

Scientific Program

November 8th – Sunday

Flash Talks for All Poster Presentations

Chair: Matvey V. Fedin & Floriana Tuna

18:30- 2-Min Flash Oral Talks for All Poster Presentations

Invited Talks

Chair: Lahcène Ouahab

19:30-20:00 **Martin T. Lemaire**

1PM-1

Brock University, Canada

“Design and synthesis of new open-shell polytopic ligands and redox non-innocence in multifunctional materials”

20:00-20:30

1PM-2

Deni Mance, Peter Gast, Martina Huber, Marc Baldus and **Konstantin L. Ivanov**

Utrecht University, The Netherlands; Leiden University, The Netherlands; International Tomography Center, SBR Russia; Novosibirsk State University, Russia

“The magnetic field dependence of cross-effect dynamic nuclear polarization under magic angle spinning”

November 9th - Monday

Chair: Martin T. Lemaire

8:15-8:40

2AM-1

Yasuhiro Kobori, Nina Ponomarenko, and James R. Norris Jr.

Kobe University, Japan; University of Chicago, USA

“Time-resolved EPR on primary charge separation and recombination in the photosynthetic reaction center: Impact of electronic couplings”

8:40-9:05

2AM-2

Andrei I. Poddelskii, Svetlana V. Baryshnikova, Ekaterina V. Bellan, Ivan V. Smolyaninov, Nadezhda T. Berberova, Vladimir K. Cherkasov, Gleb A. Abakumov

G.A. Razuvaev Institute of Organometallic Chemistry of RAS, Russia; Astrakhan State Technical University, Russia

“Mixed ligand complexes bearing redox-active o-quinonato type ligands and ferrocene”

9:05-9:30

2AM-3

Alexandra V. Yurkovskaya, Natalya Fishman, Olga B. Morozova

International Tomography Center, Russia

“Electron Transfer between Aromatic Amino Acids and Histidine Radicals”

- 9:30-9:50** **Nikolay Efimov**, Pavel Koroteev, Andrey Ilyukhin, Vadim Minin, Elena Ugol'kova, Zhanna Dobrokhotova, Vladimir Novotortsev
2AM-4
N.S. Kurnakov Institute of General and Inorganic Chemistry of RAS, Russia
"Charge transfer adducts of rare earth 3,5-dinitrobenzoates with N,N,N',N'-tetramethyl-*p*-phenylenediamine"
- 9:50-10:05** **Break**
Chair: Yasuhiro Kobori
- 10:05-10:30** **Yuko Hosokoshi**
2AM-5
Osaka Prefecture University, Japan
"Designing of Quantum Spin Magnets by Organic Radicals"
- 10:30-10:50** **Natalia A. Protasenko**, Andrei I. Poddelskii, Vladimir K. Cherkasov
2AM-6
G.A. Razuvaev Institute of Organometallic Chemistry of RAS, Russia
"Heteroligand o-semiquinonato transition metal complexes with formazanates and verdazyls"
- 10:50-11:15** **Pritam Mukhopadhyay**, Sharvan Kumar, Sudhir Kumar Keshri, Yogendra Kumar and Jyoti Shukla
2AM-7
Jawaharlal Nehru University, India
"Ambient Stable Naphthalenediimide-based Radicals Ions and Zwitterionic Radicals: Emergent New Design Strategies"
- 11:15-11:40** Nobuaki Tanaka, Shuichi Suzuki, Masatoshi Kozaki, Daisuke Shiomi, Kazunobu Sato, Takeji Takui, and **Keiji Okada**
2AM-8
Osaka City University, Japan
"Synthesis and Properties of Trioxyltriphenylamine Dimers: Neutral and Cationic Species"
- 11:40-13:00** **Conference Photo Lunch**
Chair: Konstantin L. Ivanov
- 13:00-13:25** Kana Yokoyama, Yusuke Wakikawa, Tomoaki Miura, Jun-ichi Fujimori, Fuyuki Ito, and **Tadaaki Ikoma**
2PM-1
Niigata University, Japan; Shizuoka Institute of Science and Technology, Japan; Shinshu University, Japan; Japan Science and Technology Agency, Japan
"Molecular Rotation Effect on Triplet Fusion"
- 13:25-13:45** **Hideto Matsuoka**, Lisa Röck, Marius Retegan, Frank Neese, Christoph Bannwarth, Stefan Grimme, Sigurd Höger, Olav Schiemann
2PM-2
University of Bonn, Germany; Max Planck Institute for Chemical Energy Conversion, Germany
"Time-Resolved EPR and Theoretical Investigations of Thiophene-Decorated Phenazines in Excited Triplet States"
- 13:45-14:10** **Mikhail Kiskin**, S. Nikolaevskii, I. Evstifeev, E. Egorov, E. Mikhalyova, V. Minin, S. Kolotilov, V. Pavlishchuk, I. Eremenko
2PM-3
N.S. Kurnakov Institute of General and Inorganic Chemistry RAS, Russia; L.V. Pisarzhevskii Institute of Physical Chemistry of the National Academy of Sciences of Ukraine, Ukraine
"Effects of radical generation in coordination complexes upon photo irradiation"

- 14:10-14:35** **Sergey L. Veber**, Irina Yu. Barskaya, Sergey V. Fokin, Evgeny V. Tretyakov, Kseniya Yu. Maryunina, Renad Z. Sagdeev, Elena G. Bagryanskaya, Victor I. Ovcharenko and Matvey V. Fedin
2PM-4
International Tomography Center SB RAS, Russia; Novosibirsk State University, Russia, N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry, SB RAS, Russia
“FTIR Study of Light-Induced Magnetostructural Transitions in Breathing Crystals”
- 14:35-14:55** **Break**
Chair: Tadaaki Ikoma
- 14:55-15:20** **Mikhail Bubnov**, Alexey Zolotukhin, Nina Skorodumova, Artem Bogomyakov, Natalia Protasenko, Georgy Fukin
2PM-5
G.A.Razuvaev Institute of organometallic chemistry of RAS, Russia; International Tomographic center of SB RAS, Russia
“Binuclear o-semiquinonato cobalt complexes”
- 15:20-15:40** **Yasutaka Kitagawa**, Mizuki Asaoka, Koji Miyagi, Rena Nishikubo, Taku Takebayashi and Masayoshi Nakano
2PM-6
Osaka University, Japan
“DFT study on electronic structure and magnetic interaction of cyanide-bridged Fe-Co complex”
- 15:40-16:05** **Dmitriy Mazhukin**, Shuangshuang Peng, Yurii Gatilov, Svyatoslav Tolstikov, Evgeny Tretyakov, Galina Romanenko, Artem Bogomyakov and Victor Ovcharenko
2PM-7
N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry SB RAS, Russia; Novosibirsk State University, Russia; Heilongjiang University, People's Republic of China; International Tomography Center SB RAS, Russia
“New Functional Mono- and Diradicals of 2,5-Dihydroimidazole Series: Synthetic Approaches & Chelating Abilities”
- 16:05-16:30** **Tomonari Wakabayashi**
2PM-8
Kindai University, Japan
“A trend in the magnitude of hyperfine constants for nitrogen-doped fullerenes N@C_n”
- 16:30-16:45** **Break**
Chair: Pritam Mukhopadhyay
- 16:45-17:10** **Lahcène Ouahab**, F. Pointillart, O. Cadot, S. Golhen
2PM-9
Université de Rennes 1, France
“Lanthanides-TTF complexes displaying single molecule magnet behaviour and luminescence”
- 17:10-17:35** **Galina Romanenko**, Alexey Polushkin, Kseniya Maryunina, Artem Bogomyakov, Renad Sagdeev, and Victor Ovcharenko
2PM-10
International Tomography Center SB RAS, Russia; Hiroshima University, Japan
“Spin Transitions in Breathing Crystals: Pressure / Temperature Induced Structure Dynamics of Cu(hfac)₂L^{Me} Crystals”

- 17:35-17:55** **Daisuke Tanaka**
Kwansei Gakuin University
 2PM-11 “Switching properties of double-decker porphyrin single-molecule magnets”
- 17:55-18:20** **Valentin Novikov**, Alexander Pavlov, Yulia Nelyubina, Yan Voloshin
Nesmeyanov Institute of Organoelement Compounds RAS, Russia
 2PM-12 “A Trigonal Prismatic Mononuclear Cobalt(II) Complex Showing Single-Molecule Magnet Behavior”
- 18:20-18:45** **Viacheslav Kuropatov**, Konstantin Martyanov, Vladimir Cherkasov
G. A. Razuvaev Institute of Organometallic Chemistry of RAS, Russia
 2PM-13 “o-Quinone annelated with dithiete: coordination abilities of dithiolene and dioxolene sites”

November 10th – Tuesday

Chair: Kseniya Maryunina

- 8:15- 8:45** **Masahiro Yamashita**
 Tohoku University, Japan
 3AM-1 “Frontier of Quantum Molecular Spintronics Based on Single-Molecule Magnets: Toward Green IT Innovation”
- 8:45-9:05** **Natalya V. Gogoleva**, E.N. Zorina-Tikhonova, S.V. Kolotilov, M.A. Kiskin, G.G. Aleksandrov, Artem Bogomyakov, N.N. Efimov, E.A. Ugolkova, V.V. Minin, A.A. Sidorov, V.M. Novotortsev, and I.L. Eremenko, N.S. Kurnakov
Institute of General and Inorganic Chemistry, Russia; L. V. Pisarzhevskii Institute of Physical Chemistry of the National Academy of Sciences of the Ukraine, Ukraine; International Tomography Centre, Russia
 3AM-2 “Synthesis, magnetochemical and ESR research of polynuclear complexes of 3d-metals and dicarboxylic acids”
- 9:05-9:25** **Stanislav Nikolaevskii**, Mikhail Kiskin, Grigory Aleksandrov, Aleksey Sidorov, Igor Eremenko
Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Russia
 3AM-3 “Reactivity of 4,5-dimethyl-1,2-phenylenediamine towards Cu(II) and Ni(II) pivalates”
- 9:25-9:45** **Vladimir Novotortsev**, Pavel Koroteev, Andrey Gavrikov, Nikolay Efimov, Rodolphe Clérac, Mathieu Rouzières, Andrey Ilyukhin¹, Zhanna Dobrokhotova
N.S. Kurnakov Institute of General and Inorganic Chemistry of RAS, Russia; CNRS, France; Univ. Bordeaux, France
 3AM-4 “Magnetic behaviour of some heavy lanthanide carboxylates”
- 9:45-10:00** **Break**

Chair: Masahiro Yamashita

- 10:00-10:25** **Yasuhiko Yukawa**, Satoshi Igarashi, Ayako Hosoi, Shin-ichi Kawaguchi, Haruka Ikeda, Floriana Tuna, Guillem Aromí
3AM-5
Niigata University, Japan; The University of Manchester, UK; University of Barcelona, Spain
“Design of 3d-4f Cluster Refrigerants with Amino Acidato Ligands”
- 10:25-10:45** **Kseniya Maryunina**, Sadafumi Nishihara, Katsuya Inoue, Natalia Artiukhova, Galina Romanenko, Victor Ovcharenko
3AM-6
Hiroshima University, Japan; International Tomography Center SB RAS, Russia
“Phase Transitions in Cu(II)-Nitroxide Complexes: Pressure Sensitive Effect”
- 10:45-11:05** **Natalia Artiukhova**, K. Maryunina, E. Tretyakov, G. Romanenko, A. Polushkin, A. Bogomyakov, K. Inoue, S. Nishihara, V. Ovcharenko
3AM-7
International Tomography Center SB RAS, Russia; Hiroshima University, Japan
“Copper complex with spirocyclopentane substituted nitroxide: magnetic properties under pressure”
- 11:05-11:25** **Youhei Miura**, Shota Ooshima and Naoki Yoshioka
3AM-8
Keio University, Japan
“Functionalizaion of 1,5-Diphenyl-6-oxoverdazyl Radical by using Suzuki-Miyaura Cross Coupling Reaction”
- 11:25-11:45** **Katsuichi Kanemoto**, Takayuki Nakajima
3AM-9
Osaka City University, Japan
“Capacitance-Variation Induced by Electron Spin Resonance in Organic Semiconductors”

11:45-13:00 Lunch

Chair: Osamu Sato

- 13:00-13:30** **Victor Ovcharenko**
3PM-1
International Tomography Center, Russia
“A New Method for the Synthesis of Heterospin Complexes”
- 13:30-13:50** **Daishi Fujita**, Yoshihiro Ueda, Sota Sato, Makoto Fujita
3PM-2
The University of Tokyo, Japan; JST, PRESTO, Japan; WPI-AIMR, Tohoku University and JST ERATO, Japan
“Geometrical Control of M_nL_{2n} Complex Self-Assembly”
- 13:50-14:15** **Matvey V. Fedin**, Sergey L. Veber, Elena G. Bagryanskaya, Galina V. Romanenko, Victor I. Ovcharenko
3PM-3
International Tomography Center SB RAS, Russia; Novosibirsk State University, Russia; N. N. Vorozhtsov Novosibirsk Institute of Organic Chemistry SB RAS, Russia
“Accessing Spatial Distributions of Phases in Paramagnetic Solids by EPR: Application to $Cu(hfac)_2L^R$ Family”
- 14:15-14:35** **Alyona Starikova**, Vladimir Minkin
3PM-4
Institute of Physical and Organic Chemistry at Southern Federal University, Russia
“Computational modeling of structure and magnetic properties of mono- and dinuclear adducts of iron bis-chelates with o-benzoquinone diimines”

14:35-14:50 Break

Chair: Victor Ovcharenko

14:50-15:20 Osamu Sato, Soonchul Kang, Satoshi Nishino, Kazusa Nakamura, Shinji Kanegawa, Tao Liu

3PM-5

Kyushu University, Japan; Dalian University of Technology, China
“Cyanide-Bridged Fe₄₂ High-Spin Nanocage with S = 90/2”

15:20-15:40 Kenji Sugisaki, Rie Hisamoto, Kazuo Toyota, Kazunobu Sato, Daisuke Shiomi, and Takeji Takui

3PM-6

Osaka City University, Japan
“DFT-based Calculations of the Zero-Field Splitting Tensors of Transition Metal Complexes”

15:40-16:05 Alexander V. Piskunov, I.V. Ershova, A.V. Cherkasov

3PM-7

G.A. Razuvaev Institute of Organometallic Chemistry of RSA, Russia
“Synthesis and magnetic behavior of paramagnetic o-iminosemiquinolate complexes of 13 group metals”

16:05-16:25 Marina V. Petrova, V.A. Morozov, N.N. Lukzen

3PM-8

International Tomography Center SB RUS, Russia; Novosibirsk State University, Russia

“Band Structure DFT Approach versus Single Cluster Hybrid DFT Approach for Calculation of Exchange Coupling Transformations in “Breathing Crystal” Compounds”

16:25-16:45 Chihiro Sato, Masatoshi Kozaki, Shuichi Suzuki, Keiji Okada

3PM-9

Osaka City University, Japan
“2,11-Dibromo-13,14-dimesityl-5,8-dioxapentaphene: Stable and Twisting Polycyclic System Containing an o-Quinodimethane Skeleton”

16:45-17:00 Break

Chair: Masatoshi Kozaki

17:00-17:25 Floriana Tuna

3PM-10

University of Manchester, UK
“Lanthanide and Actinide Complexes as Single-Molecule Magnets and Coherent Spin-Qubits”

17:25-17:45 Elham Hosseini Lapasar, Koji Maruyama, Taiki Shibata, Shigeaki

3PM-11

Nakazawa, Kazunobu Sato, Takeji Takui
Osaka City University, Japan
“Indirect implementation of quantum gates on molecular spin systems via control of an electron spin qubit”

17:45-18:05 Martin Benkert, Gerd Buntkowsky, Herbert Zimmermann, Konstantin L.

3PM-12

Ivanov, **Hans-Martin Vieth**
Freie Universität Berlin, Germany; Eduard-Zintl-Institut, TU Darmstadt, Germany; Max-Planck-Institut, Germany; International Tomography Center, Russia

“Coherence transfer in coupled electron-nuclear spin systems”

18:05-18:25 Yusa Takemoto; Yoshiaki Uchida; Satoshi Shimono; Tatsuhisa Kato; Jun Yamauchi; Rui Tamura

3PM-13

Kyoto University, Japan; Osaka University, Japan
“Magnetic Properties of Organic Radical Liquid Crystalline Gels: Relationship Between Positive Magneto-LC Effects and Domain Sizes”

18:25-18:45

3PM-14

Alena Sheveleva, A. Poryvaev, D. Kolokolov, A. Stepanov, M. Fedin, E. Bagryanskaya

International Tomography Center SB RAS, Russia; Novosibirsk State University, Russia; Boreskov Institute of Catalysis SB RAS, Russia; N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry SB RAS, Russia

“Mobility and Reactivity of TEMPO and 4-substituted TEMPO Derivatives in Metal-Organic Framework MIL-53(AI)”

Poster Presentations

November 9th - Monday

19:00-

(November 8th -Sunday, 18:30-19:30, 2-Min Flash Talks)

- P-1 **Three-dimensional quantum spin system with 4-coordination realized by a new nitronyl nitroxide biradical F₄BIPBNN**
Naoki Amaya, Takamasa Yamamoto, Hironori Yamaguchi, Toshio Ono, Akira Matsuo, Koichi Kindo, Hiroyuki Nojiri, and Yuko Hosokoshi
Grad. Sch. Sci., Osaka Pref. Univ., Japan, ISSP, Univ. of Tokyo., IMR, Tohoku Univ
- P-2 **Spectroscopic studies on the A-X transition of Bi₂ in solid neon matrices**
Asuka Endo, Miho Hatanaka, Yusuke Morisawa, and Tomonari Wakabayashi
Kindai University, Japan
- P-3 **Structure and Physical Properties of Novel Cu(hfac)₂-Nitroxide Complexes with Chiral Substituent**
Tomoaki Kawabata, Kseniya Maryunina, Galina Romanenko, Sadafumi Nishihara, Katsuya Inoue
Hiroshima University, Japan; International Tomography Center SB RAS, Russia
- P-4 **2,4,6-Triformylphenol as a Reliable Scaffold for Synthesis of Perspective Multi-Spin Imidazoline Radicals**
Yurii Ten, Tatyana Rybalova, Dmitry Stass and Dmitriy Mazhukin
N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry SB RAS, Russia; Novosibirsk State University, Russia; Institute of Chemical Kinetics and Combustion SB RAS, Russia
- P-5 **Magnetic properties of an antiferromagnetic triangular spin tube formed by an organic triradical TNOTOT**
Yota Miyake, Kentaro Kikuchi, Hironori Yamaguchi, Toshio Ono, Shuichi Suzuki, Keiji Okada, Akira Matuo, Koichi Kindo and Yuko Hosokoshi
Osaka Prefecture Univ., Japan; Osaka City Univ., Japan; ISSP, Univ. of Tokyo, Japan
- P-6 **Structure and Magnetic Properties of Chiral Complexes Based on Transition Metals and Achiral Nitroxides**
Natsuki Morita, Hiroki Kitao, Syoya Sato, Kseniya Maryunina, Sadafumi Nishihara, Katsuya Inoue
Hiroshima University, Japan
- P-7 **Synchronized proton-electron transfer systems in rhenium complexes with mixed-valence states as studied by single-crystal ESR spectroscopy**
Tomoki Nakagawa, Takeshi Yamane, Kazunobu Sato, Kenji Sugisaki, Yuki Kanzaki, Kazuo Toyota, Daisuke Shiomi, Makoto Yoshizawa, Makoto Tadokoro and Takeji Takui
Osaka City University, Japan; Tokyo University of Science, Japan

- P-8 **Phase transition of charge transfer in mixed-valence iron complexes**
NAKANISHI, Takumi; NAKAMURA, Kazusa; KANG, Soonchul;
 KANEGAWA, Shinji; SATO Osamu
IMCE, Kyushu Univ., Japan
- P-9 **Ferroelasticity and Weak Ferromagnetism in the Two-Dimensional Organic-Inorganic Perovskite-Like Compound $(C_6H_5C_2H_4NH_3)_2Fe^{II}Cl_4$**
Yuki Nakayama, Jing Han, Kseniya Maryunina, Sadafumi Nishihara,
 Takashi Suzuki, Katsuya Inoue
Hiroshima University, Japan
- P-10 **Quantum operations by use of molecular spin qubits, Potassium Hydrogen Maleate Radical with strong forbidden transitions**
Shigeaki Nakazawa, Taiki Shibata, Satoru Yamamoto, Elham Hosseini,
 Kazuo Toyota, Daisuke Shiomi, Kazunbu Sato, and Takeji Takui
Osaka City University, Japan
- P-11 **Synthesis and Physicochemical Properties of Metal Complexes Carrying Thiadiazole Unit**
Daisuke Nishikawa, Youhei Miura, and Naoki Yoshioka
Keio University, Japan
- P-12 **Synthesis of New Fe_{42} Cyanide-Bridged Nanocages Analogues**
Nishino, Satoshi; Kang, Soonchul; Kanegawa, Shinji; Sato, Osamu
Kyushu University
- P-13 **Synthesis of Selectively Deuterated Nitronyl and Imino Nitroxides and Their EPR Spectra**
Norimasa Ozora, Yoichiro Emura, Yohei Miura, and Naoki Yoshioka
Keio University, Japan
- P-14 **Signal Phase Manipulation with Coherent Microwaves for Quantum Spin Control based on Selective Excitation ESR Techniques**
Kazunobu Sato, Shigeaki Nakazawa, Yasushi Morita, Daisuke Shiomi,
 and Takeji Takui
Osaka City University, Japan; Aichi Institute of Technology, Japan
- P-15 **Molecular optimization for molecular-spin based quantum computers: Simulations of CNOT/SWAP gates only by microwave pulses**
Taiki Shibata, Satoru Yamamoto, Shigeaki Nakazawa, Elham Hosseini
 Lapasar, Kenji Sugisaki, Koji Maruyama, Kazuo Toyota, Daisuke Shiomi,
 Kazunobu Sato and Takeji Takui
Osaka City University, Japan
- P-16 **Syntheses and Magnetic Properties of (Nitronyl Nitroxide)-substituted Phenothiazine Radical Cationic Derivatives**
Takuma Tahara, Shuichi Suzuki, Masatoshi Kozaki, Kazunobu Sato,
 Takeji Takui, Yuko Hosokoshi, Youta Miyake, and Keiji Okada
Osaka City University, Japan; Osaka Prefecture University, Japan
- P-17 **Crystal Structures of Benzotriazinyl Radicals and Their Physicochemical Properties**
Yusuke Takahashi, Youhei Miura and Naoki Yoshioka
Keio University, Japan

- P-18 **A Hyperfine ESR Spectrum of Stable Naphthalene Diimide Radical Ion with Phosphonium Groups in Solution**
Shunsuke Tatsumi, Kenji Sugisaki, Kazunobu Sato, Kazuo Toyota, Daisuke Shiomi, Sharvan Kumar, Sudhir Kumar Keshri, Yogendra Kumar, Pritam Mukhopadhyay, and Takeji Takui
Osaka City University, Japan; Jawaharlal Nehru University, India
- P-19 **Counter Ion Effects on the PhotocARRIER Dynamics in Polycrystalline Films of Benzimidazolium Salts**
K. Uchida, Y. Wakikawa, T. Miura, K. Furukawa, K. Nemoto, E. Hasegawa, and T. Ikoma
Niigata Univ., Japan; Shizuoka Institute of Science and Technology, Japan; Core Research for Evolutionary Sci. and Tech., Japan Sci. & Tech. Agency, Japan
- P-20 **Pressure Switching of Magnetic Properties in Cu(II) Complex with 3-Pyridyl-Substituted IminoNitroxide**
Yamaguchi, Koyo; Inoue, Katsuya; Nishihara, Sadafumi; Maryunina, Kseniya
Hiroshima University, Japan
- P-21 **Numerical Simulations of quantum state control and quantum algorithm by ESR quantum computing**
Satoru Yamamoto, Taiki Shibata, Kenji Sugisaki, Shigeaki Nakazawa, Kazunobu Sato, Kazuo Toyota, Daisuke Shiomi, and Takeji Takui
Osaka City University, Japan
- P-22 **Electronic structures of rhenium (III,IV) binuclear complexes with large ZFSs as studied by single-crystal ESR spectroscopy in the principal axis system and quantum chemical calculations**
Takeshi Yamane, Tomoki Nakagawa, Shunsuke Tatsumi, Kazunobu Sato, Kenji Sugisaki, Yuki Kanzaki, Kazuo Toyota, Daisuke Shiomi, Makoto Yoshizawa, Makoto Tadokoro, and Takeji Takui
Osaka City University, Japan; Tokyo University of Science, Japan
- P-23 **Syntheses and Electronic Structures of Benzothiazinophenothiazine Cationic Species**
Kohei Yoshida, Shuichi Suzuki, Masatoshi Kozaki, and Keiji Okada
Osaka City University, Japan