

KU-VUW Joint Workshop 2023 Program (Final version)

Day of week	No.	Start time	End time	Presenter's name	Affiliation	Title of talk
Session chair (Opening - Thu-a4): Nick Long						
Thu		9:15	9:30	Naoyuki Amemiya	KU	Opening
Thu	a1	9:30	10:00	Rod Badcock	VUW	Aircraft electrification: measurements on cryogenic and superconducting systems for power generation and propulsion
Thu	a2	10:00	10:30	Zhenan Jiang	VUW	Simulation of AC loss in the armature windings of all-HTS motors with various (RE)BCO conductor considerations and different pole shapes
Thu	a3	10:30	11:00	James Rice	VUW	Current sharing in a stacked-tape HTS transformer secondary
Thu	a4	11:00	11:30	Naoyuki Amemiya	KU	Needs for high current HTS cables and a novel concept at Kyoto University
Thu		11:30	12:45			Lunch break
Thu		12:45	13:00			Group photo
Session chair (Thu-p1 - Thu-p4): Shingo Yonezawa						
Thu	p1	13:00	13:30	Kai Chen	VUW	Exploring next-gen optoelectronics: leveraging ultrafast spectroscopy for advanced material analysis
Thu	p2	13:30	14:00	Shigeki Takeuchi	KU	Quantum information technologies using photons - entangled photon sources, single light emitters, and their applications -
Thu	p3	14:00	14:30	Hyungdo Kim	KU	Factors determining the fill factor in polymer/polymer blend solar cells
Thu	p4	14:30	15:00	Itsuhiro Kakeya	KU	Synchronized terahertz radiation from coupled intrinsic Josephson junction stacks
Thu		15:00	15:15			Tea break
Session chair (Thu-p5 - Thu-p8): Simon Granville						
Thu	p5	15:15	15:45	Yuichi Shimakawa	KU	Functional properties of charge-transition oxides
Thu	p6	15:45	16:15	James Storey	VUW	Thermodynamics of the pseudogap state in cuprates
Thu	p7	16:15	16:45	Kenji Ishida	KU	Spin triplet superconductivity observed in uranium compounds
Thu	p8	16:45	17:15	Shingo Yonezawa	KU	Unconventional superconductivity with novel in-plane anisotropies
Thu		19:00				Dinner at Four Season's Restaurant Hamacho
Session chair (Fri-a1 - Fri-a4): Masashi Shiraishi						
Fri		8:30	9:30	Lab tour		Yonezawa Lab.
Session chair (Fri-a1 - Fri-a4): Masashi Shiraishi						
Fri	a1	9:30	10:00	Nick Long	VUW	Isotropic and non-isotropic enhancements of the pinning landscape through ion irradiation
Fri	a2	10:00	10:30	Nick Strickland	VUW	Design and development of a 0.3 T HTS magnet for space deployment
Fri	a3	10:30	11:00	Ulrich Zuelicke	VUW	Electric, magnetic and toroidal polarizations in crystals
Fri	a4	11:00	11:30	Tomoya Asaba	KU	Growth of self-integrated atomic quantum wires and junctions of a Mott semiconductor
Fri		11:30	13:00			Lunch break
Session chair (Fri-p1 - Fri-p4): Ulrich Zuelicke						
Fri	p1	13:00	13:30	Teruo Ono	KU	Superconducting diode effect
Fri	p2	13:30	14:00	Yueming Sun	VUW	Dynamic resistance and total loss in coated conductors/stacks/coils
Fri	p3	14:00	14:30	Simon Granville	VUW	Topological electronic transport properties of magnetic Weyl semi-metal Co₂MnGa
Fri	p4	14:30	15:00	Masashi Shiraishi	KU	Spintronic functions in topological quantum materials
Fri		15:00	15:15			Tea break
Session chair (Fri-p5 - Closing): Naoyuki Amemiya						
Fri	p5	15:15	15:45	Yoichi Yanase	KU	Intrinsic superconducting diode effect
Fri	p6	15:45	16:15	Yusuke Sogabe	KU	Numerical electromagnetic field analyses of spiral HTS coated conductor cables
Fri		16:15	16:30	Nick Long	VUW	Closing