer South

ED Category

Digital I

09:45-10:15 | ED1-01-INV | Noise-Driven Superconducting Computing with SFQ Brownian Logic Circuits

Speaker: *Satoshi Satoshi Kawakami¹

Affiliation: 1. Kyushu University(Japan)

Location: 203, 2nd Floor

10:15-10:45 | ED1-02-INV | Fabrication process for superconducting digital circuits in Qufab/AIST

Speaker: *Mutsuo Hidaka¹

Affiliation: 1. AIST(Japan)

Location: 203, 2nd Floor

10:45-11:00 | ED1-03 | Design and Implementation of a Boost Buffer for Direct-Coupled Adiabatic-Quantum-Flux-Parametron Circuits

Speaker: *Yuta Hasegawa¹, Yuki Yamanashi^{1,2}, Nobuyuki Yoshikawa^{1,2}

Affiliation: 1. Department of Electrical and Computer Engineering, Yokohama National University(Japan), 2. Institute of Advanced Sciences, Yokohama National University(Japan)

Location: 203, 2nd Floor

11:00-11:15 | ED1-04 | Design and Characterization of a Bipolar Digital-Analog Converter Using Superconducting Current-Steering Switches

Speaker: *Kazushi Kuwabara¹, Hiroshi Shimada¹, Yoshinao Mizugaki^{1,2}

Affiliation: 1. Department of Engineering Science, Graduate School of Informatics and Engineering, The University of Electro-Communications(Japan), 2. Quantum Future Creative Device Development Center, The University of Electro-Communications(Japan)

Location: 203, 2nd Floor

11:15-11:30 | ED1-05 | Design and Evaluation of a Superconducting Stochastic Memory Using Multiple-Flux-Quantum Storage and Frequency Synchronization

Speaker: *Taito Tagawa¹, Nobuyuki Yoshikawa^{1,2,3}, Yuki Yamanashi^{1,2,3}

Affiliation: 1. Yokohama National Univ.(Japan), 2. YNU IAS(Japan), 3. YNU IMS(Japan)

Location: 203, 2nd Floor

11:30-11:45 | ED1-06 | Superconducting electrical readout of a magnetic memory bit

Speaker: *Jackson Miller¹, William Holmes-Hewett¹, Atif Islam¹, Ben Wylie-van Eerd¹, Catherine Pot¹, Martin Markwitz¹, Simon Granville¹, Ben Ruck¹

Affiliation: 1. Victoria University of Wellington(New Zealand)

Location: 203, 2nd Floor

11:45-12:00 | ED1-07 | Evaluation of Josephson Balanced Comparator With Variable Characteristics by Using dc-SQUID Modulation

Speaker: *Haruka Asano¹, Yuki Yamanashi¹, Nobuyuki Yoshikawa¹

Affiliation: 1. Yokohama National University(Japan)

Location: 203, 2nd Floor

Quantum Information I

15:15-15:45 | ED2-01-INV | Post-fabrication frequency trimming of resonators and transmons to improve yield in tunable-coupler quantum processor architectures

Speaker: *Santiago Valles Sanclemente¹, Sean L. M. van der Meer¹, Tim H. F. Vroomans¹, Marc W. Beekman², Lucas A. Hak¹, Anand Kamlapure¹, Kishore K. Thiyagarajan¹, Bas D. L. Koerts¹, Matvey Finkel¹, Leonardo DiCarlo¹

Affiliation: 1. Delft University of Technology(Netherlands), 2. Netherlands Organisation for Applied Scientific Research(Netherlands)

Location: 203, 2nd Floor

15:45-16:15 | ED2-02-INV | Scalable Nitride-based Superconducting Qubits with Novel Structures

Speaker: *Taro Yamashita¹

Affiliation: 1. Department of Applied Physics, Graduate School of Engineering, Tohoku University(Japan)

Location: 203, 2nd Floor

16:15-16:45 | ED2-03-INV | Electromechanics based on ultra-high stressed titanium nitride membrane

Speaker: *Yuki Matsuyama¹, Shotaro Shirai^{2,1}, Hirotaka Terai³, Yuji Hishida³, Atsushi Noguchi^{1,2,4}

Affiliation: 1. Komaba Institute for Science in University of Tokyo(Japan), 2. RIKEN Center for Quantum Computing(Japan), 3. NICT(Japan), 4. InaRIS(Japan)

Location: 203, 2nd Floor

16:45-17:00 | ED2-04 | Hamiltonian engineering of ultrastrongly coupled superconducting quantum circuit for information processing and sensing

Speaker: *Akiyoshi Tomonaga¹

Affiliation: 1. AIST(Japan)

Location: 203, 2nd Floor

SQUID

17:15-17:45 | ED3-01-INV | Application of HTS-SQUIDs to the resource and energy industry for contribution to GX

Speaker: *Tsunehiro Hato¹, Hironori Wakana¹, Yusaku Nishi¹, Tatsuya Irisa¹, Muhammad Abiyyu¹, Nagi Yamashita¹, Toshihiro Kodaka¹, Keiichi Tanabe¹

Affiliation: 1. Superconducting Sensor Technology Corporation(Japan)

Location: 203, 2nd Floor

17:45-18:15 | ED3-02-INV | Nanoscale wireframe SQUIDs on cantilevers for magnetic microscopy

Speaker: *Hans Hilgenkamp¹

Affiliation: 1. University of Twente(Netherlands)

Location: 203, 2nd Floor

18:15-18:30 | ED3-03 | dc-SQUID series array current sensors for fast optical photon counting TESs

Speaker: Kenji Sakai¹, *Joern Beyer¹, Tetsuya Tsuruta², Fuminori Hirayama², Daiji Fukuda²

Affiliation: 1. Physikalisch-Technische Bundesanstalt (PTB)(Germany), 2. National Institute of Advanced Industrial Science and Technology (AIST)(Japan)

Location: 203, 2nd Floor

PC Category

Iron-based

09:45-10:15 | PC1-01-INV | Stoichiometric FeTe is a Superconductor

Speaker: *Cui-Zu Chang¹

Affiliation: 1. Department of Physics, Pennsylvania State University(USA)

Location: Main Hall, 3rd Floor

10:15-10:45 | PC1-02-INV | Pure Nematic Quantum Criticality in FeSe-based superconductors

Speaker: *Kousuke Ishida¹

Affiliation: 1. Department of Advanced Materials Science, University of Tokyo(Japan)

Location: Main Hall, 3rd Floor

10:45-11:15 | PC1-03-INV | Interface Superconductivity in Ultrathin FeSe/STO Films Grown by PLD

Speaker: *Tomoki Kobayashi¹

Affiliation: 1. Dept. of Phys. The University of Osaka(Japan)

Location: Main Hall, 3rd Floor

11:15-11:30 | PC1-04 | Ionic Liquid Gating-Induced High-Temperature Superconductivity in Iron Chalcogenide Thin Films

Speaker: *Yu Nagai¹, Tetsu Nakamura¹, Yoshinobu Nakamura¹, Tomoki Kobayashi²,

Atsutaka Maeda¹, Hikaru Okuma¹, Kazunori Ueno¹
 Affiliation: 1. Univ. Tokyo(Japan), 2. Osaka Univ(Japan)
 Location: Main Hall, 3rd Floor

11:30-11:45 | PC1-05 | Unveiling the orbital upper critical field in FeSe_{0.5}Te_{0.5} by measuring vortex motion and flux-flow at microwave frequencies

Speaker: *Enrico Silva^{1,2}, Andrea Alimenti^{1,2}, Valeria Braccini³, Alessandro Magalotti^{1,2}, Pietro Manfrinetti⁴, Nicola Pompeo^{1,2}, Kostiantyn Torokhtii¹
 Affiliation: 1. University Roma Tre(Italy), 2. INFN-Roma Tre Section(Italy), 3. CNR-SPIN(Italy), 4. University of Genoa(Italy)
 Location: Main Hall, 3rd Floor

11:45-12:00 | PC1-06 | Defect Engineering and Vortex Pinning Anisotropy in CaKFe₄As₄- A Comparative Study of Chemical Doping and Particle Irradiation.

Speaker: *Anastasiya Duchenko¹, Andrea Masi¹, Achille Angrisani Armenio¹, Luigi Muzzi¹, Nicola Pompeo², Yangsong Chen⁶, Lei Wang³, Francesca Varsano⁴, Mario Scuderi⁵, Tsuyoshi Tamegai⁶
 Affiliation: 1. ENEA, NUC-FUSEN-COND(Italy), 2. Department of Industrial, Electronic and Mechanical Engineering, Roma Tre University(Italy), 3. Key Laboratory of Applied Superconductivity, Institute of Electrical Engineering Chinese Academy of Sciences(China), 4. ENEA, C.R. Casaccia(Italy), 5. Institute for Microelectronics and Microsystems (IMM), National Research Council of Italy (CNR)(Italy), 6. Institute for Solid State Physics, The University of Tokyo(Japan)
 Location: Main Hall, 3rd Floor

Vortex 1

15:15-15:45 | PC2-01-INV | TDGL Simulations of Vortex States in Mesoscopic Superconductors: An Experimentalist's Perspective

Speaker: *Akinobu Kanda¹
 Affiliation: 1. Univ. Tsukuba(Japan)
 Location: Main Hall, 3rd Floor

15:45-16:15 | PC2-02-INV | Critical Temperature and Vortices in a Nano-sized Dirty Superconductor

Speaker: *Masaru Kato¹, Yoichi Higashi¹, Terukazu Nishizaki²
 Affiliation: 1. National Institute of Advanced Industrial Science and Technology (AIST)(Japan), 2. Kyushu Sangyo University(Japan)
 Location: Main Hall, 3rd Floor

16:15-16:30 | PC2-03 | Correlated vortex pinning effects in an intrinsic quasi-periodic superconductor

Speaker: *SOURAV KARAN¹
 Affiliation: 1. Indian Institute of Technology-Kanpur(India)
 Location: Main Hall, 3rd Floor

16:30-16:45 | PC2-04 | Impact of Meander Geometry on Vortex Pinning and Superconducting Properties of NbN Superconductors

Speaker: *DOYEL RAKSHIT¹, Amrita Singh¹, Arun Sehwat¹, Krishna B Balasubramanian¹

Affiliation: 1. Indian Institute Of Technology Delhi(India)

Location: Main Hall, 3rd Floor

16:45-17:00 | PC2-05 | Vortex core scanning tunneling spectroscopy reveals a Lifshitz transition in a high-temperature cuprate superconductor

Speaker: *Ivan Maggio-Aprile¹, Tejas Singar¹, Christoph Renner¹

Affiliation: 1. University of Geneva - DQMP(Switzerland)

Location: Main Hall, 3rd Floor

Novel phenomena

17:00-17:15 | PC3-01 | THz Spectroscopic Gap Extraction in Superconducting NbN Thin Film: Experimental Validation and Thickness-Dependent Simulations

Speaker: *KM SHIVANGI SHUKLA¹, G. ANTONIO¹, S. MANGIN², T. HAUET², CHIARA CICCARELLI¹

Affiliation: 1. UNIVERSITY OF CAMBRIDGE(UK), 2. JEAN LAMOUR INSTITUTE - UNIVERSITE DE LORRAINE(France)

Location: Main Hall, 3rd Floor

PCP1

13:15-14:45 | PCP1-01 | Vacuum Hierarchy and Real Space topological object in multi-component superconductor

Speaker: *Kihito Tanaka¹, Yasumoto Tanaka², Kazuyasu Tokiwa², Taichiro Nishio¹

Affiliation: 1. Department of Physics, Graduate School of Science, Tokyo University of Science(Japan), 2. Faculty of Industrial Science and Technology, Tokyo University of Science(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-02 | Normal and Anomalous Self-Energy of Optimally Doped La₂-xSr_xCuO₄ extracted from ARPES spectra

Speaker: *Rikito Saiki¹, Yitong Chen¹, Daiki Ootsuki², Teppei Yoshida¹

Affiliation: 1. Kyoto University(Japan), 2. Okayama University(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-03 | The influence of the La/Sr ratio on the superconducting properties of TFA-MOD La₂-xSr_xCuO₄ films

Speaker: *Seishiro Nagaba¹, Kosuke Masuda¹, Ryusei Kaji, Yuki Ogimoto¹, Masashi Miura^{1,2}

Affiliation: 1. Seikei University(Japan), 2. JST-FOREST(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-04 | The effect of carrier concentration on the superconducting properties of (Y₁-xCa_x)Ba₂Cu₄O₈ films

Speaker: *Katsuki Kondo¹, Ryoya Nagaura¹, Yuki Ogimoto¹, Shuhei Funaki², Serena Eley³, Masashi Miura^{1,4}

Affiliation: 1. Seikei University(Japan), 2. Aichi Institute of Technology(Japan), 3. University of Washington(USA), 4. JST-FOREST(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-05 | Optical Contrast Analysis of Single-Crystal Bi2212 and Establishment of a Non-Destructive Thickness Measurement Method

Speaker: *JIRANTHANIN KASEAN¹, Yoshitaka Nakamura¹, Takaharu Kamada¹

Affiliation: 1. National Institute of Technology(KOSEN), Hachinohe College(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-06 | Enhancement of Effective Mass and Non-Fermi Liquid Behavior in Cr/Mn Substituted KFe₂As₂

Speaker: *Kentarō Mori¹, Shunsuke Yamamoto¹, Shiro Kawachi¹, Akira Yamaguchi¹, Hisao Kobayashi¹, Shigeki Miyasaka¹

Affiliation: 1. Graduate School of Science, University of Hyogo(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-07 | Effects of He and Au ion irradiation on the superconducting properties of iron-based superconductors

Speaker: Ibuki Washitani¹, Atsushi Fujita¹, Sogo Kubota¹, Tatsuya Higashi¹, Takafumi Hatano², Toshinori Ozaki³, Kazumasa Iida⁴, *Hiroshi Ikuta^{1,5}

Affiliation: 1. Department of Materials Physics, Nagoya University(Japan), 2. Department of Physics, Hokkaido University(Japan), 3. School of Engineering, Kwansei Gakuin University(Japan), 4. College of Industrial Technology, Nihon University(Japan), 5. Research Center for Crystalline Materials Engineering, Nagoya University(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-08 | Propionic Acid-Assisted Synthesis and Characterization of Bilayer and Trilayer Lanthanum Nickelates

Speaker: *JHAOWEI SU^{1,2}, Ryo Matsumoto¹, Yoshihiko Takano^{1,2}

Affiliation: 1. National Institute for Materials Science (NIMS)(Japan), 2. University of Tsukuba(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-09 | Crystal Growth and Superconductivity of 3R-TaSe₂-xTex without Spatial Inversion Symmetry

Speaker: *Kazuki Okada¹, Takao Sasagawa¹

Affiliation: 1. Materials and Structures Laboratory, Institute of Science Tokyo(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-10 | Pressure-tuned critical current in thin flake 2H-NbSe₂

Speaker: *Chenzhong Feng¹, Che-hsuan Ku¹, Tsz Fung Poon¹, Zheyu Wang¹, Xirun Sun², Desheng Wu², Swee Kuan Goh^{1,3}

Affiliation: 1. The Chinese University of Hong Kong(Hong Kong), 2. Quantum Science Center of Guangdong-Hong Kong-Macao Greater Bay Area(China), 3. State Key Laboratory of Quantum Information Technologies and Materials(Hong Kong)

Location: 3F Foyer South

13:15-14:45 | PCP1-11 | Sn substitution effects in BiS₂-based superconductors Ln(O,F)BiS₂

Speaker: *Yuta Takahashi¹, Ryoya Tanabe¹, Takeru Nishimura¹, Yuto Miyake¹, Shogo Kuwahara¹, Satoshi Demura¹

Affiliation: 1. CST, Nihon University(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-12 | Tc Enhancement in AuCu₃-Type BaBi₃ through Na Substitution

Speaker: *Terunari Koshinuma¹, Yoshihisa Kamiya¹, Hiroshi Fujihisa², Yoshito Gotoh², Izumi Hase², Shigeyuki Ishida², Hiraku Ogino², Hiroshi Eisaki², Kenji Kawashima², Akira Iyo²

Affiliation: 1. IMRA JAPAN Co., Ltd.(Japan), 2. National Institute of Advanced Industrial Science and Technology (Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-13 | Enhanced Superconductivity and structural phase transition in the Solid Solution Rh_{1-x}PtxSb

Speaker: *Akira Iyo¹, Hiroshi Fujihisa¹, Izumi Hase¹, Shigeyuki Ishida¹, Hiroshi Eisaki¹, Hiraku Ogino¹, Kenji Kawashima²

Affiliation: 1. National Institute of Advanced Industrial Science and Technology (AIST)(Japan), 2. IMRA JAPAN R&D Co., Ltd.(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-14 | Electronic Structure, Phonon Instability and Nonsymmorphic Dirac Nodal Line in New Superconductor Rh_{1-x}PtxSb

Speaker: *Izumi Hase¹, Akira Iyo¹, Yoichi Higashi¹, Kenji Kawashima^{1,2}

Affiliation: 1. National Institute of Advanced Industrial Science and Technology (AIST)(Japan), 2. IMRA JAPAN(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP1-15 | Superconducting and Vortex Properties near the Structural Phase Transition in Rh_{1-x}PtxSb

Speaker: *Shigeyuki Ishida¹, Hiroshi Fujihisa¹, Izumi Hase¹, Hiraku Ogino¹, Hiroshi Eisaki¹, Akira Iyo¹, Kenji Kawashima²

Affiliation: 1. AIST(Japan), 2. IMRA JAPAN Co., Ltd.(Japan)

Location: 3F Foyer South

PL Category

Plenary

08:30-09:15 | PL1 | Toward a Complete Ab Initio Description of Superconducting States: From Critical Temperature to Fundamental Length Scales

Speaker: *Ryotaro Arita^{1,2}

Affiliation: 1. University of Tokyo(Japan), 2. RIKEN(Japan)

Location: Main Hall, 3rd Floor

WB Category

Bulk I

09:45-10:15 | WB1-01-INV | Superconducting Bulk Magnets that Realize the Practical Application of NMR/MRI

Speaker: *Takashi NAKAMURA¹

Affiliation: 1. RIKEN(Japan)

Location: 202, 2nd Floor

10:15-10:45 | WB1-02-INV | Hybrid magnetic screens as scalable ‘quasi-bulk’ superconductors: understanding their optimal position under high, inhomogeneous applied fields

Speaker: *Nicolas Rotheudt¹, Tomas Hlasek^{2,3}, Jan Plechacek², Philippe Vanderbemden¹

Affiliation: 1. University of Liège (Department of Electrical Engineering and Computer Science)(Belgium), 2. CAN Superconductors, s.r.o.(Czech Republic), 3. University of Chemistry and Technology Prague (3Department of Inorganic Chemistry)(Czech Republic)

Location: 202, 2nd Floor

10:45-11:15 | WB1-03-INV | Impurity engineering for enhanced functionality in SDMG-processed REBCO bulks

Speaker: *Takanori Motoki¹, Jun-ichi Shimoyama², Hiraku Ogino¹

Affiliation: 1. National Institute of Advanced Industrial Science and Technology (AIST)(Japan), 2. Aoyama Gakuin Univ.(Japan)

Location: 202, 2nd Floor

11:15-11:30 | WB1-04-INV | Statistical Analysis of Material Variability and Defects in REBCO Bulk Superconductors

Speaker: *Kévin Berger¹, Frederic Trillaud^{2,1}, Santiago Guijosa¹, Víctor Rolando Jara-González², Román Anselmo Mora-Gutiérrez³

Affiliation: 1. Université de Lorraine, GREEN(France), 2. Universidad Nacional Autónoma de México(Mexico), 3. Universidad Autónoma Metropolitana(Mexico)

Location: 202, 2nd Floor

11:30-11:45 | WB1-05 | Compact MgB₂ Cryo-Magnets: Achieving Record-High Trapped Magnetic Fields

Speaker: *Muralidhar Miryala¹, Tomoyuki Naito², Jacques Noudem³

Affiliation: 1. Shibaura Institute of Technology(Japan), 2. Iwate University(Japan), 3. Université de Caen Normandie(France)
Location: 202, 2nd Floor

High Field Characterization I

15:15-15:40 | WB2-01-INV | Using the SuperCurrent Ic measurement system to map the operational space of HTS wire

Speaker: *Nicholas Joseph Long¹, Nick Strickland¹, Olly Pantoja¹

Affiliation: 1. Victoria University of Wellington(New Zealand)

Location: 202, 2nd Floor

15:40-16:05 | WB2-02-INV | Commercial REBCO Conductors for High-Field Magnets: Transport Anisotropy, Mechanical Integrity and Design Limits

Speaker: *Carminatore^{1,2}, Romain Babouche¹, Celia Lucas¹, Damien Zurmuehle¹, Bernardo Bordini³, Luca Bottura³, Tatsunori Okada⁴, Yuji Tsuchiya⁴, Satoshi Awaji⁴

Affiliation: 1. Department of Quantum Matter Physics, University of Geneva(Switzerland), 2.

Department of Nuclear and Particle Physics, University of Geneva(Switzerland), 3.

CERN(Switzerland), 4. Institute for Materials Research, Tohoku University(Japan)

Location: 202, 2nd Floor

16:05-16:30 | WB2-03-INV | High-Field Characterization of REBCO Coated Conductors.

Speaker: *Jan Jaroszynski¹

Affiliation: 1. NHMFL(USA)

Location: 202, 2nd Floor

16:30-16:55 | WB2-04-INV | Testing Technologies for Superconducting Wires & Tapes at ASIPP

Speaker: *Fang Liu¹, Yunhao Liu¹, Peng Gao¹

Affiliation: 1. Institute of Plasma Physics, Chinese Academy of Sciences (China)

Location: 202, 2nd Floor

High Field Characterization II

17:15-17:40 | WB3-01-INV | Recent development of Ic characterization in the French SupraFusion program

Speaker: *Arnaud Badel¹, Xavier Chaud¹

Affiliation: 1. CNRS(France)

Location: 202, 2nd Floor

17:40-18:05 | WB3-02-INV | Multi-Parameter Transport Ic(B, T, θ , ϵ) of REBCO Tapes for Ultra-High-Field Magnet Design

Speaker: *Yuji Tsuchiya¹, Shohei Nojima¹, Shunsuke Kume¹, Hitoki Suzuki¹, Junyi Luo¹, Alexandre Zampa², Hugo Sourice², Arnaud Badel², Jaeheon Kim³, Yoshimitsu Kohama³, Akira Matsuo³, Koichi Kindo³, Kenichiro Mizuno⁴, Satoshi Awaji¹

Affiliation: 1. IMR, Tohoku Univ.(Japan), 2. Univ. Grenoble Alpes, G2Elab / Néel Institute,

CNRS(France), 3. ISSP, Univ. of Tokyo(Japan), 4. MTL Corp.(Japan)

Location: 202, 2nd Floor

18:05-18:30 | WB3-03-INV | Prospects for Superconductors in Pulsed Fields using thermodynamic and critical current measurements

Speaker: *Boris Maiorov¹

Affiliation: 1. National High Magnetic Field Laboratory, Los Alamos National Laboratory(USA)

Location: 202, 2nd Floor

WBP1

13:15-14:45 | WBP1-01 | Research on the Application Performance of Superconducting Composite Cables for Tokamak Magnets

Speaker: *Shaotao Dai¹, Yangyang Shi¹, Tao Ma¹, Bangzhu Wang¹

Affiliation: 1. Beijing Jiaotong University(China)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-02 | Scaling up IBAD Buffer tape manufacturing for 2G-HTS at Faraday Factory Japan

Speaker: *John Wilfred Lopez Aclan¹, Konstantin Vereshchagin¹, Alexey Mankevich¹, Deniz Sanal¹, Vladimir Vyatkin¹, Ivan Veshchunov¹, Alexander Molodyk¹, Valery Petrykin¹, Sergey Samoylenkov¹, Sergey Lee¹

Affiliation: 1. Faraday Factory Japan LLC(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-03 | Development of Low-AC Loss REBCO Spiral Conductors with multifilamentary REBCO tapes

Speaker: *Shinji Fujita¹, Shogo Muto¹, Ryusei Takahashi¹, Naonori Nakamura¹, Ryuichi Okubo¹, Yasuhiro Iijima¹, Masanori Daibo¹, Yasunori Mawatari²

Affiliation: 1. Fujikura Ltd.(Japan), 2. National Institute of Applied Industrial Science and Technology (AIST)(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-04 |Withdrawn

Location: 204, 2nd Floor

13:15-14:45 | WBP1-05 | Investigation of Boron Feedstock Effects in MgB₂ Wires Using a Mixed-Isotope Approach

Speaker: *Hiroki Hoashi¹, Yusuke Shimada¹, Yoshimitsu Hishinuma², Yasuhito Kawahara¹, Hongye Gao¹, Satoshi Hata¹

Affiliation: 1. Kyushu University(Japan), 2. National Institute for Fusion Science(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-06 | Measurement of AC losses on Filamentized REBCO tapes

Speaker: *Achille Angrisani Armenio¹, Andrea Masi¹, Gianluca de Marzi¹, Laura Piperno¹, Alessandro Rufoloni¹, Anastasiya Duchenko¹, Luigi Muzzi¹, Angelo Vannozzi¹

Affiliation: 1. Superconductivity Laboratory, Nuclear Department, ENEA(Italy)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-07 | AC Loss reduction in REBCO coil assemblies with superconducting shielding coils and magnetic flux diverters

Speaker: *Yueming Sun¹, Ben George Koshy¹, Taotao Huang², Zhenan Jiang¹

Affiliation: 1. Paihau-Robinson Research Institute, Victoria University of Wellington(New Zealand), 2. HTS-110(New Zealand)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-08 | Simulation on Transport AC Loss Reduction in Multifilamentary HTS Coated Conductors/CORC Cables

Speaker: *YUKAI QIAO¹, Yueming SUN¹, Grant Lumsden¹, Zhenan Jiang¹

Affiliation: 1. Robinson Research Institute, Victoria University of Wellington(New Zealand)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-09 | Numerical Comparison of AC Loss Characteristics in MgB₂ wires Under Transverse Standing-Wave and Uniform Rotating Magnetic Fields at 20K

Speaker: *Zhe Wang^{1,2}, Yukai Qiao¹, Yueming Sun¹, Mark Ainslie³, Grant Lumsden¹, Nick Strickland¹, Jin Fang², Zhenan Jiang¹

Affiliation: 1. Victoria Univ. of Wellington(New Zealand), 2. Beijing Jiaotong Univ.(China), 3. King's College London(UK)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-10 | Experimental and Numerical Study of Magnetisation Loss in Bi-2212 Wires at 65 K and 77 K

Speaker: *Ben George Koshy¹, Nicholas Strickland¹, Grant Lumsden¹, Shengnan Zhang², Qingbin Hao², Xueqian Liu², Zhenan Jiang¹

Affiliation: 1. Robinson Research Institute, Victoria University of Wellington(New Zealand), 2. 2 Northwest Institute for Nonferrous Metal Research(China)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-11 | Investigation of screening and coupling currents in non-twisted non-transposed HTS REBCO conductors for high-field applications

Speaker: *Yessimzhan Raiymbekov¹, Xiaodong Li^{2,3}, Nagato Yanagi^{1,2}, Shun Miura^{1,2}, Yoshiro Narushima^{1,2}

Affiliation: 1. SOKENDAI (The Graduate University for Advanced Studies)(Japan), 2. National Institute for Fusion Science(Japan), 3. Technische Universität München(Germany)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-12 | Study on the Stable AC Current Limit of Stacked REBCO Conductors

Speaker: *Akifumi Kawagoe¹, Tetsuya Tanoue¹, Genki Fujisaki¹, Haruto Nagayama¹

Affiliation: 1. Kagoshima University (Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-13 | Contact Resistance Characteristics of Differently Processed REBCO Coated Conductors Using a Mechanically Controlled Soldered Joint Method

Speaker: *Michael Bihasa De Leon¹, Richard Pascua¹, Hyung-Seop Shin¹

Affiliation: 1. Department of Mechanical Design Engineering, Gyeongbuk National University(Korea)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-14 | Effect of Current Transfer Between Superconducting and Normal-Conducting Layers on the Current-Voltage Characteristics of Superconducting Tape Conductors

Speaker: *Fuki Sakugawa¹, Ken Arita¹, Futo Inada¹, Soji Edmund Otabe¹, Yasunori Mawatari²

Affiliation: 1. Kyushu Institute of Technology(Japan), 2. National Institute of Advanced Industrial Science and Technology(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-15 | Automatic Process for Manufacturing of PbSn-Soldered HTS Lap Joints: Critical Current Retention, Joint Resistance, Dimensional Consistency, and Repeatability

Speaker: *William Stefanus Wirawan¹, John Thomas East¹, Calvin Manzo Guerrero¹, Sergey Samoilenov¹

Affiliation: 1. Faraday Factory Japan LLC(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-16 | Joint resistance and current distribution of novel REBCO wire joints for spirally assembled conductors

Speaker: *Taisei Suzuki¹, Kotarou Okamoto¹, Masayoshi Ohya¹

Affiliation: 1. Kwansei Gakuin University, School of Engineering(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP1-17 | Evaluation of Pulsed Field Magnetization Characteristics Using the Advanced FAVS Method

Speaker: *Kaoru Ishibashi¹, Tetsuo Oka², Kazuya Yokoyama¹

Affiliation: 1. Ashikaga University(Japan), 2. Shibaura Institute of Technology(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-18 | Effect of Holmium Oxide Addition on Superconducting Properties and Flux Pinning of MgB₂

Speaker: *Padma Saini¹, Muralidhar Miryala¹

Affiliation: 1. Materials for Energy and Environmental Laboratory, Graduate School of Engineering and Science, Shibaura Institute of Technology, 307 Sentanken, Fukasaku, Minuma-Ku, Saitama 337-8570, Japan(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-19 | Evaluation of the Magnetization Process During Pulsed Field Magnetization of a REBCO Bulk Magnet

Speaker: *Kazuya Yokoyama¹, Kaoru Ishibashi¹, Tetsuo Oka²

Affiliation: 1. Ashikaga University(Japan), 2. Shibaura Institute of Technology(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-20 | Fabrication of A3C60 superconducting bulk and their critical current density

Speaker: *Hiroki Hasegawa¹, Akira Iyo², Shigeyuki Ishida², Hiroshi Eisaki², Hiraku Ogino², Kenji Kawashima^{2,3}, Mariko Murayama¹, Taichiro Nishio^{1,2}

Affiliation: 1. Tokyo University of Science(Japan), 2. AIST(Japan), 3. IMRA Japan(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-21 | Magnetically Driven Thermal Oscillation in Bulk Superconductor-Metal Joint System

Speaker: *Poonam Rani¹

Affiliation: 1. Tokyo Metropolitan University(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-22 | Deep-Learning-Based Single-Filament Detection for Anomaly Identification in MgB₂ Multifilamentary Wires

Speaker: *Kotomi Ogi¹, Daito Fukui¹, Kosuke Ando¹, Yusuke Shimada², Motomune Kodama³, Hideki Tanaka³, Akiyasu Yamamoto¹

Affiliation: 1. Tokyo University of Agriculture and Technology(Japan), 2. Kyushu University(Japan), 3. Hitachi, Ltd.(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-23 | Search for new 122-type superconductors with FeSi layer

Speaker: *Nodoka Shimizu¹, Mao Sato¹, Yoshimitsu Hishinuma², Akiyasu Yamamoto¹

Affiliation: 1. Tokyo University of Agriculture and Technology(Japan), 2. National Institute for Fusion Science(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-24 | Influence of growth parameters on the crystallinity and superconducting properties of HoBa₂Cu₃O_y thin films fabricated by the VLS growth mode

Speaker: *Kazuya Ogasawara¹, Ryunosuke Oketani¹, Keiya Nishigaki¹, Shuhei Funaki¹, Yoshiyuki Seike¹, Tatsuo Mori¹, Ataru Ichinose², Yusuke Ichino¹

Affiliation: 1. Aichi Inst. of Technol.(Japan), 2. Central Research Inst. of Electric Power Industry(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-25 | Explolation for Conditions to Suppress La/Ba Substitution in LaBa₂Cu₃O_y Thin Films Prepared by Pulsed Laser Deposition

Speaker: *Takumi Takamura¹, Sousuke Suzuki¹, Shuichi Togao¹, Shuhei Funaki¹, Yoshiyuki

Seike1, Tatsuo Mori1, Yusuke Ichino1,5, Keiichi Horio2,5, Ataru Ichinose3,5, Tomoya Horide4,5, Kaname Matsumoto4,5, Yutaka Yoshida4,5

Affiliation: 1. Aichi Institute of Technology(Japan), 2. Kyushu Inst. of Technol(Japan), 3. Cent. Res. Inst. of Elect. Power Ind.(Japan), 4. Nagoya Univ(Japan), 5. JST CREST(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-26 | The superconducting properties of TFA-MOD (Y_{0.77}Gd_{0.23})Ba₂Cu₃O_y films with various carrier concentrations

Speaker: *Ryuga Matsuhira1, Tatsuki Sato1, Takumi Hirose1, Kosei Nakajima, Ryona Fujimoto, Yuki Ogimoto1, Masashi Miura1,2

Affiliation: 1. Seikei University(Japan), 2. JST-FOREST(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-27 | Effects of Multi-Step Post-Deposition Annealing on the Superconducting Properties of Bi-2223 Films Fabricated by Aerosol Deposition

Speaker: *Marina Mercedes Mendoza1, Haruto Okiura1, Shinzo Yoshikado1, Kenji Sakai1, Yuuki Sato1

Affiliation: 1. Doshisha University(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-28 | Effect of Prolonged Interim Heat Treatment on BaZrO₃ - Doped (Y,Gd)Ba₂Cu₃O_y Coated Conductors Fabricated by TFA-MOD Method via Multi-Coating technique

Speaker: *Ryuji Yoshida1,2, Koichi Nakaoka2, Takeharu Kato1, Teruo Izumi2, Masashi Miura2,3

Affiliation: 1. Japan Fine Ceramics Center(Japan), 2. Seikei Univ.(Japan), 3. JST-FOREST(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-29 | Optimization of Co-doped RE₂14 and BMO artificial pins for improved flux pinning properties into FF-MOD Gd₁₂₃ thin films

Speaker: *Yuzuya Horiuchi1, Seiya Tarumizu1, Ryota Ishii1,2, Toshinori Ozaki3, Osuke Miura1

Affiliation: 1. Tokyo Metropolitan University(Japan), 2. Seikei University(Japan), 3. Kwansei Gakuin University(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP1-30 | Functionalized Nanodiamond Introduction in YBCO: effect on film properties

Speaker: *VALENTINA PINTO1, Michela Salamone2, Rocco Carcione3, Alessia Cemmi3, Andrea Masi1, Angelo Vannozzi1, Achille Angrisani Armenio1, Alessandro Rufoloni1, Anastasiya Dushenko1, Giuseppe Celentano1, Valentina Rossi2,1, Vanessa Colasanti4,1, Cristian Vendittozzi4, Silvia Orlanducci2

Affiliation: 1. ENEA, Superconductivity Laboratory, Nuclear Department(Italy), 2. Tor Vergata University, Department of Chemical Sciences and Technologies(Italy), 3. ENEA,



Gamma Irradiation Facility Laboratory, Nuclear Department(Italy), 4. Sapienza University of Rome, Department of Chemical, Materials and Environmental Engineering, DICMA(Italy)
Location: 2F Foyer South

13:15-14:45 | WBP1-31 | Field-Dependent Superconducting Transport and Vortex-Pinning Properties of Low-Temperature-Annealed MgB₂ Thin Films

Speaker: *Amrita Singh¹, Doyel Rakshit¹, Gurharinder Singh, Rajendra Singh¹, Krishna Balasubramanian¹

Affiliation: 1. IIT Delhi(India)

Location: 2F Foyer South

2 December 2026

AP Category

Fusion Magnets

09:30-09:45 | AP4-07 | Preliminary Designs of SCSC Sub-Cables for CS Conductors in Tokamaks

Speaker: * Naoyuki Amemiya¹

Affiliation: 1. Kyoto University(Japan)

Location: 201, 2nd Floor

09:45-10:15 | AP4-01-INV | Transforming the Fusion Energy Roadmap with High Temperature Superconductors

Speaker: *Erica Salazar¹, Ashleigh Francis¹, Robert Davis¹, Charlie Sanabria¹, Cody Dennett¹

Affiliation: 1. Commonwealth Fusion Systems(USA)

Location: 201, 2nd Floor

10:15-10:45 | AP4-02-INV | Construction Status of the DTT Magnets

Speaker: *Simonetta Turtu¹

Affiliation: 1. ENEA(Italy)

Location: 201, 2nd Floor

10:45-11:15 | AP4-03-INV | SULTAN and EDIPO Test Facilities: Overview and HTS Sample Testing

Speaker: *Kamil Sedlak¹, Pierluigi Bruzzone, Marek Buran¹, Nikolay Bykovskiy¹, Jack Greenwood¹, Thomas Nes¹, Georg Siroky¹, Xabier Sarasola¹

Affiliation: 1. EPFL-SPC(Switzerland)

Location: 201, 2nd Floor

11:15-11:30 | AP4-04 | A Numerical Analysis of Field Leakage and Homogeneity in an HTS Levitated Dipole Magnet

Speaker: *Emily-Kei Brewerton¹, Sriharsha Venuturumilli¹, Joshua Ellingham¹, Nancy Zhou¹, Joseph Jones¹, Joe Todd¹, Adam Francis¹, Zvonko Lazić¹, Theodore Wordsworth¹, Rodney Badcock¹, Darren Garnier¹, Ratu Mataira¹

Affiliation: 1. OpenStar Technologies Ltd(New Zealand)

Location: 201, 2nd Floor

11:30-11:45 | AP4-05 | Performance Evaluation of Solder-Impregnated HTS Coils with Integrated Metallic FBG for Cryogenic Thermal and Electrical Stability

Speaker: *Xiyong Huang Huang¹, Sriharsha Venuturumilli², Raymond Hu², Rod Badcock^{1,2,3}, Yukai Qiao¹, Cameron Shellard¹, Ben Parkinson¹, Nick Long¹, Nick Strickland¹

Affiliation: 1. Robinson Research Institute, Victoria University of Wellington(New Zealand),

2. OpenStar Technologies(New Zealand), 3. Dodd-Walls Centre for Photonic and Quantum

Technologies(New Zealand)

Location: 201, 2nd Floor

11:45-12:00 | AP4-06 | Electro-thermal-mechanical stabilization of HTS STARS conductors for high-field stellarators

Speaker: *Xiaodong Li^{1,2}, Nagato YANAGI¹, Raiymbekov Yessimzhan¹

Affiliation: 1. National Institute of Fusion Science(Japan), 2. Technical University of Munich(Germany)

Location: 201, 2nd Floor

K-Program: Advanced Superconducting Technologies

15:00-15:30 | AP5-01-INV | Superconducting Technologies Enabling Applications to Diverse Devices and Systems: An Overview of the R&D Project

Speaker: *Toshiya Doi¹

Affiliation: 1. Kyoto University(Japan)

Location: Main Hall, 3rd Floor

15:30-16:00 | AP5-02-INV | HTS-Core Project: Toward Unlocking the Full Potential of HTS Wires

Speaker: *Hiroyuki Ohsaki¹, Akihiro Kikuchi¹, Gen Nishijima¹, Junichi Shimoyama², Tomoyuki Naito³, Takanobu Kiss⁴, Kohei Higashikawa⁴, Yutaka Terao⁵, Yusuke Sogabe⁵, Masayoshi Ohya⁶, Hiroshi Ueda⁷, Seokbeom Kim⁷, Tsuyoshi Yagai⁸, Yuji Tsuchiya⁹, Satoshi Awaji⁹, Michinaka Sugano¹⁰, Yoshinori Yanagisawa¹¹

Affiliation: 1. National Institute for Materials Science(Japan), 2. Aoyama Gakuin University(Japan), 3. Iwate University(Japan), 4. Kyushu University(Japan), 5. Kyoto University(Japan), 6. Kwansei Gakuin University(Japan), 7. Okayama University(Japan), 8. Sophia University(Japan), 9. Tohoku University(Japan), 10. KEK(Japan), 11. RIKEN(Japan)

Location: Main Hall, 3rd Floor

16:00-16:30 | AP5-03-INV | Development of Enabling Technologies for Cost-Effective Realization of Three-Dimensional Superconducting Magnets- K-Program Overall Plan

Speaker: *Naoki Hirano¹, Toshiyuki Mito¹, Yoshimitsu Hishinuma¹, Shinji Hamaguchi¹, Shun Miura¹, Yuta Onodera¹, Akihiko Kikuchi², Yayuo Iijima², Tsuyoshi Tamegai², Shuuichi Ooi², Minoru Tachiki², Tatsushi Nakamoto³, Xudong Wang³, Michinaka Sugano³, Kento Suzuki³, SeokBeom Kim⁴, Akifumi Kawagoe⁵, Naoki Takata⁶

Affiliation: 1. National Institute for Fusion Science(Japan), 2. National Institute for Materials Science(Japan), 3. High Energy Accelerator Research Organization(Japan), 4. Okayama University(Japan), 5. Kagoshima University(Japan), 6. Nagoya University(Japan)

Location: Main Hall, 3rd Floor

16:30-17:00 | AP5-04-INV | Research and Development Concept for High-Current-Density Magnets and Dynamic-Excitation Magnets Using Insulated Assembled Conductors

Speaker: *Shohei Takami¹, Shigeki Takayama¹, Taizo Tosaka¹, Toru Kuriyama¹, Satoshi

Fukui², Naoyuki Amemiya³

Affiliation: 1. Toshiba Corporation(Japan), 2. Niigata Univ.(Japan), 3. Kyoto Univ.(Japan)

Location: Main Hall, 3rd Floor

AP8(2)

12:00-12:15 | AP8-07 | Electrical Characterization of Coils Wound with SCSC Cables in Temperature Range Below 77.3 K

Speaker: *Yusuke Sogabe¹, Kazuki Yasutake¹, Takehiro Sugimoto¹, Shota Sonobe¹, Hiiragi Uegaki¹, Naoyuki Amemiya¹

Affiliation: 1. Kyoto University(Japan)

Location: 201, 2nd Floor

PO Category

APP2

13:15-14:45 | APP2-01 | Screening Current-Induced Field Analysis for Plasma Confinement and Heating in HTS Electron Cyclotron Resonance Ion Source

Speaker: *Tsun Him Chong¹

Affiliation: 1. RIKEN(Japan)

Location: 3F Foyer East

13:15-14:45 | APP2-02 | CONCEPTUAL AND PRELIMINARY ENGINEERING DESIGN OF A 16 T ALL-HTS CABLE-IN-CONDUIT CONDUCTOR TEST MAGNET AT CFEC

Speaker: *Zijia Zhao¹, Xiaoqiang Lai¹, Jiabin Zuo¹, Xiaoming Li¹, Chundong Wan¹, Ji Wan¹, Xianrui Lv¹, Zhan'ao Chen¹, Xinbo Hu¹

Affiliation: 1. China Fusion Energy Company(China)

Location: 3F Foyer East

13:15-14:45 | APP2-03 | High Field HTS Cable Electromagnet Development for Levitated Dipole Fusion Reactors

Speaker: *Kalen Richardson¹, Theo Wordsworth¹, Tom Simpson¹, Emily-Kei Brewerton¹, Josh Ellingham¹, Adam Francis¹, Jerome Guterl¹, Robert Jakobsson¹, Matthew Seabright¹, Nancy Zhou¹, Rod Badcock¹, Darren Garnier¹, Ratu Mataira¹

Affiliation: 1. OpenStar Technologies(New Zealand)

Location: 3F Foyer East

13:15-14:45 | APP2-04 | Demountable joint testing for high-current HTS cables towards fusion magnets: Stack edge joint

Speaker: *Diego Armando Garfias Davalos¹, Sonja Schlachter¹, Rainer Gehring¹, Mathias Noe¹, Tommaso Bagni², Albrecht Herrmann², Neil Mitchell²

Affiliation: 1. Karlsruhe Institute of Technology(Germany), 2. Gauss Fusion GmbH(Germany)

Location: 3F Foyer East

13:15-14:45 | APP2-05 | Investigation of Surface Characteristics and Joint Performance of REBCO Tapes Treated by Atmospheric-Pressure Plasma for Faro Shuffle Joints

Speaker: *Yuta Onodera¹, Yoshiro Narushima^{1,2}, Tomosumi Baba¹, Shinji Hamaguchi^{1,2}, Nagato Yanagi^{1,2}, Hirotaka Chikaraishi^{1,2}, Junichi Miyazawa³, Hiroki Chikuma³, Hitoshi Tamura³, Takuya Goto³

Affiliation: 1. National Institute for Fusion Science(Japan), 2. SOKENDAI(Japan), 3. Helical Fusion Co., Ltd.(Japan)

Location: 3F Foyer East

13:15-14:45 | APP2-06 | Three-Dimensional Electromagnetic Analysis of Current Distribution and Joule Loss in a HTS Twisted Stacked-Tape Cable under Pulsed Excitation

Speaker: *Shun Endo¹, Takanobu Mato¹, Ryota Inoue², So Noguchi¹

Affiliation: 1. Hokkaido Univ.(Japan), 2. Okayama Univ.(Japan)

Location: 3F Foyer East

13:15-14:45 | APP2-07 | E-I Characteristic of damaged REBCO tapes at high load factor

Speaker: *Shinsaku Imagawa¹, Masayoshi Ohya², Hamaguchi Shinji¹, Shirai Yasuyuki³, Iwamoto Akifumi⁴, Kobayashi Hiroaki⁵

Affiliation: 1. National Institute for Fusion Science(Japan), 2. kwansei Gakuin University(Japan), 3. Kyoto University,(Japan), 4. The University of Osaka(Japan), 5. Japan Aerospace Exploration Agency(Japan)

Location: 3F Foyer East

13:15-14:45 | APP2-08 | Quantitative Investigation of Non-uniform Voltage Characteristics in D-Shaped High-Temperature Superconducting No-Insulation Coils

Speaker: *Xueliang Wang¹, Jie Sheng², Xinbo Hu¹, Zhijian Jin²

Affiliation: 1. China Fusion Energy Co.,Ltd(China), 2. Shanghai Jiao Tong University(China)

Location: 3F Foyer East

13:15-14:45 | APP2-09 | PROGRESS OF HTS MAGNET RESEARCH AT CFEC

Speaker: *Zijia Zhao¹, Xiaoqiang Lai¹, Jiaxin Zuo¹, Chundong Wang¹, Xueliang Wang¹, Xinbo Hu¹

Affiliation: 1. China Fusion Energy Company(China)

Location: 3F Foyer East

13:15-14:45 | APP2-10 | Parallelisation of $J_c(B)$ Flux Pumps: Phase, Loading, and Quench Behaviour Progress Towards a 7.7 kA Flux Pump Architecture

Speaker: *Samuel Schimanski¹, Kent Hamilton¹, Bradley Leuw¹, Mohammad Siamaki¹, Reuben Wilson^{1,2}

Affiliation: 1. OpenStar Technologies(New Zealand), 2. Robinson Research Institute(New Zealand)

Location: 3F Foyer East

13:15-14:45 | APP2-11 | Stress Evolution and Control in Circular REBCO Coils During Winding and Cool-Down

Speaker: *Wei Ren¹

Affiliation: 1. Karlsruhe Institute of Technology(Germany)

Location: 3F Foyer East

13:15-14:45 | APP2-12 | Coil-to-Coil Connections Suitable for Reducing Thermal Stress during Cooling of Stacked REBCO Pancake Coils

Speaker: *Yoh Nagasaki¹, Taiga Aoto¹, Koya Itahashi¹, Satsuki Okumura¹, Makoto Tsuda¹

Affiliation: 1. Tohoku University(Japan)

Location: 3F Foyer East

13:15-14:45 | APP2-13 | Self-protecting behaviors of an intra-layer no-insulation (LNI) REBCO coil with resistance-controlled interfaces under liquid helium cooling

Speaker: *Yuya Tanaka^{1,2}, Syouon Imanishi^{1,2}, Kanna Yamada^{1,2}, Tomoaki Takao¹, Kazuya Nakamura¹, Prashant Kumar², Naohiro Kobayashi², Renzhong Piao², Kensuke Kobayashi², Toshio Yamazaki², Yoshinori Yanagisawa²

Affiliation: 1. Sophia University(Japan), 2. RIKEN(Japan)

Location: 3F Foyer East

13:15-14:45 | APP2-14 | Bypass Current-Based Quench Detection for Superconducting Applications

Speaker: *YingZhe Li¹, Xiao-Fen Li¹

Affiliation: 1. Shanghai Jiao Tong University(China)

Location: 3F Foyer East

13:15-14:45 | APP2-15 | Physics-Assisted Machine Learning for Magneto-Optical Response Estimation toward Non-Contact Magnetic-Field Measurement of Superconducting Devices

Speaker: *Haruna Takaki¹, Ryota Kinjo¹, Eiji Uchibe¹

Affiliation: 1. Osaka Institute of Technology(Japan)

Location: 3F Foyer East

13:15-14:45 | APP2-16 | Characteristics of trapped magnetic field at the top and bottom by pulsed-field magnetization of melt-textured GdBCO bulk

Speaker: *Tetsuya Ida¹, Saori Yokohari¹, Mitsuru Izumi¹

Affiliation: 1. Tokyo University of Marine Science and Technology(Japan)

Location: 3F Foyer East

13:15-14:45 | APP2-17 | Parameter Dependence of Electromagnetic Loss in Superconducting Magnetic Bearing

Speaker: *Satsuki Okumura¹, Hiroyuki Ohsaki^{2,3}, Ryosuke Akizawa³, Shinichi Onaga³, Tomotake Matsumura³, Fabio Columbro³, Giulia Barbieri Ripamonti⁴

Affiliation: 1. Tohoku University(Japan), 2. NIMS(Japan), 3. Kavli IPMU(Japan), 4. La

Sapienza(Italy)

Location: 3F Foyer East

13:15-14:45 | APP2-18 | Two-Layer Geometry and Topology Optimization of V-Shaped Permanent Magnet Guideways for High-Temperature Superconducting Maglev

Speaker: *Jie Zheng¹, Zigang Deng¹, Gino D'Ovidio²

Affiliation: 1. State Key Laboratory of Rail Transit Vehicle System, Southwest jiaotong university(China), 2. Department of Civil, Construction-Architectural and Environmental Engineering, University of L'Aquila(Italy)

Location: 3F Foyer East

13:15-14:45 | APP2-19 | Genetic Algorithm-Based Progressive Optimization of Levitation Force Performance of HTS Maglev Electromagnetic Turnouts

Speaker: *Guobin Zhang¹, Can Peng², Bin He¹, Zigang Deng¹

Affiliation: 1. State Key Laboratory of Rail Transit Vehicle System, Southwest Jiaotong University(China), 2. College of Advanced Interdisciplinary Studies, National University of Defense Technology(China)

Location: 3F Foyer East

13:15-14:45 | APP2-20 | The cryogenic polarization modulator for LiteBIRD space mission: engineering challenges and technology development

Speaker: *Fabio Columbro¹, Ryosuke Akizawa², Giulia Barbieri Ripamonti^{3,4}, Paolo de Bernardis^{3,4}, Mitsuharu Kusama⁵, Asuka Maeda¹, Silvia Masi^{3,4}, Tomotake Matsumura¹, Jun Nakagawa¹, Hiroyuki Ohsaki^{1,6}, Satsuki Okumura⁷

Affiliation: 1. Kavli IPMU, Kashiwa(Japan), 2. The University of Tokyo, Kashiwa(Japan), 3. Sapienza University of Rome, Rome(Italy), 4. INFN Roma 1, Rome(Italy), 5. AES, Tsukuba(Japan), 6. NIMS, Tsukuba(Japan), 7. Tohoku University, Sendai(Japan)

Location: 3F Foyer East

Digital, Novel devices, Materials and Fabricaion, System applications

13:15-14:45 | EDP2-01 | A Design Method for Area-Efficient Generation of Multiple Constant Stochastic Numbers Using an SFQ Stochastic-Number Splitter

Speaker: *Yuto Wakiya¹

Affiliation: 1. Chukyo University(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP2-02 | Comparison of Logic-Threshold Offsets in Adiabatic Quantum Flux Parametron Circuits Fabricated Using Josephson Processes with Different Critical Current Densities

Speaker: *Yutaro Kashiwagi¹, Yuki Yamanashi¹, Nobuyuki Yoshikawa¹

Affiliation: 1. Yokohama National Univ.(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP2-03 | Design of Stochastic Integer Multiplication Circuits Using Output Probability Synchronization

Speaker: *Ryota Fukuzaki¹, Kaito Asaka¹, Nobuyuki Yoshikawa^{1,2,3}, Yuki Yamanashi^{1,2,3}
 Affiliation: 1. Yokohama National University(Japan), 2. Yokohama National Univ. IAS(Japan),
 3. Yokohama National Univ. IMS(Japan)
 Location: 3F Foyer South

13:15-14:45 | EDP2-04 | Withdrawn

Location: 3F Foyer South

13:15-14:45 | EDP2-05 | Rectifying and Ohmic Transport Characteristics of BSCCO/Oxide Semiconductor Heterojunctions Prepared via MOD Method

Speaker: *Yasuyuki Yamada¹
 Affiliation: 1. National Institute of Technology, Oyama College(Japan)
 Location: 3F Foyer South

13:15-14:45 | EDP2-06 | Fabrication of BSCCO intrinsic Josephson junction devices using double-sided patterning process

Speaker: *Hikaru Kiuchi¹, Hisashi Shimakage¹
 Affiliation: 1. Ibaraki University (Japan)
 Location: 3F Foyer South

13:15-14:45 | EDP2-07 | Sapphire Substrate Trenching to Advance Superconducting High-Coherence Quantum Devices

Speaker: *Sabrina Garattoni¹, Mustafa Bal¹, Francesco Crisa¹, Shaojiang Zhu¹, Akshay Murthy¹, Jae Yel Lee¹, Adam Clairmont¹, Zuhawn Sung¹, Ivan Nekrashevich¹, Jasmine Panthee¹, Alexander Romanenko¹, Anna Grassellino¹
 Affiliation: 1. SQMS - Fermi National Accelerator Laboratory(USA)
 Location: 3F Foyer South

13:15-14:45 | EDP2-08 | Voltage-Gated Adiabatic Quantum-Flux-Parametron Logic Using Gate-Tunable Josephson Junctions

Speaker: *KuoZhong Zhang¹, Kaveh Delfanazari², Nobuyuki Yoshikawa¹
 Affiliation: 1. Yokohama National University(Japan), 2. University of Glasgow(UK)
 Location: 3F Foyer South

13:15-14:45 | EDP2-09 | Virtual Experiments and Optimization of NbN Thin-Film Growth Conditions Using a Machine Learning Model

Speaker: *Hirotake Yamamori^{1,2}, Daiki Matsumaru¹, Kaho Koyanagi¹, Michitaka Maruyama¹, Kazumasa Makise^{1,2}, Hirokazu Ishino³
 Affiliation: 1. National Institute of Advanced Industrial Science and Technology(Japan), 2. National Astronomical Observatory of Japan(Japan), 3. Okayama University(Japan)
 Location: 3F Foyer South

13:15-14:45 | EDP2-10 | Development of a Tear-and-Stack System for Moiré 2D Superconducting Device Fabrication

Speaker: *Yoshitaka Nakamura¹, Yuto Kawamura¹, Kasean Jiranthanin¹, Takaharu Kamada¹

Affiliation: 1. National Institute of Technology, Hachinohe College(Japan)

Location: 3F Foyer South

13:15-14:45 | EDP2-11 | Evaluation of Improved AC Waveforms Generated from FM Josephson Voltage Standard Using I/Q Modulation

Speaker: *Kaho Koyanagi¹, Wataru Kokuyama¹, Michitaka Maruyama¹, Hirotake Yamamori¹, Daiki Matsumaru¹, Nobu-Hisa Kaneko¹

Affiliation: 1. National Institute of Advanced Industrial Science and Technology(Japan)

Location: 3F Foyer South

PCP2

13:15-14:45 | PCP2-01 | Revisiting Vortex-Antivortex States in Mesoscopic Superconductors: A Numerical Study

Speaker: Futa Kato¹, Takumi Mataba¹, Masahiko Hayashi², *Akinobu Kanda¹

Affiliation: 1. Univ. Tsukuba(Japan), 2. Akita Univ.(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP2-02 | High-frequency vortex motion in artificial superconducting LCO-LSCO superlattices: two-band signatures and vortex pinning.

Speaker: *Enrico Silva^{1,2}, Andrea Alimenti^{1,2}, Antonio Bianconi^{3,4}, Gaetano Campi^{3,4}, Gennady Logvenov⁵, Alessandro Magalotti^{1,2}, Nicola Pompeo^{1,2}, Kostiantyn Torokhtii¹

Affiliation: 1. University Roma Tre(Italy), 2. INFN-Roma Tre Section(Italy), 3. Institute of Crystallography, CNR(Italy), 4. RICMASS(Italy), 5. Max Planck Institute for Solid State Research(Italy)

Location: 3F Foyer South

13:15-14:45 | PCP2-03 | Position dependence of MRF inclination in LDT-MRF

Speaker: *Muhammad Afiq AHMED¹, K.G.P.P Kahagalla¹, Shintaro Adachi¹, Fumiko Kimura¹, Noriyuki Hirota², Tohru Suzuki², Tetsuo Uchikoshi², Shigeru Horii¹

Affiliation: 1. Kyoto Univ. Adv. Sci.(Japan), 2. NIMS(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP2-04 | Measurement and Calculation of Surface Resistance of High-Temperature, Superconducting Thin Films under Magnetic Fields

Speaker: *HIROTAKA ISHITANI¹, Ryuga Kunii¹, Koutarou Banno¹, Atsushi Saito¹

Affiliation: 1. Graduate school of science and Engineering, Yamagata University(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP2-05 | Temperature-Dependent Dielectric Response and Heat Transfer Suppression in High-Temperature Superconductors

Speaker: *Bixi Li^{1,2}, Zichun Huang^{1,2}, Linjie Zhang^{1,2}, Fuzhi Shen¹, Hengcheng Zhang¹, Hao Zhang¹

Affiliation: 1. Technical Institute of Physics and Chemistry, Chinese Academy of Sciences(China), 2. University of Chinese Academy of Sciences(China)

Location: 3F Foyer South

13:15-14:45 | PCP2-06 | Realization of Freestanding Iron Based Superconducting Films Using Sacrificial Layers

Speaker: *Zhuoyue Jia^{1,2}, Jonas Wawra^{1,2}, Nicolas Perez¹, Kornelius Nielsch^{1,2}, Ruben Huhne¹

Affiliation: 1. IFW Dresden(Germany), 2. TU Dresden(Germany)

Location: 3F Foyer South

13:15-14:45 | PCP2-07 | Effects of Samarium and Other Rare-Earth Substitutions on Pressure-Induced Superconductivity in Ruddlesden-Popper-Type Bilayer $\text{La}_3\text{Ni}_2\text{O}_y$

Speaker: *Shintaro Adachi¹, Ryo Matsumoto², Shigeru Horii¹, Yoshihiko Takano²

Affiliation: 1. Kyoto University of Advanced Science (KUAS)(Japan), 2. National Institute for Materials Science (NIMS)(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP2-08 | First-Principles Study of the Electronic Structure and Structural Stability of La_2C_3 at Ambient and High Pressures

Speaker: *Kenji Kawashima¹, Masaaki Yoshikawa¹, Terunari Koshinuma¹, Ryo Matsumoto², Yoshihiko Takano²

Affiliation: 1. IMRA JAPAN Co., Ltd(Japan), 2. National Institute for Materials Science (NIMS)(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP2-09 | Searching for superconductivity in bilayer kagome metal YNb_6Sn_6

Speaker: *Chun Wai Tsang¹, Hao Zheng¹, Swee Kuan Goh¹

Affiliation: 1. The Chinese University of Hong Kong(Hong Kong)

Location: 3F Foyer South

13:15-14:45 | PCP2-10 | Anisotropy of the Upper Critical Field in the Ta-Substituted Kagome Superconductor $\text{Cs}(\text{V}_{1-x}\text{Ta}_x)_3\text{Sb}_5$ with Completely Suppressed Charge Density Wave

Speaker: *Moye Chen¹, Kenta Maekawa, Atsutoshi Ikeda¹, Yongkai Li², Yugui Yao², Zhiwei Wang², Shingo Yonezawa¹

Affiliation: 1. Kyoto University(Japan), 2. Beijing Institute of Technology(China)

Location: 3F Foyer South

13:15-14:45 | PCP2-11 | Impurity-Induced Collapse of Internally Protected Pair-Density-Wave Superconductivity

Speaker: *Yoichi Higashi¹, Ryoga Miwa², Izumi Hase¹

Affiliation: 1. National Institute of Advanced Industrial Science and Technology (AIST)(Japan), 2. Osaka University(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP2-12 | Anisotropic supercurrent flow in Corbino disk consisting of Nb and $[\text{Nb}/\text{V}/\text{Ta}]_n$ superconductors

Speaker: *Makoto Igarashi¹, Utane Nagata¹, Chen Moyer¹, Susumu Hirata², Ryo Ohshima^{1,3}, Teruo Ono^{2,3}, Shingo Yonezawa¹, Masashi Shiraishi^{1,3}

Affiliation: 1. Dept. of Eng., Kyoto Univ.(Japan), 2. ICR, Kyoto Univ.(Japan), 3. CSRN, Kyoto Univ.(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP2-13 | Theory on the spatial dependence of the linear absorption spectrum in Josephson junctions

Speaker: *Takanobu Jujo¹

Affiliation: 1. Division of Materials Science, Graduate School of Science and Technology, Nara Institute of Science and Technology(Japan)

Location: 3F Foyer South

13:15-14:45 | PCP2-14 | Performance evaluation of jointless thermal diode fabricated using Pb superconducting wire

Speaker: *Masayuki Mashiko¹, Poonam Rani¹, Yuto Watanebe¹, Yoshikazu Mizuguchi¹, Daisuke Takegami¹

Affiliation: 1. Tokyo Metropolitan Univ.(Japan)

Location: 3F Foyer South

ED Category

Metrology, Novel devices, Materials and Fabrication

09:45-10:15 | ED4-01-INV | Metrological applications of Josephson-based quantum voltage standards

Speaker: *Ralf Behr¹, Stephan Bauer¹, Rinis Ferizaj¹, Timo Glebe-Märklin¹, Oliver Kieler¹, Luis Palafox¹

Affiliation: 1. Physikalisch-Technische Bundesanstalt (PTB)(Germany)

Location: 203, 2nd Floor

10:15-10:45 | ED4-02-INV | Superconducting diode effect and supercurrent-induced phase transition

Speaker: *Teruo Ono¹

Affiliation: 1. Kyoto University(Japan)

Location: 203, 2nd Floor

10:45-11:00 | ED4-03 | Coherent Phonon Blocking in Superlattices

Speaker: *Joshua Shipman¹, Anil Erol¹, Xiang Hua¹, Kirby Myers¹, Lawrence Friedman¹, Alexander Marakov¹, Melissa Loving¹, Arsha Mamoozadeh¹, Sarah Millen¹, Ronald Warzoha¹, Jeremy Clarke¹, Robert Young¹

Affiliation: 1. Northrop Grumman(USA)

Location: 203, 2nd Floor

11:00-11:00 | ED4-04 | Withdrawn

Location: 203, 2nd Floor

11:00-11:15 | ED4-05 | Investigating the influence of surface termination on the electronic properties of Josephson junctions: Linking DFT predictions to realized Nb/Gd(N)/Nb devices.

Speaker: *William Freeman Holmes-Hewett¹, Feng Li², Jackson M Miller¹, Atif Islam¹, Simon Granville¹, Martin Markwitz¹, Masamitsu Tanaka², Akira Fujimaki², Ben J Ruck¹
 Affiliation: 1. Victoria University of Wellington(New Zealand), 2. Nagoya University(Japan)
 Location: 203, 2nd Floor

11:15-11:30 | ED4-06 | Investigation of PdNi Ferromagnetic Alloy Thin Films as Resistive Layer for Millikelvin Superconducting Digital Circuits

Speaker: *Feng Li¹, Ryo Ogura¹, Kenshin Inagaki¹, Akira Fujimaki¹, Masamitsu Tanaka¹
 Affiliation: 1. Nagoya University(Japan)
 Location: 203, 2nd Floor

11:30-11:45 | ED4-07 | Analysis of Josephson Transport in Helium-Ion-Irradiated YBa₂Cu₃O_{7-δ} Weak Links

Speaker: *Tetsuro Misawa¹, Shigeyuki Ishida¹, Hiroshi Eisaki¹, Yukinori Morita¹, Shinichi Ogawa¹, Chiharu Urano¹
 Affiliation: 1. National Institute of Advanced Industrial Science and Technology(Japan)
 Location: 203, 2nd Floor

Detector(2)

11:45-12:00 | ED6-06 | Cosmic ray TES detectors as anticoincidence for CMB, X-ray or rare particle physics events

Speaker: *Lorenzo Ferrari Barusso^{1,2}, Flavio Gatti^{3,2}, Edvige Celasco^{3,2}, Kifayat Ullah Khan Niazi³, Manuela Rigano³, Farwa Shaukhat^{3,2}, Claudio Macculi⁴, Matteo D'Andrea⁴, Giacomo Gorla⁴, Federico Bianco⁵, Matteo De Gerone²
 Affiliation: 1. INAF Brera(Italy), 2. INFN Genova(Italy), 3. Genova Univ.(Italy), 4. INAF IAPS(Italy), 5. Roma La Sapienza Univ.(Italy)
 Location: 203, 2nd Floor

Digital II

15:15-15:45 | ED5-01-INV | Superconducting Digital Electronics for Control and Readout of Quantum Processors

Speaker: *Ali Bozbey¹
 Affiliation: 1. TOBB University of Economics and Technology(Turkey)
 Location: 203, 2nd Floor

15:45-16:15 | ED5-02-INV | Superconducting Computer Architecture: From Classical to Quantum

Speaker: *Ilkwon Byun¹
 Affiliation: 1. Kyushu University(Japan)
 Location: 203, 2nd Floor

16:15-16:30 | ED5-03 | Design of a Binarized Neural Network Using Rapid Single-Flux-Quantum and Adiabatic Quantum-Flux-Parametron Logic Families

Speaker: *Yudai Nakai¹, Wenhui Luo², Nobuyuki Yoshikawa^{1,2}, Naoki Takeuchi³

Affiliation: 1. Yokohama National Univ.(Japan), 2. Institute of Advanced Sciences(Japan), 3. Tohoku Univ.(Japan)

Location: 203, 2nd Floor

16:30-16:45 | ED5-04 | Design and Evaluation of a Superconducting Stochastic Number Generator Without Individual Operating-Point Adjustment

Speaker: *Ken Narita¹, Ryota Fukuzaki¹, Nobuyuki Yoshikawa¹, Yuki Yamanashi¹

Affiliation: 1. Yokohama National University(Japan)

Location: 203, 2nd Floor

16:45-17:00 | ED5-05 | Programmable Reset Potential in a Superconducting Spiking Neuron with Flux-Quantized State Representation

Speaker: *Zeyu Han¹, Nobuyuki Yoshikawa^{1,2,3}, Yuki Yamanashi^{1,2,3}

Affiliation: 1. Institute for Multidisciplinary Sciences, Yokohama National University(Japan), 2. Institute of Advanced Sciences, Yokohama National University(Japan), 3. Department of Electrical and Computer Engineering, Yokohama National University(Japan)

Location: 203, 2nd Floor

PC Category

Novel phenomena

16:45-17:00 | PC3-02 | Emergence of thermally activated phase-slip behavior in a three-dimensional superconducting Nb wire

Speaker: *Syuma Yasuzuka¹, Keigo Takata¹, Mikoto In¹, Kazuya Endo¹, Noriyuki Hatakenaka²

Affiliation: 1. Hiroshima Institute of Technology(Japan), 2. Hiroshima University(Japan)

Location: 202, 2nd Floor

Nickelate

09:45-10:15 | PC4-01-INV | Strain-Pressure Control of Superconductivity in Bilayer Nickelate Thin Films

Speaker: *Motoki Osada¹

Affiliation: 1. University of Tokyo(Japan)

Location: 202, 2nd Floor

10:15-10:45 | PC4-02-INV | Electronic structure of compressively strained bilayer nickelate thin film

Speaker: *BaiYang Wang^{1,2}, Sebastien N Abadi^{1,2}, Yidi Liu^{1,2}, Yu Zhang³, Yong Zhong^{1,2}, Yijun Yu^{1,2}, Berit H Goodge⁴, Xiaoliang Zhang³, Yi-Ming Wu¹, Ruohan Wang^{1,2}, Jiarui Li^{1,2}, Yaoju Tarn^{1,2}, Eun Kyo Ko^{1,2}, Vivek Thampy², Chun Lin², Makoto Hashimoto², Donghui Lu², Young S Lee^{1,2}, Thomas P Devereaux^{1,2}, Chunjing Jia³, Harold Y Hwang^{1,2}, Zhi-Xun Shen^{1,2}

Affiliation: 1. Stanford University(USA), 2. SLAC National Laboratory(USA), 3. University of Florida(USA), 4. Max Planck Institute for Chemical Physics of Solids(Germany)

Location: 202, 2nd Floor

10:45-11:15 | PC4-03-INV | High T_c Superconductivity of Nickelate Bulk

Speaker: *Li Feiyu¹

Affiliation: 1. Qingdao University of Science and Technology(China)

Location: 202, 2nd Floor

11:15-11:45 | PC4-04-INV | Oxygen Nonstoichiometry and Defects in La₃Ni₂O₇

Speaker: *Hiroya Sakurai¹

Affiliation: 1. National Institute for Materials Science(Japan)

Location: 202, 2nd Floor

11:45-12:00 | PC4-05 | Superconducting Properties of Pr doped La₃Ni₂O₇ under high pressure

Speaker: *Yoshihiko Takano^{1,2}, Ryo Matsumoto¹, Hiroya Sakurai¹

Affiliation: 1. National Institute for Materials Science (NIMS)(Japan), 2. Univ. of Tsukuba(Japan)

Location: 202, 2nd Floor

12:00-12:15 | PC4-06 | Transport properties of hybrid Ruddlesden-Popper nickelate La₅Ni₃O₁₁

Speaker: *Masamichi Nakajima¹, Zhehong Liu^{1,2}, Arata Iwama³, Chieko Terakura¹, Markus Kriener¹, Kosuke Karube¹, Shunsuke Kitou⁴, Taka-hisa Arima^{1,4}, Yasujiro Taguchi^{1,2}, Yoshinori Tokura^{1,3,5}

Affiliation: 1. RIKEN Center for Emergent Matter Science(Japan), 2. RIKEN Baton Zone Program(Japan), 3. Department of Applied Physics, The University of Tokyo(Japan), 4. Department of Advanced Materials Science, The University of Tokyo(Japan), 5. Tokyo College, The University of Tokyo(Japan)

Location: 202, 2nd Floor

Vortex 2

15:15-15:45 | PC5-01-INV | Magnetic landscape of superconducting resonators under radio-frequency excitation

Speaker: *Alejandro Vladimiro Silhanek¹, Julia Baumgarten¹, Nicolas Lejeune¹, Lukas Nulens², Ivo Cools³, Joris Van de Vondel²

Affiliation: 1. Physics Department, Université de Liège(Belgium), 2. Department of Physics and Astronomy, KU Leuven(Belgium), 3. Department of Microtechnology and Nanoscience, Chalmers University of Technology(Sweden)

Location: 202, 2nd Floor

15:45-16:15 | PC5-02-INV | Microwave analysis of ion-irradiation effects in superconductors

Speaker: *Gianluca Ghigo¹, Ivan De Carlo², Michela Fracasso¹, Matteo Fretto², Roberto

Gerbaldo¹, Laura Gozzelino¹, Cristian Pira³, Mario Scuderi⁴, Daniele Torsello¹

Affiliation: 1. Politecnico di Torino and INFN Sez. Torino(Italy), 2. INRIM Torino(Italy), 3. INFN Laboratori Nazionali di Legnaro(Italy), 4. CNR-IMM, Catania(Italy)

Location: 202, 2nd Floor

16:15-16:30 | PC5-03 | Wide-field magnetic imaging of shielding-current-driven vortex rearrangement under local heating using diamond quantum sensors

Speaker: *Ryoei Ota¹, Shunsuke Nishimura¹, Koki Honda², Takeyuki Tsuji³, Taro Yamashita², Takayuki Iwasaki⁴, Mutsuko Hatano⁴, Kento Sasaki¹, Kensuke Kobayashi¹
Affiliation: 1. The University of Tokyo(Japan), 2. Tohoku University(Japan), 3. NIMS(Japan), 4. Science Tokyo(Japan)

Location: 202, 2nd Floor

16:30-16:45 | PC5-04 | Vortex pinning of Ba_{0.62}K_{0.38}BiO₃ observed via magneto-optical Kerr effect

Speaker: Soichiro Yamane¹, Sota Nakamura¹, *Atsutoshi Ikeda¹, Dayu Zhai², Siddarth Gorregattu², Xing He², Sudarshan Sharma², Yipeng Cai³, Yasutomo J. Uemura³, Martin Greven², Shingo Yonezawa¹

Affiliation: 1. Kyoto University(Japan), 2. University of Minnesota(USA), 3. Columbia University(USA)

Location: 202, 2nd Floor

PL Category

Plenary

08:30-09:15 | PL2 | New Frontiers in Next-Generation REBCO Coated Conductors: From Machine Learning-Enabled Electromagnetic Characterization and Scalable Manufacturing to Low-Resistance Joining Technologies

Speaker: *Takanobu Kiss¹

Affiliation: 1. Kyushu University(Japan)

Location: Main Hall, 3rd Floor

17:15-18:00 | PL3 | Can Superconductivity Marry Liquid Hydrogen?- Building a 20 K Cryogenic Space and Rethinking Superconductivity for a Better Society -

Speaker: *Tsuyoshi WAKUDA¹

Affiliation: 1. Hitachi, Ltd.(Japan)

Location: Main Hall, 3rd Floor

WB Category

REBCO Industrial Manufacturing

09:45-10:15 | WB4-01-INV | Recent Progress in High Throughput Process Control in HTS 2G Wire Production at SuNAM

Speaker: *Seung Hyun . Moon¹

Affiliation: 1. SuNAM Co. Ltd.(Korea)

Location: Main Hall, 3rd Floor

10:15-10:45 | WB4-02-INV | Recent Developments in REBCO Coated Conductor Technologies at Fujikura Ltd.

Speaker: *Masaki Ohsugi¹, Shinji Fujita¹, Naonori Nakamura¹, Yutaka Adachi¹, Tetsuo Takemoto¹, Ryo Kikutake¹, Yasuhiro Iijima¹, Masanori Daibo¹

Affiliation: 1. Fujikura Ltd.(Japan)

Location: Main Hall, 3rd Floor

10:45-11:15 | WB4-03-INV | Recent Industrial and R&D Advances in REBCO Coated Conductors at Shanghai Superconductor Technology Co., Ltd

Speaker: *Jiamin ZHU¹, Sikan CHEN¹, Zhonghe GAO¹, Chao ZHANG¹, Shuiliang ZHEN¹, Xiaohui LIN¹, Pei BAI¹, Xuefeng WANG¹, Junhao ZHANG¹, Ye HUANG¹, Bai SONG¹, Yiyang TONG¹

Affiliation: 1. Shanghai Superconductor Technology Co., Ltd.(China)

Location: Main Hall, 3rd Floor

11:15-11:45 | WB4-04-INV | Manufacturing and development of REBCO HTS tape at SuperPower

Speaker: *Hisaki Sakamoto¹, Yifei Zhang¹, Gene Carota¹, Takao Hirai¹, Hirotugu Nagata¹

Affiliation: 1. SuperPower Inc.(USA)

Location: Main Hall, 3rd Floor

11:45-12:00 | WB4-05 | Recent Advances in the Optimization of MIRAI and ELECTRA HTS tapes at Faraday Factory Japan.

Speaker: *Roman Valikov¹, Anton Markelov¹, Simon Hartlaub¹, Marat Gaifullin¹, Valery Petrykin¹, Alexander Molodyk¹, Sergey Samoilnikov¹, Sergey Lee¹

Affiliation: 1. LLC Faraday Factory Japan(Japan)

Location: Main Hall, 3rd Floor

Pinning and Irradiation Effects

15:15-15:45 | WB5-01-INV | Vortex pinning and electronic structure in Transient Liquid Assisted Growth (TLAG) Coated Conductors

Speaker: *Joffre Gutierrez Royo¹, Aiswarya Kethamkuzhi¹, Ona Mola¹, Kapil Gupta², Mahel Antoine Voulhoux¹, Carla Torres¹, Emma Ghiara¹, Roxana Vlad¹, Vittorio Bertini¹, Elzbieta Pach^{1,5}, Victor Fuentes^{1,5}, Cornelia Pop¹, Susagna Ricart¹, Ramon Yanez³, Jordi Farjas⁴, Eduardo Solano⁵, Laura Simonelli⁵, Xavier Obradors¹, Teresa Puig¹

Affiliation: 1. Institut de Ciència de Materials de Barcelona, ICMA - CSIC(Spain), 2. Institut Català de Nanociència i Nanotecnologia, ICN2(Spain), 3. Departament de Química, Universitat Autònoma de Barcelona(Spain), 4. GRMT, Department of Physics, University of Girona(Spain), 5. ALBA Synchrotron(Spain)

Location: 201, 2nd Floor

15:45-16:00 | WB5-02 | Natural vortex pinning in YBCO coated conductors produced by Faraday Factory Japan

Speaker: *Marat B. Gaifullin¹, Vladimir Vyatkin¹, Ivan Veshchunov¹, Roman Valikov¹, Yuji Tsuchiya², Satoshi Awaji², Valeri Petrykin¹, Sergey Lee¹

Affiliation: 1. Faraday Factory Japan(Japan), 2. Institute for Materials Research, Tohoku University(Japan)

Location: 201, 2nd Floor

16:00-16:15 | WB5-03 | Longitudinal Magnetic-Field Hysteresis in Critical Current of REBCO Coated Conductors

Speaker: *Tatsunori Okada¹, Shinnosuke Oda¹, Daisuke Sakai¹, Toji Nakashima¹, Haruki Miyashita¹, Aoi Kira¹, Daiki Mino¹, Kyosuke Sakurai², Satoshi Awaji²

Affiliation: 1. Kyutech(Japan), 2. Tohoku Univ.(Japan)

Location: 201, 2nd Floor

16:15-16:45 | WB5-04-INV | Understanding radiation damage mechanisms in REBCO coated conductors for fusion applications

Speaker: *Kirk Adams¹, Jarrod Lewis^{1,2}, Matthew Coulson¹, James Tufnail¹, Will Iliffe³, Carlo Cazzaniga⁴, Maria Kastriotou⁴, Chris Mizzi⁵, Fred Allars², Boris Maiorov⁵, Sofia Diaz-Moreno², Chris Frost⁴, Chris Grovenor¹, Susannah Speller¹

Affiliation: 1. Department of Materials, University of Oxford, Oxford(UK), 2. Diamond Light Source, Rutherford-Appleton Laboratory, Harwell(UK), 3. United Kingdom Atomic Energy Authority, Culham(UK), 4. ISIS Neutron and Muon Source, Rutherford-Appleton Laboratory, Harwell(UK), 5. Los Alamos National Laboratory, Los Alamos, New Mexico(USA)

Location: 201, 2nd Floor

16:45-17:00 | WB5-05 | Change of pinning in REBCO coated conductors after fast neutron irradiation

Speaker: Florian semper¹, Raphael Unterrainer², Alexander Bodenseher¹, *Michael Eisterer¹

Affiliation: 1. TU Wien(Austria), 2. CERN(Switzerland)

Location: 201, 2nd Floor

WBP2

13:15-14:45 | WBP2-01 | Effects of Ablation Plume Height Control and Target-Substrate Distance on HoBCO Thin Film Fabrication by Pulsed Laser Deposition

Speaker: *Yuto Tanaka¹, Kota Adachi¹, Kohei Ieshita¹, Shuhei Funaki¹, Yoshiyuki Seike¹, Tatsuo Mori¹, Yusuke Ichino^{5,1}, Keiichi Horio^{5,2}, Ataru Ichinose^{5,3}, Tomoya Horide^{5,4}, Kaname Matsumoto^{5,4}, Yutaka Yoshida^{5,4}

Affiliation: 1. Aichi Institute of Technology(Japan), 2. Kyushu Inst. of Technol.(Japan), 3. Cent. Res. Inst. of Elect. Power Ind.(Japan), 4. Nagoya Univ.(Japan), 5. JST-CREST(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-02 | Attempt at Hole Doping of AE-Cu-O Thin Films by Alkali Metal Doping

Speaker: *Haruto Uchida¹, Koji Kagohashi¹, Yuki Iwase¹, Yoshiyuki Seike¹, Tatsuo Mori¹, Shuhei Funaki¹, Toshinori Ozaki², Yusuke Ichino¹

Affiliation: 1. Aichi Inst. of Technol.(Japan), 2. Kwansei Gakuin Univ.(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-03 | The influence of IHT temperature on the transport properties of TFA-MOD (Y_{0.77}Gd_{0.23})Ba₂Cu₃O_y+BaHfO₃ coated conductors

Speaker: *Yuki OGIMOTO¹, Tatsuki SATO¹, Junya KAWANAMI¹, Ryuji YOSHIDA^{1,2}, Takeharu KATO², Koichi NAKAOKA¹, Teruo IZUMI¹, Masashi MIURA^{1,3}

Affiliation: 1. Seikei University(Japan), 2. JFCC(Japan), 3. JST-FOREST(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-04 | Refinement of RE₂CuO₄-X artificial pins by Co-Doping strategy for Higher JC-B in FF-MOD GdBa₂Cu₃O_{7-δ} Thin Films

Speaker: *Seiya Tarumizu¹, Ryota Ishii^{1,2}, Mitsufumi Saito¹, Toshinori Ozaki³, Osuke Miura¹

Affiliation: 1. Tokyo Metropolitan Univ.(Japan), 2. Seikei Univ.(Japan), 3. Kwansei Gakuin Univ.(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-05 | Modulation of Preformed BHO Nanoparticle Size in Industrial MOD-Derived REBa₂Cu₃O_{7-δ} Thick Films

Speaker: *JING CHEN^{1,2,3}, Rongtie Huang^{1,2}, Zhiyong Liu^{1,2}, Chuanbing Cai^{1,2}

Affiliation: 1. Shanghai Key Laboratory of High Temperature Superconductors, Shanghai University(China), 2. Shanghai Creative Superconductor Technologies Co., Ltd.(China), 3. Institute of Materials, Shanghai University(China)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-06 | Alternative cost-effective physical deposition of YBa₂Cu₃O_{7-x} thin film on industrial biaxially textured substrates in reel-to-reel system

Speaker: *Raimbek Akhat¹, Ivan Veshchunov², Valery Petrykin², Zhumabay Bakenov¹, Sergey Lee², Aliya Mukanova¹, Marcel Mesko², Konstantin Vereshchagin²

Affiliation: 1. INMET(Kazakhstan), 2. Faraday Factory Japan(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-07 | Enhancement of high J_c by significant refinement of BMO nanoparticles via combined UTOC process and multi-species co-doping in FF-MOD Gd₁₂₃ thin films

Speaker: *Taki Arai¹, Seiya Tarumizu¹, Ryota Ishii¹, Toshinori Ozaki², Osuke Miura¹

Affiliation: 1. Tokyo Metropolitan University(Japan), 2. Kwansei Gakuin University(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-08 | Efficient Optimization of Spark Plasma Sintering Parameters for Y-Doped Ba_{0.6}K_{0.4}Fe₂As₂ Using Surrogate-Filtered Bayesian Optimization

Speaker: *Nur Rahmawati Ayukaryana¹, Ichiro Mizuto¹, Goro Kitano¹, Akiyasu Yamamoto¹

Affiliation: 1. Tokyo University of Agriculture and Technology(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-09 | Determination of Magnetic Anisotropy in RE123 and RE124 Superconductors through Real-Time Magnetic Alignment Dynamics

Speaker: *Pamoda Piyumali Kahagalla Kahagalla Gamaralalage¹, Fumiko Kimura¹, Shintaro Adachi¹, Tsunehisa Kimura¹, Noriyuki Hirota², Tohru S Suzuki², Tetsuo Uchikoshi², Shigeru Horii¹

Affiliation: 1. Kyoto Univ. Adv. Sci.(Japan), 2. NIMS(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-10 | Optimization of Flux Pinning and Superconducting Properties in Bulk MgB₂ by Pr₆O₁₁ Addition

Speaker: *Sai Teja Kolli¹, Muralidhar Miryala¹

Affiliation: 1. Materials for Energy and Environmental Laboratory, Graduate School of Engineering and Science, Shibaura Institute of Technology, 307 Sentanken, Fukasaku, Minuma-Ku, Saitama 337-8570, Japan(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-11 | Development of an apparatus for tensile tests under a magnetic field generated by a Gd-Ba-Cu-O superconductor bulk

Speaker: *Tomoyuki Naito¹, Hiroto Hakoishi¹, Takashi Nozawa², Taichiro Kato², Hiroyasu Tanigawa²

Affiliation: 1. Iwate Univ.(Japan), 2. QST(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-12 | High-Precision Evaluation of Magnetic-Field Homogeneity in Polycrystalline Superconducting Bulks Using NMR

Speaker: *Ichiro Mizuto¹, Takashi Nakamura², Shinjiro Kikuchi¹, Natsume Ohno¹, Rika Tanaka¹, Akiyasu Yamamoto¹

Affiliation: 1. Tokyo University of Agriculture and Technology(Japan), 2. RIKEN(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-13 | Modification of Vortex Pinning and Second Magnetization Peak Behavior in YBCO by Femtosecond Laser Patterning

Speaker: F. Al-Mokdad¹, S B Guner^{2,3}, *Ali Gençer^{2,3}, J Rivera-Sahun⁴, E Martínez⁴, L Porta-Velilla⁴, A Badía-Majós⁴, L A Angurel⁴, G F de la Fuente⁴

Affiliation: 1. Ankara University, Graduate School of Natural and Applied Sciences,(Turkey), 2. Center of Excellence for Superconductivity Research, Ankara University(Turkey), 3. Science Faculty, Physics Department, Ankara University(Turkey), 4. Instituto de Nanociencia y Materiales de Aragón (INMA), CSIC-University of Zaragoza(Spain)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-14 | Biaxial magnetic alignment of $(Y_{1-x}Dy_x)Ba_2Cu_3O_y$ in various dispersed media

Speaker: *Shigeru Horii¹, Hayate Tameshita¹, Futo Fukuyama¹, Shintaro Adachi¹, K.G.P.P Kahagalla¹, Fumiko Kimura¹, Noriyuki Hirota², Tetsuo Uchikoshi², Toru S Suzuki²

Affiliation: 1. Kyoto University of Advanced Science(Japan), 2. NIMS(Japan)

Location: 204, 2nd Floor

13:15-14:45 | WBP2-15 | Enhancement of Transport Critical Current by Flux Trapping in Sn-Pb Solder

Speaker: *Takumi Ichikawa¹, Gen Nishijima², Yuya Hattori¹, Yoshikazu Mizuguchi¹

Affiliation: 1. Tokyo Metropolitan Univ.(Japan), 2. NIMS(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP2-16 | Transport Critical Current Performance and Anisotropy of SS/Ag-sheathed $Ba_{1-x}K_xFe_2As_2$ Tapes at Various Temperatures for Applications

Speaker: *JUNYI LUO¹, Meng Han², Yuji Tsuchiya¹, Yanwei Ma², Satoshi Awaji¹

Affiliation: 1. Tohoku Univ.(Japan), 2. Chinese Acad. of Scis.(China)

Location: 2F Foyer South

13:15-14:45 | WBP2-17 | Longitudinal Magnetic-Field Hysteresis of Critical Current in Commercial REBCO Coated Conductors

Speaker: *Shinnosuke Oda¹, Daisuke Sakai¹, Toji Nakashima¹, Haruki Miyashita¹, Aoi Kira¹, Daiki Mino¹, Kyosuke Sakurai², Satoshi Awaji², Tatsunori Okada¹

Affiliation: 1. Kyutech(Japan), 2. Tohoku Univ.(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP2-18 | Toward Improved Sample-Temperature Determination for Reliable Transport Critical-Current Measurements in Pulsed Magnetic Fields

Speaker: *Jaeheon Kim¹, Alexandre Zampa^{2,1}, Yuji Tsuchiya³, Yoshimitsu Kohama¹

Affiliation: 1. Tokyo Univ.(Japan), 2. Université Grenoble Alpes(France), 3. Tohoku Univ.(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP2-19 | High Transverse Uniformity of In-Field Critical Current in 12-mm REBCO Coated Conductors

Speaker: Ashat Shaik¹, Naing Yati¹, Marwin Elento¹, *Ivan Veshchunov¹, Konstantin Vereshchagin¹, Vladimir Vyatkin¹, Deniz Sanal¹, Marat Gaifullin¹, Hoa Dao¹, Maki Okube¹, Alexey Mankevich¹, Sergey Samoilenov¹, Valery Petrykin¹, Sergey Lee¹

Affiliation: 1. Faraday Factory Japan (Japan)

Location: 2F Foyer South

13:15-14:45 | WBP2-20 | Study on the Superconducting Properties of Mixed RE-Ba-Cu-O Thin Films as a Function of R2R PLD Process Parameters

Speaker: *Minji Kim¹, Insung Park¹, Gwantae Kim¹, Jeongtae Kim¹, Yujeong Lee¹, Hongsoo Ha¹

Affiliation: 1. Korea Electrotechnology Research Institute(Korea)

Location: 2F Foyer South

13:15-14:45 | WBP2-21 | Current Transport Properties of REBaCuO Thin Films with Nb Stripes Formed on SrTiO₃ Substrates

Speaker: *Rin Takajo¹, Shinya Sekito¹, Akiyoshi Matsumoto², Minoru Tachiki², Ryo Teranishi³, Takumi Ikenoue⁴, Yusuke Sogabe⁴, Masayoshi Inoue¹

Affiliation: 1. Fukuoka Institute of Technology(Japan), 2. National Institute for Materials Science(Japan), 3. Kyushu University(Japan), 4. Kyoto University(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP2-22 | Bending-like stress induced by solder joint under uniaxial tensile testing in 2G-HTS tapes: Impact and optimization approach

Speaker: *Yue Wu¹, Dean Liu¹, xiaofeng li¹, Yue Zhao¹

Affiliation: 1. Shanghai Jiao Tong University(China)

Location: 2F Foyer South

13:15-14:45 | WBP2-23 | Effects of Slit-Edge Geometry on Delamination Strength of PLD-Processed REBCO-Coated Conductors Under Transverse Tension Using Anvil Method

Speaker: Richard Pascua¹, Michael de Leon¹, *Hyung-Seop Shin¹

Affiliation: 1. Gyeongbuk National University(Korea)

Location: 2F Foyer South

13:15-14:45 | WBP2-24 | Effects of Micro-Interference in Stainless-Steel Armoring on the Mechanical and Superconducting Performance of CORC Cables

Speaker: *XIANYING WANG¹

Affiliation: 1. SHANGHAI YIXI TECHNOLOGY DEVELOPMENT CO., LTD.(China)

Location: 2F Foyer South

13:15-14:45 | WBP2-25 | Mechanical strength of a novel REBCO wire joint for long-length high-temperature superconducting spiral assembled conductors

Speaker: *Shunto Yamamoto¹, Taisei Suzuki¹, Masayoshi Ohya¹

Affiliation: 1. School of engineering, Kwansei Gakuin University(Japan)

Location: 2F Foyer South

13:15-14:45 | WBP2-26 | Continuous Non-Destructive Measurement of Thickness and Width for Geometric Uniformity Evaluation of Long-Length 2G HTS Wires

Speaker: *Insung Park¹, Gwantae Kim¹, Jeongtae Kim¹, Minji Kim¹, Yujeong Lee¹, Hongsoo Ha¹

Affiliation: 1. Korea Electrotechnology Research Institute(KERI)(Korea)

Location: 2F Foyer South

13:15-14:45 | WBP2-27 | Direct Determination of Transverse Resistance in Filamentized Coated Conductor Tapes

Speaker: *Martin Kucharovic¹, Fedor Gomory¹, Tomas Kujovic¹, Michal Bennar¹

Affiliation: 1. Institute of Electrical Engineering, Slovak Academy of Sciences(Slovakia)
Location: 2F Foyer South

13:15-14:45 | WBP2-28 | Multimodal analysis of bending-induced critical current degradation region in coated conductor using scanning hall probe microscopy and scanning electron microscopy

Speaker: *Takeharu KATO¹, Junko Ariga¹, Daisaku Yokoe¹, Yasutoshi Mizuta¹, Zeyu Wu², Takanobu Kiss²

Affiliation: 1. Japan Fine Ceramics Center(Japan), 2. Kyushu University(Japan)
Location: 2F Foyer South

13:15-14:45 | WBP2-29 | Radiation Hardness of REBCO film: the challenge of in-situ characterization during gamma irradiation

Speaker: *VALENTINA PINTO¹, Rocco Carcione², Rosa Freda¹, Alessia Cemmi², Jessica Scifo², Marcello Marchetti¹, Babak Taheri¹, Andrea Masi¹, Gabriele Colombo¹, Ilaria Di Sarcina², Adriano Verna², Achille Angrisani Armenio¹, Giuseppe Celentano¹

Affiliation: 1. ENEA, Superconductivity Laboratory, Nuclear Department(Italy), 2. ENEA, Gamma Irradiation Facility Laboratory, Nuclear Department(Italy)
Location: 2F Foyer South

13:15-14:45 | WBP2-30 | Observation and Role of Epitaxial BaCu₃O₄ Phase in Ultrahigh-Rate EuBa₂Cu₃O_{7-δ} Film Growth via Industrial Pulsed Laser Deposition

Speaker: *Haoliang Xiang¹, Yue Wu¹, Dean Liu¹, Zhao Yue¹

Affiliation: 1. School of Electrical Engineering, Shanghai Jiao Tong University(China)
Location: 2F Foyer South

13:15-14:45 | WBP2-31 | Deep Learning-Based Image Analysis for Microstructural Investigation of REBCO Coated Conductors

Speaker: *Yuri Hoshino¹, Kotomi Ogi¹, Daito Fukui¹, Fumitake Kametani², Tetsuhiro Obana³, Takanobu Mato⁴, So Noguchi⁴, Akiyasu Yamamoto¹

Affiliation: 1. Dept. of Biomedical Systems Eng., Tokyo Univ. of Agricul. and Technol.(Japan), 2. National High Magnetic Field Laboratory, Florida State Univ.(USA), 3. NIFS(Japan), 4. Faculty of information Science and Technology, Hokkaido Univ.(Japan)
Location: 2F Foyer South

13:15-14:45 | WBP2-32 | Estimation of delamination mechanisms in YBCO coated conductors based on microstructural observation of delaminated surfaces

Speaker: *Yusuke Kawagishi¹, Shintaro Kawashima¹, Ryo Teranishi¹

Affiliation: 1. Kyushu Univ.(Japan)
Location: 2F Foyer South

3 December 2026

AP Category

Accelerator Magnets

09:45-10:15 | AP6-01-INV | Superconducting Magnet R&D at the Paul Scherrer Institute (PSI) within the Swiss Center for Accelerator Research and Technology (CHART)

Speaker: *Douglas Araujo¹, Bernhard Auchmann², André Brem¹, Michal Duda¹, Jaap Kosse¹, Jungtae Lee¹, Christian Lindner¹, Thomas Michlmayr¹, Colin Müller¹, Kirtana Puthran¹, Sasha Röthlisberger¹, Dmitry Sotnikov¹, Anna Stampfli¹, Joep Van den Eijnden^{3,1}, Ines S. P. P. Yoshizawa¹, Alejandro C. Zurita¹, Matteo Crescenti^{1,4}
 Affiliation: 1. Paul Scherrer Institute(Switzerland), 2. CERN(Switzerland), 3. ETH Zürich(Switzerland), 4. University of Geneva(Switzerland)
 Location: 203, 2nd Floor

10:15-10:45 | AP6-02-INV | Application of High T_c Superconductor in Accelerators

Speaker: *Amalia Ballarino¹
 Affiliation: 1. CERN, European Organization for Nuclear Research(Switzerland)
 Location: 203, 2nd Floor

10:45-11:15 | AP6-03-INV | Status of development and construction of superconducting magnets for accelerator applications in Japan

Speaker: *Tatsushi Nakamoto¹
 Affiliation: 1. High Energy Accelerator Research Organization(Japan)
 Location: 203, 2nd Floor

11:15-11:45 | AP6-04-INV | Fabrication and Performance of Racetrack Coils based on REBCO SCSC cables

Speaker: *Tengming Shen¹, Marek Mosat¹, Ye Yang¹, David Greene¹, Yufan Yan¹, Xiaorong Wang¹, Febin Kurian², Mithlesh Kumar², Ramesh Gupta², Hiiragi Uegaki³, Yusuke Sogabe³, Naoyuki Amemiya³, Haruka Asada⁴, Kento Suzuki⁴, Michinaka Sugano⁴, Toru Ogitsu⁴, Tatsushi Nakamoto⁴
 Affiliation: 1. Lawrence Berkeley National Lab(USA), 2. Brookhaven National Lab(USA), 3. Kyoto University(Japan), 4. KEK(Japan)
 Location: 203, 2nd Floor

11:45-12:00 | AP6-05 | Cosine-Theta HTS Magnets for FCC-ee Short Straight Sections: From Demonstrator to Prototype

Speaker: *Kirtana Puthran¹, Jaap Kosse¹, Jürgen Schmidt¹, Alejandro Carlón Zurita¹, André Brem¹, Michał Duda¹, Douglas Martins Araujo¹, Bernhard Auchmann²
 Affiliation: 1. Paul Scherrer Institute(Switzerland), 2. European Organization for Nuclear Research(Switzerland)
 Location: 203, 2nd Floor

Magnetic Levitation and Bulk Applications

13:15-13:45 | AP7-01-INV | Excitation Amplitude Dependence of Data-Driven Prediction of Nonlinear Combination Resonance in Superconducting Magnetic Levitation Systems

Speaker: *Toshihiko Sugiura¹

Affiliation: 1. Mechanical Engineering, Keio University(Japan)

Location: 203, 2nd Floor

13:45-14:00 | AP7-02 | Development of a Motor System Supported by Layered REBCO Superconducting Magnetic Bearings and Evaluation of Its Fundamental Characteristics

Speaker: *Yutaka Terao¹

Affiliation: 1. Kyoto University(Japan)

Location: 203, 2nd Floor

14:00-14:15 | AP7-03 | Experimental Characterization of mW-Level Energy Loss in a 400-mm-Diameter SMB-Based Rotation Mechanism below 15 K for CMB Polarimetry

Speaker: *Ryosuke Akizawa^{1,2}, Giulia Barbieri Ripamonti^{3,4}, Paolo de Bernardis^{3,4}, Fabio Columbro², Mitsuharu Kusama⁵, Asuka Maeda², Silvia Masi^{3,4}, Tomotake Matsumura², Jun Nakagawa², Hiroyuki Ohsaki^{2,6}, Satsuki Okumura⁷

Affiliation: 1. Department of Physics, The University of Tokyo(Japan), 2. Kavli Institute for the Physics and Mathematics of the Universe (IPMU), The University of Tokyo(Japan), 3. Sapienza University of Rome(Italy), 4. National Institute for Nuclear Physics (INFN)(Italy), 5. Advanced Engineering Services (AES)(Japan), 6. National Institute for Materials Science (NIMS)(Japan), 7. Tohoku university(Japan)

Location: 203, 2nd Floor

14:15-14:30 | AP7-04 | Magnetic Field Distribution of Monopolar Bulk Magnet by Pulsed Field Magnetization for TD-NMR

Speaker: *Tetsuo Oka^{1,2}, Masato Takahashi², Takashi Nakamura², Kazuya Yokoyama³, Naomichi Sakai¹

Affiliation: 1. Shibaura Institute of Technology(Japan), 2. RIKEN(Japan), 3. Ashikaga University(Japan)

Location: 203, 2nd Floor

14:30-14:45 | AP7-05 | External current in HTS coils for counteracting flux creep in Superconducting Magnetic Bearings

Speaker: *Luke Porteous^{1,2}, James Storey^{1,2}, Sebastian Hellman¹

Affiliation: 1. Robinson Research Institute(New Zealand), 2. The MacDiarmid Institute(New Zealand)

Location: 203, 2nd Floor

Magnet Technologies

15:00-15:15 | AP8-01 | Design, robotic winding, and testing of a non-planar REBCO coil for rotating electrical machines.

Speaker: *Jianghong Wan¹, Mathias Noe¹, Magnus Dam¹, Tabea Arndt¹

Affiliation: 1. Institute for Technical Physics (ITEP), Karlsruhe Institute of Technology (KIT)(Germany)

Location: 203, 2nd Floor

15:15-15:30 | AP8-02 | The STAR Machine: A Jointless Stacked Tape Architecture Rotor

Speaker: *Roberto André Henrique de Oliveira¹, Tabea Arndt¹, Andrés Yenes¹, Matthias Eisele¹, Marion Klaeser¹

Affiliation: 1. Karlsruher Institut für Technologie(Germany)

Location: 203, 2nd Floor

15:30-15:45 | AP8-03 | Underpinning MW-level fully superconducting motors for aviation applications

Speaker: *Zhenan Jiang¹, Grant Lumsden¹, James Storey¹, Bart Ludbrook¹, Dominic Moseley¹, Yueming Sun¹, Alan Caughley², Sangkwon Jeong³, Duleepa Thrimawithana⁴, Sarat Singamneni⁵, Rodney Badcock⁶, Nicholas Long¹

Affiliation: 1. Robinson Research Institute, Victoria University of Wellington(New Zealand), 2. University of Canterbury(New Zealand), 3. Korea Advanced Institute of Science & Technology (KAIST)(Korea), 4. University of Auckland(New Zealand), 5. Auckland University of Technology(New Zealand), 6. OpenStar Technologies(New Zealand)

Location: 203, 2nd Floor

15:45-16:00 | AP8-04 | Development and Assessment of a Stack-Based HTS Conductor for Future Korean Nuclear Fusion Magnets

Speaker: *Byung Su LIM¹, Kyungmo KIM¹, Sangjun OH², Sanghyun Je³, Jaehwan Park³, Jongseo Lee¹

Affiliation: 1. Korea Institute of Energy Technology (Korea), 2. Korea Institute of Fusion Energy(Korea), 3. KAT(Korea)

Location: 203, 2nd Floor

16:00-16:15 | AP8-05 | Current Redistribution in a Large-Current No-Insulation UROCOIC REBCO Coil for Fusion Magnet Applications

Speaker: *Yoshiro Narushima^{1,2}, Yuta Onodera¹, Shinji Hamaguchi^{1,2}, Tomosumi Baba¹, Nagato Yanagi^{1,2}, Hirotaka Chikaraishi^{1,2}, Junichi Miyazawa³, Hiroki Chikuma³, Hitoshi Tamura³, Takuya Goto³

Affiliation: 1. National Institute for Fusion Science(Japan), 2. SOKENDAI(Japan), 3. Helical Fusion Co., Ltd.(Japan)

Location: 203, 2nd Floor

16:15-16:30 | AP8-06 | Floating a half-tonne Donut: Levitation Control System of OpenStar's Junior

Speaker: *Joshua Patrick Maxwell Ellingham¹, Darren Garnier¹, Emerson Swanson-Dobbs¹, Benjy Smith¹, Leif Jessen¹, Craig Chisholm¹

Affiliation: 1. OpenStar Technologies Ltd(New Zealand)

Location: 203, 2nd Floor

16:30-16:45 | AP8-08 | Self-protecting HTS coils with vanadium-oxide smart insulation: an electro-thermal-magnetic quench model

Speaker: *Mattia Ortino¹, H Monroe²

Affiliation: (1. Université de Lorraine (Switzerland), 2. École Polytechnique Fédérale de Lausanne (EPFL), Swiss Plasma Center (SPC), (Switzerland))

Location: 203, 2nd Floor

ED Category

Detector

09:45-10:15 | ED6-01-INV | Latest Advances in Superconducting Strip Photon Detectors at SIMIT-CAS

Speaker: *Lixing YOU¹

Affiliation: 1. Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences (SIMIT, CAS)(China)

Location: Main Hall, 3rd Floor

10:15-10:45 | ED6-02-INV | Development of Superconducting Receiver Technologies Supporting Radio Astronomy

Speaker: *Yoshinori Uzawa¹

Affiliation: 1. National Astronomical Observatory of Japan(Japan)

Location: Main Hall, 3rd Floor

10:45-11:15 | ED6-03-INV | Development of Photon-Number-Resolving Superconducting Nanostrip Detectors with CPW- and Microstrip-Based Impedance-Matching Tapers

Speaker: *Hiroki Kutsuma¹, Yoshihiro Fujita¹, Masahiro Yabuno², Shigehito Miki², Taro Yamashita¹

Affiliation: 1. Department of Applied Physics, Graduate School of Engineering, Tohoku University(Japan), 2. National institute of Information and Communications Technology (NICT)(Japan)

Location: Main Hall, 3rd Floor

11:15-11:30 | ED6-04 | First fabricatoin of superconducting tunnel junction X-ray detector on silicon-on-insulator substrate

Speaker: *Shigetomo Shiki¹, Go Fujii¹

Affiliation: 1. National Institute of Advanced Industrial Science and Technology(Japan)

Location: Main Hall, 3rd Floor

11:30-11:45 | ED6-05 | Crystalline Orientation Mapping of FeS₂ Natural Single Crystals via Neutron Transmission Imaging with a Delay Line Current-Biased Kinetic-

Inductance Detector

Speaker: *Hiroaki Shishido¹, The Dang Vu², Kazuya Aizawa³, Kenji M Kojima^{4,1}, Kenichi Oikawa³, Masahide Harada³, Takayuki Oku³, Kazuhiko Soyama³, Shigeyuki Miyajima⁵, Takekazu Ishida¹

Affiliation: 1. Osaka Metropolitan University(Japan), 2. Ho Chi Minh City University of Technology and Engineering(Viet Nam), 3. Japan Atomic Energy Agency(Japan), 4. University of British Columbia(Canada), 5. National Institute of Information and Communications Technology(Japan)

Location: Main Hall, 3rd Floor

Quantum Information II

13:15-13:45 | ED7-01-INV | High-fidelity quantum-gate operations based on superconducting electronics at millikelvin temperatures

Speaker: *Zhirong Lin¹

Affiliation: 1. Shanghai Institute of Microsystem and Information Technology, CAS(China)

Location: Main Hall, 3rd Floor

13:45-14:15 | ED7-02-INV | Cryogenic System Design and Engineering for Superconducting Quantum Computers

Speaker: *Yu Zhou^{1,2}, Daiyu Kondo^{1,2}, Norinao Kouma^{1,2}, Yoshiyasu Doi^{1,2}, Shintaro Sato^{1,2}

Affiliation: 1. Fujitsu Limited(Japan), 2. RIKEN Center for Quantum Computing(Japan)

Location: Main Hall, 3rd Floor

14:15-14:45 | ED7-03-INV | Development of superconducting quantum computing systems

Speaker: *Yong-Ho Lee¹

Affiliation: 1. Korea Research Institute of Standards and Science(Korea)

Location: Main Hall, 3rd Floor

High frequency devices, System application

15:00-15:30 | ED8-01-INV | Gain Analysis and Experimental Evaluation of a Fishbone-Type Kinetic-Inductance Traveling-Wave Parametric Amplifier at 4 K

Speaker: *Masanori Takeda¹, Ayumi Tanaka¹, Yudai Tagami¹, Hiroki Kutsuma², Sho Masui³, Hirotaka Terai⁴, Yasunobu Nakamura^{5,6}

Affiliation: 1. Shizuoka Univ.(Japan), 2. Tohoku Univ.(Japan), 3. NAOJ(Japan), 4. NICT(Japan), 5. RIKEN(Japan), 6. Univ. of Tokyo(Japan)

Location: Main Hall, 3rd Floor

15:30-16:00 | ED8-02-INV | Microscopic Theory of Superconducting Devices: From Vortex Penetration to Nonequilibrium Nonlinear Electrodynamics

Speaker: *Takayuki Kubo^{1,2}

Affiliation: 1. High Energy Accelerator Research Organization (KEK)(Japan), 2. The Graduate University for Advanced Studies (Sokendai)(Japan)

Location: Main Hall, 3rd Floor

16:00-16:15 | ED8-03 | TiN/Fe(Se,Te) Multilayer Architecture for High-Field Superconducting Applications

Speaker: *Antonella Mancini^{1,2}, Andrea Masi^{1,3}, Achille Angrisani Armenio¹, Laura Piperno¹, Violetta Poletto Dotsenko⁴, Anastasya Duchenko¹, Alessandro Rufoloni¹, Angelo Vannozzi^{1,2}, Andrea Alimenti^{2,4}, Alessandro Magalotti^{2,4}, Enrico Silva^{2,4}, Kostiantyn Torokhtii⁴, Nicola Pompeo^{2,4}, Gianluca Ghigo^{5,6}, Giuseppe Celentano¹

Affiliation: 1. Superconductivity Laboratory ENEA, C.R. Frascati, 00044 Frascati, Italy(Italy), 2. INFN Sezione Roma Tre, 00146, Roma, Italy(Italy), 3. INFN Laboratori Nazionali di Frascati, 00044, Frascati, Italy(Italy), 4. Dept. of Industrial, Electronic and Mechanical Engineering, University Roma Tre, 00146 Roma, Italy(Italy), 5. Dept. of Applied Science and Technology, Politecnico di Torino, 10129 Torino, Italy(Italy), 6. INFN Sezione Torino, 10125 Torino, Italy(Italy)

Location: Main Hall, 3rd Floor

16:15-16:30 | ED8-04 | Magnetic resonance measurement system based on intrinsic Josephson junctions THz emitter with superconducting magnetic shields

Speaker: *Daiki Matsumaru^{1,2}, Michitaka Maruyama², Takanari Kashiwagi^{1,3}

Affiliation: 1. Univ. of Tsukuba(Japan), 2. AIST(Japan), 3. Osaka Metropolitan Univ.(Japan)

Location: Main Hall, 3rd Floor

PC Category

Cuprate

09:45-10:15 | PC6-01-INV | Record Ambient-Pressure Superconductivity in HgBa₂Ca₂Cu₃O_{8+δ} and Pressure-Quench Mechanisms

Speaker: *Liangzi Deng¹

Affiliation: 1. University of Houston(USA)

Location: 202, 2nd Floor

10:15-10:45 | PC6-02-INV | Enhanced Superconducting Gap in the Outer CuO₂ Plane of the Hg-Based Trilayer Cuprate

Speaker: *Masafumi Horio¹

Affiliation: 1. The University of Tokyo(Japan)

Location: 202, 2nd Floor

10:45-11:15 | PC6-03-INV | Nodal metal and interlayer coupling in triple-layer cuprate superconductor, Bi₂223

Speaker: *Shin-ichiro Iwata¹

Affiliation: 1. Hiroshima University(Japan)

Location: 202, 2nd Floor

11:15-11:30 | PC6-04 | Effect of Uniform Bond-Charge Order on Longitudinal Spin Susceptibility Jump at a Superconducting Instability Inside a Magnetic Phase

Speaker: *Sher Baz^{1,2}, Hiroyuki Yamase^{2,1}

Affiliation: 1. Department of Condensed Matter Physics, Graduate School of Science,

Hokkaido University, Sapporo 060-0810, Japan(Japan), 2. Research Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), Tsukuba 305-0047, Japan(Japan)

Location: 202, 2nd Floor

11:30-12:00 | PC6-05-INV | Effect of Oxygen Deficiency in the Cu-O Chains on the Superconducting Transition Temperature in REBa₂Cu₃O_y

Speaker: *Akira Fujiwara¹, Masatsune Kato¹, Taro Yamashita¹

Affiliation: 1. Tohoku univ.(Japan)

Location: 202, 2nd Floor

Novel materials 1

13:15-13:45 | PC7-01-INV | Discovering New Superconductors Through Arsenic Chemistry

Speaker: *Minoru Nohara¹

Affiliation: 1. Hiroshima University(Japan)

Location: 202, 2nd Floor

13:45-14:00 | PC7-02 | Enhancement of T_c by partial element substitution in layered BiS₂-based compound La(O,F)(Bi,Sn)S₂

Speaker: *Yuto Miyake¹, Tadataka Watanabe¹, Satoshi Demura¹

Affiliation: 1. Nihon Univ.(Japan)

Location: 202, 2nd Floor

14:00-14:15 | PC7-03 | Pressure-induced Giant Critical Current Peak in Kagome Superconductor RbV₃Sb₅

Speaker: *Wenyan Wang^{1,2}, Lingfei Wang^{1,2}, Tsz Fung Poon¹, Zheyu Wang^{1,2}, Chun Wai Tsang¹, Xinyou Liu¹, Shanmin Wang³, Kwing To Lai¹, Wei Zhang¹, Jeffery L. Tallon⁴, Youichi Yamakawa⁵, Hiroshi Kontani⁵, Rina Tazai⁶, Swee K. Goh^{1,2}

Affiliation: 1. Department of Physics, The Chinese University of Hong Kong(Hong Kong), 2. State Key Laboratory of Quantum Information Technologies and Materials, The Chinese University of Hong Kong(Hong Kong), 3. Department of Physics, Southern University of Science and Technology(China), 4. Robinson Institute, Victoria University of Wellington(New Zealand), 5. Department of Physics, Nagoya University(Japan), 6. Yukawa Institute for Theoretical Physics, Kyoto University(Japan)

Location: 202, 2nd Floor

14:15-14:45 | PC7-04-INV | Quantum and classical superconducting metamaterials with novel electrodynamic properties

Speaker: *Steven Anlage¹, Jingnan Cai¹

Affiliation: 1. University of Maryland(USA)

Location: 202, 2nd Floor

Novel materials 2

15:00-15:30 | PC8-01-INV | Superconductivity controlled by twist angle in monolayer NbSe₂ on graphene

Speaker: *Masahiro Naritsuka¹

Affiliation: 1. RIKEN Center for Emergent Matter Science(Japan)

Location: 202, 2nd Floor

15:30-16:00 | PC8-02-INV | Layer-selective Fulde–Ferrell–Larkin–Ovchinnikov phase and diode effect in misfit layered superconductor

Speaker: *Yuki Itahashi¹

Affiliation: 1. RIKEN, CEMS(Japan)

Location: 202, 2nd Floor

16:00-16:15 | PC8-03 | Synthesis and Physical Properties of the La-Site-Substituted Misfit Layered Compound (LaS)_{1+δ}(NbS₂)

Speaker: *Dan Mouri¹, Masanori Nagao¹, Satoshi Watauchi¹, Yuki Maruyama¹

Affiliation: 1. Yamanashi Univ.(Japan)

Location: 202, 2nd Floor

16:15-16:30 | PC8-04 | Transport signatures of protonation-induced quasi-2D behaviour in the bulk 2H-NbSe₂

Speaker: *Shek Hei CHUI¹, Zhiyu ZHANG¹, Tsz Fung POON¹, Siu Tung LAM¹, Xirun SUN², Desheng WU², Swee Kuan GOH¹

Affiliation: 1. The Chinese University of Hong Kong(Hong Kong), 2. Quantum Science Center of Guangdong-Hong Kong-Macao Greater Bay Area (Guangdong)(China)

Location: 202, 2nd Floor

16:30-16:45 | PC8-05 | Unconventional Superconductivity in Correlated Noncentrosymmetric Systems

Speaker: *Tsuyoshi Imazu¹, Katsunori Kubo¹

Affiliation: 1. Japan Atomic Energy Agency(Japan)

Location: 202, 2nd Floor

PL Category

Plenary

08:30-09:15 | PL4 | Rise of Superconducting Quantum Circuits

Speaker: *Jaw-Shen Tsai Tsai¹

Affiliation: 1. National Yang Ming Chiao Tung University(Taiwan)

Location: Main Hall, 3rd Floor

WB Category

Advanced Conductors

09:45-10:15 | WB6-01-INV | Progress in Advanced REBCO Conductor Development

Speaker: *Venkat Selvamanickam^{1,2}

Affiliation: 1. Department of Mechanical Engineering, Advanced Manufacturing Institute, Texas Center for Superconductivity, University of Houston(USA), 2. AMPeers(USA)

Location: 201, 2nd Floor

10:15-10:30 | WB6-02 | Progress in R&D and industrialization of second-generation high-temperature superconducting tape at SuperMag Technology

Speaker: *Shiwei Xu¹, Guangyu Jiang¹, Yue Wu², Anna Wang¹, Shae Yu¹

Affiliation: 1. SuperMag Technology (Shanghai) Co., Ltd.(China), 2. Shanghai Jiao Tong University(China)

Location: 201, 2nd Floor

10:30-10:45 | WB6-03 | The research and industrialization progress of 2G-HTS based on MOCVD technology in China

Speaker: *Yushan Wang¹, Man Li¹, Guodong Zhang¹, Hongwei Gu, Zijun Ye¹

Affiliation: 1. Eastern Superconducting Technology (Suzhou) Co., Ltd.(China)

Location: 201, 2nd Floor

10:45-11:00 | WB6-04 | Continuous Reel-to-Reel Laser Scribing of REBCO Coated Conductors with Fine Grooves and High Critical-Current Retention

Speaker: *Hishiro T. Hirose¹, Takato Machi¹, Kamil Etxagibel Begic¹, Ivan Veshchunov¹, Vladimir Vyatkin¹, Konstantin Vereshchagin¹, Steven Candelaria¹, Miyuki Nakamura^{1,2}, Sergey Samoilentkov¹, Valery Petrykin¹, Sergey Lee¹

Affiliation: 1. Faraday Factory Japan LLC(Japan), 2. Kyushu University(Japan)

Location: 201, 2nd Floor

11:00-11:15 | WB6-05 | Development of Cu-, Sn-, and Ag-Coated Mono- and Multifilamentary IMD MgB₂ Superconducting Wires

Speaker: *Ali Gençer^{1,2}, C. Guo³, F. Almokdad⁴, F. Ervuz¹, H. Koralay⁵, Y. Oznal^{1,8}, S. Safran^{1,2}, S. Salahi⁶, A. Seçkin⁷, K. Sonmez^{1,4}, S. C. Taskin¹, D. Wang³, Y. Ma³

Affiliation: 1. Ankara University, Superconductivity Technologies Application and Research Center(Turkey), 2. Ankara University, Science Faculty, Physics Department(Turkey), 3. Chinese Academy of Sciences, Institute of Electrical Engineering, Key Laboratory of Applied Superconductivity(China), 4. Ankara University, Graduate School of Natural and Applied Sciences(Turkey), 5. Gazi University, Science Faculty, Physics Department(Turkey), 6. Gazi University, Department of Metallurgical and Materials Engineering,(Turkey), 7. Gazi University, Basic and Engineering Sciences Central Laboratory Application and Research Center (GUTMAM)(Turkey), 8. Ankara University, Elmadag Vocational School, Electronics and Automation Department(Turkey)

Location: 201, 2nd Floor

11:15-11:30 | WB6-06 | The handling of Rutherford cables made of ultrafine wire rope strands with opposing twist direction

Speaker: *Ian Pong¹, Akihiro Kikuchi², Andy Lin¹

Affiliation: 1. Lawrence Berkeley National Laboratory(USA), 2. National Institute for Materials Science(Japan)

Location: 201, 2nd Floor

11:30-12:00 | WB6-07-INV | Advances in high performance iron-based superconducting wires

Speaker: *Yanwei Ma¹

Affiliation: 1. Institute of Electrical Engineering, Chinese Academy of Sciences(China)

Location: 201, 2nd Floor

Data-Driven Approaches II

13:15-13:45 | WB7-01-INV | Topochemical and data-driven design of advanced iron-based superconducting materials

Speaker: *Akiyasu Yamamoto¹, Nur Rahmawati Ayukaryana¹, Fumiya Shimoyama¹, Ichiro Mizuto¹, Nodoka Shimizu¹, Goro Kitano¹, Kotomi Ogi¹, Yu Homma¹, Osuke Kinouchi¹, Kota Hanzawa², Yusuke Shimada³, Yoshimitsu Hishinuma⁴, Takafumi Hatano⁵, Shunya Tomioka⁶, Hiroshi Ikuta⁶

Affiliation: 1. Tokyo University of Agriculture and Technology(Japan), 2. Institute of Science, Tokyo(Japan), 3. Kyushu University(Japan), 4. National Institute for Fusion Science(Japan), 5. Hokkaido University(Japan), 6. Nagoya University(Japan)

Location: 201, 2nd Floor

13:45-14:15 | WB7-02-INV | Data-Driven Correlation Analysis between Deposition Parameters Including Ablation Plumes and Superconducting Properties of PLD-Grown REBCO Thin Films

Speaker: *Yusuke Ichino^{1,5}, Shuhei Funaki¹, Yoshiyuki Seike¹, Tatsuo Mori¹, Keiichi Horio^{2,5}, Ataru Ichinose^{3,5}, Tomoya Horide^{4,5}, Kaname Matsumoto^{4,5}, Yutaka Yoshida^{4,5}

Affiliation: 1. Aichi Inst. of Technol.(Japan), 2. Kyushu Inst. of Technol.(Japan), 3. Central Research Inst. of Electric Power Industry(Japan), 4. Nagoya University(Japan), 5. JST-CREST(Japan)

Location: 201, 2nd Floor

14:15-14:30 | WB7-03 | Automated Analysis and Machine-Learning Prediction of Critical Current Density in YBCO Coated Conductors

Speaker: *Vladimir Vyatkin¹, Ashat Shaik¹, Naing Yati¹, Hoa Dao¹, Ivan Veshchunov¹, Konstantin Vereshchagin¹, Maki Okube¹, Marat Gaifullin¹, Sergey Samoilentkov¹, Valery Petrykin¹, Sergey Lee¹

Affiliation: 1. Faraday Factory Japan(Japan)

Location: 201, 2nd Floor

14:30-14:45 | WB7-04 | Spatially Resolved Characterization of Superconducting Properties in REBCO Combinatorial Films Deposited by Inkjet Printing and Transient

Liquid-Assisted Growth

Speaker: *Zeyu Wu¹, Kohei Higashikawa¹, Albert Queralto², Emma Guiara², Cornelia Pop², Kapil Gupta², Xavier Obradors², Teresa Puig², Takanobu Kiss¹

Affiliation: 1. Kyushu University(Japan), 2. Institut de Ciència de Materials de Barcelona(Spain)

Location: 201, 2nd Floor

Structural Characterization and Joints

15:00-15:30 | WB8-01-INV | Nanostructural Origins of J_c Variability in REBCO Coated Conductors for Low-Temperature, High-Field Applications

Speaker: *Fumitake Kametani^{1,2}, A. Xu¹, Y. Xin³, C. Watson^{1,4}, J. Lee^{1,4}, J. Bang¹, D. V.

Abraimov¹, J. J. Jaroszynski³, R. Ries¹, I. Wyrsta⁵, R. Karam⁵, D. C. Larbalestier^{1,2,4}

Affiliation: 1. Applied Superconductivity Center, National High Magnetic Field Laboratory, Florida State University(USA), 2. Department of Mechanical Engineering, FAMU-FSU College of Engineering, Florida State University(USA), 3. National High Magnetic Field Laboratory, Florida State University(USA), 4. Department of Materials Science and Engineering, FAMU-FSU College of Engineering, Florida State University(USA), 5. High Temperature Superconductors Inc.(USA)

Location: 201, 2nd Floor

15:30-15:30 | WB8-02-INV | Withdrawn

Location: 201, 2nd Floor

15:30-15:45 | WB8-03 | Microstructural analysis of thickened YBa₂Cu₃O_y multifilament films using Substrate-Encoded Filamentation

Speaker: *Ryo Teranishi¹, Seiya Hirayama¹, Taiki Wada¹, Akiyoshi Matsumoto², Masayoshi Inoue³, Takumi Ikenoue⁴, Yusuke Sogabe⁴

Affiliation: 1. Kyushu Univ.(Japan), 2. National Institute for Materials Science(Japan), 3. Fukuoka Institute of Technology(Japan), 4. Kyoto Univ.(Japan)

Location: 201, 2nd Floor

15:45-16:00 | WB8-04 | Measurement and Modeling of the Temperature Dependence of Joint Resistivity in Solder-Free Sonic-Welded REBCO Lap Joints

Speaker: *Shinya Sera¹, Takanobu Kiss^{1,2}, Zeyu Wu¹, Kohei Higashikawa^{1,2}

Affiliation: 1. Dept. of Electrical Engineering, Kyushu Univ.(Japan), 2. Research Institute of Superconductor Science and Systems, Kyushu Univ.(Japan)

Location: 201, 2nd Floor

16:00-16:15 | WB8-05 | Dynamic inductive resistance measurement of high-current, ultra-low-resistance superconducting joints

Speaker: *Petr Zagura¹, J. Winger¹, C. R. M. Grovenor¹, S. C. Speller¹

Affiliation: 1. Department of Materials, University of Oxford(UK)

Location: 201, 2nd Floor