

MANA Symposium 2025 Program As of July 30, 2025

*Please note that the scheduled time and title is subject to change.

2025/10/15 (Wed)				
18:00 - 20:00		Reception		Hotel Nikko Tsukuba
Day1: 2025/10/16 (Thu)	No	Session	Lecture Title	Speaker
9:00 - 9:05	OS1	Welcome Address		Takashi Taniguchi
9:05 - 9:10	OS2	Greetings		Kazuhiro Hono
9:10 - 9:50	PT	Plenary Talk	thermal materials	Gang Chen
9:50 - 10:10	B	Group Photo & Coffee Break		
10:10 - 10:40	S1	Thermal Materials I	Spin caloritronics: from fundamentals to applications	Ken-ichi Uchida
10:40 - 11:10	S1		Electrons and Phonons in Chiral Materials	Yoshihiko Togawa
11:10 - 11:35	S1		High-Field Exploration of Multivalley Interactions Driving Ising Superconductivity	Igor Solovyev
11:35 - 11:55	S1		Development of spin-orbit-entangled quantum magnets	Tomohiro Takayama
11:55 - 13:15	B	Lunch		
13:15 - 13:45	S2	Quantum Materials I	Majorana fermion origin of the thermal Hall effect in a Kitaev magnet	Yuichi Kasahara
13:45 - 14:15	S2		Bogoliubov quasiparticle interference in transition metal dichalcogenide superconductors	Tadashi Machida
14:15 - 14:40	S2		Numerical Spectroscopy for Entangled Electrons in Quantum Materials	Youhei Yamaji
14:40 - 15:00	S2		Physics and engineering of quantum devices in 2D materials	Shuichi Iwakiri
15:00 - 15:15	B	Coffee Break		
15:15 - 15:45	S3	Advanced Characterization	Simultaneous Characterization of Elemental, Chemical, and Magnetic Properties of Individual Atoms using X-Excited state formation in a single molecule with terahertz-induced ultrafast charge transfer	Saw-Wai Hla
15:45 - 16:15	S3		Quantum coherence at decorated solid surfaces	Ikufumi Katayama
16:15 - 16:40	S3		Strong light-molecule interactions and sensing on silicon metastructures	Ryuichi Arafune
16:40 - 17:00	S3			Keisuke Watanabe
		Introduction of ICYS --> Poster Session		
17:00 - 18:30	PS	Poster Session		
18:30 - 20:00		Banquet		

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Day2: 2025/10/17 (Fri)	No.	Session	Research Topic (Original)	Speaker
9:00 - 9:40	PT	Plenary Talk	Superconducting diode effect	Teruo Ono
9:40 - 9:55	B	Coffee Break		
9:55 - 10:25	S4	Quantum Materials II	High-Field Exploration of Multivalley Interactions Driving Ising Superconductivity	Oleksandr Zheliuk
10:25 - 10:55	S4		Geometric photovoltaic effect by quasiparticle excitations below electronic band gap	Takahiro Morimoto
10:55 - 11:25	S4		Quantum critical fluctuations in two-dimensional superconductors probed by the Nernst effect	Koichiro Ienaga
11:25 - 11:45	S4		Superconductivity and Size effect in Graphene Intercalation Compounds	Satoru Ichinokura
11:45 - 13:15	PS	Lunch		
13:15 - 13:45	S5	Quantum Materials III	Quantum Optics in Two-dimensional semiconductors and van der Waals structures as Emerging Quantum Materials	Kazunari Matsuda
13:45 - 14:15	S5		Exotic Quantum Phenomena in Moiré Materials	Mikito Koshino
14:15 - 14:40	S5		Infrared nano-spectroscopy of nitride semiconductors	Satoshi Ishii
14:40 - 15:00	S5		Quantum transport in graphene moiré superlattices	Takuya Iwasaki
15:00 - 15:15	B	Coffee Break		
15:15 - 15:45	S6	Thermal Materials II	Nonreciprocal thermal and electrical responses in helimagnets	Yoshinori Onose
15:45 - 16:15	S6		Thermal photophysics in carbon nanotubes	Yuhei Miyauchi
16:15 - 16:40	S6		High-pressure synthesis and properties of A-site columnar-ordered perovskites	Alexei Belik
16:40 - 17:00	S6		Distorted local structures as a route to intrinsically glass-like thermal conductivity	Naoki Sato
17:00 - 17:15	CS	Closing Session		