

List of poster presentations

1. “Optical probing and dynamics of single Cr spin in a semiconductor quantum dot”
Alban Lafuente-Sampietro^(1,2), Hayato Utsumi^(1,2), Masahiro Sunaga⁽¹⁾, Hervé Boukari⁽²⁾, Lucien Besombes⁽²⁾, Shinji Kuroda⁽¹⁾
Univeristy of Tsukuba⁽¹⁾, Institut Néel, CNRS⁽²⁾
2. “Charge state control of NV center by nin diamond”
T. Murai⁽¹⁾, T. Makino⁽²⁾, H. Kato⁽²⁾, Y. Doi⁽¹⁾, Y. Suzuki⁽¹⁾, M. Hatano⁽³⁾, S. Yamasaki⁽²⁾, M. Shimizu⁽⁴⁾, H. Morishita⁽⁵⁾, M. Fujiwara⁽⁵⁾, N. Mizuochi⁽⁵⁾
Osaka University⁽¹⁾, AIST⁽²⁾, Tokyo Institute of Technology⁽³⁾, Tokyo University of Science⁽⁴⁾, Kyoto University⁽⁵⁾
3. “Geometric phase shift for highly sensitive sensing using single spin in solids”
Takaaki Shimo-Oka, Norikazu Mizuochi
Kyoto University
4. “Three-dimensional photonic crystal circuits integrating a nanocavity laser and waveguides”
Takeyoshi Tajiri⁽¹⁾, Shun Takahashi⁽²⁾, Yasutomo Ota⁽²⁾, Katsuyuki Watanabe⁽²⁾, Satoshi Iwamoto⁽²⁾, Yasuhiko Arakawa⁽²⁾
IIS. Univ. of Tokyo⁽¹⁾, NanoQuine, Univ. of Tokyo.⁽²⁾
5. “Realization of Topological Interface State of Elastic Wave in 1D Phononic Crystal”
Ingi Kim⁽¹⁾, Satoshi Iwamoto^(1,2), Yasuhiko Arakawa^(1,2)
IIS, Univ. of Tokyo.⁽¹⁾, NanoQuine, Univ. of Tokyo.⁽²⁾
6. “Topological phase transition in single-wall carbon nanotube”
Rin Okuyama⁽¹⁾, Wataru Izumida⁽²⁾, Mikio Eto⁽¹⁾
Keio University⁽¹⁾, Tohoku University⁽²⁾
7. “Quantum gas microscope for single Yb atom in optical lattice”
Shuya Yamanaka, Ryuta Yamamoto, Shinichi Sunami, Yoshiki Amano, Yutaro Suzuki, Jun Kobayashi, Yuto Sakura, Y. Takahashi
Kyoto University

8. “Quantum metrology including state preparation and readout times”
Shane Dooley⁽¹⁾, Kae Nemoto⁽¹⁾, William J. Munro⁽²⁾
NII⁽¹⁾, NTT Basic Research Laboratories ⁽²⁾
9. “Interaction-Free Measurement of Silicon-Vacancy Center Spins: An Alternative Platform for Quantum Communication?”
Michael Hanks⁽¹⁾, Kae Nemoto⁽¹⁾, William J. Munro⁽²⁾, Nicolo Lo Piparo⁽¹⁾
NII⁽¹⁾, NTT Basic Research Laboratories ⁽²⁾
10. “Modulation of exciton energies via mechanical resonance”
Ryuichi Ohta, Hajime Okamoto, Hiroshi Yamaguchi
NTT Basic Research Laboratories
11. “Effect of turbostratic stacking on the electrical transport properties in multilayer graphene nanoribbon device”
Ryota Negishi⁽¹⁾, Katsuma Yamamoto⁽¹⁾, Reetu Raj Pandey⁽²⁾, Taizo Fujiwara⁽²⁾, Hirofumi Tanaka⁽²⁾, Yoshihiro Kobayashi⁽¹⁾
Osaka University⁽¹⁾, Kyushu Institute of Technology⁽²⁾
12. “Ballistic transport characteristics of multilayer graphene”
Nobuya Mori ⁽¹⁾, Futo Hashimoto ⁽¹⁾
Osaka University ⁽¹⁾
13. “Transport gap formation in strained graphene”
Hikari Tomori^(1,2), Kazushi Nakamura⁽¹⁾, Naoki Hoshi⁽¹⁾, Akinobu Kanda⁽¹⁾
Univ. Tsukuba⁽¹⁾, JST⁽²⁾
14. “Simplified estimation of crystallographic orientation of strained graphene by micro-Raman spectroscopy”
Kazushi Nakamura⁽¹⁾, Hikari Tomori^(1,2), Naoki Hoshi⁽¹⁾, Akinobu Kanda⁽¹⁾
Univ. Tsukuba⁽¹⁾, JST⁽²⁾
15. “Quantum point contact with flat potential barriers”
Tomosuke Aono
Ibaraki Univ.

16. “Formation of Tunnel Barriers in MultiWall Carbon Nanotubes by Focused Ion Beam Irradiation”
Hiroshi Tomizawa⁽¹⁾, Norizzawati M. Ghazali⁽¹⁾, Katsuya Suzuki⁽¹⁾, Noriyuki Hagiwara⁽¹⁾, Tomohiro Yamaguchi⁽¹⁾, Seiji Akita⁽²⁾, Koji Ishibashi⁽¹⁾
RIKEN⁽¹⁾, Osaka Prefecture University⁽²⁾
17. “Single-qubit simulation with silicon spin ”
Keiji Ono⁽¹⁾ · Takahiro Mori⁽²⁾ · Satoshi Moriyama⁽³⁾
RIKEN⁽¹⁾ · AIST⁽²⁾ · NIMS⁽³⁾
18. “Quantum structures consisting of single-walled carbon nanotubes and molecules”
Akira Hida⁽¹⁾, Takayuki Suzuki^(1,2), Koji Ishibashi⁽¹⁾
RIKEN⁽¹⁾, Tokyo University of Science⁽²⁾
19. “Signatures of 4pi periodicity in the dynamics of HgTe Josephson junctions”
R.S. Deacon⁽¹⁾, J. Wiedenmann⁽²⁾, E. Bocquillon⁽²⁾, T. Klapwijk⁽³⁾, O. Herrmann⁽²⁾, F. Dominguez⁽²⁾, E. Hankiewicz⁽²⁾, S. Tarucha⁽⁴⁾, L.W. Molenkamp⁽²⁾, and K. Ishibashi⁽¹⁾
RIKEN⁽¹⁾, University of Wurzburg⁽²⁾, Delft University of Technology⁽³⁾, The University of Tokyo⁽⁴⁾
20. “Radio frequency charge sensing in Ge/Si core/shell nanowire quantum dots”
Rui Wang⁽¹⁾, Russell. S. Deacon⁽¹⁾, Jun Yao⁽²⁾, Charles M. Lieber⁽²⁾, Koji Ishibashi⁽¹⁾
RIKEN⁽¹⁾, Harvard University⁽²⁾
21. “Localization length in quantum anomalous Hall states”
Minoru Kawamura⁽¹⁾, Ryutaro Yoshimi⁽¹⁾, Masataka Mogi⁽²⁾, Atsushi Tsukazaki⁽³⁾, Kei S. Takahashi⁽¹⁾, Masashi Kawasaki^(1,2), Yoshinori Tokura^(1,2)
RIKEN CEMS⁽¹⁾, University of Tokyo⁽²⁾, Tohoku University⁽³⁾
22. “Manipulation of quantum dynamics:time-inversion etc.”
Akihito Soeda⁽¹⁾, Shojun Nakayama⁽²⁾, Mio Murao⁽¹⁾
The University of Tokyo⁽¹⁾, National Institute of Informatics⁽²⁾

23. “Fabrication and characterization of hybrid structure of carbon nanotubes and NV centers”
Haruki Uchiyama⁽¹⁾, Yutaka Ohno⁽¹⁾, Soya Saijo⁽²⁾, Junko Hayase⁽²⁾
Nagoya University⁽¹⁾, Keio University⁽²⁾
24. “Memory Effect and Spin Pumping on Co, Si-substituted Lu₃Fe₅O₁₂ Cluster Spin Glass Thin Films”
Hiroyasu Yamahara, Keita Mitsuhashi, Munetoshi Seki and Hitoshi Tabata
University of Tokyo
25. “Epitaxial crystallization at Pt/Y₃Fe₅O₁₂ interface toward high efficient spin pumping”
Keita Mitsuhashi, Hiroyasu Yamahara, Munetoshi Seki and Hitoshi Tabata
University of Tokyo
26. “Room temperature, very sensitive bolometer using a doubly clamped MEMS beam resonator”
Ya Zhang⁽¹⁾, Suguru Hosono⁽¹⁾, Naomi Nagai⁽¹⁾, Kouichi Akahane⁽²⁾, Kazuhiko Hirakawa⁽¹⁾
University of Tokyo⁽¹⁾, NICT⁽²⁾
27. “Terahertz Spectroscopy of Single Molecules Using Nanogap Metal Electrodes”
Shaoqing Du⁽¹⁾, Kenji Yoshida⁽¹⁾, Ya Zhang⁽¹⁾, Ikutaro Hamada⁽²⁾, Kazuhiko Hirakawa⁽¹⁾
University of Tokyo⁽¹⁾, NIMS⁽²⁾
28. “The three-dimensional nanostructure fabrication by FIB-CVD and its downsizing”
Reo Kometani, Moe Katsuda
The University of Tokyo
29. “Thermal Transport of an Individual Suspended Single-walled Carbon Nanotube Measured by Photoluminescence Imaging Spectroscopy”
Kazuki Yoshino⁽¹⁾, Takashi Kato⁽¹⁾, Shohei Chiashi⁽²⁾, Yoshikazu Homma⁽¹⁾
Tokyo University of Science⁽¹⁾, The University of Tokyo⁽²⁾

30. “Investigation of Phase Transitions of Water in a Single-walled Carbon Nanotube”
Takashi Kato⁽¹⁾, Kazuki Yoshino⁽¹⁾, Shohei Chiashi⁽²⁾, Yoshikazu Homma⁽¹⁾
Tokyo University of Science ⁽¹⁾, The University of Tokyo ⁽²⁾
31. “Strain engineering of graphene for phonon modulation”
Yuki Imakita, Yuki Anno, Taichi Inoue, Hiroaki Kawata, Kuniharu Takei, Seiji Akita, Takayuki Arie
Osaka Prefecture University
32. “Nonlinear control of graphene mechanical resonator by standing wave of light”
Taichi Inoue, Yuki Anno, Yuki Imakita, Kuniharu Takei, Takayuki Arie, Seiji Akita
Osaka Prefecture University
33. “Experimental Demonstration of Population Inversion in Quantum Dots Using Chirp Pulse”
Naoto Aonuma⁽¹⁾, Yoshitaka Sato⁽¹⁾, Kouichi Akahane⁽²⁾, Junko Ishi-Hayase⁽¹⁾
Keio University⁽¹⁾, NICT⁽²⁾
34. “Current sensing using nitrogen-vacancy centers in diamond”
Soya Saijo⁽¹⁾, Haruki Uchiyama⁽²⁾, Hideyuki Watanabe⁽³⁾, Kouichi Akahane⁽⁴⁾, Yuichiro Matsuzaki⁽⁵⁾, Yutaka Ohno⁽²⁾, Junko Ishi-Hayase⁽¹⁾
Keio University⁽¹⁾, Nagoya University⁽²⁾, AIST⁽³⁾, NICT⁽⁴⁾, NTT Basic Research Laboratories⁽⁵⁾
35. “Nitrogen-Vacancy Centers in CVD Diamond on Micropatterned Substrate”
Ikuya Hanano⁽¹⁾, Ryushiro Fujita⁽¹⁾, Soya Saijo⁽¹⁾, Hideyuki Watanabe⁽²⁾, Koichi Akahane⁽³⁾, Junko Ishi-Hayase⁽¹⁾
Keio University⁽¹⁾, AIST⁽²⁾, NICT⁽³⁾
36. “Resistively-detected NMR lineshapes variation in a quasi-one dimensional channel”
Mohammad Hamzah Fauzi
Tohoku University

37. "Scanning gate imaging of quantum Hall hyperfine-coupled system"
K. Hashimoto, T. Tomimatsu, S. Taninaka, and Y. Hirayama
Tohoku University

38. "Theoretical prediction of enhanced Edelstein effect in a semiconductor double quantum well system using the Boltzmann equation"
Kiminori Okamoto, Takaaki Koga, Atsushi Sawada
Hokkaido University