PUBLICATION LIST (Full Publication)

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June 30, 2014

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[9]. "*Spin-Glass Formation in* Mn *Doped* $Sn_{1-x}Pb_xTe$", F. T. Hedgcock, P. C. Sullivan, K. Kadowaki and S. B. Woods, J. Magn. Magn. Mater. **54-57** (1986) 1293.

[8]. "*Universal Relationship of The Resistivity and Specific Heat in The Heavy Fermion Compounds*", K. Kadowaki and S. B. Woods, Solid State Commun. **58**(No. 8) (1986) 507-509.

year 1984 1

[7]. "*Electron Tunneling into Superconducting* YB_6", S. Kunii, T. Kasuya, K. Kadowaki, M. Date and S. B. Woods, Solid State Commun. **52** (1984) 659.

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[6]. "*Magnetization and Magnetoresistance of* MnSi *(I)*", K. Kadowaki, K. Okuda and M. Date, J. Phys. Soc. Jpn. **51**(No. 8) (1982) 2433-2438.

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[5]. "*Superconducting and Magnetic Properties of* $La_{1-x}Ce_xMo_6S_8$", K. Okuda, K. Kadowaki, K. Sugiyama, S. Noguchi and M. Date, Physica **108B** (1981) 1273-1274.

year 1979 3

[4]. "*Antiferromagnetic Resonance in* $CuCl_2 \cdot 2NC_5H_5$ *below* 1 K", K. Okuda and K. Kadowaki, J. Phys. Soc. Jpn. **46** (1979) 45.

[3]. "*Superconducting Phase Transition in* $Er_cY_{1-c}Rh_4B_4$", K. Okuda, Y. Nakakura and K. Kadowaki, Solid State Commun. **32** (1979) 185-188.

[2]. "*Magnetic and Superconducting Phase Transitions in* $Er_cY_{1-c}Rh_4B_4$", K. Okuda, Y. Nakakura and K. Kadowaki, J. Magn. Magn. Mater. **15-18** (1979) 1575-1576.

year 1977 1

[1]. "*Electron Spin Resonance in The Itinerant-Electron Helical Magnet* MnSi", M. Date, K. Okuda and K. Kadowaki, J. Phys. Soc. Jpn. **42**(No. 5, May) (1977) 1555-1561.

Reviews and Books, etc.

[1]. "*Lorentz-Force Independent Dissipation in High Temperature Superconductors*", K. Kadowaki, S. L. Yuan, K. Kitazawa, *Superconductor, Sci. and Technol*, IOP, 7 (1994) 519-540, (Institute of Physics Publishing), UK.

[2]. "*Single Crystal Growth of* YNi_2B_2C*-Type Borocarbide Superconductors*", H. Takeya, K. Yamada, T. Hirano, N. Nonose and K. Kadowaki, *Studies of High Temperature Superconductors* vol. 34, p.175-201 (2000) Nova Scientific Publishers Inc.

[3]. "*Superconductivity Physics and Applications*", by Kristian Fossheim and Alse Sudbo, Wiley, 2004, in Chapter 13, Topical Contributions, in 13.8, "*Resistivity in Vortex State in High* T_c *Superconductors*", p392.

[4]. "*Scanning SQUID Microscope Study of Vortex States and Phases in Superconducting Mesoscopic Dots, Antidots and Other Structures*", T. Nishio, Y. Hata, S. Okayasu, J. Suzuki, S. Nakayama, A. Nagata, A. Odawara, K. Chinone and K. Kadowaki, "*Chapter , Handbook of Nanoscience and Nanotechnology, vol. II*", Oxford University Press, pp. 405-437 (2010).

[5]. "*Novel Superconducting States in Nanoscale Superconductors*", A. Kanda, Y. Ootuka, K. Kadowaki and F. M. Peeters, "*Chapter 19, Handbook of Nanoscience and Nanotechnology, vol. I*", Oxford University Press, pp. 649-676 (2010).

Invited Talks (2000∼present)

Kazuo Kadowaki
Professor of
Institute of Materials Science,
Graduate School of Pure & Applied Sciences
University of Tsukuba
June 30, 2014

Year 2010 11

[71]. "*Terahertz Radiation from High Temperature Superconductor Intrinsic Josephson Junctions and Its Applications*", presented as an invited talk at the "*3rd Tsukuba-Hshinchu Workshop on Nano and Bio-Related Materials and Technologies*", April 1st - 4th, 2010, NTHU (National Tsing Hua University), Shinchu, Taiwan.

[70]. "*Multi-Stacked Intrinsic Josephson Junctions (IJJ' s) as a Coherent Phase Locked (CPL) Quantum Device*", presented as an invited talk at the "*7th Internationla Symposium on Intrinsic Josephson Effects and Plasma Oscillations in High-T_c Superconductors*", April 29th - May 2nd, Hirosaki University, Hirosaki, Aomori, Japan.

[69]. "*Continuous, Coherent and Intense Terahertz Radiation Using Intrinsic Josephson Junctions of High Temperature Superconductor* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Single Crystal Mesas*", presented as an invited talk at the "*International symposium on High temperature Superconductors in High Frequency Fields (HTSHHF)*", held in May 17th - 19th, 2010, San Diego, California, USA.

[68]. "*Angular Dependence of a Powerful THz Emission from Intrinsic Josephson Junctions of High T_c Superconductor Bi2212*", presented as an invited talk at the "*6th Nanoscience and Nanotechnology Conference*", held at Golden Dolphin Hotel, Cesme, Izmir, Turkey, 15-18, June 2010.

[67]. "*Coherent and Continuous THz Waves Generated from High T_c Superconductor* $Bi_2Sr_2CaCu_2O8 + \delta$", presented at the "*Symposium 6th International Conference, Science and Engineering of Novel Superconductors*", in the "*5th Forum on New Materials*", held at Montecatini, Terme, Pistoia, Italy, June 13-18, 2010.

[66]. "*Coherent THz Radiation from Intrinsic Josephson Junctions*", presented as an invited talk at the international conference on "*Low-Energy Electrodynamics in Solids (LEES 2010)*", held at Eurotel Victoria, Les Diablerets, Switzerland, July 5th - 10th, 2010.

[65]. "*Coherent THz Radiation from Intrinsic Josephson Junctions (I)*", presented as an invited lecture at the Institute of Radio-Engineering and Electronics, Russian Academy of Sciences, Moscow, Russia, on July 19th, 2010.

[64]. "*Coherent THz Radiation from Intrinsic Josephson Junctions (II)*", presented as an invited lecture at the Levedev Physical Institute of the Russian Academy of Sciences, Moscow, Russia, on July 20th, 2010.

[63]. "*Coherent THz Radiation from Intrinsic Josephson Junctions (III)*", presented as an invited lecture at the Institute of Solid State Physics, Russian Academy of Sciences, Chernogolovka, Russia, on July 21th, 2010.

[62]. "*Beyond Common Sense: THz Radiation from Single Crystal* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Intrinsic Josephson Junctions*", given as an invited talk at the "*First JST-DFG Workshop on Terahertz Superconductor Electronics*", 21-24 February 2010, Tsukuba Mountain, Japan.

[61]. "*A Road to Generation of High Power THz Waves from HTS Intrinsic Junctions*", given as an invited talk at the "*MANA International Symposium 2010 jointly with ICYS*", March 3-5, 2010, Epochal Tsukuba, Tsukuba, Japan.

Year 2009 11

[60]. "*Continuous THz Radiation Generated from High Temperature Superconductor* $Bi_2Sr_2CaCu_2O_{8+\delta}$", given as an invited talk at the *14^{th} International AQDJJ(Arrays of Quantum Dots and Josephson Junctions) Conference in School Format, TeraHertz Radiation and Metamaterials (TeraMat 09)*", held at Benasque, Spain, 15^{th} - 22^{nd} December 2009.

[59]. "*Continuous and Coherent THz Radiation Generated from High Temperature Superconductor* $Bi_2Sr_2CaCu_2O_{8+\delta}$", presented as an invited at the "*3^{rd} AEARU (The Association of East Asian Research Universities) Advanced Materials Science Workshop*", held at 11^{th}-13^{th} November 2009, Pohang International Center, POSTEC, Korea.

[58]. "'*Anisotropic THz Radiation and Josephson Plasma Excitation Modes in a Single Crystalline Rectangular and Cylindrical Mesas of* $Bi_2Sr_2CaCu_2O_{8+\delta}$", given as an invited talk at the "*5^{th} East Asia Symposium on Superconductive Electronics (EASSE 2009)*"', held at Nanjing University, Nanjing, China, October 12^{th} - 14^{th} 2009.

[57]. "*Understanding of the Mechanism of THz Electromagnetic Radiation in a Mesa of Intrinsic Josephson Junction System* $Bi_2Sr_2CaCu_2O_{8+\delta}$", presented as an invited talk at the "*ESF Research Networking Program, Nanoscience and Engineering in Superconductivity (NES), the 6^{th} International Conference I School format on the Vortex Matter in Nanostructured Superconductors (VORTEX VX)*", held at 17^{th} - 24^{th} September 2009 in Rhodes Islands, Greece.

[56]. "*Terahertz Radiation from Intrinsic Josephson Junctions: Recent Development and Future Perspectives*", presented as an invited talk at the "*9^{th} International Conference on Materials and Mechanisms of Superconductivity (M^2S-IX)*", held at September 7^{th} - 12^{th} 2009 at Keio Plaza Hotel, Tokyo, Japan.

[55]. "*THz Radiation from Cylindrical and Rectangular Mesas of* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Intrinsic Josephson Junctions*", given as an invited talk at the "*International Bogolyubov Conference, Problems of Theoretical and Mathematical Physics*", in August 21^{st} - 27^{th} 2009, Bogolyubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research (BLTP JINR), Dubna, Russia.

[54]. "*Dream of Scientists: Room Temperature Superconductors*", given as an invited lecture talk at the "*Montenegro Student Summer School*", in August 28^{th} 2009, Istrazivacki Kamp, Inanova Korita, Montenegro.

[53]. "*Anisotropic THz Radiation and Josephson Plasma Excitation Modes in a Mesa of* $Bi_2Sr_2CaCu_2O_{8+\delta}$", given as an invited talk at the "*International Conference on Quantum Phenomena at Nanoscale*", held in August 30^{th} - September 4^{th} 2009, at Hotel Maestral Casino & Resort, Sveti Stefan, Crna Gora, Montenegro.

[52]. "*Management and Structure of Japanese University*", given as an invited lecture at the "*International Workshop on Science and Society*", on September 3^{rd} 2009, at Hotel Maestral Casino & Resort, Sveti Stefan, Crna Gora, Montenegro.

[51]. "*Synchronized THz Radiation Phenomena from High-T_c Superconductor* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Single Crystal*", given as an invited talk at the "*ESF Nanoscience and Engineering in Superconductivity*

(NES) conference on Hybrid and Josephson Structures", held at Anacapri, Hotel San Michele, 3^{rd} - 6^{th} June 2009.

[50]. "*Coherent THz Radiation Emitted from Superconducting Intrinsic Josephson Junctions*", presented as an invited talk at the "*Joint JSPS-ESF International Conference on Nanoscience and Engineering in Superconductivity*", held at Okura Frontier Hotel, Tsukuba, March 23^{rd} - 26^{th}, 2009.

Year 2008 14

[49]. "*THz LASER Emission from Intrinsic Josephson Systems and Vortex Dynamics of Josephson Vortices*", given as a invited talk at the "*Brazilian School of Superconductivity and Workshop on Frontiers of Superconductivity and Magnetism - Materials, Mechanisms and Applications*", held in December 8^{th} - 12^{th}, 2008, Summerville Beach Resort, Muro Alto, Pernambuco, Brazil.

[48]. "*Generation of THz Waves from High-T_c Superconductor* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Intrinsic Josephson Junctions*", presented as an invited talk at the "*Nanotechnology International Forum, Rusnanotech 08*", at the Expocenter, Moscow, Russia, December 3^{rd} - 5^{th}, 2008.

[47]. "*Quantum Electromagnetic Radiation as Superconducting Atoms of Intrinsic Josephson Junctions*", presented at the "*3^{rd} International Autumn Seminar on Nanoscience and Engineering in Superconductivity for Young Scientists*", held at Tokyo New Hankyu Hotel Tsukiji, 32nd floor, November 24^{th} - 30^{th}, 2008.

[46]. "*THz LASER from Various Mesas of Intrinsic Josephson Junctions*", presented at the "*CTC-NES International Mini Workshop on THz Radiation from Intrinsic Josephson Junctions - The First one Year Anniversary of the Discovery-*", TKP Ginza Business Center 8^{th} floor B, November 23^{rd} 2008.

[45]. "*Superconducting Josephson LASER as Collective Excitations in Layered Superconductors*", presented as an invited talk at the occasion of the "*Scientific Conference in Honor of Alexei Abrikosov' s 80^{th} Birthday, Vortices at Fifty Years*", Bldg. 212. Room A-157, Argonne National Laboratory, USA, November 7^{th} - 8^{th}, 2008.

[44]. "*Intense Continuous THz Emission from High Temperature Superconductor* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Single Crystal Mesa Structures*", presented as an invited talk at the "*Trends in Nanotechnology (TNT 2008)*", Oviedo, Spain, September 1^{st} - 5^{th}, 2008.

[43]. "*Josephson LASER, Future Perspective*", presented as an invited talk at the "*ESF-JSPS NES program, " International Workshop on Nanostructured Superconductors: From Fundamentals To Applications*", Freudenstadt-Lauterbad, Germany, September 13^{th}-17^{th} 2008.

[42]. "*Generation of High Power THz Electromagnetic Waves from High-T_c Superconductor* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Intrinsic Josephson Junctions*", presented as an invited talk at the "*International Conference on Superconductivity and Magnetism (ICSM-2008)*", 25^{th} - 29^{th} Auguest 2008, Side-Antalya, Turkey.

[41]. "*TASER as Collective Excitation in Layered Superconductors*", presented as an invited talk at the "*32^{nd} International Workshop on Condensed Matter Theories, in commemoration of the birth centenary of Lev Davidovich Landau 1908-1968*", held at Loughborough University, United Kingdom, 13^{th} - 18^{th} August 2008.

[40]. "*Expanding the Materials World Network; Materials Activities in Japan*", presented as a Japanese representative of the "*Workd Materials Research Network at the Symposium T in the Session T4-S2, IUMRS-ICEM (International Union Materials Research Sosiety - International Conference on Electronic Materials) 2008*", held at Hilton Sydney, Australia, 28^{th} July to 1^{st} August, 2008.

[39]. "*Josephson LASER Operating in a Layered Superconductor*", presented as an invited talk at the "*6^{th} International Symposium on Intrinsic Josephson Effect and Plasma Oscillations in High-T_c Superconductors (PLASMA 2008)*", July 17^{th} - 19^{th}, 2008, POSTECH, Pohang, Korea.

[38]. "*Summary Talk*", in the Closing Session at the "*International Conference on Theoretical Physics, DUBNA-NANO 2008*", July 7^{th} - 11^{th}, 2008, Dubna, Russia.

[37]. "*THz Emission from Intrinsic Josephson Junctions*", presented as an invited talk at the "*International Conference on Theoretical Physics, DUBNA-NANO 2008*", July 7^{th} - 11^{th}, 2008, Dubna, Russia.

[36]. *Intense, Continuous and monochromatic THz waves generated from High Temperature Superconductors* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Single Crystals and Their Potential Applications*", presented at the "*MANA International Symposium 2008 & ICYS Workshop 2008*", held at National Institute for Materials Science (NIMS), Sengen, Tsukuba, Japan, 10-13 March, 2008.

Year 2007 9

[35]. "*THz emission from Intrinsic Josephson Junctions in* $Bi_2Sr_2CaCu_2O_{8+\delta}$", presented at the "*$2^{nd}$ International Autumn Seminar on Nanoscience and Engineering in Superconductivity for Young Scientists*", November 25^{th} - December 2^{nd}, 2007, Hotel Epinard Nasu, Tochigi preecture, Japan.

[34] "*Monochromatic Intense, Coherent and Continuous Emission of Electromagnetic Waves from High-T_c Superconductor* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Intrinsic Josephson Junctions*", presented as an invited talk at the "*7^{th} ESF and JSPS International AQDJJ Conference-Frontiers of Josephson Physics and Nanoscience (FJPN07), in Memory of the late Professor Bob Parmentier*", September $23^{r}d$ -28^{th}, 2007, at King ' s Residence Hotel, Palinuro, Italy.

[33] "*Direct Observation of Terahertz Electromagnetic Waves Emitted from Intrinsic Josephson Junctions in single Crystalline* $Bi_2Sr_2CaCu_2O_{8+\delta}$", presented as an invited talk at the "*5^{th} Joint ESF-JSPS International Conference on Vortex Matter in Nanostructured Superconductors*", Rhodes, Greece, 8^{th} - 14^{th} September, 2007.

[32] "*Intrinsic Josephson junctions (IJJ ' s) in High-T_c Superconductors: Prospects for Future Electronic Devices*", presented as an invited talk at the "*Turkish Physical Society 24^{th} International Congress*", 28^{th} - 31^{st}, August, 2007, Inonu University, Malatya, Turkey.

[31] "*Josephson Radiation from Intrinsic Josephson Junctions*", given as an invited talk at the "*APCTP Asia Pacific Center for Theoretical Physics) Workshop on Superconductivity and Mesoscopic Quantum Phenomena*", 18^{th} - 20^{th} August, 2007, Hogil Kim Memorial Hall, APCTP Headquarters, POSTEC, Pohang, Korea.

[30]. "*Intrinsic Josephson Junctions in Bi2212 Single Crystals: A Playground for the Quantum Physics and Electronics*, presented as an invited talk at the "*KSS 2007 (The Korean Superconductivity Society Meeting, 2007)*", held at Yongpyong Resort, Gangwondo, Korea, August 16^{th} - 18^{th}, 2007.

[29]. "*Vortices in Superconductors: Jugglers in a Perfect Superconductor*", presented at the "*21^{st} Century COE Program International Conference*", Organized by the Organizing Committee of the 21st Century COE Program, "*Promotion of Creative Interdisciplinary Materials Science for Novel Functions*", 12^{th} - 13^{th}, March, 2007, EPOCHAL Tsukuba (International Congress Center), Tsukuba, Japan.

[28]. "*Future-Oriented Interdisciplinary Materials Science: Past, Present and Future*", presented at the "*21^{st} Century COE Program International Conference*", Organized by the Organizing Committee

of the 21^{st} Century COE Program, "*Promotion of Creative Interdisciplinary Materials Science for Novel Functions*", 12^{th} - 13^{th}, March, 2007, EPOCHAL Tsukuba (International Congress Center), Tsukuba, Japan.

[27]. "*Anisotropic Superconducting Properties of Graphite Intercalated Compound* CaC_6", invited talk, at the "*6^{th} International Conference on New Theories, Discoveries and Applications of Superconductors and Related Materials (New3SC-6)*", organized by J. D. Duz-CQU Institute for Superconductivity, 14027, Perkins Road, Suite A, Baton Rouge LA 70810, USA, held at the Crowne Plaza Darling Harbour Hotel, January 9^{th} - 11^{th}, 2007, Sydney, Australia.

Year 2006 7

[26]. "*Superconductivity in Graphite Intercalation Compound* C_6Ca", presented as an invited talk at the "*International Conference on Mesoscopic Superconductivity and Magnetism (MesoSuperMag) 2006*", August 28^{th}-September 1^{st}, 2006, Millenium Knickerbocker Hotel, Chicago, IL 60611, USA.

[25]. "*Unveiling Enigma of Electron Systems: towards a Universal Understanding*", presented as an invited talk at the ICM Satellite Workshop in Fukuoka, "*Novel Pressure-Induced Phenomena in Condensed Matter Systems (NP2CMS)*", August 26^{th} - 29^{th}, 2006, Kyushu University Nishijin Plaza, Fukuoka, Japan.

[24]. "*THz Emission using* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Intrinsic Junctions*", given as an invited talk at the "*5th International Symposium on the Intrinsic Josephson Effect in High-T_c Superconductors (Plasma 2006)*", 17^{th} - 19^{th} July 2006, at the Institute of Physics, London, UK.

[23]. "*Evidence for Electromagnetic Radiation from Driven Josephson Vortices in Single Crystalline* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Intrinsic Josephson Junctions*", invited talk given at the "*8^{th} International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors (M^2S-HTSC VIII)*", July 9^{th} - 14^{th} 2006, Dresden, Germany.

[22]. "*Dynamical Behaviors of Josephson Vortices in Intrinsic Josephson Junctions* $Bi_2Sr_2CaCu_2O_{8+\delta}$", invited talk given at the satellite to the M^2S-HTSC-VIII Conference in School Format, "*Nanoscale Superconductivity and Magnetism 2006*", July 6^{th} - 8^{th}, 2006, Vaalbeek, Leuven, Belgium.

[21]. "*THz Generation by Josephson Vortex Flow*", presented as an invited talk at the "*9^{th} Symposium on High Temperature Superconductors in High Frequency Fields (HTSHFF 2006)*", June 25^{th} - 28^{th}, 2006, organized by Adrian Porch, Cardiff University, and Mike Lancaster, Birmingham University, UK, hosted by the School of Engineering, Cardiff University, UK.

[20]. "*Dynamical Josephson Vortex Flow states in Single Crystallie Mesoscopic* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *Junctions*", invited talk given at the "*Trends in Future Electronics, ESF "PiShift" and "THIOX" programmes Workshop*", 6^{th} - 10^{th}, May, 2006, Bordeaux, France.

Year 2005 3

[19]. '*Collective motion of Josephson vortices in high-T_c superconductors*", invited talk at the CREST Nano-Virtual-Labs Joint Workshop on Superconductivity NVLS2005, December 20^{th} - 22^{th}, 2005, Awaji Yumebutai International Conference center, Hyogo, Japan.

[18]. "*Dynamical properties of Josephson vortices in mesoscopic intrinsic Josephson junctions in Bi2212 single crystals*", presented as an invited talk at the Fourth International Conference on "*Vortex Matter in Nanostructured Superconductors*", Crete, Greece, 3^{rd} - 9^{th} September, 2005.

[17]. "*Generation of Coherent THz Electromagnetic Waves by Josephson Vortex Flow in Bi-2212*", presented as an invited talk at the SPIE Photonics conference, 31^{st} July-4^{th} August 2005, San Diego, California, USA.

[16]."*Vortices in Mesoscopic Superconductors with Strong Geometrical Constraints*", presented as an invited talk at the 10^{th} International Vortex Workshop (IVW-10), January 9^{th} - 14^{th}, 2005, Tata Institute of Fundamental Research, Munbai, India.

Year 2004 3

[15]. "*Science and Engineering in Nano-Superconductors*", presented as an invited talk at "*the Joint meeting of the 3^{rd} International Symposium on "Future Oriented Intedisciplinary Materials Science (FIMS)", 2^{nd} International Tsukuba-Symposium on "Nano-Science", International Symposium on JSPS Core-to-Core Integrated Action Initiative "Nanoscience and Engineering in Superconductivity" and 4^{th} International Symposium on "Intrinsic Josephson Effect and Plasma Oscillation in High-T_c Superconductors" (FIMS/ITS-NS/CTC/PLASMA2004)*", November 24^{th} - 28^{th}, 2004, Tsukuba International Congress Center, Tsukuba, Ibaraki, Japan.

[14]. "*High T_c Rutheno-Cuprate superconductors* $RuSr_2RECu_2O_8$ *and* $RuSr_2RE_{2-x}Ce_xCu_2O_{10}(RE = Gd)$*; Materials issues*", presented as an invited talk at the "*International Symposium on Spin-Triplet Superconductivity and Ruthenate Physics (STSR2004)*", 25^{th} - 28^{th} October, 2004, Clock tower centennial hall, Kyoto University, Kyoto, Japan.

[13]. "*Vortex Confinement into Mesoscopic Superconductors with Strong Geometrical Constraints*", presented as an invited talk at the "*Joint International Workshop on Nanostructured Superconductors: From Fundamentals to Applications*", May 15^{th} - 19^{th}, 2004, Bad Munstereifel, Germany.

Year 2003 4

[12]. "*Systematic Study of Vortex Arrangement in Mesoscopic Superconductors in Rerstricted Geometries*", presented as an invited talk at the "*3^{rd} European Conference on Vortex Matter in Superconductors*", 10^{th} -28^{th}, September, 2003, Crete, Greece.

[11]. "*Dynamical Coupling between Superconducting Plasma and Josephson Vortices: Josephson Plasma Resonance in Josephson Vortex State*", presented as an invited talk at the "*9^{th} Joint Vortex Dynamics and Vortex Matter Workshop (ESF)*", Village de Vacances CAES-CNRS La Vielle Perrotine Boyardville-Ile d ' Oleron, June 22^{nd} -27^{th}, 2003.

[10]. "*Superconductivity Future-Oriented Nano-Science and Technology*", given as an invited talk at "*the 1st International Symposium on Future-Oriented Interdisciplinary Materials Science*", February 28^{th} - March 1^{st}, 2003, Tsukuba International Congress Center (Epocal), Tsukuba, Japan.

[9]. "*Observation of Self-Organized Vortices in Micro-Superconductors with Geometrical Constraints by Scanning SQUID Microscope*", given as an invited talk at the "*Workshop on Vortices in Superfluids and Superconductors*"', January 4^{th} - 8^{th}, 2003, POHTP, Oulu, Finland.

Year 2002 1

[8]. "*Quantum Phase Transitions of Vortices in Micro-Superconductors*", given as an invited talk at "*the International Workshop on Vortices in Josephson Systems and Nanostructures*", 20^{th} - 25^{th}, September, 2002, Acqafredda di Maratea, Hotel Villa del Mare, Italy.

Year 2001 6

[7]. "*Novel Vortex Phase in High Temperature Superconductors*", given as an invited talk at the "*10^{th} US-Japan Workshop on High-T_c Superconductors*", December 2^{nd} - 6^{th}, 2001, at Los Alamos National Laboratory, NM, USA.

[6]. "*Phase Diagram of High Temperature Layered Superconductors: on case of* $Bi_2Sr_2CaCu_2O_{8+\delta}$", presented as an invited talk at the "*International Workshop VIII on Vortex Physics*", November 26^{th} - December 1^{st}, 2001, S. C. de Bariloche, Argentina.

[5]. "*Vortex Matter Phases in Highly Anisotropic Superconductors*", given as an invited talk at the "*2^{nd} European Conference in School Format, Vortex Matter in Superconductors*", Crete, Greece, 15^{th} - 25^{th}, September, 2001.

[4]. "*Experimental Evidence for Two Vortex Liquid Phases in* $Bi_2Sr_2CaCu_2O_{8+\delta}$", given as an invited talk at the "*International Workshop on Critical Properties of Vortex Matter*", June 21^{st} - 24^{th}, 2001, Loen, Norway.

[3]. "*High T_c Superconductor* MgB_2*: Specific Heat Measurements*", given as an invited talk at the "*CIAR (Canadian Institute for Advanced Research) Meeting*", held at Auberge Estrimont, Magog, Quebec, Canada, 17^{th} - 20^{th} May, 2001.

[2]. "*Metal-Insulator Transition in Ferromagnetic Superconductor* $Ru_{1-x}Nb_xSr_2GdCu_2O_8$", given as an invited talk at the "*3^{rd} International Conference on New Theories, Discoveries and Applications of Superconductors and Related Materials*", January 15^{th} - 19^{th}, 2001, Honolulu, Hawaii, USA.

Year 2001 1

[1]. "*Superconducting Plasma Excitation at Microwave Frequencies in Parallel Magnetic Fields in* $Bi_2Sr_2CaCu_2O_{8+\delta}$", given as an invited talk at the "*Second International Symposium on Intrinsic Josephson Effects and Plasma Oscillation in High-T_c Superconductors*", 22^{nd} - 24^{th}, August, 2000, Sendai, Japan.

APS March Meeting

Kazuo Kadowaki
Professor of
Institute of Materials Science,
Graduate School of Pure & Applied Sciences
University of Tsukuba
June 30, 2014

Invited talks

1. "*Anisotropy and Superconducting Fluctuation in Single Crystalline* $Bi_2Sr_2CaCu_2O_{8+\delta}$"
   K. Kadowaki, *Bulletin of the American Physical Society March Meeting 1993*, Volume 38, p720 (Q2-3).

2. "*Crossing vortex lattice melting transition in BSCCO single crystals*"
   K. Kadowaki, *invited talk*, *Bulletin of the American Physical Society March Meeting 2003*, Volume 48, No. 1, Part II p840 (P5-4).

3. "*Josephson LASER Working at THz Frequencies in Intrinsic Josephson Junctions*"
   Kazuo Kadowaki, *presented as an invited talk at the APS March Meeting, 19 March, 2009, Session X2: Vortex Dynamics and Josephson LASERs in Superconductors*, APS Program & Show Guide p521(X2-4), David L. Lawrence Convention Center, Pittsburgh, USA.

Contributed Talks

March 22-26, 1993, St. Seattle, Washington, USA

1. "*Anisotropy and Superconducting Fluctuation in Single Crystalline* $Bi_2Sr_2CaCu_2O_{8+\delta}$"
   K. Kadowaki, invited talk, *Bulletin of the American Physical Society March Meeting 1993*, Volume 38, p720 (Q2-3).

March 18-22, 1996, St. Louis, Missouri, USA

1. "*Non-Linear Resistivity and Decoupling Transition in* $Bi_2Sr_2CaCu_2O_{8+\delta}$"
   K. Kadowaki and T. Mochiku, *Bulletin of the American Physical Society March Meeting 1996*, Volume 41, p232 (F11-1).

2. "*Microwave Surface Impedance Measurements of High Quality* $Bi_2Sr_2CaCu_2O_8$ *Single Crystals*"
   S. Fu Lee, D. C. Morgan, R. J. Ormeno, D. Broun, R. A. Doyle, N. E. Hussey, C. Panagopoulos, J. Wardram and K. Kadowaki, *Bulletin of the American Physical Society March Meeting 1996*, Volume 41, p284 (G11-12).

3. "*De Haas-Van Alphen Oscillations in the Mixed State of* YNi_2B_2C"
T. Terashima, H. Takeya, S. Uji, K. Kadowaki and H. Aoki, *Bulletin of the American Physical Society March Meeting 1996*, Volume 41, p360 (I10-9).

4. "*Momentum Dependence of the Superconducting Gap of* $Bi_2Sr_2CaCu_2O_8$"
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5. "*Impurity-effect on the electronic structure in* $Bi_2Sr_2CaCu_2O_{8+\delta}$ *studied by angle-resolved photoemission*"
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1. "*Thermal Management in Large Bi2212 Mesas Used for Terahertz Sources*,
C. Kurter, K. E. Gray, Q. Li, L. Ozyuzer, A. E. Koshelev, T. Yamamoto and K. Kadowaki, *APS Program & Show Guide, Session H10: Josephson Effects*, p186 (H10-7)

2. "*Tailoring The Magnetic Properties of* TiO_2 *Nanobelts*",
Shen V. Chong, Kazuhiro Yamaki and Kazuo kadowaki, *APS Program & Show Guide, Session S23: Focus Session: Nanostructured Oxides and Thin Films*, p403 (S23-3)

March 16-20, 2009, David L. Lawrence Convention Center, Pittsburgh, Pennsylvania, USA

1. "*Superconductivity in Sr-122 Iron Arsenide System by Yttrium Doping*",
Shen V. Chong and K. Kadowaki, *APS Program & Show Guide, Session A-35: Focus Session: Iron Pnictides and Other Novel Superconductors I: Synthesis and New Materials*, p93 (A35-12).

2. "*Temperature and Field Dependence of the Emission of Terahertz Waves from Intrinsic Josephson Junctions*",
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3. "*Angular Dependence of the Radiation Power of a Josephson STAR-Emitter*",
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4. "*Direct Observation of THz Radiation from Cylindrical Structure of Intrinsic Josephson Junction System of Bi2212*",
M. Tsujimoto, T. Yamamoto, H. Minami, K. Kadowaki, M. Tachiki, U. Welp, W. -K. Kwok, *APS Program & Show Guide, Session D34: Superconductivity: Josephson Effects*, p183 (D34-6).

March 15-19, 2010, Oregon Convention Center, Portland, Oregon, USA

1. "*Output of a Josephson Stimulated Terahertz Amplified Radiation Emitter*",
Richard A. Klemm and K. Kadowaki, *APS Program & Show Guide, Session A41: Superconductivity: Multilayers and Josephso Effects*, p108 (A41-6).

2. "*Coherent THz Radiation from Multiple I-V Branching Structures in Intrinsic Josephson Junctions of Bi-2212*",
Manabu Tsujimoto, Kazuhiro Yamaki, Takashi Yamamoto, Hidetoshi Minami, Takanari Kashiwagi, Kazuo Kadowaki and Masashi Tachiki, *APS Program & Show Guide, Session A41: Superconductivity: Multilayers and Josephso Effects*, p108 (A41-10).

3. "*Coherent THz Radiation and Manipulation in Intrinsic Josephson Junctions of* $Bi_2Sr_2CaCu_2O_{8+\delta}$",
Kazuo Kadowaki, *APS Program & Show Guide, Session A41: Superconductivity: Multilayers and Josephso Effects*, p108 (A41-11).

4. "*Coherent THz Radiation with Geometrical Full Wave Length Resonance in Single Crystalline Bi-2212*",
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EPS(European Physical Society) Meeting

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June 30, 2014

1. *Angular Dependent Magnetization Discontinuity at the Vortex-Lattice Melting: A Cmparison With High-Resolution Calorimetric Data*
   A. Schilling, M. Willemin, C. Rossel, H. Keller, U.WELP, W. K. Kwok, R.J. Olsson, G. W. Crabtree and K. Kadowaki, presented at textitthe 18th General Conference of the Condensed Matter Division of the European Physical Society, Montreux, Switzerland, 13-17, March 2000, program abstract, p72.

2. *New Phase Diagram of* $Bi_2Sr_2CaCu_2O_8$ *in the Vicinity of Parallel Fields*
   K. Kadowaki, J. Mirkovic and E. Sugahara, presented at textitthe 18th General Conference of the Condensed Matter Division of the European Physical Society, Montreux, Switzerland, 13-17, March 2000, program abstract, p85.

3. *Possibility of Spontaneous Vortex Phase in* $ErNi_2B_2C$
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