The 10th QST International Symposium

Quantum Sensing and Frontier Sciences for Future Society

Q-FUTURE

2026

Program Book

Social Implementation of Quantum Technology
and the Deepening of International Collaboration

17–19 November 2026

Ochanomizu Sola City, Tokyo, Japan

Pre-Symposium Workshop: 16 November 2026

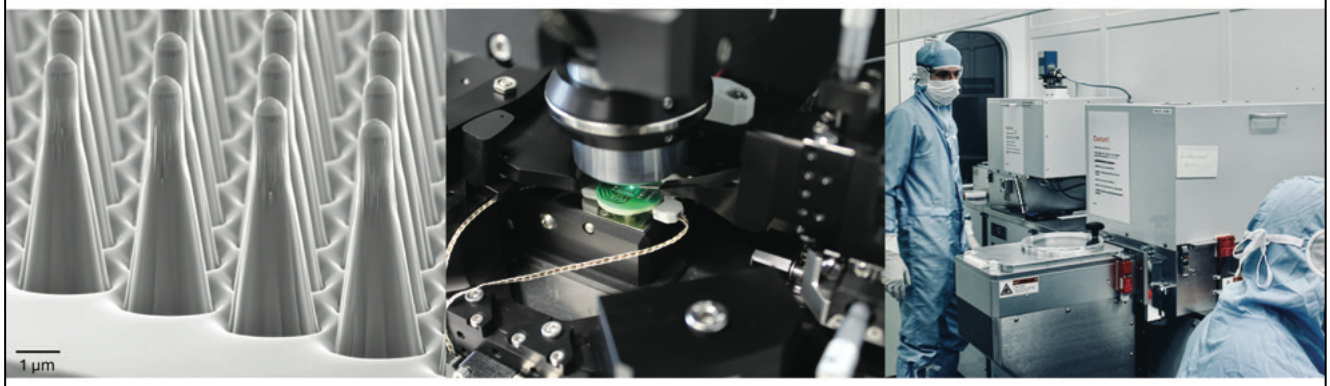
Organized by National Institutes for Quantum Science and Technology (QST)



Qnami

a Quantum Design company

Advancing color-center research and the development of next-generation quantum sensors.



Diamond Fabrication

Through the Quantum Foundry, researchers gain access to advanced, application-oriented diamond solutions for color-center and quantum-sensing research.

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Qnami provides NV-based systems and tools for implementing, exploring, and validating quantum-sensing experiments.

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Qnami, a Quantum Design company, brings together world-class diamond fabrication and quantum-sensing instrumentation.

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Learn more about the full suite of instruments offered by Quantum Design Japan.

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SUMITOMO ELECTRIC
Connect with Innovation

Quantum Sensor Module Using Diamond NV Center

Material

SUMITOMO ELECTRIC

Properties 物性

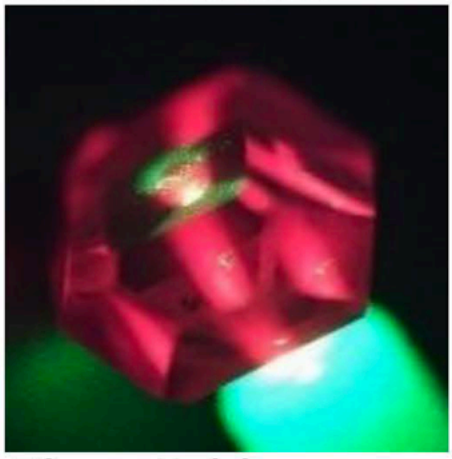
High Pressure- High Temperature Synthetic Diamonds

- **Low crystal defects**
  低結晶欠陥・低歪
- **N concentration control**
  窒素濃度制御
  ➤Type IIa : Transparent, Low Nitrogen Content
  ➤Type Ib : Yellow, High Nitrogen Content
  ➤NV center : Red, Paired Nitrogen and Vacancy
- **^{12}C enriched**
  同位体濃度制御

■Synthetic Diamond



■Diamond NV Center



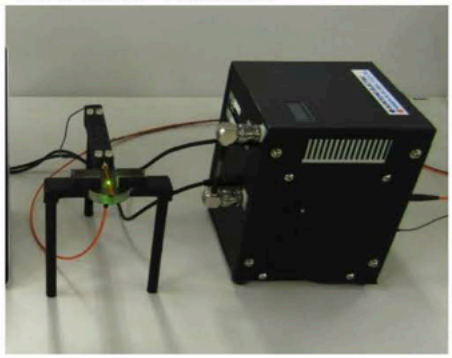
Module

NISSIN ELECTRIC

Specifications 仕様

- **Size:** 12 x 12 x 16 cm^3
- **Weight:** 1.1 kg
- **Power:** 4W, USB-Powered, No External Supply
- **Operating Mode:**
  CW-ODMR, Pulsed-ODMR,
  Rabi, Ramsey, Hahn-Echo
  CPMG-N, XY8-N

■Sensor Module



Message

ダイヤモンドと量子制御技術で、量子技術を次のステージへ。

Advancing quantum technologies with diamond and quantum control.

https://sumitomoelectric.com/

SUMITOMO ELECTRIC GROUP

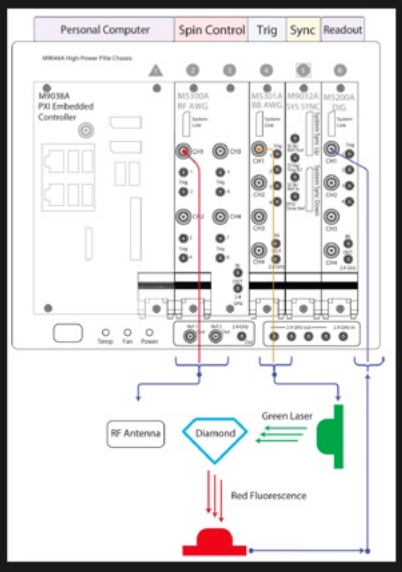
KEYSIGHT

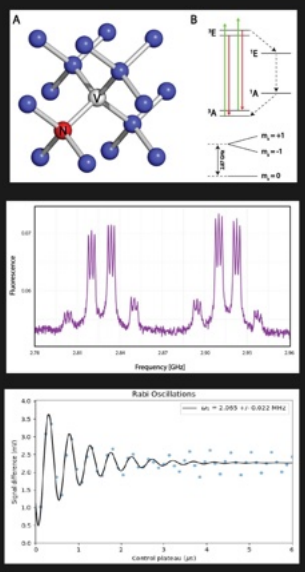
M5000 Series PXIe RF AWG / Digitizers for Quantum Applications

Fully Synchronized, Phase Coherent RF AWGs with Direct Digital Synthesis (DDS) technology.

- No External Mixers, No Local Oscillators, No I/Q Mixer Calibrations







Application Note “Quantum Control of NV Center Ensembles”



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DC to 16 GHz, 2 GHz BW, 4 Channels

M5301A 14-bit Baseband AWG
DC to 400 MHz, 4 Channels

M5200A 12-bit Digitizer
4.8 GSa/s, 2 GHz BW, 4 Channels

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About Q-FUTURE 2026

Q-FUTURE 2026 is the 10th QST International Symposium on “Quantum Sensing and Frontier Sciences for Future Society.” The symposium focuses on cutting-edge topics including quantum sensing, quantum materials, and quantum life science.

Item	Information
Date	17–19 November 2026
ASPIRE Joint Technical Training Workshop	16 November 2026
Venue	Ochanomizu Sola City, Tokyo, Japan
Organizer	National Institutes for Quantum Science and Technology (QST)
Language	English

Program at a Glance

Tuesday, 17 November: Opening; Plenary Talk 1; Invited Session 1: Quantum Materials; Invited Session 2: Quantum Life Science I; Poster Session

Wednesday, 18 November: Plenary Talk 2; Invited Session 3: Quantum Life Science II; Invited Session 4: Advanced Technologies for Future Quantum Science; Invited Session 5: Quantum Sensing; Corporate Exhibition and Poster Session; International Networking Meeting

Thursday, 19 November: Plenary Talks 3 & 4; Invited Session 6: Quantum Interfaces and Single-Photon Sources; ASPIRE Early-Career Researchers Organized Session; Closing

Access





2F
- sola city Hall
- Terrace Room

1F
- Room A・B・C・D
- Conference Center Office

JR Sōbu Line・Chuō Line Ochanomizu Station
Video guide to the venue

Tokyo Metro Chiyoda Line Shin-ochanomizu Station
Video guide to the venue

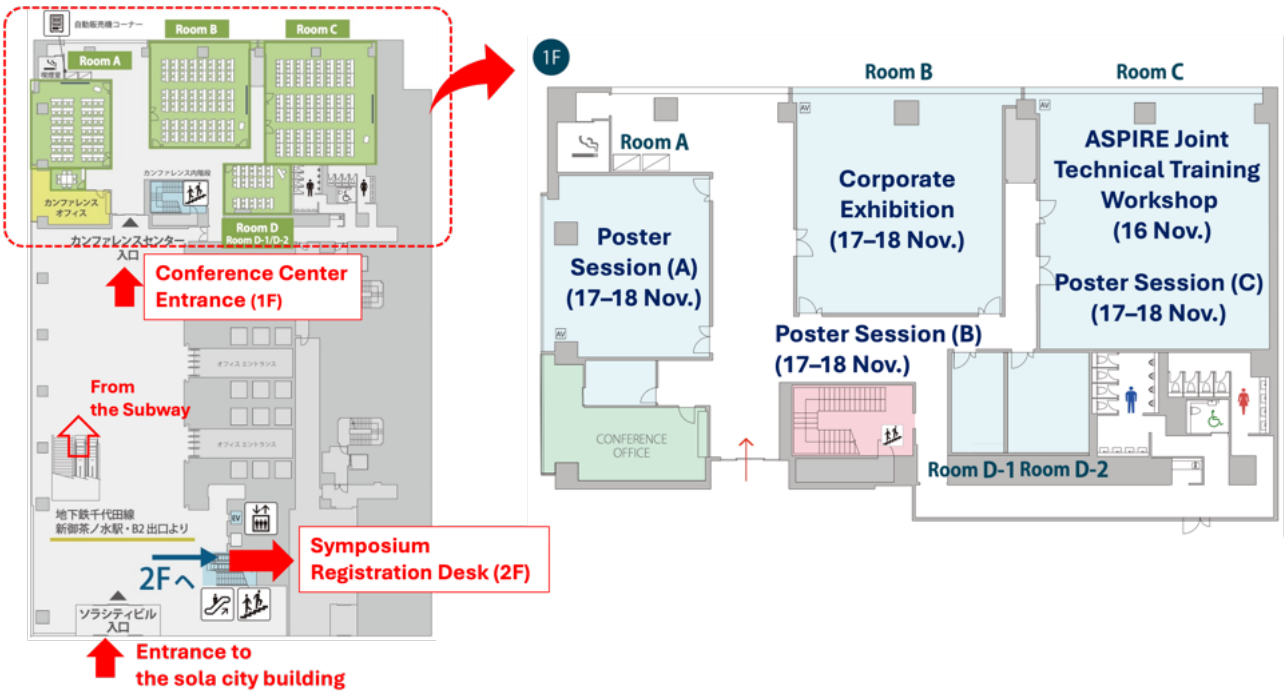
Tokyo Metro Marunouchi Line Ochanomizu Station
Video guide to the venue

Floor Map

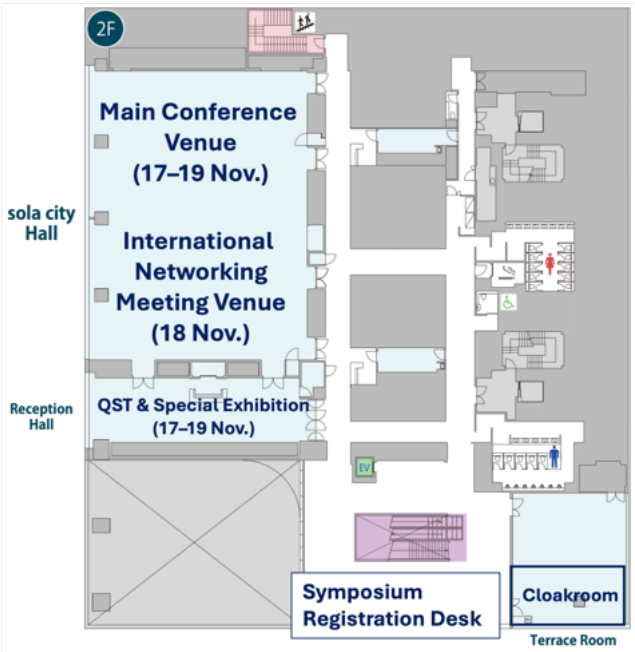
Notes

- Registration is located on the 2nd floor of the sola city Conference Center. Please proceed to the registration desk upon arrival.
- Poster sessions and the Corporate Exhibition are held on the 1st floor.
- The Main Conference Venue, Cloakroom, Registration Desk, and QST & Special Exhibition are located on the 2nd floor.
- The International Networking Meeting will be held on the 2nd floor on 18 November.
- Please follow the venue signage and staff instructions when moving between the 1st and 2nd floors.

sola city Conference Center – 1st Floor Map



sola city Conference Center – 2nd Floor Map



Detailed Program

ASPIRE Joint Technical Training Workshop: Monday, 16 November 2026

ASPIRE Joint Technical Training Workshop
- DIAMONDQTECH & Creation of Exotic Quantum Materials -

14:00–15:00

Fedor Jelezko | Ulm University

From Defects to Qubits: Fundamentals of Diamond NV Centers

15:00–16:00

Fedor Jelezko | Ulm University

Quantum Sensing with NV Centers: Applications and Future Frontiers

16:00–16:30

Takafumi Sato | Tohoku University

Nano- and Spin-Resolved Spectroscopy of Quantum Materials

Day 1: Tuesday, 17 November 2026

Registration

08:30– Registration opens

Opening

Chair: Takeshi Ohshima (QST)

09:30–09:40 Opening Remarks

Teruyuki Hakoda | Chair of the Organizing Committee, Q-FUTURE 2026; Director General, Takasaki Institute for Advanced Quantum Science, QST

09:40–09:50 Welcome Remarks

Shigeo Koyasu | President, QST

09:50–10:00 Guest Remarks

Atsuyuki Asano | Director-General, Research Promotion Bureau, MEXT

10:00–10:10 Guest Remarks

Oliver Pieper | First Secretary for Science and Technology, Embassy of Germany in Japan

10:10–10:20 Guest Remarks

Katsuya Oguri | Chair, Q-STAR Quantum MDS Division (NTT)

Plenary Talk 1

Chair: Shinobu Onoda (QST)

10:20–10:30 Introduction

Shinobu Onoda | QST

Opening Remarks

10:30–11:20 Plenary Talk 1

Shigeki Takeuchi | Kyoto University

Photonic Quantum Sensing Using Entangled Photons

Session 1: Quantum Materials

Chair: Yuichi Yamazaki (QST)

13:00–13:30 Invited Talk

Fedor Jelezko | Ulm University

Coherent Control of Diamond Spin Qubits for Quantum Sensing and Hyperpolarization

13:30–14:00 Invited Talk

Hiromitsu Kato | AIST

CVD Diamond Growth and Defect Engineering for NV-Based Quantum Sensors

14:00–14:30 **Invited Talk**

Mark Newton | University of Warwick

Progress Towards Engineering Useful Functional Defects with Optimized Quantum Properties into Diamond

14:30–15:00 **Invited Talk**

Takeshi Ohshima | QST

Functionalization of Wide Bandgap Semiconductors Using Particle Irradiation for Quantum Technologies

Session 2: Quantum Life Science I

Chairs: Yoichi Takakusagi (QST) and Kiminori Maeda (Saitama University)

15:30–16:00 **Invited Talk**

David Simpson | University of Melbourne

Diamond Quantum Sensors for the Life Sciences

16:00–16:30 **Invited Talk**

Nobuhiro Yanai | The University of Tokyo

Molecular Quantum Nanosensor (MoQN)

16:30–17:00 **Invited Talk**

Yoichi Takakusagi | QST

Dynamic Nuclear Polarization for Quantum-Enhanced Metabolic Imaging and Future Healthcare

17:00–17:30 **Invited Talk**

Toru Kondo | National Institute for Basic Biology

Ultrafast Photosynthetic Light Harvesting in Self-Assembled Excitonic Pigment Aggregates

Poster Session 1

Chair: Yosuke Yuri (QST)

17:30–19:30 **Poster Session 1 & Corporate Exhibition**

Room A, B & C

Day 2: Wednesday, 18 November 2026

Plenary Talk 2
Chair: Ryuji Igarashi (QST)

08:30– **Registration opens**

09:10–10:00 **Plenary Talk 2**

Alex R. Jones | National Physical Laboratory

Animal Magnetoreception: Nature's Quantum Sensor?

Session 3: Quantum Life Science II
Chairs: Kiminori Maeda (Saitama University) and Yoichi Takakusagi (QST)

10:00–10:30 **Invited Talk**

Kiminori Maeda | Saitama University

Direct Access to and Control over the Coherent Spin Dynamics of Radical Pairs

10:30–11:00 **Invited Talk**

Anke Krueger | University of Stuttgart

Tailored Diamond Materials for Quantum Sensing in the Life Sciences and beyond

11:00–11:30 **Invited Talk**

Hitoshi Ishiwata | QST

Multiplatform Quantum Sensing for Quantitative Biofunctional Imaging

Session 4: Advanced Technologies for Future Quantum Science
Chair: Shin-ichiro Sato (QST)

13:00–13:30 **Invited Talk**

Richard J. Curry | University of Manchester

Quantum Defect Fabrication Using Nanoscale Engineering Technologies

13:30–14:00 **Invited Talk**

Andy Sayers | Phasor Quantum

NV-Diamond Vector Magnetometry and Tensor Gradiometry for Navigation

14:00–14:30 **Invited Talk**

Felipe Favaro de Oliveira | Qnami, Quantum Design SA

Two Sides of the Same Diamond: Bridging Sensors Integration through Diamond Device Engineering

Session 5: Quantum Sensing
Chair: Hiroki Morishita (Tohoku University)

15:00–15:30 **Invited Talk**

Vadim Vorobyov | University of Stuttgart

Nuclear-Spin Registers and Electrically Controlled Nanophotonics for V2 Centers in Silicon Carbide

15:30–16:00 **Invited Talk**

Junko Ishi-Hayase | Keio University

Simultaneous Imaging of MHz-Range Magnetic Fields and Temperature with RF-Dressed NV Electron Spins

16:00–16:30 **Invited Talk**

Takashi Tanii | Waseda University

Application of Maximum Likelihood Estimation for Quantum Sensing with Single Nitrogen-Vacancy Centers in Diamond

16:30–17:00 **Invited Talk**

Yuichi Yamazaki | QST

High Electric Field Detection in a SiC Power Device by Quantum Sensors

Move to the Poster & Exhibition Area (1F)

Corporate Exhibition & Poster Session 2

Chairs: Toshihisa Hatano and Yosuke Yuri (QST)

17:00–18:00 **Corporate Exhibition & Poster Session 2**

Room A, B & C

Move to the 2nd floor

International Networking Meeting

Chair: Takeshi Ohshima (QST)

18:30–20:30 **International Networking Meeting**

sola city Hall

Day 3: Thursday, 19 November 2026

Plenary Talks 3 and 4
Chair: Takeshi Ohshima (QST)

08:30– Registration opens

08:40–09:30 Plenary Talk 3

Dmitry Budker | Johannes Gutenberg University Mainz

Sensing with Diamond: Skyrmions, Superconductors, Muclear Magnetic Resonance, Biomagnetic Fields...

09:30–10:20 Plenary Talk 4

Christoph Becher | Saarland University

Color Centers in Diamond for Quantum Networks

Session 6: Quantum Interfaces and Single-Photon Sources
Chair: Takashi Tanii (Waseda University)

10:30–11:00 Invited Talk

Hideo Kosaka | Yokohama National University

Diamond-based Quantum Interconnects: Toward Hybrid Quantum Networks

11:00–11:30 Invited Talk

Takayuki Iwasaki | Institute of Science Tokyo

Group-IV Vacancy Color Centers in Diamond Toward Quantum Network Nodes

11:30–12:00 Invited Talk

Shin-ichiro Sato | QST

Nanophotonic Enhancement of Emission from Implanted Lanthanide Ions in Gallium Nitride

Session 7: ASPIRE Early-Career Researchers Organized Session
Chairs: Moriyoshi Haruyama (AIST) and Yutaka Shikano (University of Tsukuba)

13:30–13:40 Introduction

Moriyoshi Haruyama | AIST / Yutaka Shikano | University of Tsukuba

Introduction to the ASPIRE Young Researchers Session / Next-Generation ASPIRE

13:40–14:10 Talk

Keigo Arai | Institute of Science Tokyo

Diamond as a Quantum Informatics Playground: Electronics, Materials, and Sensing

14:10–14:40 Talk

Tim Schroeder | The Humboldt-University of Berlin, Germany

Diamond Nanophotonic Spin-Photon Interfaces for Quantum Networking

14:40–15:00 Talk

Simon Gregor Walliser | Ulm University

Anisotropic Relaxation and Coherent Control of GeV Spin Qubits in Diamond

15:00–15:20 **Talk**

Biswajit Biswas | QST

Engineered Hybrid Diamond Qubits ^{15}NV-^{13}C: via Energy Optimized L-Arginine Molecular Ion Implantation

15:20–15:40 **Talk**

Sara Mandic | Okayama University

Accelerating Lipid Metabolism in C. elegans Using Nanodiamond-Based Quantum Thermometry-Controlled Temperature Modulation

15:40–16:00 **Talk**

Taisuke Kageura | AIST

Growth of Ultrathin Nitrogen-Doped Diamond Films Using Remote Plasma CVD Method for NV-Based Quantum Sensing

Closing

Chair: Shinobu Onoda (QST)

16:00–16:10 **Poster Award Ceremony**

Tetsuya Kawachi | Executive Officer, QST

16:10–16:20 **Closing Remarks**

Tetsuya Kawachi | Executive Officer, QST

Poster Presentations

Room A | Posters A-01 to A-36

★ Poster Award Applicant

No.	Presenter / Affiliation	Poster Title
A-01 ★	**Daichi Kaneko** National Institutes for Quantum Science and Technology (QST)	Direct Monitoring of Paraoxonase Activity In Vivo Using Hyperpolarized 13C-Chemical Shift Imaging
A-02	**Ryoma Kobayashi** National Institutes for Quantum Science and Technology (QST)	A 3D-Printed Bioreactor for Hyperpolarized Metabolic Measurements in Living Cells and Organoids
A-03	**Hiroki Hamaguchi** National Institutes for Quantum Science and Technology (QST)	Engineering Tissue and Organ Models for Microphysiological Systems
A-04 ★	**Min Soo Shin** University of Tsukuba	Metabolic and Structural Insights into C9orf72 PR20 Dipeptide Repeat Toxicity in a C. elegans ALS Model
A-05	**Guohua Shen** National Institutes for Quantum Science and Technology (QST)	Toward Decoding Visual Experience in Animals: Hierarchical Feature Decoding from Mouse Visual Cortex
A-06	**Noriyuki Bob Ouchi** National Institutes for Quantum Science and Technology (QST)	The Genome Tinkerer and Cellular Universality
A-07	**Tomoko Sunami** National Institutes for Quantum Science and Technology (QST)	Molecular Roles of Histone Chaperones MCM2 and FACT in Epigenome Inheritance Revealed by Optical Tweezers
A-08	**Kentaro Fujii** National Institutes for Quantum Science and Technology (QST)	Development of a Label-Free, Element-Selective Imaging System Using Synchrotron Radiation for Biomedical Applications
A-09	**Miho Noguchi** National Institutes for Quantum Science and Technology (QST)	Feasibility Study of Mitochondrial Iron Redox State Analysis Using NanoTerasu Synchrotron Radiation
A-10 ★	**Masaaki Seki** Chiba University	Probing Subcellular Environments in Live Mammalian Cells via Magnetic Field Effect of Protein Quantum Sensor
A-11	**Takeshi Yasuda** National Institutes for Quantum Science and Technology (QST)	Quantum-Level Influences on Hydrogen Transfer in Enzymatic Reactions and Their Ripple Effects on Biological Phenomena
A-12 ★	**Toshinori Ezawa** National Institutes for Quantum Science and Technology (QST)	Structural Insights into the Photoactivation Mechanism of OaPAC
A-13	**Sora Endo** Kanagawa Institute of Technology	Molecular Dynamics Simulation and Quantum Chemical Calculation to Investigate Possible Magnetoreception Function of Snow Leopard Cryptochrome 2
A-14 ★	**Masahiko Taguchi** Tohoku University	Elucidation on Reaction Mechanism of Terpene Cyclase CotB2 by Hybrid QM/MM Simulation
A-15 ★	**Abdul Nasir Kuzhiyan Thadathil** National Institutes for Quantum Science and Technology (QST)	Diamond Nanopillar Quantum Sensor for Label Free Detection of Free Radicals During Stem Cell Differentiation
A-16	**Tatsuhiko Imaoka** National Institutes for Quantum Science and Technology (QST)	In Vivo Thermometry of Rat Mammary Gland by Fluorescent Nanodiamond
A-17 ★	**Kento Nagata** National Institutes for Quantum Science and Technology (QST)	Measurement of Temperature and pH in Rat Mammary Glands Using Fluorescent Nanodiamonds
A-18	**Michiyo Suzuki** National Institutes for Quantum Science and Technology (QST)	Development of an In Vivo Quantum Sensing Method to Investigate the Effects of Heavy-Ion Microbeam Irradiation on Caenorhabditis elegans
A-19	**Kouichi Hosaka** National Institutes for Quantum Science and Technology (QST)	Ultrahigh-Precision Single-Ion Implantation System Based on Laser-Cooled Ion Source
A-20	**Masaaki Omichi** National Institutes for Quantum Science and Technology (QST)	Direct Depth-Resolved Dose Dosimetry in Cellulose via Pyrolysis for Low-Energy Electron-Beam Processing
A-21	**Hiroshi Akagi** National Institutes for Quantum Science and Technology (QST)	Research and Development Topics for the Laser Quantum Technology Research Project
A-22 ★	**Norihiro Oshime** National Institutes for Quantum Science and Technology (QST)	Fully Non-Destructive 3D Imaging of a Single Grain in Device-Scale Ferroelectric Ceramics

No.	Presenter / Affiliation	Poster Title
A-23	**Masato Koike** National Institutes for Quantum Science and Technology (QST)	Design and Evaluation of Soft X-ray Laminar-Type VLS Multilayer Spherical Diffraction Grating Designed for a Flat-Field Grating Spectrograph with Enhanced Spectral Flux in the 1–2 keV Region
A-24	**Morihisa Saeki** National Institutes for Quantum Science and Technology (QST)	Sulfur K-edge X-ray Absorption Spectroscopy of an Aqueous Solution of Na2Sn (n=2–4) in Atmospheric-Pressure Helium
A-25	**Hiroyuki Shimada** National Institutes for Quantum Science and Technology (QST)	Production and Characterization of Solid-State 133Ba Sources for Quantum Applications
A-26 ★	**Elizaveta Maksimova** Centre for Quantum Technologies, Singapore	Hybrid Atomic–Classical 3D Accelerometer: Horizontal-Axis Atom Interferometry and Vibration Phase-Noise Correction
A-27	**Andrey Jarmola** UC Berkeley	Diamond-Based Quantum Sensors: A Temperature-Insensitive Composite Clock and a Nuclear-Spin Gyroscope
A-28	**David Herbschleb** QUP, KEK	Diamond as Dark Matter Detection Platform
A-29 ★	**Jyotirmaya Mohanta** University of Tsukuba	Torsion Balances as Operational Probes of Semiclassical Gravity: Matched-Filter Bounds, Torque-Diffusion Constraints, and Quantum-Noise Benchmarks
A-30	**Yutaka Shikano** University of Tsukuba	Identifiability Limits of Engineered Null Symmetries in Cavendish Tests of Active--Passive Mass Equivalence
A-31	**Mojtaba Moshkani** Okinawa Institute of Science and Technology Graduate University (OIST)	Magnetic Levitation of Millimeter-Scale Diamond in Paramagnetic Fluids
A-32	**Jason Mark Twamley** Okinawa Institute of Science and Technology Graduate University (OIST)	Engineering Spins to Move Massive Levitated Diamonds
A-33 ★	**Ka Wing Yip** Okinawa Institute of Science and Technology Graduate University (OIST)	Electron Transport on the Surface of Liquid Helium-Solid Neon System
A-34	**Takashi Ikeda** National Institutes for Quantum Science and Technology (QST)	Critical Assessment of van der Waals Corrections and GGAs for First Principles Molecular Dynamics Simulations
A-35	**Kenji Tsutsui** National Institutes for Quantum Science and Technology (QST)	Numerical Study of Electronic States in the Kagome Hubbard Model
A-36 ★	**Eikichi Kimura** Institute of Science Tokyo	Universal Scaling of Electrochemical Information Transfer at Solid–Liquid Interfaces

Room B | Posters B-01 to B-09

No.	Presenter / Affiliation	Poster Title
B-01	**Hiroshi Abe** National Institutes for Quantum Science and Technology (QST)	Dose and Size Dependence of NV Center Formation in Nanodiamonds
B-02	**Masanori Fujiwara** Kyoto University	Temperature Sensing with Color Centers in Detonation Nanodiamonds
B-03 ★	**Umetsu Tomoya** National Institutes for Quantum Science and Technology (QST)	Evaluation of Temperature Dependent Group IV-V Center Creation in Diamond using Atmosphere Pressure Annealing
B-04 ★	**Takuto Ichikawa** National Institute of Advanced Industrial Science and Technology (AIST)	Defect Transformations Induced by Ultrashort Pulsed-Laser Irradiation in Nitrogen-Implanted Diamond
B-05	**Takuo Sasaki** National Institutes for Quantum Science and Technology (QST)	Toward In Situ Synchrotron X-ray Diffraction during Plasma CVD Growth for Quantum-Grade Diamond Wafers
B-06 ★	**Apoorva Chaturvedi** Temasek Laboratories, Nanyang Technological University (NTU)	Preparation of Ultra-Pure Quantum-Grade Diamond Single Crystals for Controlled Doping Application
B-07 ★	**Yuto Yamakawa** Institute of Science Tokyo	Geometric Estimation of NV Charge-State Populations through Low-Dimensional Spectral Manifolds
B-08	**Taiyo Murayama** Japan Advanced Institute of Science and Technology	Probing of Diamond Surface Conditions under Different Vacuums via Shallow NV Centers
B-09 ★	**Ikki Shingai** National Institutes for Quantum Science and Technology (QST)	Local Surface Modification of Diamond for Stabilizing Negatively Charged NV Centers by AFM Anodic Oxidation

Room C | Posters C-01 to C-61

No.	Presenter / Affiliation	Poster Title
C-01 ★	**Athreya Srinath** Tohoku University	Probing Kane-Mele Spin-Orbit Coupling in Graphene via Angle-Dependent Resistivity-Detected ESR
C-02 ★	**Masatoshi Kato** Graduate School of Science, Kanagawa University	Observation of Radical Elementary Process to Trithiocarbonate-Type RAFT Agents Studied by Pulsed ESR Method
C-03	**Seiichi Saiki** National Institutes for Quantum Science and Technology (QST)	Bridging NV Center Research and the Deployment of Solid-State Quantum Sensors
C-04 ★	**Simon Richard Goorney** European Quantum Academy, Aarhus University	European Quantum Workforce: State of Play as European Quantum Academy (EQA) Launches
C-05	**Andrew Saintway** Wicresoft Co., Ltd.	Quantum-Native Semantic Model
C-06 ★	**Mitchell Owen de Vries** Okinawa Institute of Science and Technology Graduate University (OIST)	Broadband Microwave Pulses for Spin Control in Diamond
C-07 ★	**Masato Koga** Institute of Science Tokyo	Charge-State Dissipation as an Engineered Reset Resource for Autonomous Quantum Error Correction in NV Nuclear-Spin Memories
C-08	**Yuzuru Kurosaki** National Institutes for Quantum Science and Technology (QST)	Optimal Control Study of 14N Nuclear Spin Polarization in Nitrogen-Vacancy Centers in Diamond
C-09 ★	**Kosuke Kimura** National Institutes for Quantum Science and Technology (QST)	Evaluation of Environmental Noise in Diamonds for Entanglement-Enhanced Sensors Based on Multiple NV Centers
C-10 ★	**Shungo Miyatani** Kyoto University	Enhancing Magnetic Sensitivity in Diamond NV Centre Pairs by Exploiting Entanglement
C-11	**Samyuktha Nair** Japan Advanced Institute of Science and Technology	Defect Density Estimation of Nitrogen Vacancy centers in a Chemical Vapor Deposition – Grown Diamond
C-12 ★	**Dwi Prananto** Japan Advanced Institute of Science and Technology	Magnetic Resonance Detection and Imaging of Dark Electron Spins with Scanning Diamond NV Probe Microscopy
C-13 ★	**Meenu Maria Solly** University of Manchester	Electrically Detected Magnetic Resonance Characterisation of Donors in Silicon
C-14 ★	**Morio Kawashima** Tohoku University	Amplitude and Phase Sensing of MHz AC Magnetic-Field via Two-Photon Magnetic Resonance with a Single NV Quantum Sensor
C-15 ★	**Shunki Nakamura** Tohoku University	Enhancement of Single-NV PDMR Contrast Using Green and Yellow-Green Dual-Wavelength Excitation Method
C-16 ★	**Ei Shigematsu** Kyoto University	Photocurrent-Based DC Current Sensing by Diamond NV Attached to a Busbar
C-17 ★	**Saki Tsuchiya** Institute of Science Tokyo	Development of a Standalone pH Sensing System Using Nitrogen-Vacancy Centers in Diamond for Field Monitoring
C-18 ★	**Keisuke Oshimi** Institute of Science Tokyo	Optical pH Sensing with Shallow Nitrogen-Vacancy Centers in Bulk Diamond
C-19 ★	**Madhav Gupta** The University of Hong Kong	Event-Camera Enabled Low-Latency Magnetic Field Imaging
C-20	**Jiandong Feng** Zhejiang University	Quantum-Sensing Enabled Chemical Imaging
C-21 ★	**Hironori Kurokui** Nagoya University	Wide-Field ODMR Imaging of Fe3O4 Nanoparticles Using NV Diamond
C-22 ★	**Ryoei Ota** The University of Tokyo	Wide-Field Magnetic Imaging of Shielding-Current-Driven Vortex Redistribution under Local Laser Heating Using Nitrogen-Vacancy Centers in Diamond
C-23 ★	**Sushen Chandra Devsharma** Tohoku University	Double-Resonance Echo with a Single NV Center for GHz AC Magnetic-Field Amplitude and Phase Sensing
C-24 ★	**Kristi Kanya Saikia** Okayama University	Environment-Driven NV Charge-State Modulation for Quantum Sensing in Nanodiamonds
C-25 ★	**Yuta Kimura** University of Tsukuba	Nonlinear-Excited Fluorescence Thermometry based on NV- and NV0 Centers in Nanodiamonds
C-26 ★	**Motoki Kitayama** Kyoto University	High-Sensitivity D-Ramsey Temperature Sensing Using a Single NV Center in Arbitrary Magnetic Fields
C-27 ★	**Takumi Sakamoto** The University of Tokyo	Observation of Superconducting Quantum Vortices in YBCO Using Diamond Quantum Sensors
C-28 ★	**Ryota Hasegawa** The University of Tokyo	Magnetic Imaging of the Helical Magnet MnAu2 Thin Film Using Diamond Quantum Sensors

No.	Presenter / Affiliation	Poster Title
C-29	**Ryota Okumura** The University of Tokyo	Nanoscale NMR/NQR Spectroscopy of Hexagonal Boron Nitride Using Nitrogen-Vacancy Centers in Diamond
C-30	**Masahiro Ohkuma** Institute of Science Tokyo	Simultaneous Measurement of Electrical Transport and Magnetic Field under High Pressure Using Boron-Doped Diamond and Nitrogen Vacancy Center
C-31 ★	**Duong Xuan Tung Vu** Tohoku University	A Monolithic (100) Single-Crystal Diamond MEMS Cantilever for Dynamic Stress Sensing Using NV Centers
C-32 ★	**Anna Fuchs** Saarland University	Towards an All-Optical Quantum Magnetic Field Sensor Based on an Ensemble of Tin-Vacancy Color Centers
C-33	**Mikito Bunno** Institute of Science Tokyo	Development of Diamond Quantum Magnetic Sensor Using Polarization Dependence of Infrared Absorption
C-34 ★	**Ayumi Kanamoto** Institute of Science Tokyo	Development of a Fiber-Coupled High-Sensitivity Diamond Quantum Sensor Module for Human Magnetoencephalography
C-35 ★	**Yoshitaro Uchida** Kyoto University	Site-Controlled Formation of Vanadium Centers in 4H-SiC by Masked Ion Implantation
C-36	**Naoya Morioka** Kyoto University	Coherent Photoelectrical Detection of PL5, PL6, and PL7 Spins in 4H-SiC
C-37 ★	**Tetsuri Nishikawa** Kyoto University	Optical Polarization Characterization of the V2 Center in 4H-SiC
C-38 ★	**Akinori Nishimoto** National Institutes for Quantum Science and Technology (QST)	Magnetic Sensitivity Degradation in Silicon Vacancies in 4H-SiC Formed by High Fluence Electron Irradiation
C-39	**Yuma Okazaki** National Institute of Advanced Industrial Science and Technology (AIST)	Millimeter-Wave Photonic Crystal Resonators with Silicon Defects in 4H-SiC
C-40 ★	**Keidai Wakamatsu** Yokohama National University	Raman Driving of a Silicon-Vacancy Center in a Diamond Nanobeam Structure
C-41 ★	**Guadalupe Garcia Arellano** CUNY - The City College of New York	Telecom rare-earth quantum emitters in a two-dimensional carbon host
C-42 ★	**Koyo Hirai** Institute of Science Tokyo	Enhanced Fluorescence and Hong–Ou–Mandel Interference of Diamond Lead-Vacancy Centers Incorporated in Solid Immersion Lenses
C-43 ★	**Yiyang Chen** Institute of Science Tokyo	Magneto-Optical and Spin Properties of a Lead-Vacancy Spin Qubit in Diamond
C-44 ★	**Sotatsu Yanagimoto** Institute of Science Tokyo	Analysis of Cathodoluminescence Photon Correlation within an Effective Quantum-Particle Picture
C-45 ★	**Tetsuya Kubota** Institute of Science Tokyo	Nanoscale Cathodoluminescence Study of Cs4PbBr6 Perovskite for Quantum Emitter System
C-46	**James R Harries** National Institutes for Quantum Science and Technology (QST)	Ultrafast Excitation of Helium by an FEL Pulse: Multilevel Dynamics and Development of Superfluorescence
C-47	**Muneaki Hase** University of Tsukuba	Diamond Nonlinear Photonics Based on Femtosecond Pulsed Lasers
C-48 ★	**Samuel Begumya** Okinawa Institute of Science and Technology Graduate University (OIST)	Coupling NV centres in Nanodiamonds to Hollow Microbubble Resonators for Quantum Sensing Applications
C-49 ★	**Kosuke Takada** Toyohashi University of Technology	Room-Temperature Defect-Mode Microwave Cavity with Diamond
C-50	**Hodaka Kurokawa** The University of Tokyo	Exploration of Non-Fourier Phonon Transport in Diamond Microstructures
C-51	**Kazuhiro Kuruma** The University of Tokyo	Enhanced Emission from Diamond Color Centers in Slow-Light Photonic Crystal Waveguides
C-52 ★	**Tomoya Hasunuma** National Institutes for Quantum Science and Technology (QST)	Fabrication of Ferromagnetic Thin Films for Individual Spin Manipulation of NV Centers in Diamond
C-53 ★	**Ryota Goto** Graduate School of Science and Technology, Nara Institute of Science and Technology	Evaluation of Interlayer Exciton Emission Properties and Moiré Potential in Vertically Stacked Monolayer TMDC Heterostructures
C-54	**Songtian Li** National Institutes for Quantum Science and Technology (QST)	Single-pulse triggered all-optical switching in CoFeB-based synthetic ferrimagnets
C-55 ★	**Phillip David Bentley** National Institutes for Quantum Science and Technology (QST)	Characterising the Local Magnetic Structure of All-Optical Switching Heusler Compounds via Synchrotron XMCD
C-56	**Jun Okabayashi** The University of Tokyo	Operando Mössbauer Spectroscopy with Reversible Strain in GdFeCo Film

No.	Presenter / Affiliation	Poster Title
C-57	**Tetsuro Ueno** National Institutes for Quantum Science and Technology (QST)	Development of an X-Ray-Detected Ferromagnetic Resonance Spectrometer at NanoTerasu BL13U
C-58 ★	**Jumpei Horai** University of Hyogo	Development of Ferromagnetic Resonance Measurement Systems up to 6 GHz Using Low-Cost Vector Network Analyzers
C-59	**Takaya Mitsui** National Institutes for Quantum Science and Technology (QST)	Studies on Spintronics-Related Thin Films Using Synchrotron-Based Grazing Incidence Conversion Electron Mössbauer Spectroscopy
C-60	**Hiroyuki Okazaki** National Institutes for Quantum Science and Technology (QST)	Highly Boron-Doped Amorphous Carbon as Pt-Free ORR Catalyst
C-61 ★	**Ryunosuke Takahashi** University of Hyogo	Photoinduced Magnetization Switching and Ultrafast Demagnetization in $NiCo_2O_4$ Thin Films

Poster Session

Poster sessions will be held on 17 and 18 November 2026 in conjunction with the Corporate Exhibition. Snacks and drinks will be available during the poster sessions to encourage informal discussions and networking among participants.

Tuesday, 17 November	17:30–19:30
Wednesday, 18 November	17:00–18:00

Poster Display and Board Information

Poster boards will be available from the morning of 17 November until the evening of 18 November. Presenters are encouraged to keep their posters displayed throughout this period so that participants can view them outside the scheduled poster session times. The poster board size is 2,100 mm (H) × 1,200 mm (W).

Poster Awards for Early Career Researchers

Poster Awards will be presented to outstanding poster presentations by early-career researchers. Eligible applicants are early-career researchers within 10 years of receiving their doctoral degree, or current undergraduate or graduate students. Poster Award applicants are indicated by a ★ in the poster list and the Poster Session Map. **★ Poster Award Applicant**

Core Presentation Time

To facilitate the Poster Award selection process and encourage active discussion, dedicated Core Presentation Times are scheduled for 17 November.

Odd-numbered posters	**17:30–18:30**
Even-numbered posters	**18:30–19:30**

Poster Award applicants are requested to be present at their posters during their assigned Core Presentation Time on 17 November. If a Poster Award applicant is unable to present on 17 November, please inform the Symposium Secretariat in advance. In such cases, poster evaluation is planned to take place on 18 November instead.

The poster session on 18 November is shorter, and no formal Core Presentation Time will be assigned on that day.

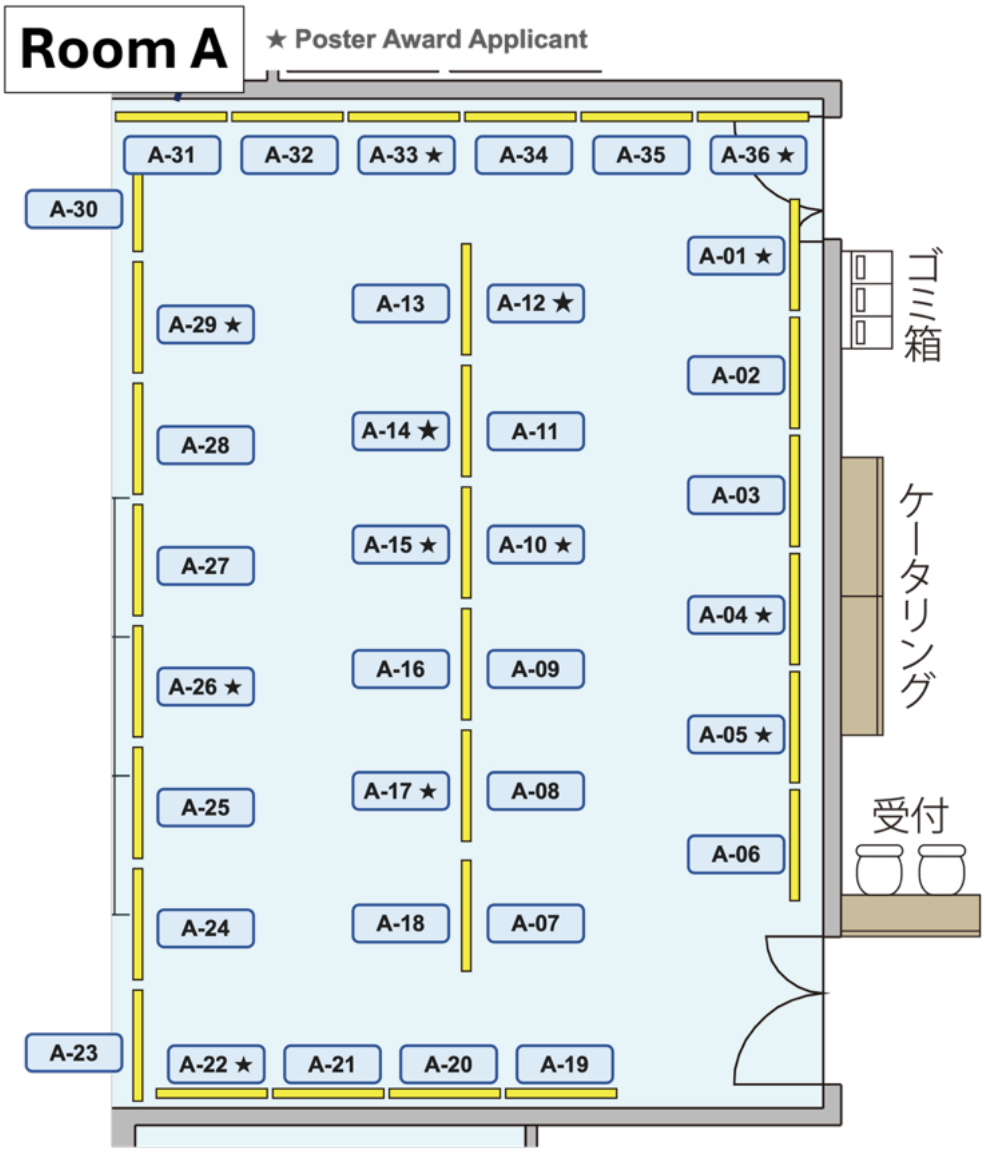
Poster Setup and Removal

Poster setup will begin on the morning of 17 November. Presenters are encouraged to keep their posters displayed throughout the symposium. All posters must be removed by noon on 19 November. Posters remaining after the removal deadline may be disposed of by the Symposium Secretariat.

Poster Session Map

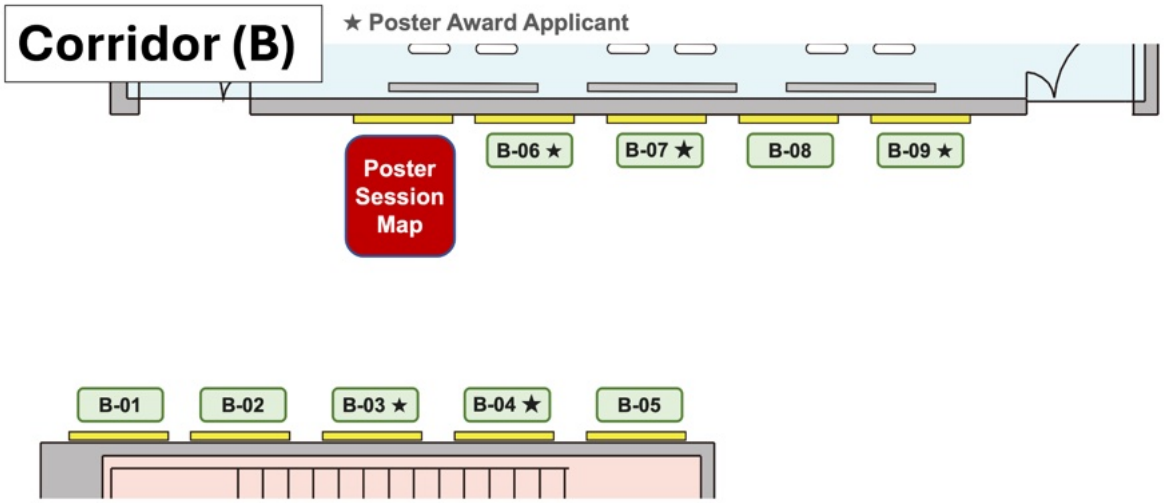
Room A | Posters A-01 to A-36

★ Poster Award Applicant



Corridor (B) | Posters B-01 to B-09

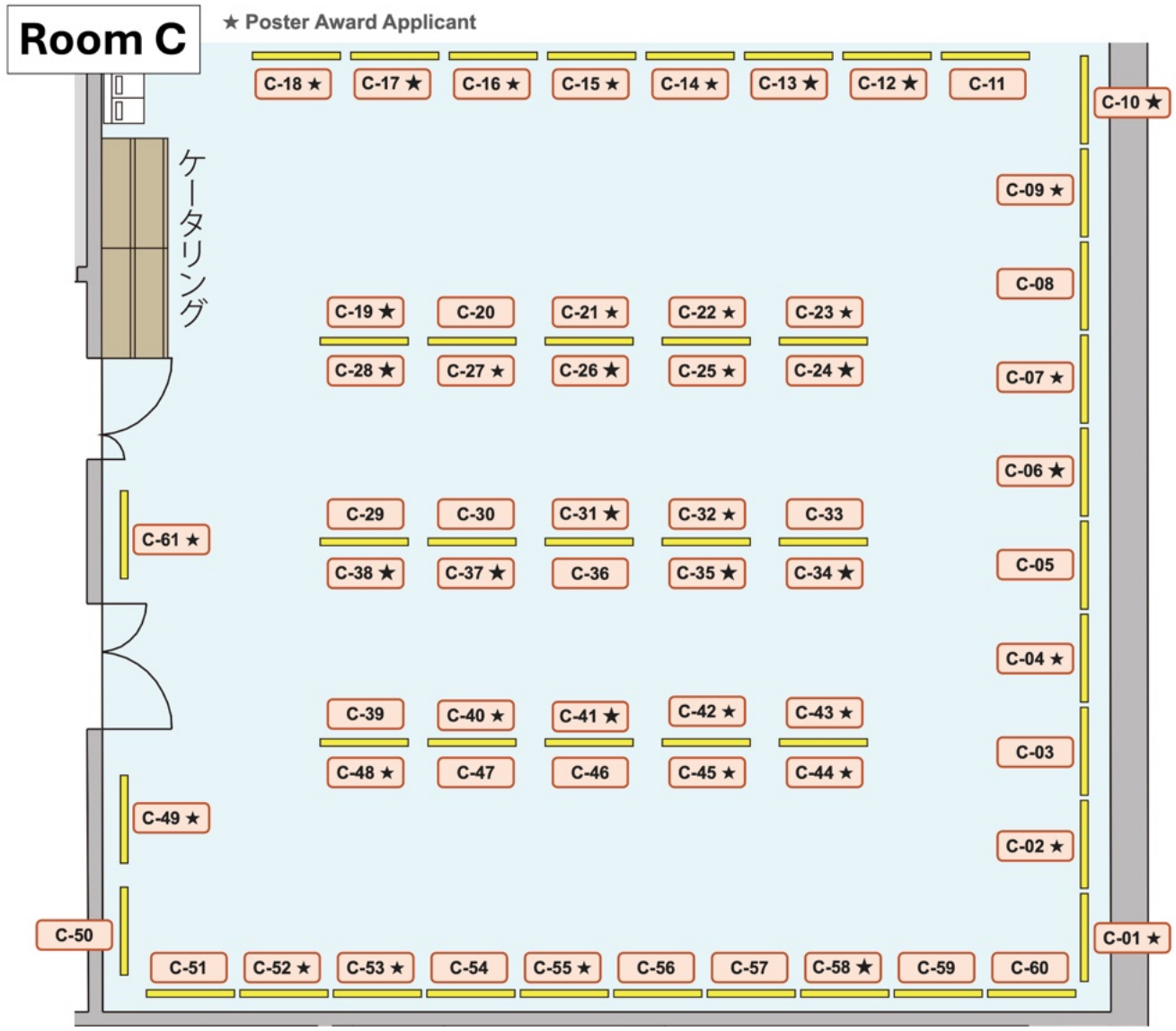
★ Poster Award Applicant



Poster Session Map

Room C | Posters C-01 to C-61

★ Poster Award Applicant



Corporate Exhibition and QST Institutes Showcase

Q-FUTURE 2026 will feature a corporate exhibition showcasing companies active in quantum science and technology and related fields. The exhibition will present technologies and products in areas including quantum sensing, quantum measurement, laser technology, analytical instrumentation, advanced materials, semiconductor processing equipment, and other advanced science and technology fields.

The QST Institutes Showcase will also introduce the research activities and facilities of QST's institutes through poster presentations.

Exhibition Hours

Venue / Exhibition	Date	Hours
Room B Corporate Exhibition	17 November 2026	12:00–19:30
	18 November 2026	9:00–18:00
Reception Hall Diamond Sponsors & QST Institutes Showcase	17 November 2026	8:30–17:30
	18 November 2026	8:30–18:30
	19 November 2026	8:30–13:30

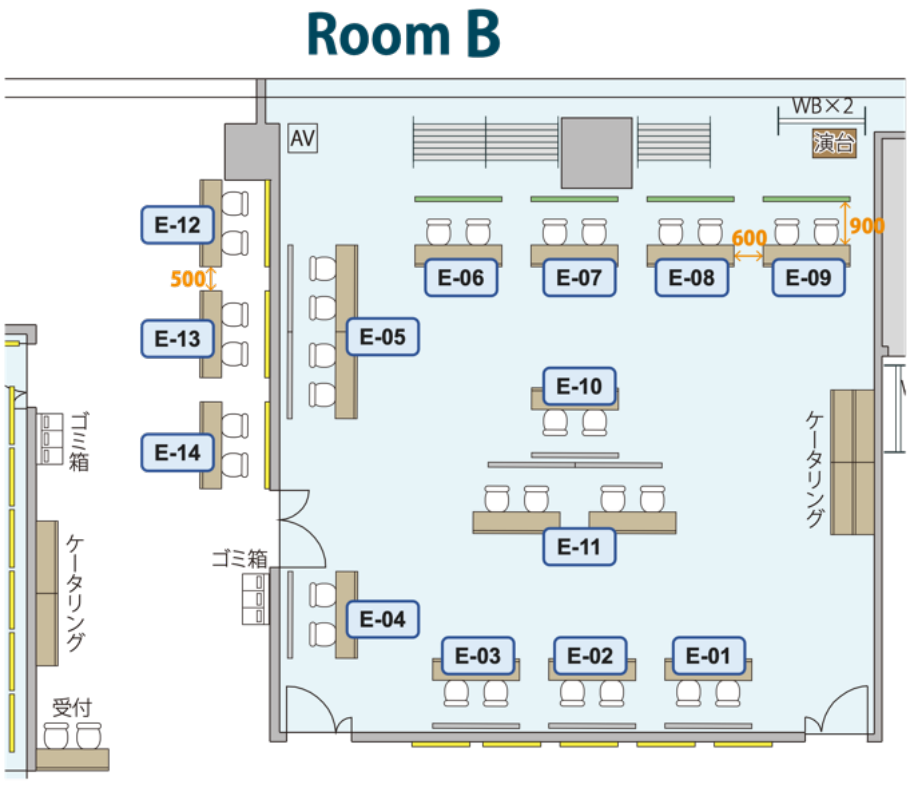
Academia-Industry Networking

The Corporate Exhibition and poster sessions provide opportunities for participants from academia and industry to exchange information, explore potential collaborations, and discuss the latest developments in quantum science and technology. Snacks and drinks will be available in the exhibition area during the poster sessions to encourage informal interaction among participants.

Please refer to the maps and lists below for booth and poster locations.

Exhibition Layout

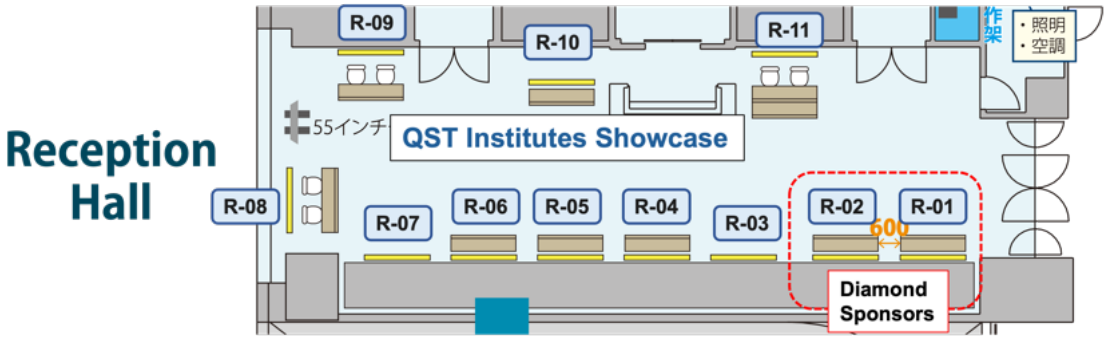
Room B | Corporate Exhibition



Room B

No.	Exhibitor	No.	Exhibitor
E-01	Japan REDOX	E-08	TOYO Corporation
E-02	EDP Corporation	E-09	TOPTICA Photonics
E-03	Samco Inc.	E-10	Sumitomo Electric Industries, Ltd.
E-04	Quemix Inc.	E-11	Quantum Design Japan
E-05	Keysight Technologies Japan K.K.	E-12	NTT ADVANCED TECHNOLOGY CORPORATION
E-06	Yokogawa Test&Measurement	E-13	Shimadzu Corporation
E-07	HORIBA, Ltd.	E-14	TOYAMA Co., Ltd.

Reception Hall | Diamond Sponsors & QST Institutes Showcase



Reception Hall | Diamond Sponsors

No.	Exhibitor
R-01	Sumitomo Electric Industries, Ltd.
R-02	Quantum Design Japan

QST Institutes Showcase

No.	QST Institute
R-03	Kansai Institute for Photon Science (Kizu)
R-04	Kansai Institute for Photon Science (Harima)
R-05	Institute for Quantum Medical Science
R-06	QST Hospital
R-07	Institute for Radiological Science
R-08	NanoTerasu Synchrotron Light Source
R-09	Fusion Energy Directorate
R-10	Takasaki Institute for Advanced Quantum Science
R-11	Institute for Quantum Life Science

Organization

Organizer

National Institutes for Quantum Science and Technology (QST)

Auspices & Support

- Ministry of Education, Culture, Sports, Science and Technology (MEXT)
- Adopting Sustainable Partnerships for Innovative Research Ecosystem (ASPIRE), Diamond spin qubits for quantum applications (DIAMONDQTECH)
- Quantum Leap Flagship Program (Q-LEAP), Development of innovative sensor systems by highly sophisticated control of solid quantum sensors (dia-Q)
- Cross-ministerial Strategic Innovation Promotion Program (SIP), Promoting Application of Advanced Quantum Technologies to Social Challenges programs for Bridging the gap between R&d and the IDeal society (society 5.0) and Generating Economic and social value (BRIDGE)
- Key and Advanced Technology R&D through Cross Community Collaboration Program (K Program), Development of Technology for an Underwater Magnetic Field Measurement Network Using Solid-State Quantum Sensors
- Quantum STrategic industry Alliance for Revolution (Q-STAR)
- The Physical Society of Japan (JPS)
- The Japan Society of Applied Physics (JSAP)
- The Chemical Society of Japan (CSJ)
- Quantum Life Science Society
- The Biophysical Society of Japan
- The Japanese Biochemical Society (JBS)
- The Society of Electron Spin Science and Technology (SEST)
- Protein Science Society of Japan (PSSJ)
- Japan New Diamond Forum (JNDF)
- Quantum Forum
- Professional group of JSAP - Solid State Quantum Sensor

Symposium Chair

Shigeo Koyasu (President of QST)

Organizing Committee

- Teruyuki Hakoda (Takasaki Institute for Advanced Quantum Science, QST), Chair
- Yoshinobu Baba (Institute for Quantum Life Science, QST, and Nagoya University), Vice Chair
- Hidetoshi Kono (Institute for Quantum Life Science, QST)
- Takeshi Ohshima (Quantum Materials and Applications Research Center, Takasaki Inst., QST)
- Naruhiro Matsufuji (Department of Management and Planning, QST)
- Takahiro Satoh (Department of Advanced Quantum Beam Technology, QST)
- Naoyuki Oyama (Office of Fusion Energy Strategic Research Planning and Promotion, QST)

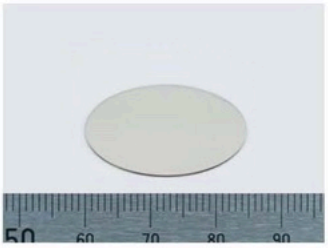
Program Committee

- Shinobu Onoda (Quantum Materials and Applications Research Center, QST), Chair
- Ryuji Igarashi (Institute for Quantum Life Science, QST and Institute of Science Tokyo), Vice Chair
- Yuichi Yamazaki (Quantum Materials and Applications Research Center, QST)
- Seiji Sakai (Quantum Materials and Applications Research Center, QST)
- Yosuke Yuri (Quantum Materials and Applications Research Center, QST)
- Shin-ichiro Sato (Quantum Materials and Applications Research Center, QST)
- Yoichi Takakusagi (Institute for Quantum Life Science, QST)
- Kiichi Kaminaga (Institute for Quantum Life Science, QST)
- Kiminori Maeda (Saitama University)
- Moriyoshi Haruyama (The National Institute of Advanced Industrial Science and Technology (AIST))

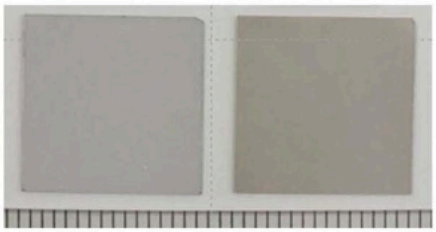
Large Single Crystal Diamond Substrate

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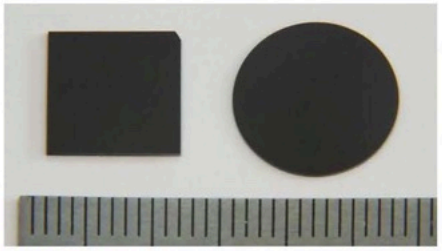
1inch single wafer



N<0.5ppm N<8ppm



Heavy boron doped substrates



Field of research	Item	Specification
Epitaxial growth & basic study	Small size single crystal substrate	Size 3x3–9x9mm (N<0.5ppm or <8ppm)
	Large size single crystal substrate	Size 10x10–30x30mm (N<0.5ppm or <8ppm)
	Off angle substrate	0–5 degree off angle from (100)
FET or lateral structure device	High purity epi-substrate (i)	Non-doped(N<50ppb) and high crystalinity
	Lightly B doped epi-substrate (p^-)	High mobility p-type epi-layer
Power device	Heavy B doped substrate (p^+)	Heavy B doped plate (Free standing)
	Heavy B doped epi (p^+)	Heavy B doped epi-layer on regular substrate
Quantum device	(111) substrate	Nitrogen concentration <8ppm
	Low nitrogen (111) ,(100)substrate	Nitrogen concentration <0.5ppm
	Nitrogen doped (111) substrate	Nitrogen concentration from 3 to 30ppm
Specific epi.	p^-/p^+	Lightly B doped on Heavily B doped substrate
	i layer/N substrate	High purity epi on 0.5-30ppm N doped substrate
Test wafer for mass production	Half inch single crystal wafer	12.5mmΦx0.25mm
	1-inch single crystal wafer	30mmΦx0.3mm
	Large mosaic substrate	30x30mm, 38x38mm
	2-inch mosaic wafer	50mmΦx0.3mm (to be in the last half of FY 2026)

EDP Corporation

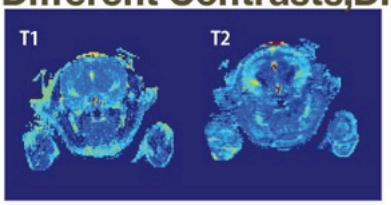
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The built-in pulse sequences allow users to obtain the desired images. T1 and T2 values, which are intrinsic properties of tissues and molecules, can also be quantitatively mapped.

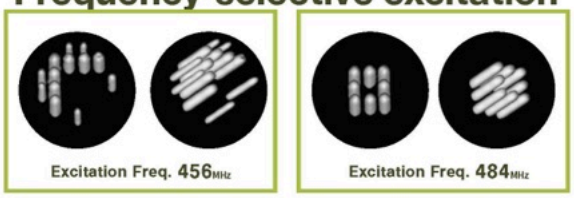
DNP-MRI SCANNER
Keller

Visualizing Redox Changes Over Time



By injecting a contrast agent into small animals such as mice and rats and performing imaging, changes in the contrast agent can be tracked to study the movement of free radicals in the body.

Frequency-selective excitation



The system can also be used for material characterization using phantom samples.



3D imaging



Its fast imaging mode enables 3D imaging and the quantification of changes in vivo.

Redox Map



Visualize the redox state of living tissues with MRI.

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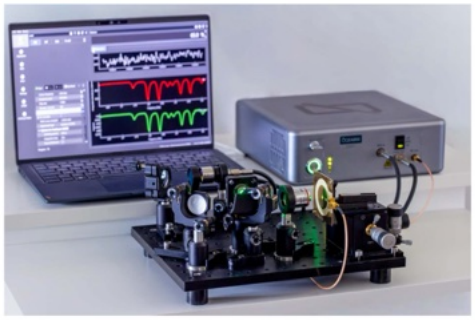
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A compact platform for teaching and demonstrating real quantum experiments in a lab environment.

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- Qubit initialization, manipulation and readout





NV Core

Integrated control for color-center experiments

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- API and scripting for automated measurements

Raptor photonics Falcon III



Scientific EMCCD camera for ultra-low-light detection

- 1 MP frame-transfer EMCCD architecture
- Deep cooling to reduce dark current and background noise
- Suitable for spectroscopy, microscopy and photon-starved imaging

VEXLUM VALO

High-power, narrow-linewidth single-frequency VECSEL laser

Turnkey single-frequency laser platform for AMO and quantum research, including laser cooling, Rydberg transitions, optical traps, Raman gates and optical clock transitions.

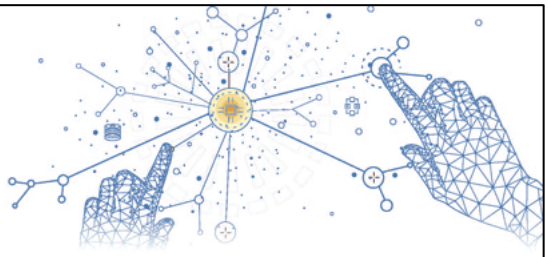


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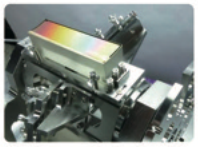


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What is silicon photonics?

Silicon photonics integrates optical guiding, splitting, switching, and detection functions on a compact chip using semiconductor fabrication processes.

From bulky optical systems to compact, stable photonic circuits

Waveguide — Guides light

Splitter — Splits light

Switch — Routes light

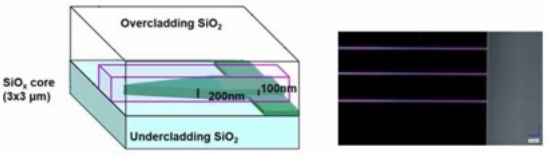
Photodetector — Detects light

NTT-AT Advantage

Custom Process Integration
We work with researchers to define materials, structures, and process conditions, then execute application-specific prototype fabrication.

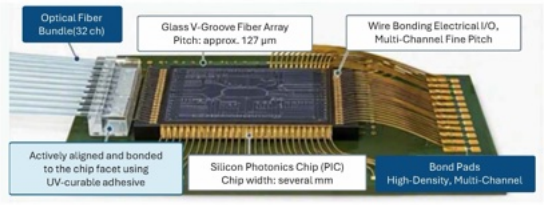
Photonic-Electronic Integration
From fiber coupling to wire bonding, we provide optical and electrical interconnect solutions tailored to your device requirements.

Spot-Size Converter (SSC)



A tapered Si waveguide expands the optical mode into the SiOx core, reducing mode-field mismatch and fiber-to-chip coupling loss.

PIC with a Single-Sided 32-Channel Fiber-Array Interface (Concept Image)



A 32-channel glass V-groove fiber array is adhesively bonded to one chip facet; electrical I/O is directly wire-bonded to gold pads.

NTT AT

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A Challenge for Humanity
Continuing to Break Records with Quantum Technology

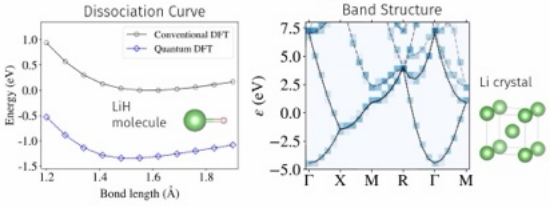
We are a startup company developing Quantum Computing software

Quantum Chemistry Calculations

Many-electron system

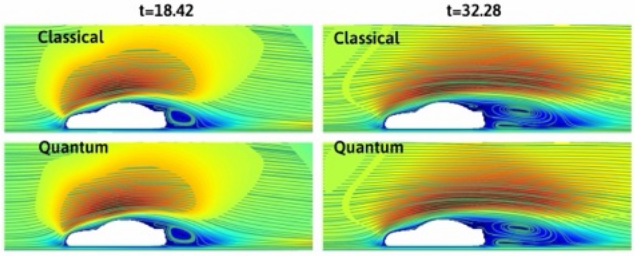


Physical quantities



Quantum CAE Calculations

Flow speed visualization with streamlines



Upper panels: CLBM; lower panels: QLBM.

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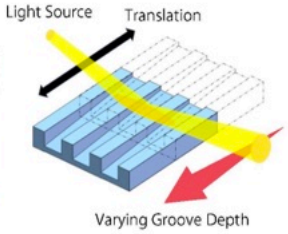
Applications : Synchrotron Radiation Facilities, HHG, Spectroscopic Analysis

Varied Groove Depth Gratings (VGDG)

NEW

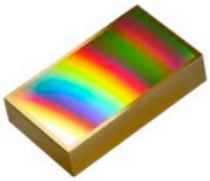
- High Efficiency Across a Wide Spectral Range
- Minimized Higher-Order Stray Light
- Available with Varied Line Spacing (VLS)





Laminar-type Replica Diffraction Gratings

- Wide Wavelength Coverage (0.6 – 200 nm)
- Low Stray Light & Higher-Order Suppression
- Optimized for Flat-Field Spectroscopy





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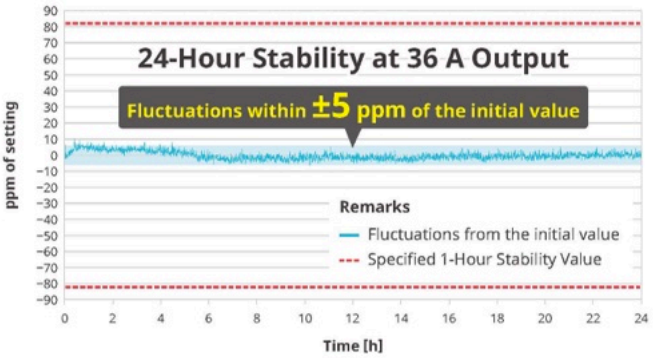
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Features:

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- 2560A can generate voltages up to ±1,224 V and currents up to 36.72 A.

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Program Book

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