

Quantum Sensing

Presentation ID	Registration No.	Category	Date	Time	Venue	Room	Abstract Title	Name	Affiliation Name	Country
PO-SE-001	6194615	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Realization of high-resolution quantum infrared spectroscopy with pulsed laser excitation	Jasleen Kaur	Kyoto University	Japan
PO-SE-002	6195364	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Active Magnetic Shielding Adapted to Sensor Pose for OPM-MEG Validated with a Dry Phantom	Xinyu Cao	the University of Tokyo	Japan
PO-SE-003	6196074	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Experimental Validation of the Superiority of Cylinder Sensor Arrays in Cardiac Current Source Estimation	Wenyu Shang	The University of Tokyo	Japan
PO-SE-004	6196183	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Development of Compact Low-Field MRI Based on Quantum Spintronic Tunnel Magneto-resistive Sensors	Seiya Takano	Graduate School of Engineering, Tohoku Univ.	Japan
PO-SE-005	6196276	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Non-destructive Metal Particle Inspection Using Diamond Quantum Sensors	Hayate Yamano	Toyota Motor Corporation	Japan
PO-SE-006	6196441	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Magnetic sensing with NV centers in detonation nanodiamond	Masanao Ohori	Institute for Chemical Research, Kyoto University	Japan
PO-SE-007	6196457	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Development of quantum sensing NMR using diamond NV centers for biomolecular measurements	Kazuki Kondo	Institute for Chemical Research, Kyoto University	Japan
PO-SE-008	6196462	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Efficient and polarization-dependent coupling between nitrogen-vacancy centers and microwave based on spoof surface plasmon polaritons	Kosuke Takada	Toyohashi University of Technology	Japan
PO-SE-009	6196590	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Evaluation of internal stress in phosphorus-doped diamond for quantum sensors	HIromu Nakagawa	Institute for Chemical Research, Kyoto University	Japan
PO-SE-010	6197130	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Development of gravity gradient sensor TOBA; TORSion Bar Antenna	Tatsuya Sugioka	University of Tokyo	Japan
PO-SE-011	6197139	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Excitation wavelength dependence of photocurrent from a single V2 center in 4H-SiC	Kazuki Okajima	Institute for Chemical Research, Kyoto University	Japan
PO-SE-012	6198922	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Antibunching measurements of blue fluorescence protein at room temperature	Yusuke Murase	Shimizu Laboratory, The University of Electro-Communications	Japan
PO-SE-013	6198964	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Hybrid spectroscopy of visible and telecom band entangled photons	Koya Onoda	Department of Engineering Science, the University of Electro-Communications	Japan
PO-SE-014	6200069	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Fluorescent Thermometers Based on Carbon Quantum Dots with Various Detection Modes for Intracellular Temperature Measurement	Yuki S. Kato	Department of Biological Sciences, School of Science, The University of Osaka	Japan
PO-SE-015	6200379	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Development of Single Photon Confocal Spectral Microscopy with Transition Edge Sensors	Koki Shirota	National institute of Advanced Industrial Science and Technology (AIST)	Japan
PO-SE-016	6201476	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Orders-of-magnitude improved precision spectroscopy of an inner-shell orbital clock transition in neutral ytterbium	Taiki Ishiyama	Department of Physics, Graduate School of Science, Kyoto University	Japan
PO-SE-017	6204525	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Design of Magnetic Flux Concentrators For Human Magnetoencephalography By Diamond Quantum Magnetometer	Tingyu Zhu	The University of Tokyo	Japan
PO-SE-018	6204566	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Evaluation of the relationship between the position of photon incidence and TES response	Nao Kominato	AIST	Japan
PO-SE-019	6205263	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Filtered Boxcar-Averaging Detection of Diamond NV Ramsey-based Magnetometry for Enhancing DC Field Sensitivity	Yuta Araki	Institute of Science Tokyo	Japan
PO-SE-020	6205327	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Proof-of-principle demonstration of simultaneous AC magnetic field and temperature imaging by scanning NV center microscopy	Shuntaro Komuro	School of Fundamental Science and Technology, Keio University, Japan	Japan
PO-SE-021	6205834	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Sensing via the nuclear spin for axion dark matter detection	Ernst David Herbschleb	Kyoto University	Japan
PO-SE-022	6206240	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Visualization of Microglial Phenotypic Changes Using P2Y12 Receptor-Targeted Compound in Two Photon Imaging and MRI	Yutaro Saito	Department of Anatomy and Molecular Cell Biology, Nagoya University Graduate School of	Japan
PO-SE-023	6206459	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Magnetoencephalographic Mapping of Optogenetic Rats Using Optically Pumped Magnetometer	Kanta Komuro	Graduate School of Engineering, The University of Tokyo	Japan
PO-SE-024	6206472	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Analysis of FAD binding affinity for chicken cryptochrome 1 and its mutant	Shota Hosono	Okano Laboratory, Waseda University	Japan

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PO-SE-025	6206545	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Simultaneous wide-field imaging of AC current and temperature with diamond quantum sensor for microcircuit analysis	Yuma Itabashi	Keio University	Japan
PO-SE-026	6206557	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Analysis of electron spin single / double resonance signals in ensemble NV center systems focusing on inhomogeneous broadening	Rui Suzuki	Keio University	Japan
PO-SE-027	6206613	Quantum Sensing	Jul 29	17:10-18:30	Poster 1	Park Hall 1+2	Development of a fiber bundle-based spectral imaging system for all-optical thermometry using diamond NV- centers	Daiki Ueshima	Department of Mechanical Engineering and Science, Graduate School of Engineering,	Japan
PO-SE-028	6206786	Quantum Sensing	Jul 30	17:10-18:30	Poster 1	Park Hall 1+2	Bright Single Lead-Vacancy Center in Diamond Solid Immersion Lens	Koyo Hirai	Institute of Science Tokyo	Japan
PO-SE-029	6187490	Quantum Sensing	Jul 29	17:10-18:30	Poster 4	Corridor to Grand Hall	Tunnel-magnetoresistance sensor with enhanced sensitivity by using Ta-doped CoFeSiB soft magnetic layer	Takafumi Nakano	Tohoku University	Japan
PO-SE-030	6191754	Quantum Sensing	Jul 29	17:10-18:30	Poster 4	Corridor to Grand Hall	A Prototype Micro-Module for Tunnel Magnetoresistance Sensors	Takahide Kubota	Tohoku University	Japan
PO-SE-031	6192426	Quantum Sensing	Jul 29	17:10-18:30	Poster 4	Corridor to Grand Hall	Potential of two-dimensional fluorescence spectroscopy with entangled photons	Yuta Fujihashi	The University of Tokyo	Japan
PO-SE-032	6194361	Quantum Sensing	Jul 29	17:10-18:30	Poster 4	Corridor to Grand Hall	Highly efficient exciton-exciton annihilation in single conjugated polymer chains	Nicola Jane Fairbairn	The University of Electro-Communications, Tokyo	Japan
PO-SE-033	6196461	Quantum Sensing	Jul 29	17:10-18:30	Poster 4	Corridor to Grand Hall	Single tin-vacancy center in nanodiamond synthesized via detonation process	Masanori Fujiwara	Institute for Chemical Research, Kyoto University	Japan
PO-SE-034	6196477	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Electric field strength measurement in THz frequency region using THz quantum transitions in Cs Rydberg-atoms	Motohio Kumagai	NICT	Japan
PO-SE-035	6196483	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Sensitivity enhancement with nitrogen-vacancy centre pairs	Ernst David Herbschleb	Kyoto University	Japan
PO-SE-036	6196506	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Architecture of network redundancy for optical frequency reference distribution using optical lattice clocks	Hiromitsu Imai	NTT Basic Research Laboratories, NTT corporation	Japan
PO-SE-037	6196583	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Hyperpolarized MRI theranostics of cancer	Yoichi Takakusagi	National Insitutes for Quantum Science and Technology (QST)	Japan
PO-SE-038	6196682	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Optimal laser power and time duration for Photocurrent-based AC magnetometry	Ei Shigematsu	Kyoto University	Japan
PO-SE-039	6196774	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Theoretical Study on Decay of Quantum Resources in Triplet-Pair System Generated by Singlet Fission	Hajime Miyamoto	Center for Quantum Information and Quantum Biology (QIQB), The University of Osaka	Japan
PO-SE-040	6196796	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Real-Time Monitoring of Hydrolysis Reactions of Pyrophosphates towards elucidating Quantum Dynamical Selection	Jun Fukazawa	Center of Quantum Information and Quantum Biology, The University of Osaka	Japan
PO-SE-041	6196873	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Optimization of diamond surface spin density for NV-NV entangled sensing.	Kosuke Kimura	QST	Japan
PO-SE-042	6196943	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Cryogenic signal processor for two-photon interference based on superconducting nanostrip single photon detectors	Shigeyuki Miyajima	National Institute of Information and Communications Technology	Japan
PO-SE-043	6197000	Quantum Sensing	Jul 29	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Magnetic field mapping of ferromagnetic nanowindows using NV-diamond magnetometry	Koki Takano	Tohoku University	Japan
PO-SE-044	6197258	Quantum Sensing	Jul 30	17:10-18:30	Poster 4	Corridor to Grand Hall	Efficient photoelectric single-spin detection in silicon carbide	Tetsuri Nishikawa	Kyoto University	Japan
PO-SE-045	6198113	Quantum Sensing	Jul 30	17:10-18:30	Poster 4	Corridor to Grand Hall	Measurement of the time-resolved second-order correlation function in the two-dimensional time domain	Ozora Iso	The University of Electro-Communications	Japan
PO-SE-046	6199054	Quantum Sensing	Jul 30	17:10-18:30	Poster 4	Corridor to Grand Hall	Development of milligram-scale optomechanical torsion pendulum : Towards quantum noise-level sensitivity II	Ryosuke Sugimoto	The University of Tokyo	Japan
PO-SE-047	6199570	Quantum Sensing	Jul 30	17:10-18:30	Poster 4	Corridor to Grand Hall	Analyzing the photoactivation mechanism of photoactivated adenylate cyclase OaPAC by hybrid QM/MM simulation	Masahiko Taguchi	Tohoku University	Japan
PO-SE-048	6203653	Quantum Sensing	Jul 30	17:10-18:30	Poster 4	Corridor to Grand Hall	Ultrafast biphoton time-frequency characterization with dual-comb-based optical sampling	Prasad Koviri	The University of Electro-Communications	Japan

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PO-SE-049	6206918	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	A Wide Class of Quantum States that Surpass the SQL of Metrology	Mamiko Tatsuta	Chuo University	Japan
PO-SE-050	6204600	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Development of Multiplexed Superconducting Single Photon Detectors System	Shuhei Oba	Hamamatsu Photonics K.K.	Japan
PO-SE-051	6206696	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	On-Chip Electron Spin Resonance Characterization of Surface Paramagnetic Defects on Superconducting Qubits	Yuki Nakashima	National Institute of Advanced Industrial Science and Technology (AIST)	Japan
PO-SE-052	6204564	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Molecular dynamics analysis of photoredox cycle-associated structural changes of cryptochrome 4, a candidate protein for magnetoreception	Naoki Kimata	Waseda University	Japan
PO-SE-053	6204942	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Photoelectrical response of divacancy-related defects in 4H-SiC	Naoya Morioka	Kyoto University	Japan
PO-SE-054	6206529	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Wavelength-division multiplexing of polarization-entangled photon source	Tomoya Okita	University of Electro-Communications	Japan
PO-SE-055	6206649	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	1H Polarization above 60% at room temperature by Triplet Dynamic Nuclear Polarization	Kenichiro Tateishi	RIKEN	Japan
PO-SE-056	6206816	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	Heisenberg Limit of Interferometer Revisited	Masahiro Kitagawa	The University of Osaka	Japan
PO-SE-057	6206946	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	NV center engineering of nanodiamond by high temperature electron irradiation	Hiroshi Abe	National Institutes for Quantum Science and Technology (QST)	Japan
PO-SE-058	6206977	Quantum Sensing	Juy 30	17:10-18:30	Poster 5	Lobby in front of Grand Hall	MTJs with low 1/f noise fabricated by MBE technique	Takayuki Hojo	Graduate School of Engineering, Tohoku University	Japan