Poster Presentation (October 22, 16:00-17:30)

No.	Author	Affiliation	Title
P-1	Makoto Kohda ^{1,2} and Junsaku Nitta ¹	1 Department of Materials Science, Tohoku University, 2 PRESTO, Japan Science and Technology Agency	Enhancement of spin orbit interaction in quaternary InGaAsP / InGaAs heterostructures
P-2	H. Hiraga ¹ , T. Makino ¹ , T. Fukumura ^{2,3} , A. Ohtomo ² , M. Kawasaki ^{1,2,4}	1 WPI-AIMR Tohoku Univ., 2 IMR Tohoku Univ., 3 JST-PRESTO, 4 JST-CREST	Excitonic and magnetic properties in natural superlattices composed of Cu ₂ O and transition metal oxides
P-3	Takeshi Kutsuwa ¹ , Makoto Kuwahara ¹ , Keiji Ono ^{2, 1} , Hideo Kosaka ^{3, 1}	1 CREST-JST, 2 Low Temperature Physics Laboratory, RIKEN, 3 Research Institute of Electrical Communication, Tohoku University	Single electron spin resonance in a semiconductor double quantum dot with a nealy zero g-factor
P-4	Kazumi Sato, Jun Tang and Katsumi Tanigaki	TU-WPI, Department of Physics, Graduate of Science, Tohoku University	Physical properties of silicon and germanium network polyheddra
P-5	Greg Dyer ¹ , Jess Crossno ¹ , Greg Aizin ² , Eric Shaner ³ , Mike Wanke ³ , John Reno ³ and S.J. Allen ¹	1 Physics Department, UC Santa Barbara, 2 City College of New York, 3 Sandia National Laboratory	Narrowband terahertz detection with 2D plasmons in multi-gate high electron mobility transistors
P-6	Y. Kunihashi ¹ , M. Kohda ^{1,2} and J. Nitta ¹	1 Department of Materials Science, Tohoku University, 2 PRESTO Japan Science and Technology Agency	Anisotropic spin splitting in InGaAs wire structures
P-7	Shoun Matsunaga and Takahiro Hanyu	Laboratory for Brainware Systems, RIEC, Tohoku University, Japan	Ultra-low-power ternary content-addressable memory Using MOS/MTJ-hybrid circuitry
P-8	Bo Gu ¹ , Jing-Yu Gan ^{1,2} , Nejat Bulut ^{1,3} , Guang-Yu Guo ^{4,5} , Naoto Nagaosa ^{6,7} , and Sadamichi Maekawa ^{1,3}	1 Institute for Materials Research, Tohoku University, 2 Institute of Physics, Chinese Academy of Sciences 3 JST, CREST, 4 Graduate Institute of Applied Physics, National Chengchi University, 5 Department of Physics and Center for Theoretical Sciences, National Taiwan University 6 Department of Applied Physics, The University of Tokyo, 7 Cross-Correlated Materials Research Group (CMRG), ASI, RIKEN	Quantum renormalization of the spin Hall effect
P-9	TT. Lin, K. Ohtani, and H. Ohno	Laboratory for Nanoelectronics and Spintronics, Research Institute of Electrical Communication, Tohoku University	Properties of Cu-based metal-metal waveguide THz quantum cascade lasers fabricated by radio frequency sputtering method
P-10	S. Teraoka ¹ , S. Amaha ¹ , T. Hatano ¹ , T. Kubo ¹ , Y. Tokura ^{1,2} , Y. Ohno ³ , H. Ohno ³ , and S. Tarucha ^{1,4}	1 Quantum Spin Information Project, ICORP-JST 2 NTT Basic Research Laboratories, NTT Corporation 3 Laboratory for Nanoelectronics and Spintronics, Research Institute of Electrical Communication Tohoku University 4 Department of Applied Physics, Graduate School of Engineering, The University of Tokyo	Spin resonance and zero field spin splitting of two dimensional hole system in (311)A GaAs/AlGaAs heterostructure
P-11	T. Makino ¹ , Y. Furuta ² , Y. Segawa ³ , A. Tsukazaki ⁴ , A. Ohtomo ⁴ , Y. Hirayama ⁵ , R.	1 WPI-Advanced Institute for Materials Research, Tohoku University, 2 Dept. of Material	Charged exciton emission in n-type modulation-doped ZnO/MgZnO single quantum wells

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Shen ⁵ , S. Takeyama ⁵ , Y. Takagi ² , M. Kawasaki ^{1,3,4}	Science. University of Hyogo, 3 Cross-correlated Materials Research Group (CMRG), RIKEN, 4 Institute for Materials Research, Tohoku University, 5 Institute for Solid State Physics, The University of Tokyo	
P-12 J. M. LeBeau ¹ ,S. D. Findlay ² , L. J. Allen ³ , and S. Stemmer ¹	1 Materials Department, University of California, Santa Barbara 2 Institute of Engineering Innovation, The University of Tokyo, 3 School of Physics, University of Melbourne	Quantitative scanning transmission electron microscopy
P-13 Roman Olac-vaw ¹ , Hyun-Chul Kang ¹ , Hiromi Karasawa ¹ , Yu Miyamoto ¹ , Hiroyuki Handa ¹ , Hirokazu Fukidome ^{1,2} , Tetsuya Suemitsu ^{1,2} , Maki Suemitsu ^{1,2} and Taiichi Otsuji ^{1,2}	1 Research Institute of Electrical Communication, Tohoku University, 2 JST-CREST, Japan Science and Technology Agency	Electronic and optoelectronic properties of heteroepitaxial graphene on a Si substrate
P-14 T. Inagaki ^{1,2} , H. Kosaka ^{1,2} , Y. Rikitake ^{3,2} , H. Imamura ^{4,2} , Y. Mitsumori ^{1,2} , and K. Edamatsu ¹	1 Research Institute of Electrical Communication, Tohoku University, 2 CREST-JST, 3 Department of Information Engineering, Sendai National College of Technology, 4 Nanotechnology Research Institute, AIST	Optical measurement of electron spin coherence in a semiconductor quantum well
P-15 Daisuke Suzuki, Masanori Natsui and Takahiro Hanyu	Laboratory for Brainware Systems, Research Institute of Electrical Communication, Tohoku University	Nonvolatile field-programmable gate array using MOS/MTJ hybrid structure
P-16 Lihui Bai ¹ , Makoto Kohda ^{1,2} and Junsaku Nitta ¹	1 Department of Materials Science, Tohoku University, 2 PRESTO, Japan Science and Technology Agency	Propagating spin wave in a Permalloy strip and its excitation, manipulation and detection
P-17 K. Ohno, F. J. Heremans, D. M. Toyli, G. D. Fuchs, C. J. Palmstrom, and D. D. Awschalom	Center for Spintronics and Quantum Computation, University of California, Santa Barbara	Development of fabrication technology for single spin manipulation in diamond
P-18 Yongfeng Li, Toshiro Kaneko and Rikizo Hatakeyama	Department of Electronic Engineering, Tohoku University	Novel photoinduced transport properties of azafullerene encapsulated carbon nanotubes synthesized by a plasma ion-irradiation method
P-19 T. Fukumura ^{1,2} , Y. Yamada ¹ , K. Ueno ³ , H. Shimotani ^{1,4} , Y. Iwasa ^{1,4} , M. Kawasaki ^{1,3,4}	1 Institute for Materials Research, Tohoku University, 2 PRESTO, Japan Science and Technology Agency, 3 WPI Advanced Institute for Materials Research, Tohoku University, 4 CREST, Japan Science and Technology Agency	Electric field effect on room temperature ferromagnetism in a magnetic oxide semiconductor
P-20 A. El Moutaouakil, T. Watanabe, T. Komori, T. Nishimura, T. Suemitsu and T. Otsuji	Research Institute of Electrical Communication (RIEC), Tohoku University	Observation of coherent terahertz emission from super-grating dual-gate plasmon-resonant HEMT's using time-resolved spectroscopy
P ₋₂₁ Justin R Weber ¹ , Anderson	1 Department of Physics, University of	Point defects in Al2O3 and their

	Janotti ² , and Chris G Van de Walle ²	California, Santa Barbara, 2 Materials Department, University of California, Santa Barbara	impact on novel CMOS performance
P-22	Yan Wang ¹ , Ryotaro Kumashiro ² , and Katsumi Tanigaki ^{1,2}	1 Department of Physics, Graduate school of Science, Tohoku University, 2 World Premier International Research Center, Tohoku University	Modification of interfaces in organic light-emitting field-effect transistors
P-23	K. F. Yang ¹ , H. W. Liu ^{1, 2} , K. Nagase ¹ , K. Amakata ⁴ , T. D. Mishima ³ , M. B. Santos ³ , Y. Hirayama ^{1, 4}	1 ERATO-JST, 2 Jilin Univ., 3 Oklahoma Univ., 4 Tohoku Univ.	Exchange enhancement of effective g factors in a symmetrically doped InSb quantum well
P-24	M. Ono, H. Kobayashi, S. Matsuzaka, Y. Ohno and H. Ohno	Laboratory for Nanoelectronics and Spintronics, Research Institute of Electrical Communication, Tohoku University	Nuclear spin coherence in a Schottky gated n-GaAs quantum well
P-25	Qi Hu ^{1,3} , Eric Garlid ³ , Madhukar Reddy ⁴ , Jianjie Zhang ³ , Tsuyoshi Kondo ³ , Paul Crowell ³ and Chris Palmstrom ^{1,2}	1 Department of Electrical and Computer Engineering, 2 Department of Materials, University of California, Santa Barbara, 3 School of Physics and Astronomy, 4 Department of Chemical Engineering and Materials Science, University of Minnesota	Doping profile studies on spin transport in Fe/GaAs Schottky barrier heterostructures
P-26	Takashi Kawamura, Jun-ichiro Hayakawa, and Go Yusa	Department of Physics, Tohoku University	Local nuclear spin detection using unconventional nuclear magnetic resonance
P-27	H. Karasawa ¹ , T. Watanabe ¹ , T. Komori ¹ , M. Suemitsu ^{1,3} , V. Ryzhii ^{2,3} , T. Otsuji ^{1,3}	1. RIEC Tohoku University, 2. University of Aizu, 3. JST-CREST	Observation of coherent THz emission from optically pumped epitaxial graphene heterostructures
P-28	M. Endo ¹ , D. Chiba ^{2,1} , H. Shimotani ^{3,4} , F. Matsukura ^{1,2} , Y. Iwasa ^{3,4} and H. Ohno ^{1,2}	1 RIEC, Tohoku Univ., 2 ERATO-JST, 3 IMR, Tohoku Univ. 4 CREST-JST	Electrical control of properties of (Ga,Mn)As using electric-double layer transistor