

IBS2app 2025 Program

Abstracts are linked to each program number. Please click the image to view or download the PDF file.

Session	Program No.	Time	Thursday February 13th
		13:30-13:40	Opening
Plenary-I	PL-1	13:40-14:10	Plenary, Ruslan Prozorov Iron-Based Superconductors: Fundamental Properties Enabling Applications
Fundamentals-I/ Materials-I	IO-23	14:10-14:30	Invited, Jens Hänisch Grain boundaries in Fe(Se,Te) thin films
	CO-01	14:30-14:45	Takao Watanabe Evidence for the BCS-BEC crossover in Te-annealed FeTe _{1-x} Se _x (0.1 ≤ x ≤ 0.4) single crystals: An magneto transport study
	IO-02	14:45-15:05	Invited, Hai-Hu Wen Vortex dynamics and necklace-like vortex pattern in iron based superconductors
	CO-15	15:05-15:20	Gaia Grimaldi Anisotropy Pinning Effects in Superconductors beyond J _c
		15:20-15:50	Break
Fundamentals-II/ Materials-II	IO-04	15:50-16:10	Invited, Testuo Hanaguri Superconducting Gaps in Fe(S,Se,Te)
	IO-05	16:10-16:30	Invited, Zhixiang Shi Research on Fe(Se, Te) Thin Films and Coated Conductors
	IO-06	16:30-16:50	Invited, Ryosuke Kurihara Study on Bulk Superconductivity and Structural properties in Fe(Te, S)
	CO-03	16:50-17:05	Joseph A. Wilcox Magnetically-controlled Vortex Dynamics in a Ferromagnetic Superconductor
	IO-07	17:05-17:25	Invited, Taichi Terashima Fermiology of iron-based superconductors via quantum-oscillation and magnetoresistance measurements
		17:25-18:00	Free time
		18:00-20:00	Welcome reception

Session	Program No.	Time	Friday February 14th
Plenary-II	PL-2	8:30-9:00	Plenary, Yanwei Ma Progress and prospects of IBS wires for high-field applications
PIT wires & Bulk magnets-I	IO-13	9:00-9:20	Invited, Mark Ainslie Numerical modelling of Ba122 bulk superconductor magnetisation
	IO-09	9:20-9:40	Invited, Andrea Malagoli Ba-122 superconducting powders and wires development towards high field generation
	CO-04	9:40-9:55	Alessandro Leveratto Effects of different metallic sheaths on Ba122 superconducting wire development
	CO-05	9:55-10:10	Tsuyoshi Tamegai Fabrication and Characterizations of Thin (Ba,Na)Fe ₂ As ₂ Round Wires
	IO-10	10:10-10:30	Invited, Satoshi Awaji Current Limiting Mechanism in Cu/Ag-sheathed Ba _{1-x} K _x Fe ₂ As ₂ Tapes
		10:30-11:00	Break
PIT wires & Bulk magnets-II	CO-06	11:00-11:15	Nur Rahmawati Ayukaryana Investigation of Yttrium Addition Effects in K-doped BaFe ₂ As ₂ Polycrystalline Bulk Superconductor
	IO-11	11:15-11:35	Invited, Laura Lain Rodriguez Atom Probe Tomography Analysis of BaFe ₂ As ₂ Superconductors
	IO-12	11:35-11:55	Invited, Andrea Masi Development of Cu/Ta sheathed Ca/K-1144 wires for fusion applications
	IO-08	11:55-12:15	Invited, Fumitake Kametani Grain boundary structures for J _c increment and degradation in polycrystalline K-Ba122
		12:15-13:45	Lunch
PIT wires & Bulk magnets-III	IO-14	13:45-14:05	Invited, Shiv J. Singh Reviewing High-Pressure Growth Effects on Iron-based Superconductors
	CO-07	14:05-14:20	Junyi Luo Transport Properties of the Stainless Steel/Ag-sheathed Ba _{1-x} K _x Fe ₂ As ₂ Tapes with Large Critical Current Density
Device and applications/Fundamentals-III	IO-15	14:20-14:40	Invited, Yuki Shiomi Nonreciprocal transport effects in FeSe superconducting films
	CO-09	14:40-14:55	Shintaro Suzuki Depairing current density in the c-axis microbridge devices of Co-doped BaFe ₂ As ₂ single crystals
	IO-16	14:55-15:15	Invited, Enrico Silva High Frequency Vortex Dynamics in FeSeTe Thin Films: Investigating Flux Flow, Anisotropy, Pinning, and Impact of Heavy-Ion Irradiation
	CO-10	15:15-15:30	Atsuro Yoshikawa Fabrication and characterization of NdFeAs(O,H) nanostrips toward single photon detectors
	IO-17	15:30-15:50	Invited, Atsutaka Maeda Interface superconductivity of Fe chalcogenides realized by PLD technique
		15:50-16:20	Break
Thin films and coated conductors-I/Fundamentals-IV	IO-18	16:20-16:40	Invited, Hidenori Hiramatsu Thin-film Growth of 1111-type Iron-based Superconductors
	CO-11	16:40-16:55	Antonella Mancini Development of Fe(Se,Te) coated conductors with a conductive TiN buffer layer
	IO-19	16:55-17:15	Invited, Serena Eley Tuning the theoretical limits for the critical current density and vortex creep rate in iron-based superconductors
	IO-20	17:15-17:35	Invited, Michael Eisterer Critical current across artificial [001] tilt grain boundaries in K-doped Ba-122 thin films
		17:35-19:00	Free time
		19:00-21:00	Dinner

Session	Program No.	Time	Saturday February 15th
Poster	PO-1~PO-28	8:30-10:20	Poster
		10:20-10:30	Short break
Plenary-III	PL-3	10:30-11:00	Plenary, Valeria Braccini Iron Based Superconductors: Development of Conductors for High Field Generation based on Fe(Se,Te)
		11:00-11:10	Short Break
Thin films, Coated conductors-II	IO-21	11:10-11:30	Invited, Fang Liu Recent process in the development of Fe(Se, Te) insert coil
	CO-12	11:30-11:45	Matteo Cialone Innovative buffer layer for simplified and cost-effective Fe(Se,Te) coated conductors
	IO-22	11:45-12:05	Invited, Jun-Yi Ge Key factors affect the growth of FeSeTe coated superconductors
		12:05-13:50	Lunch
Thin films, Coated conductors-III	CO-13	13:50-14:05	Qiao Sun The Tuning of the Phase Separation and its Effect on Superconducting Performance in Fe(Se, Te)
Fundamentals-V/ Materials-III	IO-24	14:05-14:25	Invited, Shigeru Kasahara Multiple Superconducting Phases in Tetragonal FeSe _{1-x} S _x
	IO-25	14:25-14:45	Invited, Soon-Gil Jung Distinct Evolution of Critical Current under Pressure in Quantum Critical Superconductors Ce(Rh/Co)In ₅
		14:45-15:00	Break
Fundamentals-VI/ Materials-IV	IO-26	15:00-15:20	Invited, Kenichiro Hashimoto Bogoliubov Fermi surface in the superconducting tetragonal Fe(Se,S)
	IO-27	15:20-15:40	Invited, Yuta Mizukami Evolution of transport and thermodynamic properties in FeSe _{1-x} Te _x superconductors
	IO-28	15:40-16:00	Invited, Hiraku Ogino Single crystal growth and superconducting properties of iron-based superconductors with complex structures
		16:00-16:10	Closing

	: Plenary talk
	: Invited talk
	: Contributed talk