November 26th, Tuesday

13:00~13:20	Opening Remarks

Session 1: Quantum Computation

13:20~14:00

Tu-01 : The UC Santa Barbara quantum computing effort

(Keynote) Andrew Cleland

University of California, Santa Barbara

14:00~14:30

Tu-02 : High-fidelity single-atom spin qubits in silicon

(Invited) Andrea Morello

The University of New South Wales

14:30~15:00	Coffee Break

Session 2: Nanodevices and Nanofabrication

15:00~15:30

Tu-03 : Nanogenerators as new energy technology and piezotronics for functional systems

(Invited) Zhong Lin Wang

Georgia Institute of Technology, Chinese Academy of Science

15:30~16:00

Tu-04 : Plasmon excitations in nanostructured graphene and graphene-related molecules

(Invited) Javier Garcia de Abajo

ICFO-The Institute of Photonic Sciences

16:00~16:30

Tu-05 : Fabrication of micrometre-scale polymer lens arrays for superresolution light-microscopy

(Invited) David Cox

National Physical Laboratory

16:30~18:10	Poster Session Ⅰ (Joint Poster Session with BRL School)

18:10~20:00	**Welcome Reception** **(Jointly with BRL-School Farewell Party and Poster-Award Ceremony)**

November 27th,Wednesday

Session 3: Topological Insulators

09:00~09:40

We-01 : Quantum anomalous Hall effect in magnetic topological insulators

(Keynote) Qi-Kun Xue

Tsinghua University

09:40~10:10

We-02 : Transport studies of topological insulators

(Invited) Yoichi Ando

Osaka University

10:10~10:30

We-03 : Landau level spectroscopy-imaging on the surface of topological insulator under potential variation

Minoru Kawamura, Yingshuang Fu, Kyushiro Igarashi, Hidenori Takagi, Tetsuo Hanaguri, and Takao Sasagwa

RIKEN, Tokyo Institute of Technology, University of Tokyo, Max-Planck Institute for Solid State Research

10:30~11:00	Coffee Break

Session 4: Optical and Mechanical Quantum Systems

11:00~11:30

We-04 : Towards quantum photonic integrated circuits

(Invited) Andrea Fiore

Technische Universiteit Eindhoven

11:30~12:00

We-05 : Mechanicals systems in the quantum regime: Cavity optomechanics

(Invited) Ewold Verhagen

FOM Institute AMOLF

12:00~12:20

We-06 : Entanglement and state transfer in 3-mode optomechanical systems

Yingdan Wang and Aashish A. Clerk

RIKEN, McGill University

12:20~12:30	Symposium Photo

12:30~14:00	Lunch

Session 5: Superconducting Circuits and Hybrid System

14:00~14:30

We-07 : Coherent quantum phase slip

(Invited) Jaw-Shen Tsai

RIKEN / NEC

14:30~15:00

We-08 : Towards a spin-ensemble quantum memory for superconducting qubits

(Invited) Patrice Bertet

CEA de Saclay

15:00~15:20

We-09 : Superconducting flux qubit - spin ensemble hybrid systems

Shiro Saito, Xiaobo Zhu, Robert Amsüss, Yuichiro Matsuzaki, Kosuke Kakuyanagi, Takaaki Shimo-Oka, Norikazu Mizuochi, Kae Nemoto, William J. Munro, and Kouichi Semba

NTT Basic Research Laboratories, TU Wien, Osaka University, NII

15:20~15:40

We-10 : Strong coupling of ferromagnetic magnons to a microwave resonator

Y. Tabuchi, S. Ishino, T. Ishikawa, R. Yamazaki, K. Usami, Y. Nakamura

RCAST, The University of Tokyo, RIKEN

15:40~16:10 Coffee Break

Session 6: Single Electron Devices

16:10~16:40

We-11 : The tunable-barrier pump: An accurate source of single electrons

(Invited) Stephen Giblin

National Physical Laboratory

16:40~17:00

We-12 : Mechanism crossover of single-electron transfer in Si tunable-barrier turnstiles

G. Yamahata, K. Nishiguchi, A. Fujiwara

NTT Basic Research Laboratories

17:00~17:20

We-13 : Magnetic field stabilization of a SINIS single electron pump

Shuji Nakamura, Yuri Pashkin, Jaw-Shen Tsai and Nobuhisa Kaneko

National Metrology Institute of Japan, AIST, RIKEN, NEC

17:20~17:40

We-14 : Towards precise current multiplication by use of linear arrays of small Josephson junctions

K. Takeda, S. Gandrothula, Y. Mizugaki H. Shimada

The University of Electro-Communications

17:40~19:20 Poster Session Ⅱ

November 28th,Thursday

Session 7: Quantum Spin Hall Systems and Spin-Orbit Interaction

09:00~09:30

Th-01 : Imaging current in quantum spin Hall insulators

(Invited) Eric M. Spanton

Stanford University

09:30~10:00

Th-02 : Quantum spin Hall effects in graphene/hBN heterostructures

(Invited) Javier Sanchez-Yamagishi and Pablo Jarillo-Herrero

Massachusetts Institute of Technology

10:00~10:20

Th-03 : Edge transport in InAs/GaSb two-dimensional topological insulating phase without bulk conduction

K. Suzuki, Y. Harada, K. Onomitsu, K. Muraki

NTT Basic Research Laboratories

10:20~10:40

Th-04 : Gate-controlled anisotropy of Altshuler-Aronov-Spivak interference in an InGaAs ring array under an in-plane magnetic field

F. Nagasawa, S. Tantiamornpong, M. Kohda, J. Nitta

Tohoku University

10:40~11:10	Coffee Break

Session 8: Optical Physics and Functions in Nanostructures

11:10~11:40

Th-05 : Dopant atom in silicon sees the light

(Invited) Sven Rogge

University of New South Wales

11:40~12:00

Th-06 : All-optical initialization, manipulation and read-out of a single electron spin in an individual InGaAs quantum dot

A. Bechtold, A. Regler, P.-L. Ardelt, K. Müller, M. Bichler, J. J. Finley

Technische Universität München

12:00~12:20

Th-07 : Terahertz spectroscopy of sublevel structures in single self-assembled InAs quantum dots

Y. Zhang, K. Shibata, N. Nagai, C. Ndebeka-Bandou, and K. Hirakawa

IIS and INQIE, The University of Tokyo, LPA-ENS, CREST JST

12:20~12:40

Th-08 : Lasing from individual GaAs-AlGaAs core-shell nanowires up to room temperature

Benedikt Mayer, Daniel Rudolph, Joscha Schnell, Stefanie Morkötter, Julia Winnerl,Julian Treu, Kai Müller, Gregor Bracher, Gerhard Abstreiter, Gregor Koblmüller and Jonathan J. Finley

Technische Universität München

12:40~14:00	Lunch

Session 9: Coupled Mechanical and Phononic Systems

14:00~14:30

Th-09 : Memory, entanglement, and state-transfer with quantum enabled micromechanical oscillators

(Invited) Konrad Lehnert

University of Colorado, National Institute of Standards and Technology

14:30~14:50

Th-10 : Mechanical displacement sensing via quantum dot and quantum point contact

Y. Okazaki, I. Mahboob, K. Onomitsu, S. Sasaki and H. Yamaguchi

NTT Basic Research Laboratories

14:50~15:10

Th-11 : A phonon laser utilizing quantum-dot spin states

A.Khaetskii, V. Golovach, X. Hu, and I. Zutic

University at Buffalo, SUNY, Centro de Fisica de Materiales (CFM-MPC)

15:10~15:30

Th-12 : Coherently coupled nanomechanical oscillators

H. Okamoto, I. Mahboob, H. Yamaguchi

NTT Basic Research Laboratories

15:30~16:00	Coffee Break

Session 10: Quantum Hall Systems

16:00~16:20

Th-13 : Observation of microwave-induced resistance oscillations in high-mobility 2D hole gas in sGe/SiGe quantum wells

M. Zudov, O. Mironov, Q. Ebner, P. Martin, Q. Shi, D. Leadley

University of Minnesota, University of Warwick, Int. Lab. of High Magnetic Fields and Low Temperatures

16:20~16:40

Th-14 : Even-denominator fractional quantum Hall states in ZnO

J. Falson, D. Maryenko, B. Friess, D. Zhang, Y. Kozuka, A. Tsukazaki, J. H. Smet and M. Kawasaki

The University of Tokyo, RIKEN, Max Planck Institute – FKF, Tohoku University, JST-PRESTO

16:40~17:00

Th-15 : NMR probing of charge order in two-dimensional electron systems

Trevor D. Rhone, Lars Tiemann, Naokazu Shibata, Koji Muraki

NTT Basic Research Laboratories, ERATO-JST, Tohoku University

17:00~17:20

Th-16 : Shot noise of fractional quasiparticles in a local fractional quantum Hall state embedded in an integer quantum Hall system

M. Hashisaka, T. Ota, K. Muraki, T. Fujisawa

Tokyo Institute of Technology, NTT Basic Research Laboratories

17:30~18:00	Bus Transfer

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18:00~20:00	Banquet

November 29th,Friday

Session 11: Quantum Dot Systems

09:00~09:40

Fr-01 : Flying qubits and quantum electron optics with surface acoustic wave

(Keynote) Seigo Tarucha

The University of Tokyo, RIKEN

09:40~10:00

Fr-02 : Quantum interference between three-spin qubits

A.S. Sachrajda , S. Studenikin, G.C. Aers, J. Thorgrimson, G. Poulin-Lamarre, A.Kam, P. Zawadski

National Research Council of Canada

10:00~10:20

Fr-03 : Coupling quantum dot circuits to microwave cavities

M.R. Delbecq, J.J. Viennot, L.E. Bruhat, M. Dartiahl, S. Datta, A. Cottet, and T. Kontos

RIKEN, Ecole Normale Supérieure

10:20~10:40

Fr-04 : Electron spin resonance in Si/SiGe quantum dots

E. Kawakami, P. Scarlino, D.Ward, F. R. Braakman, D. E. Savage, M. G. Lagally, M. A. Eriksson, and L. M. K. Vandersypen

TU Delft, University of Wisconsin-Madison

10:40~11:10 Coffee Break

Session 12: Superconducting Circuits and Qubits

11:10~11:40

Fr-05 : Building towards a superconducting fault-tolerant quantum computer

(Invited) Jerry M. Chow

IBM

11:40~12:00

Fr-06 : Parametric phase-locked oscillator based on superconducting circuits: Application to dispersive readout for qubits

T. Yamamoto, Z. R. Lin, K. Inomata, W. D. Oliver, K. Koshino, Y. Nakamura, J. S. Tsai

NEC, RIKEN, MIT, Tokyo Medical and Dental University, RCAST, The University of Tokyo

12:00~12:20

Fr-07 : Evaluation and application of QND measurement on a superconducting qubit

K. Kakuyanagi, Y. Matsuzaki, H. Nakano, K. Semba, S. Saito

NTT Basic Research Laboratories, National Institute of Informatics

12:20~12:40

Fr-08 : Entanglement preserving memory for quantum microwaves

E. Flurin, J.D. Pillet, N. Roch, F. Mallet, B. Huard

Ecole Normale Supérieure, CNRS

12:40~14:00 Lunch

Session 13: Manipulation of Spin, Electron, and Emergent Nanostructured Systems

14:00~14:30

Fr-09 : Ultrafast optical coherent charge and spin control in quantum dots and molecules

(Invited) Jonathan Finley

Technische Universität München

14:30~14:50

Fr-10 : Coherent manipulation of electron spins travelling in semiconductors without external magnetic fields

H. Sanada, Y. Kunihashi, H. Gotoh, K. Onomitsu, M. Kohda, J. Nitta, P. V. Santos, and T. Sogawa

NTT Basic Research Laboratories, Tohoku University, Paul Drude Institut

14:50~15:10

Fr-11 : Real-time detection of optically excited single electron spins in a lateral double quantum dot

T. Fujita, K. Morimoto, G. Allison, S. Teraoka, H. Kiyama, M. Larsson, A. Ludwig, A. D. Wieck, A. Oiwa, and S. Tarucha

The University of Tokyo, Ruhr-Universität, RIKEN

15:10~15:30

Fr-12 : Opto-electronic properties of atomically thin MoS_2

M.Buscema, M. Barkelid, V. Zwiller, H.S.J. van der Zant, G.A. Steele and A. Castellanos-Gomez

Delft University of Technology

15:30~16:00

Fr-13 : Electro-elastic single quantum dot devices

(Invited) Oliver G. Schmidt

IFW Dresden

16:00~16:20	Closing

Poster Session Ⅰ (Nov. 26th, Tuesday)

16:30～18:10

PTu1 : Numerical study of anomalous Josephson effect in semiconductor nanowire with strong spin-orbit interaction

T. Yokoyama, M. Eto, Yu. V. Nazarov

RIKEN, Keio University, TU Delft

PTu2 : Modulation of RF wave velocity by Josephson junction metamaterial

Saxon Liou, Yu-Cheng Chang, Jyh-Yang Wang, Ming-Chou Lin and Chii-Dong Chen

Institute of physics, Academia Sinica, Taiwan

PTu3 : Intense terahertz emission from intrinsic Josephson junctions induced by external local heating

H. Asai and S. Kawabata

National Institute of Advanced Industrial Science and Technology

PTu4 : Fabrication of ultralow noise SSPD and long distance QKD experiment

H. Shibata, K. Shimizu, T. Honjo, H. Takesue, Y. Tokura

NTT Basic Research Laboratories, NTT Nanophotonics Center, NTT Secure Platform Laboratories

PTu5 : (cancelled)

PTu6 : Spectroscopy of a hybrid system of a superconducting flux qubit and an electron spin ensemble in diamond: A theoretical analysis

Y. Matsuzaki, X. Zhu, R. Amsüss, K. Kakuyanagi ,T. Shimooka , N. Mizuochi , K. Nemoto , W. J. Munro , K. Semba , and S. Saito

NTT Basic Research Laboratories, Vienna Center for Quantum Science and Technology, University of Osaka, National Institute of Informatics

PTu7 : Realization of impedance-matched Lambda system in circuit quantum electrodynamics

K. Koshino, K. Inomata, T. Yamamoto, Y. Nakamura

Tokyo Medical and Dental University, RIKEN, NEC, The University of Tokyo

PTu8 : Quantum Hall transport due to electron-phonon interaction

Andrey A. Greshnov and Yaroslav M. Beltukov

Ioffe Physical-Technical Institute RAS, St. Petersburg, Russia

PTu9 : Plasmon guiding and routing in graphene at gigahertz range

N. Kumada, R. Dubourget, K. Sasaki, S. Tanabe, H. Hibino,M. Hashisaka, H. Kamata, K. Muraki, and T. Fujisawa

NTT Basic Research Laboratories, Tokyo Institute of Technology

PTu10 : Mapping of spin-resolved quantum Hall chiral edge channels

S. Nomura, S. Mamyouda, H. Ito, Y. Shibata, Y. Ootuka, S. Kashiwaya, M. Yamaguchi, H. Tamura and T. Akazaki

University of Tsukuba, AIST, NTT Basic Research Laboratories

PTu11 : Giant photoresistance and a new class of microwave-induced resistance oscillations in GaAs/AlGaAs quantum wells

M. Zudov, P. Martin, A. Hatke, J. Watson, M. Manfra, L. Pfeiffer, K. West

University of Minnesota, Purdue University, Princeton University

PTu12 : A nanoelectromechanical resonator embedded in a microelectromechanical resonator

N. Perrissin, I. Mahboob, K. Nishiguchi, D. Hatanaka, Y. Okazaki, A. Fujiwara and H. Yamaguchi

NTT Basic Research Laboratories

PTu13 : Highly stabilized carrier-envelope-offset frequency of an Er-doped mode-locked fiber laser with a dual-pitch PPLN waveguide

K. Hitachi, A. Ishizawa, T. Nishikawa, M. Asobe, T. Sogawa

NTT Basic Research Laboratories, NTT Photonics Laboratories

PTu14 : Nonclassical mechanical states in a optomechanical micromaser analogue

P. D. Nation

Korea University

PTu15 : III-V semiconductor nanowires on graphene

K. Tateno, G. Zhang, H. Gotoh

NTT Basic Research Laboratories

PTu16 : Three-dimensional fabrication using electron beam writing for creating nanodevices in hard materials

Kenji Yamazaki, Hiroshi Yamaguchi

NTT Basic Research Laboratories

PTu17 : Picosecond photocurrents in single-walled carbon nanotubes

Jacob Ducke, Christoph Karnetzky, Alexander Holleitner

Technische Universität München

PTu18 : Electrical tuning of phononless optical transition by controlling valley splitting in silicon MOSFETs

J. Noborisaka, A. Fujiwara

NTT Basic Research Laboratories

PTu19 : Strain characterization of InP/InAs heterostructure nanowires

G. Zhang, S. Nagakawa, K. Tateno, T. Sogawa, H. Gotoh

NTT Basic Research Laboratories, Toyohashi University of Technology

PTu20 : Tunable g factor and phonon-mediated hole spin relaxation in Ge/Si nanowire quantum dots

Franziska Maier, Christoph Kloeffel, and Daniel Loss

University of Basel

PTu21 : Non-local Aharonov-Bohm effects in transport through a quantum dot capacitively coupled to a non-equilibrium interferometer

T. Kubo, Y. Tokura

University of Tsukuba, NTT Basic Research Laboratories

PTu22 : Magneto electronics with quantum dots

S. Datta, A. D. Crisan, J.J. Viennot, M.R. Delbecq, C. Feuillet-Palma, A. Cottet and T. Kontos

Laboratoire Pierre Aigrain, Ecole Normale Supérieure

PTu23 : Ultrafast charge and spin dynamics in individual quantum dot molecules with Coulomb and tunneling coupling mechanisms

A. Bechtold, K. Müller, P.L. Ardelt, J.J. Finley

Technische Universität München

PTu24 : Quantum pumping in quantum dot system

M. Taguchi, S. Nakajima, T. Kubo and Y. Tokura

University of Tsukuba

PTu25 : Dynamic polarization and resistive detection of nuclear spins in a quantum dot under the Kondo effect regime

Minoru Kawamura, Daniel Gottwald, Keiji Ono, Tomoki Machida, Kimitoshi Kono

RIKEN Center for Emergent Matter Science, University of Tokyo

PTu26 : Generation and measurements of small exchange fields in S/F structures

A.S. Vasenko, S. Kawabata, A. Ozaeta, A.A. Golubov, F.S. Bergeret, and F.W.J. Hekking

Université Joseph Fourier and CNRS, ESPRIT National Institute of Advanced Industrial Science and Technology, University of Twente

PTu27 : Kondo effect in heat transport via a two-state system

T. Kato, K. Saito

The University of Tokyo, Keio University

PTu28 : Atom manipulation on quantum structures

K. Suzuki, K. Onomitsu, S. Fölsch, K. Kanisawa

NTT Basic Research Laboratories, Paul-Drude-Institut für Festkörperelektronik

PTu29 : T_1 and T_2 of ^{69}Ga, ^{71}Ga and ^{75}As nuclear spins in variously-doped GaAs substrates

K. Matsumoto, T. Shimizu, T. Miura, T. Ohtaki, and S. Sasaki

Niigata University

PTu30 : Novel applications of spin noise spectroscopy

Y. V. Pershin, V. A. Slipko, D. Roy, N. A. Sinitsyn

University of South Carolina, V. N. Karazin Kharkov National University, Los Alamos National Laboratory

Joint Poster Session with 6th NTT-BRL School

PTu31/S1 : Spontaneous alloy composition ordering in GaAs-AlGaAs core-shell nanowires

D. Rudolph, S. Funk, M. Döblinger, S. Morkötter, S. Hertenberger, L. Schweickert, J. Becker, S. Matich, M. Bichler, D. Spirkoska, I. Zardo, J. J. Finley, G. Abstreiter, and G. Koblmüller

Technische Universität München

PTu32/S2 : Selective fiber excitation of resonant modes in rolled-up microcavities

S. Böttner, S. L. Li, M. R. Jorgensen, and O. G. Schmidt

IFW Dresden, TU Chemnitz, TU Dresden

PTu33/S3 : Fast triggered single-photon emission from a nanomembrane-based wavelength-tunable light-emitting diode

J. Zhang, F. Ding, E. Zallo, R. Trotta, B. Höfer, L. Han, S. Kumar, Y. Huo, A. Rastelli, and O. G. Schmidt

IFW Dresden,TU Chemnitz, JKU Linz

PTu34/S4 : Directed emission of spontaneous emission into guided modes of photonic crystal nanostructures

T. Reichert, S. Lichtmannecker, M. Zeitlmair, G. Reithmaier, J. Wembacher, M. Bichler, K. Müller, M. Kaniber, and J. J. Finley

Technische Universität München

PTu35/S5 : Express optical analysis of epitaxial graphene on SiC: Impact of morphology on quantum transport

T. Yager, A. Lartsev, S. Mahashabde, S. Charpentier, D. Davidovikj, A. Danilov, R. Yakimova, V. Panchal O. Kazakova, A. Tzalenchuk, S. Lara-Avila, and S. Kubatkin

Chalmers University of Technology, Linkoping University, National Physical Laboratory, Royal Holloway University of London

PTu36/S6 : Influence of microstructure on optical properties of uniform InGaAs nanowire arrays on Si

S. Morkötter, S. Funk, M. Liang, S. Hertenberger, J. Treu, D. Rudolph, M. Döblinger, J. Becker, M. Bichler, I. Zardo, J. J. Finley, G. Abstreiter, and G. Koblmüller

Technische Universität München

PTu37/S7 : Enhanced luminescence properties of passivated InAs-InAsP core-shell nanowires

J. Treu, M. Bormann, H. Schmeiduch, M. Döblinger, S. Morkötter, S. Matich, P. Wiecha, K. Saller, B. Mayer, M. Bichler, M.-C. Amann, G. Abstreiter, J. J. Finley, and G. Koblmüller

Technische Universität München

PTu38/S8 : Enhanced optical emission from individual InGaAs quantum dots with proximal lasmonic nanoantennas

K. Schraml, M. Spiegl, M. Kammerlocher, G. Bracher, B. Mayer, K. Müller, M. Bichler, J.J. Finley and M. Kaniber

Technische Universität München

PTu39/S9 : Silicon-vacancy centre in diamond: Optical signatures of spin

B. Pingault, T. Müller, C. Hepp, E. Neu, C. Becher and M. Atatüre

Cambridge University, Universität des Saarlandes

S10 : Influence of step edges in epitaxial graphene on quantum transport properties and their further utilization for the growth of graphene nanoribbons

T. Schumann, M. H. Oliveira Jr., K.-J. Friedland, J. M. J. Lopes, and H. Riechert

Humboldt University Berlin / Paul-Drude-Institut Berlin

S11 : Single-donor spins in isotopically purified silicon: A new benchmark for solid-state qubits

J. P. Dehollain, J. T. Muhonen, F. E. Hudson, K. M. Itoh, D. N. Jamieson, A. S. Dzurak, and A. Morello

University of New South Wales, Keio University, University of Melbourne

S12 : Large-scale quantum optics starts with a useful on-chip two-photon source

J. Silverstone, D. Bonneau, K. Ohira, N. Suzuki, H. Yoshida, N. Iizuka, M. Ezaki, R. Hadfield, V. Zwiller, J. Rarity, J. O'Brien, and M. Thompson

University of Bristol

S13 : Weak-value amplification offers no fundamental advantage for overcoming technical imperfections

G. Knee and E. Gauger

University of Oxford

S14 : Opto-electronic properties of atomically thin MoS_2

M. Buscema, M. Barkelid, V. Zwiller, H.S.J van der Zant, G.A. Steele, and A. Castellanos-Gomez

Delft University of Technology

S15 : Transport of quantum spin information under realistic experimental conditions

F. A. Mohiyaddin, R. Kalra, A. Laucht, and A. Morello

The University of New South Wales

S16 : Tunable g factor and phonon-mediated hole spin relaxation in Ge/Si nanowire quantum dots

F. Maier, C. Kloeffel and D. Loss

University of Basel

S17 : Semiconductor nanostructures for generation of polarization-entangled photons

E. Chernysheva, S. Lazić, and J.M. Calleja

Universidad Autonoma de Madrid

S18 : Fast qubit gates for single electrons in double quantum dots

J. C. Lemyre, C. Bureau-Oxton, F. Qassemi, and M. Pioro-Ladrière

Université de Sherbrooke

S19 : Transport spectroscopy of a single acceptor in silicon

J. van der Heijden, J. A. Mol, J. Verduijn, J. Salfi, G. C. Tettamanzi, A. Hamilton, N. Collaert, and S. Rogge

University of New South Wales

S20 : Efficiency enhancement of green emitting InGaN/GaN quantum wells

J. Wang, T. Meisch, and F. Scholz

Institute of Optoelectronics, Ulm University

S21 : Single pass high harmonic generation at multi-MHz repetition rates

A. Vernaleken, J. Weitenberg, T. Sartorius, P. Russbueldt, T.W. Hänsch, and Th. Udem

Max-Planck-Institute of Quantum Optics

S22 : Performance optimization of sub-wavelength platinum nanobolometers

P. Renoux

University of Iceland

S23 : Ultra-fast control of the coupling strength between a single-electron spin qubit and a superconducting microwave resonator for hybrid quantum circuits

D. Lachance-Quirion, F. Beaudoin, F. Michaud, W. A. Coish and M. Pioro-Ladrière

Université de Sherbrooke

S24 : Nano-clustering of GdN in dilute Gd-doped GaN

M. Wu, S. C. Erwin and A. Trampert

Paul-Drude-Institute for Solid State Electronics

S25 : Fabrication of O-TFT spin devices to probe spin polarization in organic semiconductors

L. Du, ing. J.G.M. Sanderink, K. Wang, and M. P. de Jong

University of Twente

S26 : Coupling transmon qubit to SCPW cavity

Y-C. Chang, S. Liou, J-Y. Wang and C-D. Chen

National Taiwan University, Academia sinica

S27 : Ultra stable frequency transfer via long-haul fiber links for metrological applications

S. Droste, Th. Udem, T. W. Hänsch, R. Holzwarth, F. Ozimek, H. Schnatz, and G. Grosche

Max Planck Institute of Quantum Optics, Physikalisch-Technische Bundesanstalt

S28 : Phase coherence and energy relaxation in epitaxial graphene under microwave radiation

V. Eless, T. Yager, S. Spasov, S. Lara-Avila, R. Yakimova, S. Kubatkin, T.J.B.M. Janssen, A. Tzalenchuk, and V. Antonov

National Physical Laboratory, Royal Holloway University of London,

Chalmers University of Technology, Linkoping University

S29 : Superconducting single photon detectors (SSPDs)

N. Tyler, G. Barreto, J. O'Brien, and M. Thompson

University of Bristol

S30 : Toward long coherence time spin control: Characterization of silicon quantum dots and micro-magnets integration

S. Rochette, M. P. Lilly, G. T. Eyck, M. S. Carroll, and M. Pioro-Ladrière.

Université de Sherbrooke, Sandia National Laboratories

S31 : Nanoantennas for superconducting nanowire single photon detectors

K. A. Sunter, A. E. Dane, and K. K. Berggren

Massachusetts Institute of Technology

S32 : Time resolved experiments with electrons

M. Santin, B. Roche, T. Jullien, J. Dubois, P. ROulleau, D. C. Glattli, X. Waintal, B. Gaury, M. Houzet, J. Weston, and C. Groth

CEA Saclay, CEA Grenoble

S33 : Phase sensitive measurements in graphene-based Andreev interferometry

M. Kim, D. Jeong, G-H. Lee, Y-S. Shin, H-W. Lee, and H-J. Lee

Pohang University of Science and Technology (POSTECH)

S34 : Spin torque transistor with a magnetic insulator and spin Hall effect

T. Chiba, G. E. W. Bauer and S. Takahashi

Tohoku University

S35 : Magnetoelectric effect in topological insulator films beyond linear response regime

D. Baasanjav, O. A. Tretiakov and K. Nomura

Tohoku University

Poster Session Ⅱ (Nov. 27th, Wednesday)

17:40～19:20

PWe1 : Quasi-magnon dynamics on hybrid superconducting qubit and nitrogen vacancy centers in diamond

Ali Ü.C. Hardal, Peng Xue, Yutaka Shikano, Özgür E. Müstecaplıoğlu, and Barry C. Sanders

Institute for Molecular Science, Koc University, Southeast University, University of Calgary

PWe2 : Critical transport properties of chiral-glass transition in ceramic YBCO superconductor

H. Deguchi, Y. Kato, Y. Sasaki, M. Mito, M. Hagiwara, K. Koyama

Kyushu Institute of Technology, Kyoto Institute of Technology, The University of Tokushima

PWe3 : Observation of Bloch oscillation and current plateaus in an array of small Josephson junctions embedded in dc-SQUIDs network

Srinivas Gandrothula, Shunsuke Katori, Tomaoki Deguchi, Yoshinao Mizugaki, Hiroshi Shimada

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PWe4 : Toward a scalable architecture for superconducting qubits

P.-M. Billangeon, J. S. Tsai, Y. Nakamura

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PWe5 : Quantization of the Josephson critical current in superconductor/semiconductor hybrid quantum point contacts

H. Irie, Y. Harada, H. Sugiyama, T. Akazaki

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PWe6 : Coherent flux tunneling through NbN and TiN nanowires

J. T. Peltonen, O. V. Astafiev, J. S. Tsai

RIKEN, NEC, Royal Holloway, University of London

PWe7 : Higher-order sideband transitions and sideband Rabi oscillations in a superconducting flux qubit coupled to a SQUID plasma mode

Y. Shimazu, M. Takahashi, N. Okamura

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PWe8 : Supercurrent through Josephson junction of InAs self-assembled quantum dots coupled to Nb superconductors

S. Baba, J. Sailer, R.S. Deacon, A. Oiwa, K. Shibata, K. Hirakawa and S. Tarucha

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PWe9 : Transport-spectroscopy probing of energy broadening of Landau levels in epitaxial graphene on SiC

K. Takase, H. Hibino, K. Muraki

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PWe10 : Semiclassical electron dynamics in graphene-like materials

C. M. Puetter, S. Konabe, Y. Hatsugai, K. Shiraishi, Y. Tokura

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PWe11 : Giant negative magnetoresistance in 2D electron gas

M. Zudov, Q. Shi, P. Martin, Q. Ebner, B. Shklovskii, L. Pfeiffer, K. West

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PWe12 : Multimode parametric resonance dynamics in an electromechanical resonator

I. Mahboob, M. Mounaix, K. Nishiguchi, A. Fujiwara and H. Yamaguchi

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PWe13 : Inverse Landau-Zener-Stueckelberg problem for probing nanomechanical resonators via qubits

S.N. Shevchenko, S. Ashhab, F. Nori

RIKEN, B. Verkin Institute for Low Temperature Physics and Engineering, V. Kharkov National University, University of Michigan

PWe14 : Dynamic manipulation of propagating mechanical oscillations in a cavity-embedded phononic crystal waveguide

D. Hatanaka, I. Mahboob, K. Onomitsu, H. Yamaguchi

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PWe15 : Wavelength shift in MEMS-integrated photonic crystal nanobeam cavity: Effects of adjacent waveguide width

Ryuichi Ohta, Yasutomo Ota, Satoshi Iwamoto and Yasuhiko Arakawa

University of Tokyo

PWe16 : Preparation and photoluminescence measurements of bent InP nanowires

Masumi Yamaguchi, Masaaki Ono, Guoqiang Zhang, Hideki Goto, Yuichi Harada, David Cox and Hiroshi Yamaguchi

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PWe17 : Electrical properties of InAs nanowires and their interband tunneling across Si heterojunctions for future FET devices

Pascal Wittlich, Stefanie Morkoetter, Tao Yang, Julian Treu, Simon Hertenberger, Philipp Geselbracht, Verena Hintermayr, Max Bichler, Gerhard Abstreiter and Gregor Koblmueller

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PWe18 : Encapsulated gate-all-around InAs nanowire field-effect transistors with self-aligned HSQ/Al electrodes

S. Sasaki, G. Zhang, K. Tateno, T. Ziebarth, Y. Harada, S. Saito, A. Fujiwara, T. Sogawa, K. Muraki

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PWe19 : Self-assembling properties of cylinder-forming diblock copolymer of polystyrene and polydimethylsiloxane on a sub-10 nm scale

T. Yamaguchi, A. Fujiwara

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PWe20 : Phonon lasing and its detection in semiconductor double quantum dots embedded in nanomechanical resonator

Rin Okuyama, Mikio Eto, Tobias Brandes

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PWe21 : Study of Cooper-pair recombination in InAs quantum dot heterostructure

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PWe22 : Spin dynamics of single heavy-holes in III-V quantum dots

S. Chesi, X. J. Wang, W. A. Coish

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PWe23 : Spin current induced by an adiabatic pump of quantum dots

Satoshi Nakajima, M. Taguchi, T. Kubo and Y.Tokura

University of Tsukuba

PWe24 : Photon-mediated electron transport in hybrid circuit-QED

Neill Lambert, Christian Flindt and Franco Nori

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PWe25 : **Nonequilibrium current through correlated dot with orbital degeneracy**

R. Sakano, A. Oguri, Y. Nishikawa, A. C. Hewson

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PWe26 : Nonequilibrium quantum-dot cellular automata effect in a three-terminal triple quantum dot

Takashi Kobayashi, Takeshi Ota, Satoshi Sasaki and Koji Muraki

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PWe27 : Magnetizations of the ...Co][Co_{1-c}Gdc] $_Q$ [Co] $_Q$ [Co_{1-c}Gdc] $_Q$ [Co... nanojunction spin system between Co leads by Ising methods, and of its SW transport properties by the PFMT theory

V. Ashokan, M. Abou Ghantous, D. Ghader, A. Khater

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PWe28 : Electronic structure of two-dimensional cation lattice at the InAs(111)A surface

K. Kanisawa, H. Tamura

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PWe29 : (Cancelled)

PWe30 : Control of spin geometric phase in semiconductor quantum rings

F. Nagasawa, D. Frustaglia, H. Saarikoski, K. Richter, and J. Nitta

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PWe31 : Bias and temperature dependences of perpendicularly polarized spin injection in $L1_0$-FePt / MgO / GaAs spin injection devices

R. Ohsugi, J. Shiogai, M. Kohda, Y. Kunihashi, H. Sanada, T. Seki, Y. Sakuraba, M. Mizuguchi, H. Gotoh, T. Sogawa, K. Takanashi, and J. Nitta

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PWe32 : Wave propagation in Josephson junction array transmission lines

J.Y. Wang, S. Liou, Y.C. Chang, T.H. Lee, C.S. Wu, W. Kuo, and C.D. Chen

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