

Poster Session (Day 3: Jan. 29, 13:30 – 15:00 at Takeda Hall)

- P01 **Satoshi Kashiwaya** (AIST)
Topological Superconductivity of Sr_2RuO_4
- P02 **Sho Nakosai** (University of Tokyo)
Topological Superconductivity with Magnetic Material Attached on s-Wave Superconductor
- P03 **Alexandr V. Rozhkov** (Russian Academy of Sciences)
Majorana Fermions in Pinned Vortices
- P04 **Akira Oiwa** (University of Tokyo)
Supercurrent in Nb/InSb Nanowire Josephson Junctions
- P05 **Tomohiro Yokoyama** (RIKEN)
Anomalous Transport by Spin-Orbit Interaction in Semiconductor Nanowire Josephson Junction
- P06 **Ryohei Wakatsuki** (University of Tokyo)
Transport Property of Ladder InSb Nanowire System
- P07 **Henri Saarikoski** (RIKEN)
Topological Transitions of Spin Geometric Phases in Quantum Rings
- P08 **Sandor Bordács** (University of Tokyo)
Landau Level Spectroscopy of Dirac Electrons in a Polar Semiconductor with Giant Rashba Spin Splitting
- P09 **Naoki Ogawa** (RIKEN)
Spin Photocurrent in Bulk Rashba Semiconductor BiTeX
- P10 **Takashi Oka** (University of Tokyo)
Floquet Theory of Photo-Induced Topological Phase Transitions
- P11 **Masahiro Sato** (Aoyama Gakuin University)
Laser-Induced Magnetization Curves and a Topological Plateau State in Quantum Magnets
- P12 **Ko Kikutake** (University of Tokyo)
Zero-Energy Edge States in Silicene Nanodisks
- P13 **Denis Maryenko** (RIKEN)
 MgZnO/ZnO Transport at Large Tilt Angle and in a Field up to 33 Tesla
- P14 **Joseph Falson** (University of Tokyo)
Odd Even-Denominator Fractional Quantum Hall Physics in ZnO
- P15 **Kyoichi Suzuki** (NTT Basic Research Laboratories)
Two-Dimensional Topological Insulating Phase in InAs/GaSb Heterostructures
- P16 **Koji Kobayashi** (Sophia University)
Emergent Critical Phenomena in Disordered Dirac Semimetal in 3D
- P17 **Bohm-Jung Yang** (RIKEN)
Quantum Criticality of Topological Phase Transitions in 3D Interacting Electronic Systems

- P18 **Ryutaro Yoshimi** (University of Tokyo)
Dirac Electron States Formed at Heterointerface between a Topological-Insulator and a Conventional Semiconductor
- P19 **Jobu Matsuno** (RIKEN)
Engineering Spin-Orbital Magnetic Insulator by Tailoring Superlattices
- P20 **Kei Shinada** (University of Tokyo)
Surface and Bulk Electronic Structures of Ternary Topological Insulators
- P21 **Kosuke Saito** (University of Tokyo)
Fermi Level Tuning of 3D Topological Insulator Bi_2Te_3 by Electrochemical Cu-Intercalation
- P22 **Masato Sakano** (University of Tokyo)
Observation of Out-of-Plane Spin Polarization at the Brillouin Zone Corners in Noncentrosymmetric Transition Metal Dichalcogenide
- P23 **Yu Saito** (University of Tokyo)
Two Dimensionality in Electric Field Induced Superconductivity
- P24 **Ayako Yamamoto** (RIKEN)
Bismuth Dichalcogenides, BiX_2 (X=S, Se) with X_2 Dimer
- P25 **Hideaki Sakai** (University of Tokyo)
Electron-Doping-Induced Insulator-to-Superconductor Transition in a BiS_2 -Based Superconductor $\text{Sr}_{1-x}\text{La}_x\text{FBiS}_2$
- P26 **Shintaro Takayoshi** (NIMS)
Field Theory of Symmetry Protected Topological Phase in Magnets
- P27 **Aron J. Beekman** (RIKEN)
Liberating the Rotational Goldstone Modes in Quantum Liquid Crystals
- P28 **Nayuta Takemori** (Tokyo Institute of Technology)
Local Electron Correlations in Quasi-Periodic Systems
- P29 **Keisuke Shibuya** (AIST)
Strain Effect on the Metal-Insulator Transition Temperature in VO_2 Thin Films
- P30 **Takafumi Hatano** (RIKEN)
Electrostatic Control of Metal-Insulator Transition in Thin Films of Strongly Correlated Manganites
- P31 **Neeraj Kumar** (AIST)
Field Effect Transistor on SrTiO_3 Surface with Parylene-C/ HfO_2 Hybrid Gate Insulator
- P32 **Kei S. Takahashi** (RIKEN)
Magnetotransport Properties of Delta-Doped SrTiO_3 Grown by Metal Organic Gas Source Molecular Beam Epitaxy

- P33 **Yuya Matsubara** (RIKEN)
Polar Metallic State in La-Doped BaTiO₃ Film Grown by Gas Source Metal Organic Hybrid Molecular Beam Epitaxy
- P34 **Masao Nakamura** (RIKEN)
Photovoltaic Effect and Induced Polar State in Heterojunctions of LaFeO₃
- P35 **Suvankar Chakraverty** (RIKEN)
Topological Spin Textures in Centro-Symmetric Oxide Thin Films and Interfaces
- P36 **Jun Fujioka** (University of Tokyo)
Spin-Orbital Superstructure in Strained Ferrimagnetic Perovskite Cobalt Oxide
- P37 **Samuel Tardif** (RIKEN)
X-Ray Imaging of All-in/All-out Magnetic Domains in the Pyrochlore Cd₂Os₂O₇
- P38 **Kentaro Ueda** (University of Tokyo)
Anomalous Domain-Wall Conductance in Pyrochlore-Type Nd₂Ir₂O₇ on the Verge of Metal-Insulator Transition
- P39 **Youtarou Takahashi** (University of Tokyo)
Magnetoelectric Resonance with Electromagnons in Helimagnet
- P40 **Toshiaki Tanigaki** (RIKEN)
Split-Illumination Electron Holography
- P41 **Junichi Iwasaki** (University of Tokyo)
Magnon-Skyrmion Scattering in Chiral Magnets: From the Viewpoint of Momenta Exchange
- P42 **Daisuke Morikawa** (RIKEN)
Crystal Chirality and Skyrmion Helicity in MnSi and (Fe,Co)Si as Determined by TEM
- P43 **Yoichi Nii** (RIKEN)
Elastic Properties of Skyrmion Crystal in MnSi
- P44 **Tomoyuki Yokouchi** (University of Tokyo)
Stability of Two-Dimensional Skyrmions in Thin Films of Mn_{1-x}Fe_xSi as Investigated by Topological Hall Effect
- P45 **Kiyohito Shibata** (University of Tokyo)
Observation of Skyrmions and their Helicity in Composition-Spread Helimagnets Mn_{1-x}Fe_xGe
- P46 **Sunao Shimizu** (RIKEN)
Electrochemically Induced Large Magnetic Moments in Pt through Ionic Liquid Gating
- P47 **Hiroki Isobe** (University of Tokyo)
Enhancement of Spin-Orbit Interaction by Electron Correlation
- P48 **Satoru Hayami** (University of Tokyo)
Toroidal Order in Metals on Hexagonal Lattices

- P49 **Atsushi Tsurumaki-Fukuchi** (AIST)
Ferroelectric Resistive Switching Effect in Dielectric/Ferroelectric Heterostructures
- P50 **Fumitaka Kagawa** (RIKEN)
Possible Quantum Tunneling of Ferroelectric Domain Walls
- P51 **Yusuke Tokunaga** (RIKEN)
Magnetically Biased *P-E* Loop in a Multiferroic Orthoferrite
- P52 **Hiroshi Oike** (RIKEN)
A Generalized Mott Transition in a Doped Superconductor
- P53 **Hiroyasu Koizumi** (University of Tsukuba)
Spin-Vortex-Induced Loop Currents in High T_c Cuprate Superconductors
- P54 **Yusuke Nomura** (University of Tokyo)
Ab Initio Downfolding Method for Electron-Phonon Coupled Systems: Application to Iron-Based and C_{60} Superconductors
- P55 **Franco Nori** (RIKEN & University of Michigan)
Phase Separation in Systems with Imperfect Nesting, Including Pnictides and Graphene
- P56 **Hidehiro Asai** (AIST)
The Effect of Inter-Band Phase Fluctuations on Macroscopic Quantum Tunneling with Multi-Gap Superconducting Josephson Junctions
- P57 **Taichiro Nishio** (Tokyo University of Science)
Experimental Approach to Observe a Topological Soliton in Multiband Superconductors
- P58 **Yasumoto Tanaka** (AIST)
First Order Phase Transition below the Superconducting Transition Temperature in Frustrated Multi-Band Superconductors
- P59 **Takashi Yanagisawa** (AIST)
Nambu-Goldstone Bosons, Higgs Particles and Leggett Modes in Superconductors and an Analogy to the Theory of Elementary Particles
- P60 **Takashi Nakajima** (RIKEN)
Scaling-up Spin Qubits in Semiconductor Quantum Dots
- P61 **Tomohiro Otsuka** (RIKEN)
Fast Single Spin Operation in Semiconductor Quantum Dots
- P62 **Rui Li** (Beijing Computational Science Research Center & RIKEN)
Controlling a Nanowire Spin-Orbit Qubit via Electric-Dipole Spin Resonance
- P63 **Neill Lambert** (RIKEN)
Photon-Mediated Electron Transport in Hybrid Circuit-QED
- P64 **Giles Allison** (University of Tokyo)
Coupling between Single Photons and Single Electron Spins in Gate-Defined Double Quantum Dots

- P65 **Giorgos Giavaras** (RIKEN)
Tunable Quantum Dots in Graphene
- P66 **Shuji Nakamura** (AIST)
Temperature and Magnetic Field Dependence of a SINIS Single Electron Pump
- P67 **Michihisa Yamamoto** (University of Tokyo)
Electron Flying Qubit and Measurement of the Kondo Phase Shift
- P68 **Akihiro Ishii** (University of Tokyo)
Giant Circular Dichroism in Individual Carbon Nanotubes
- P69 **Masahiro Yoshida** (University of Tokyo)
Spontaneous Exciton Dissociation in Carbon Nanotubes
- P70 **Takuya Matsuda** (Osaka Prefecture University)
Theory of Luminescence from Weakly Confined Excitons with Anomalous Radiative Correction
- P71 **Natsuko Ishida** (RIKEN)
Photoluminescence of a Coupled Quantum Dot-Microcavity System in the Quantum Strong-Coupling Regime
- P72 **Ryosuke Hata** (Osaka Prefecture University)
Up-Conversion of Photon Energy by Two-Level Molecule Coupled to Highly-Detuned Nano-Antenna
- P73 **Takashi Shimada** (University of Tokyo)
Optical Control of Individual Carbon Nanotube Emitters by Spectral Double Resonance in Silicon Microdisk Resonators
- P74 **Yutaka Shikano** (Institute for Molecular Science)
Visualization of Polarized Quantum State with Optical Vortex Beam
- P75 **Xinyou Lü** (RIKEN)
Quantum-Criticality-Induced Strong Kerr Nonlinearities in Optomechanical Systems
- P76 **Tsubasa Ichikawa** (Gakushuin University)
Implementing Continuous Variable Quantum Key Distribution with Discrete Modulations
- P77 **Yujiro Eto** (Gakushuin University)
Control of Spins of Bose-Condensed Atoms
- P78 **Atsushi Noguchi** (Osaka University)
Quantum Superposition of Crystalline Structure in Linear Paul Trap
- P79 **Shunsuke Furukawa** (University of Tokyo)
Global Phase Diagram of Two-Component Bose Gases in a Time-Reversal-Invariant Gauge Field
- P80 **Ebubechukwu O. Ilo-Okeke** (National Institute of Informatics)
Improved Deutsch's Algorithm Using Nondestructive Imaging of Bose-Einstein Condensates

- P81 **Elham Hosseini** (Osaka City University)
Implementation of Two-Qubit Gate Operation on Selected Neutral Atom Qubits
- P82 **Kenji Toyoda** (Osaka university)
Quantum Simulation of the Jaynes-Cummings-Hubbard Model Using Trapped Ions
- P83 **Hikaru Wakaura** (University of Tsukuba)
Simulation of Grover's Search Algorithm Using the Spin-Vortex-Induced Loop Currents in the Cuprate
- P84 **Keisuke Fujii** (Kyoto University)
Measurement-Free Topological Protection Using Dissipative Feedback
- P85 **Akinori Kagawa** (Osaka University)
Towards Quantum Simulation of Magnetic Phase Transition Using Highly Polarized Nuclear Spins
- P86 **Makoto Negoro** (Osaka University)
Quantum Non-Demolition Measurement with Nuclear Spin Amplification
- P87 **Zeliang Xiang** (RIKEN)
Hybrid Quantum Circuit Consisting of a Superconducting Flux Qubit Coupled to a Spin Ensemble and a Transmission-Line Resonator
- P88 **Takeji Takui** (Osaka City University)
Molecular Optimization of Synthetic Electron Spin Qubits and Ensemble Electron Spin Manipulation Technology for QC/QIP
- P89 **Kazunobu Sato** (Osaka City University)
Novel Quantum Coherence in a High Nuclear-Spin Degenerate System Observed by Pulsed ESR Spectroscopy
- P90 **Kenji Sugisaki** (Osaka City University)
Towards Quantum Chemistry by Quantum Computing from the Quantum Chemist's Side
- P91 **Satoru Yamamoto** (Osaka City University)
Pulse Sequences of Adiabatic Quantum Computing in a Molecular Spin Quantum Computer