Oral Session

November 10 (tue.) Rokko Hall

9:10～ Plenary Lecture (Chair Hitoshi Ohta)

PL-01 Very high sensitivity, high bandwidth, orientation selective, DEER spectroscopy at 94GHz

○G. M. Smith, P . A. S. Cruickshank, O. Schiemann, D. R. Bolton, D. A. Robertson, R. I. Hunter, H. El Mkami — School of Physics and Astronomy, University of St Andrews, Scotland・School of Biology, University of St Andrews, Scotland

9:10～ Plenary Lecture (Chair Toshikazu Nakamura)

PL-02 What can we learn about spin systems from pusled EPR and ENDOR at very high frequencies

○Johan van Tol — National High Magnetic Field Laboratory, Florida State University, USA

Break (10 min.)

10:40～ Oral Session (Chair Eiji Ohmichi)

1A-01 Time-resolve ESR under adiabatic changes with sweeping fields

○Seiji Miyashita,[1,2] and Takashi Mori[1,2] — [1]The University of Tokyo; [2]CREST

1A-02 Evaluation of the Exchange Coupling in RE-3d Heterometallic Molecular Magnets

○H. Nojiri,1,2 H. Misaki,1 G. Tanaka,1 S. Yoshii,2 A. Gomella,3 T. Ishida, 4 and A. Okazawa4 — [1]IMR, Tohoku University;[2] CINTS, Tohoku University;[3]NanoJapan;[4] Dep. of Applied Physics and Chemistry, The University of Electro-Communications;

1A-03 Weakly exchange-coupled biradicals as a two-qubit operation – Determination of the spin-dipolar and exchange interactions by single-crystal ELDOR method

○Shigeaki Nakazawa,1,6 Kazunobu Sato,1,6 Tomohiro Yoshino,1 Tomoaki Ise,1,6 Shinsuke Nishida,1,6 Nobuyuki Mori,1 Robabeh Rahimi,2 Yasushi Morita,3,6 Kazuo Toyota,1 Daisuke Shiomi,1 Masahiro Kitagawa,4,6 Kazuhiro Nakasuji,3 Hideyuki Hara,5 Patrick Carl,5 Peter Hofer,5 and Takeji Takui.1,6 — 1Graduate School of Science, Osaka City University; 2Faculty of Science and Engineering, Kinki University; 3Graduate School of Science, Osaka University; 4Graduate School of Engineering Science, Osaka University; 5Buruker Biospin; 6JST-CREST

1A-04 Spin Relaxation of Ensemble of $[NV]^-$ Centers in Diamond

○J. Isoya,1 H. Sumiya,2 K. Nakamura,3 H. Hanaya,4 S. Saiki,4 S. Onoda,4 T. Ohshima,4 N. Morishita,4 A. Shimada,5 and Y. Mizuta5 — 1University of Tsukuba, 2SEI, 3Tokyo Gas, 4JAEA, 5JEOL

Lunch（12:00～13:00）

13:00～ Presentation Award Candidate (Chair Hiroshi Hirata)

1C-01 The measurement of redox status in sepsis model mice by *in vivo* ESR using acyl-protected hydroxylamine probe

○Shoko Okazaki, Yoko Tachibana, and Keizo Takeshita — Faculty of Pharmaceutical Sciences, Sojo University

1C-02 Application of flow-ESR technique for evaluation of second-order rate constants (k_s) of the reaction occurring between hydroxyl, superoxide radical and selected biomolecules

○Yasuhiro Sakurai, Rushiru Komatsu, Kenji Kanaori, and Kunihiko Tajima — Department of Biomolecular Engineering, Kyoto Institute of Technology

1C-03 ESR measurements of random kagome system $Zn_xCu_{4-x}(OH)_6Cl_2$

○ Mizuki Tomoo1, Susumu Okubo2, Takahiro Sakurai3, Masashi Fujisawa1, Hitoshi Ohta1, 2, 3 and Hikomitsu Kikuchi4 — 1Graduate School of Science, Kobe University; 2Molecular Photoscience Research Center, Kobe University; 3Center for Supports to Research and Education Activities, Kobe University; 4Department of Applied Physics, University of Fukui

1C-04 Topological phase transition proved by highfield and multifrequency ESR in the triangularlattice antiferromagnet $NiGa_2S_4$

○H. Yamaguchi,1 S. Kimura,1 M. Hagiwara,1Y. Nambu,2 S. Nakatsuji,3 Y. Maeno,4 A. Matsuo3 and K. Kindo3 — 1KYOKUGEN, Osaka University; 2Johns Hopking University; 3ISSP, University of Tokyo;4Departmen of Physics, Kyoto University

1C-05 Generation and Characterization of Quantum Entanglements for Molecular Spin-bus Quantum Computer Model Systems by Pulsed ENDOR Spin Technology

○Tomohiro Yoshino,1,5 Shinsuke Nishida,1,5 Shigeaki Nakazawa,1,5 Kazunobu Sato,1,5 Robabeh Rahimi,2 Kazuo Toyota,1,5 Daisuke Shiomi,1,5 Yasushi Morita,3,5 Masahiro Kitagawa,4,5and Takeji Takui1,5 — 1Graduate School of Science, Osaka City University; 2Faculty of Science and Engineering, Kinki University; 3Graduate School of Science, Osaka University; 4Graduate School of Engineering Science, Osaka University; 5 CREST, JST

Break (10 min.)

14:50～ Oral Session (Chair Yoshio Teki)

1A-05 Isotope effects on trapping of electrons, H_6^+, and H atoms in solid parahydrogen

○Yuta Shimizu1, Takayuki Kumada2, Jun Kumagai1 — 1Nagoya University; 2Japan Atomic Energy Agency

1A-06 Photoexcited States of Organic UV-A Absorber, Butylmethoxydibenzoylmethane

Azusa KIKUCHI and ○Mikio YAGI — Yokohama National University

1A-07 Effect of the quantum coherence in triplet precursor spin-state on the triplet-triplet electron spin polarization transfer

○Yasuhiro Kobori, Masaaki Fuki, Shusuke Katagiri and Hisao Murai — Faculty of Science, Shizuoka University

1A-08 A High Frequency CW/pulse ESR Study of Photosystem I

Hideto Matsuoka, Kei Nishiyama,1 Yasunori Ohba, Seigo Yamauchi, Oleg Poluektov, Lisa Utschig, Ernst Ohmes, Marion C. Thurnauer, and Gerd Kothe — IMRAM, Tohoku Univ.; Argonne National Laboratory; University of Freiburg

Break (10 min.)

16:20～ Oral Session (Akio Kawai)

1A-09 The Origin of Two Kinds of Excited Triplet States in Rh Corrole Complexes

〇Mana Tanabe, Hideto Matsuoka, Yasunori Ohba, and Seigo Yamauchi — Institute of Multidisciplinary Research for Advance Materials, Tohoku University

1A-10 Pulsed W-band EPR Study on Dynamics in the Excited Triplet State of Fullerene

〇Takuya Kotaki, Hideto Matsuoka, Yasunori Ohba, and Seigo Yamauchi — IMRAM, Tohoku University

1A-11 Determination and Interpretation of g Values in the Excited Triplet states by Means of Time-resolved High Frequency W-band EPR

〇 Seigo Yamauchi, Mana Tanabe, Hideto Matsuoka, Islam Saiful, Yasunori Ohba — Institute of Multidisciplinary Research for Advanced Materials (IMRAM), Tohoku University

1A-12 Photo-Excited Quartet State of Stable π-Radical Covalently Linked to Weak Electron Acceptor

〇Takemoto Yohei, Teki Yoshio — Osaka City University

1A-13 Quantum Chemical Calculations on the Spin-Orbit Contribution to Zero-Field Splitting Tensors: Applications to Organic High-Spin Systems

〇Kenji Sugisaki, Kazuo Toyota, Kazunobu Sato, Daisuke Shiomi, and Takeji Takui — Graduate School of Science, Osaka City University

November 10 (tue.) Takikawa Memorial Hall

10:40～ Oral Session (Yasuhiro Kobori)

1B-01 Anisotropic rotation of paramagnetic solutes in room temperature ionic liquids

〇Yusuke Miyake, Ryuta Aramaki, Masaki Iwama, Nobuyuki Akai, Akio Kawai, Kazuhiko Shibuya, Shinichi Koguchi and Tomoya Kitazume — Graduate School of Science and Engineering・Graduate School of Bioscience and Bioengineering, Tokyo Institute of Technology

1B-02 Time resolved EPR spectra of protonated porphyrin in room temperature ionic liquids

〇Akio Kawai, Yusuke Miyake, Takehiro Shiozaki, Nobuyuki Akai, Kazuhiko Shibuya, Thomas Berthold, Stefan Weber, and Gerd Kothe — Tokyo Tech.; Freiburg Univ.

1B-03 Mechanism of Magnetic Field Effects on Photochemical Reactions in Ionic Liquids

〇Tomoaki Yago, Masanobu Wakasa — Department of Chemistry, Saitama University

1B-04 Electron spin resonance of a model chemical compass for bird migration

〇K.Maeda, K.B.Henbest, C.Wedge, P.A.Liddel, D.Gust, C.R.Timmel, P.J.Hore — Centre for Advanced ESR (CAESR), Inorganic Chemistry Laboratory, University of Oxford,. Department of Chemistry, University of Oxford, Physical and Theoretical Chemistry Laboratory, Department of Chemistry and Biochemistry, Arizona State University

14:50～ Oral Seission (Aiko Shimada)

1B-05 Study on the detection of irradiated dried fruits

〇Tetsuo YOSHIDA, Tetsuya TAKEKAWA, Takayuki HIRONIWA, Toshiki MASUMIZU, Hideyuki HARA, Masahito OKANO, and Makoto MIYAHARA — Nuclear Fuel Industries, Ltd; KOGA ISOTOPE, Ltd; SOJO University; Bruker BioSpin K.K.; JEOL Ltd.; National Institute of Health Sciences

1B-06 Yields and mechanism of radical formation from alkyluracils by ionized irradiation

〇Seiko Nakagawa and Nobuaki Ohta — Tokyo Metropolitan Industrial Technology Research Institute; Hiroshima University

1B-07 An Approach of ESR Method for Irradiated Unboned Meats

〇Toshiki Masumizu, Keizo Takeshita, Shoko Okazaki, Tetsuo Yoshida, Tetsuya Takekawa, Kazuhiro Okano3, Hideyuki Hara, Takayuki Hironiwa, Makoto Miyahara — Sojo univ. , NFIS Ltd. , JEOL Ltd., Bruker Biospin K.K., Koga Isotope Ltd.,NIHS

1B-08 ESR Evaluation of Absorbed Dose on Irradiated Black Pepper (2)

〇Masatoshi Ohta, Hisakazu Okamura, Rumi Yamaoki — Niigata University, Osaka University of Pharmaceutical Sciences

Break (10 min.)

16:20～ Oral Session (Hideyuki Hara)

1B-09 Invited Lecture

Development of a new high-field ESR technique using a cantilever

〇Eiji Ohmichi, Shuya Hirano ,Noriaki Mizuno, and Hitoshi Ohta — Graduate School of Science, Kobe Univ., Molecular Photoscience Research Center, Kobe Univ.

1B-10 ESR Point Sensor with Magnetic Circuits Incorporated

Kenji TAMUKAI, Katsuhisa KATO, Naoki YOSHIDA, Hirosuke SUZUKI, Chihiro YAMANAKA, Hiroaki OHYA — KEYCOM, Osaka University

1B-11 Lifetime seek of nanobubble with ESR device for radical measurement of nanobubble water

Satoru KOBAYASHI, Masayoshi TAKAHASHI , Naoki YOSHIDA, Hirosuke SUZUKI, Hiroaki OHYA — KEYCOM、SANSOUKEN

1B-12 Dynamic nuclear polarization using free radicals produced by radiolysis and photolysis

〇Takayuki Kumada, Yohei Noda, Satoshi Koizumi, and Takeji Hashimoto — Adv. Sci. Res. Ctr., Japan Atomic Energy Agency

1B-13 ESR Observation of Molecular Orientations at the Interface and Surface of Rubrene Single-Crystal Transistors

K. Marumoto, N. Arai, H. Goto, K. Murakami, M. Kijima, Y. Tominari, J. Takeya, Y. Shimoi, H. Tanaka, S. Kuroda, T. Kaji, T. Nishikawa, T. Takenobu, and Y. Iwasa — University of Tsukuba; Osaka University; NRI-AIST; Nagoya University; Tohoku University

November 11 (wed.) Rokko Hall

9:00～ Mini Symposium on "ESR Applied Metrology" (Chair Chihiro Yamanaka, Masatoshi Ohta)

1S-01 Contributions and Effects of ESR and Luminescence Studies to Archaeology

〇Tsuneto Nagatomo — Nara University of Education

1S-02 Elucidation of Emitting Mechanism on Phosphor by ESR method

〇Masatoshi Ohta — Niigata University

1S-03 The generation of the radicals in the liquid using the atmospheric pressure plasma jet with low gas temperature

〇Katsuhisa Kitano, Atsushi Tani, Satoshi Ikawa, Naofumi Ohnishi, Ryuichi Arakawa, Seiya Yonemori, Satoshi Hamaguchi — Eng., Osaka Univ., Sci., Osaka Univ., TRI Osaka, Tohoku Univ., Kansai Univ.

1S-04 Atomic hydrogen transfer in gas hydrates

○A. Tani, K. Nakatsuji, T. Minami, N. Kobayashi, T. Sugahara, and K. Ohgaki — Science, Osaka University; Engineering Science, Osaka University

1S-05 ESR apparatus using micro strip-line resonators

○C. Yamanaka, Y. Otake ,H.Ohya and Y. Suzuki — Osaka Univ.,Keycom Corp.

Lunch (11:40～12:40)

12:40～ General Meeting

13:40～ Award Lecture (Chair Hikomitsu Kikuchi)

2C-01 Comprehensive Study on Low Dimensional Magnets, with Emphasis on Magnetic Resonance

○Yoshitami AJIRO — Institute of Physical Chemistry, Osaka University

14:20～ Award Lecture (Chair Tadaaki Ikoma)

2C-02 Spin Chemistry Studied by Time-resolved EPR Spectroscopy

○Shozo Tero-Kubota — Tohoku University

Break (10 min.)

15:10～ Young Investigator Award Lecture (Chair Satoshi Fujii)

2C-03 Study of molecular motion and chemical reactions in cryocrystals by a technique of high-resolution ESR spectroscopy using parahydrogen matrices

○Takayuki Kumada — Advanced Science Research Center, Japan Atomic Energy Agency

2C-04 Quantum information processing by single NV center in diamond

○N. Mizuochi, P. Neumann, F. Rempp, K. Nakamura, H. Watanabe, S. Yamasaki, F. Jelezko, J. Wrachtrup — University of Tsukuba; JST-PRESTO; University of Stuttgart; Tokyo Gas co.; Diamond Res. Center, AIST; Energy Technology Research Institute, AIST

2C-05 Noninvasive analysis of Redox status in transient MCAO mice and rats

○Mayumi Yamato — Innovation Center for Medical Redox Navigation, Kyushu University

November 11 (wed.) Takikawa Memorial Hall

9:00～ Oral Session (Chair Masahiro Kohno)

2B-01 Effect of Glucose on ESR of Spin Labeled Blood

○Asako Kawamori, Wataru Hattori, and Ken-ichi Yamada — AGAPE-Kabutoyama Institute of Medicine; Graduate School of Pharmaceutical Science, Kyushu University

2B-02 Development and Intracorporeal Dynamics of TEMPO-Containing Nano-particle

Toru Yoshitomi, ○Aki Hirayama, Takashi Mamiya, Hirofumi Matsui, Yukio Nagasaki — Grad. Sch. Pure and Applied Sciences; TARA; Grad. Sch. Comprehensive Human Sciences; TIMS; University of Tsukuba. Center for Integrative Medicine, Tsukuba University of Technology. Int. Center for Materials Nanoarchitectonics ,Nat. Inst. for Materials Science

2B-03 Noninvasive imaging of fluctuating oxygen in transplanted tumor using pulsed electron paramagnetic resonance imaging (EPRI)

○Hironobu Yasui、Shingo Matsumoto、Nallathamby Deavasahayam、Sankaran Subramanian、James B. Mitchell、Murali C. Krishna — Laboratory of Radiation Biology, Graduate School of Veterinary Medicine, Hokkaido University; Radiation Biology Branch, Center for Cancer Research, National Cancer Institute

Break (20 min.)

10:20～ Oral Session (Chair Ken-ichi Yamada)

2B-04 Mapping of Anti-oxidant capacity in mouse brain by rapid EPR imaging system

○Hirotada Fujii, Katsuya Kawanishi, Yoko Kuwahara, Hideo Sato-Akaba, and Hiroshi Hirata — Center for Medical Education, Sapporo Medical University; Graduate School of Engineering Science, Osaka University; Graduate School of Information Sciences and Technology, Hokkaido University

2B-05 Evaluation of SOD-like activity of water-soluble sulfonated salen manganese(Ⅲ) complex

○J. Sato, H. Katagiri, K. Unoura, T. Ogata, Y. Ohba — Graduate School of Science and Engineering, Yamagata Univ.; Faculty of Science, Yamagata Univ

2B-06 A quantitative analysis of reactive oxygen species generated by a mechanism of a tyrosine-tyrosinase reaction

○Mika TADA, Masahiro KOHNO — New Industry creation hatchery center; NICHe, Tohoku University

2B-07 Temperature Depending Free Radical Reaction in Water

○Ken-ichiro Matsumoto, Minako Nyui, Masato Kamibayashi, Toshihiko Ozawa, Ikuo Nakanishi and Kazunori Anzai — National Institute of Radiological Sciences; Yokohama College of Pharmacy

November 12 (thu.) Rokko Hall

9:00～ Mini Symposium on "Spin analysis" (Chair Kunihiko Tajima, Ken-ichi Yamada)

2S-01 Development of Spinanalysis techniques; A new HPLCESR System for Postcolumn Detection of Superoxide Radical Scavenging Ability of Column Eluates

○Kunihiko Tajima — Department of Biomolecular Engineering, Kyoto Institute of Technology

2S-02 Mechanistic Study on Radical-Scavenging Reaction of Antioxidants by Spin Analysis

〇Ikuo Nakanishi — National Institute of Radiological Sciences

2S-03 ESR Study of Dynamics and Reactivity of Radical Center during Radical Reactions

Atsushi Kajiwara — Nara University of Education

2S-04 Development of New Nitroxyl Radicals for *in vivo* Imaging of Free Radical Reaction

〇Ken-ichi Yamada, Kiyoshi Sakai, Hideo Utsumi — Faculty of Pharmaceutical Sciences, Kyushu University

2S-05 Progress in fast CW-EPR imaging

Hideo Sato-Akaba, Yoko Kuwahara, Hirotada Fujii, and 〇Hiroshi Hirata — Graduate School of Engineering Science, Osaka University; Center for Medical Education, Sapporo Medical University; Graduate School of Information Science and Technology

Lunch (11:40～12:40)

12:40～ Oral Session (Chair Hisaaki Tanaka)

3A-08 Synthesis and Property of Brominated Diselenadithiafulvalene-based Spin-polarized Donors

〇Ryoji Mogi, Hideji Komatsu, Michio M. Matsushita, Kentaro Suzuki, and Tadashi Sugawara — Department of Basic Science, The University of Tokyo; Department of Chemistry, Nagoya University

3A-09 Preparation and properties of ion-radical salt derived from TSF-based spin-polarized donor

〇Hideji Komatsu, Michio M. Matsushita, Kentaro Suzuki, and Tadashi Sugawara — Department of Basic Science, The University of Tokyo; Department of Chemistry, Nagoya University

3A-10 Microscopic Investigation of Competition Antiferromagnetic Phases in One-Dimensional Electronic Systems

K. Sugiura, F. Iwase, K. Furukawa and 〇T. Nakamura — The Graduate University for Advanced Studies; Institute for Molecular Science

3A-11 Crystal structures and magnetic properties of tri-and tetrafluorophenyl nitronyl nitoroxides

〇Tsuneki Kanzawa, Sadafumi Nishihara, Yuko Hosokoshi — Department of Physical Science, Osaka Prefecture University; INR, Osaka Prefecture University

3A-12 The magnetic properties of an organic one-dimensional compound BIP-V2

〇M. Tada, S. Nishihara, Y. Hosokoshi, H.Nojiri — Grad.Sch.Sci., Osaka.Pref.Univ., INR, Osaka.Pref.Univ., IMR Tohoku Univ

3A-13 Specific heat study of an organic tri-radical BIPNNBNO having S=1 and S=1/2

〇Takashi Imazawa, Hiroyuki Tsujii, Tsuneki Kanzawa, Katsuya Inoue, Yasumasa Takano, and Yuko Hosokoshi — Osaka Prefecture University, The University of Florida, Hiroshima University

Break (10 min.)

14:50～ Oral Session (Chair Yuko Hosokoshi)

3A-14 Hyperfine interaction of N-V center in Ib diamonds

〇Ikuko Akimoto, Youhei Matsuoka and Ken-ichi Kan' no — Wakayama University

3A-15 Magnetic Switching Phenomenon in Alkyloctamethylferrocenium·TFSI associated with Solid-Liquid Phase Transition

〇Yusuke Funasako, Takashi Inagaki, Tomoyuki Mochida,, Toshihiro Sakurai, Hitoshi Ohta, Kou Furukawa, and Toshikazu Nakamura — Graduate School of Science, Kobe University; Center for Supports to Research and Education Activities, Kobe University; Molecular Photoscience Research Center, Kobe University; Institute for Molecular Science

3A-16 Field-induced electron spin resonance studies of ultrathin film transistors using orientationally controlled regioregular poly(3-hexylthiophene)

〇Shun-ichiro Watanabe,Hisaaki Tanaka,Shin-ichi Kuroda, Akio Toda, Shusaku Nagano and Takahiro Seki — Department of applied physics, Nagoya University; Department of molecular design & engineering, Nagoya University

3A-17 ESR observations of charge carriers and molecular orientations in thin films of poly(p-phenylene vinylene) derivatives

〇Hisaaki Tanaka, Yoshihiko Bito, Shun-ichiro Watanabe, Hiroshi Ito, Kazuhiro Marumoto, and Shin-ichi Kuroda — Nagoya university; University of Tsukuba

3A-18 Observation of a Spin-Gap in Triangular Lattice Antiferromagnet $InMnO_3$ by High-Field ESR

〇Hitoshi Ohta, Naruaki Matsumi , Susumu Okubo, Masashi Fujisawa, Takahiro Sakurai, Hikomitsu Kikuchi, Kou Furukawa, and Toshikazu Nakamura — Molecular Photoscience Research Center, Kobe University; Faculty of Science, Kobe University; Center for Support to Research and Education Activities, Kobe University; Faculty Engineering, Fukui University; 5Institute of Molecular Science

November 12 (thu.) Takikawa Memorial Hall

9:00～ Oral Session (Daisuke Shiomi)

3B-01 Spin Relaxation Effect on Magnetoresistance due to Electron-hole Pair Mechanism

Yuka Takahashi and 〇Tadaaki Ikoma — Graduate School of Science and Technology, Niigata University; PRESO, JST

3B-02 Spin Dynamics of Photo-Induced Conductive Materials TTF Derivatives

〇K. Furukawa, Y. Sugishima, H. Fujiwara, and T. Nakamura — Institute for Molecular Science; The Graduate University for Advanced Studies; Osaka Prefecture University

3B-03 Magnetic Hysteresis of Molecular Magneto-Optical Effects in the Visible Region at Room Temperature: Phthalocyanine Thin Films on Ferromagnetic Inorganic Substrates

〇Kazuyuki Ishii and Kazutaka Ozawa — Institute of Industrial Science, The University of Tokyo

Break (20 min.)

10:20～ Oral Session (Chair Yasunori Ohba)

3B-04 Weakly coupled exchange interactions of phthalocyanine-based tetranitroxide as a prototypical model for matter spin-qubits in 2D arrays

○Mikito Nozaki, Shigeaki Nakazawa, Kenji Sugisaki, Kazunobu Sato, Daisuke Shiomi, Kazuo Toyota, Aaron S. Micallef, Graeme R. Hanson, Masahiro Kitagawa, Takeji Takui — Graduate School of Science, Osaka City University; The University of Queensland AIBN; The University of Queensland CMR; Graduate School of Engineering Science, Osaka University; JST-CREST

3B-05 A Study of the Electronic Structure of a Weakly Exchange-Coupled Biradical System by Two-Dimensional Electron Spin Transient Nutation Spectroscopy

○Kazuki Ayabe, Kazunobu Sato, Tomoaki Ise, Kenji Sugisaki, Shigeaki Nakazawa, Yasushi Morita, Kazuo Toyota, Daisuke Shiomi, Masahiro Kitagawa, and Takeji Takui — Graduated School of Science, Osaka City University; Graduated School of Science, Osaka University; Graduated School of Engineering Science, Osaka University; CREST-JST

3B-06 Supramolecular Conformation of Spin-Labeled Crown-Ethers as Studied by Pulsed Electron-Electron Double Resonance

○Yuki Kanzaki, Daisuke Shiomi, Takatoshi Sawai, Shigeaki Nakazawa, Kazunobu Sato, Keiji Okada and Takeji Takui — Graduate School of Science, Osaka City University

3B-07 Polyether-bridged Nitroxide Biradicals and Their Host-guest Compounds

○OSADA, Sayaka; ISHIDA, Takayuki — The University of Electro-Communications

Lunch (11:40～12:40)

12:40～ Oral Session (Chair Hiroyuki Mino)

3B-08 Structural advantage for anti-oxidation of nucleotides_EPR and DFT calculations on nucleotide radicals

○Catharina T. Migita and Kouto Migita — Faculty of Agriculture, Yamaguchi University; Graduate School of Science and Engineering, Yamaguchi University

3B-09 Slow releasing long-lived radicals caused by medium mediated radiation bystander effect: Effect of ascorbate addition

○Jun Kumagai,1 Kousi Mioki, Kazuto Miura, Genro Kashino, and Masami Watanabe — Nagoya University; Kyoto University Research Reactor Institute

3B-10 Spin-trapping Analysis for Thermal Degradation in Polymer Solid

○Masayo SONO,Wataru SAKAI,and Naoto TSUTSUMI — Kyoto Institute of Technology, Department of Macromolecular Science and Technology

3B-11 Interpretations of ESR spectra observed during radical polymerizations of fumarates

○Atsushi Kajiwara, Satoe Arata, Takafumi Miki, and Naoyuki Amaya — Nara University of Education; JCII

3B-12 Analysis of Stratum Corneum Lipid Ordering by A Slow-Tumbling Simulation for Electron Paramagnetic Resonance

Kouichi Nakagawa, Kazunori Anzai, and Howard. Maibach — RI Research Center, Fukushima Med. University, NIRS, and UCSF

Break (10 min.)

14:30～ Oral Session (Chair Catharina Taiko Migita)

3B-13 Distance Determination between Tropomyosin and Actin in Muscle Thin Filament Using Isotopical Spin-labels

K. Ueda, C. Kimura, M. Miki, S. Ueki, T. Arata — Grad. Sch. Sci., and Inst. Protein Res., Osaka Univ., 3Tokushima-Bunri Univ., Grad. Sch. Eng. Sci., Univ. Fukui, and Grad. Sch. Sci., Nagoya Univ

3B-14 The Protein Interaction of Clock Proteins in Cyanobacteria Studied by SDSL-ESR

○Risa MUTOH, Hiroyuki MINO, Reiko MURAKAMI, Tatsuya UZUMAKI, Kentaro ISHII, Masahiro ISHIURA — Center for Gene research, Nagoya Univ., Graduate School of Schience, Nagoya Univ

3B-15 PELDOR analysis of the protein-protein interaction in the blue light sensor BLUF protein SyPixD

○Toru Kondo, Kazuhiko Tsutsui, Shinji Masuda, and Hiroyuki Mino — Nagoya University; Tokyo Institute of Technology

3B-16 ESR analysis of the light reaction process of SyPixD

○Kazuhiko Tsutsui, Toru Kondo, Shinji Masuda,, and Hiroyuki Mino — Nagoya University ; Tokyo Institute of Technology