

**39th Symposium on
Chemical Kinetics and Dynamics
Book of Abstracts**

**第 39 回化学反応討論会
講演要旨集**

June 12 (Wed.) – 14 (Fri.), 2024

Shizuoka City Culture Hall

Hosted by
Local Organizing Committee of SCKD39

Co-hosted by
The Tokai Branch of the Chemical Society of Japan

Cooperated by
Shizuoka University
The Atomic Collision Society of Japan
The Society of Nano Science and Technology
Japan Society for Molecular Science
The Spectroscopical Society of Japan

Symposium Venue

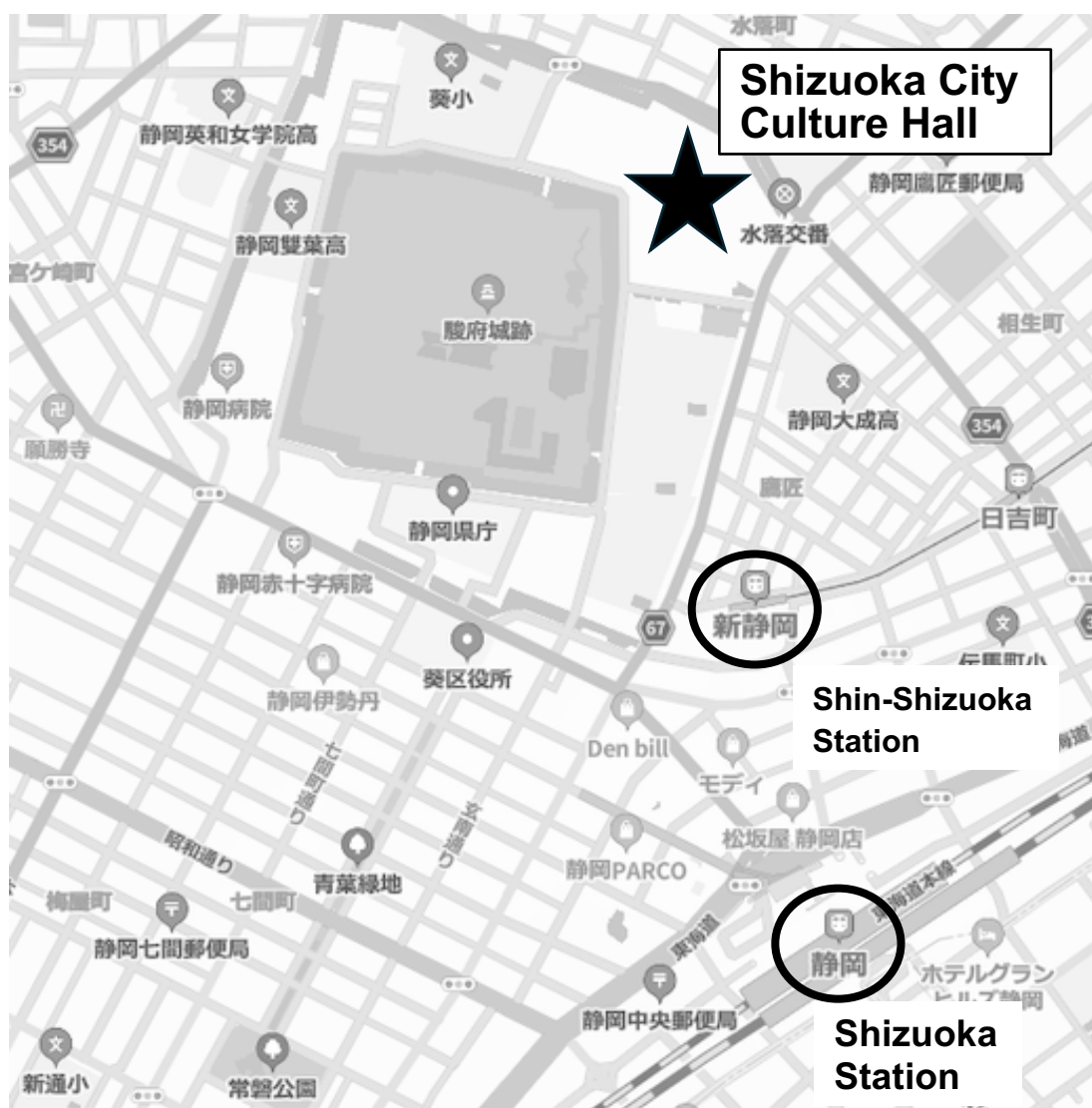
Shizuoka City Culture Hall

2-90 Sunpu-cho, Aoi-ku, Shizuoka (Tel.) 054-251-3751

Oral talks: Large Meeting Room (3F)

Posters & Exhibitions: Exhibition Room A (3F)

Registration: Lobby for Large Meeting Room (3F)



シンポジウム会場

静岡市民文化会館

静岡市葵区駿府町 2-90 (Tel.) 054-251-3751

口頭発表: 3 階 大会議室
ポスター発表&企業展示: 3 階 展示室 A
受付: 3 階 大会議室前ロビー



Timetable for “SCKD39” in Shizuoka

Day 1, June 12 (Wed) 9:45~17:55	Day 2, June 13 (Thu) 9:20~17:30	Day 3, June 14 (Fri) 9:20~15:10
9:45~9:50 Opening remarks		
9:50~10:40 Chair: YAMAZAKI, Masakazu 1A1 ONITSUKA, Yuuki 1A2 MINEMOTO, Shinichirou	9:20~10:35 Chair: ITAKURA, Ryuji 2A1 LÖTSTEDT, Erik 2A2 FUKAHORI, Shinichi 2A3 MATSUDA, Akitaka	9:20~10:25 Chair: OHSHIMA, Yasuhiro 3A1 VASA, Parinda IL5 YASUIKE, Tomokazu
10:40~10:55 Break	10:35~10:50 Break	10:25~10:40 Break & Group Photo
10:55~12:00 Chair: YAMAGUCHI, Shoichi IL1 KURAMOCHI, Hikaru 1A3 SAITA, Kenichiro	10:50~11:55 Chair: TAKAYANAGI, Toshiyuki IL3 SATO, Hirofumi 2A4 KUWAHATA, Kazuaki	10:40~12:10 Poster Presentation 3
12:00~13:45 Lunch Break	11:55~13:45 Lunch Break	12:10~13:40 Lunch Break
13:45~14:50 Chair: KOHGUCHI, Hiroshi IL2 SONG, Jae Kyu 1A4 SUZUKI, Toshinori	13:45~14:50 Chair: FUJII, Asuka IL4 KUO, Jer-Lai 2A5 TAKAYAMA, Tetsuyuki	13:40~14:45 Chair: FUSHITANI, Mizuho 3A2 ENDO, Tomoyuki IL6 KATSUKI, Hiroyuki
14:50~15:05 Break	14:50~15:05 Break	14:45~15:05 Poster Award Ceremony
15:05~16:35 Poster Presentation 1	15:05~16:35 Poster Presentation 2	15:05~15:10 Closing Remarks
16:40~17:55 Chair: HORIO, Takuya 1A5 MURAKAMI, Tatsuhiko 1A6 TSUGE, Masashi 1A7 SHIROTA, Tatsuro	16:40~17:30 Chair: YAMANOUCHI, Kaoru SL OHTA, Nobuhiro	

39th Symposium on Chemical Kinetics and Dynamics

Special Lecture: (50 min, including discussion)

SL “Effects of Nanosecond Pulsed Electric Field on Intracellular Dynamics and Function and Differences between Cancer and Normal Cells”

OHTA, Nobuhiro (*National Yang Ming Chiao Tung University*)

June 13, 16:40 – 17:30

Invited Lectures: (40 min, including discussion)

IL1 “Tracking non-equilibrium excited-state dynamics with ultrafast time-domain vibrational spectroscopy”

KURAMOCHI, Hikaru (*Institute for Molecular Science*)

June 12, 10:55 – 11:35

IL2 “Multiple-Layered Axial Heterostructure Nanorods for Multicolor Polariton Nanolaser”

SONG, Jae Kyu (*Kyung Hee University*)

June 12, 13:45 – 14:25

IL3 “Molecular-level chemical theories for reactions and self-assembly”

SATO, Hirofumi (*Kyoto University*)

June 13, 10:50 – 11:30

IL4 “Linking Potential Energy Surface with Experimental Observables”

KUO, Jer-Lai (*Institute of Atomic and Molecular Sciences*)

June 13, 13:45 – 14:25

IL5 “Control of chemical reactions by strong coupling between plasmon nanocavities and molecules”

YASUIKE, Tomokazu (*The Open University of Japan*)

June 14, 9:45 – 10:25

IL6 “Spectroscopic Approach for Vibrational Polaritonic Systems”

KATSUKI, Hiroyuki (*Nara Institute of Science and Technology*)

June 14, 14:05 – 14:45

Day 1: June 12 (Wed.)

9:50 – 10:40 Oral Presentation (Chair: YAMAZAKI, Masakazu)

1A1 Observation of a new type of bands in electron-atom Compton scattering spectra

ONITSUKA, Yuuki; KANAYA, Satoru; TAKAHASHI, Masahiko

(IMRAM, Tohoku University)

1A2 All-optical field-free molecular orientation

MINEMOTO, Shinichirou; HARA, Naoki; SAKAI, Hirofumi

(The University of Tokyo)

10:40 – 10:55 Coffee/Tea Break

10:55 – 12:00 Oral Presentation (Chair: YAMAGUCHI, Shoichi)

IL1 Tracking non-equilibrium excited-state dynamics with ultrafast time-domain vibrational spectroscopy

KURAMOCHI, Hikaru

(Institute for Molecular Science)

1A3 Ultrafast ring-opening of 1,3-cyclohexadiene: A theoretical study on the conrotatory and disrotatory pathways

SAITA, Kenichiro¹; SEKIKAWA, Taro²; TAKETSUGU, Tetsuya^{1,3}

(¹Faculty of Science, Hokkaido University; ²Faculty of Engineering, Hokkaido University;

³WPI-ICReDD, Hokkaido University)

12:00 – 13:45 Lunch Break

13:45 – 14:50 Oral Presentation (Chair: KOHGUCHI, Hiroshi)

IL2 Multiple-Layered Axial Heterostructure Nanorods for Multicolor Polariton Nanolaser

SONG, Jae Kyu

(Kyung Hee University)

1A4 Vibrational Motions in Ultrafast Electronic Relaxation of Pyrazine

KARASHIMA, Shutaro; HUMENIUK, Alexander; SUZUKI, Toshinori

(Kyoto University)

14:50 – 15:05 Coffee/Tea Break

15:05 – 16:35 Poster Presentations

16:40 – 17:55 Oral Presentation (Chair: HORIO, Takuya)

1A5 Ring-polymer MD simulation of dissociative photodetachment dynamics of $\text{CH}_3\text{O}^-(\text{H}_2\text{O}) + h\nu \rightarrow \text{CH}_3\text{O} + \text{H}_2\text{O} + \text{e}^-$ reaction

MURAKAMI, Tatsuhiko^{1,2}; TAKAYANAGI, Toshiyuki¹

(¹*Saitama University*; ²*Sophia University*)

1A6 Experimental investigations on the fate of carbon atoms on interstellar icy grains

TSUGE, Masashi; WATANABE, Naoki

(*Hokkaido University*)

1A7 Formation of H_3^+ on stainless steel surface by irradiation of near-infrared femtosecond laser pulses

SHIROTA, Tatsuro¹; Hoshina, Kennosuke¹; YAMANOUCHI, Kaoru²

(¹*Niigata University of Pharmacy and Medical and Life Sciences*; ²*I-ALFA, The University of Tokyo*)

Day 2: June 13 (Thu.)

9:20 – 10:35 Oral Presentation (Chair: ITAKURA, Ryuji)

2A1 Simulation of rovibronic laser-driven dynamics of H_2^+ by a multiconfiguration method

LÖTSTEDT, Erik; KATO, Tsuyoshi; YAMANOUCHI, Kaoru
(*The University of Tokyo*)

2A2 Angular dependence of ionization probability of N_2 in an intense laser field

FUKAHORI, Shinichi^{1,2}; HASEGAWA, Hirokazu^{1,2}
(¹*Graduate School of Arts and Sciences, The Univ. of Tokyo*; ²*Komaba Institute for Science, The Univ. of Tokyo*)

2A3 Asymmetric Coulomb explosion of methane in ω - 2ω intense laser fields studied by coincidence momentum imaging

HASEGAWA, Hiroka¹; MATSUDA, Akitaka¹; MORISHITA, Toru²; MADSEN, Lars Bojer³; JENSEN, Frank³; TOLSTIKHIN, Oleg I.⁴; HISHIKAWA, Akiyoshi¹
(¹*Nagoya University*; ²*University of Electro-Communications*; ³*Aarhus University*; ⁴*Moscow Institute of Physics and Technology*)

10:35 – 10:50 Coffee/Tea Break

10:50 – 11:55 Oral Presentation (Chair: TAKAYANAGI, Toshiyuki)

IL3 Molecular-level chemical theories for reactions and self-assembly

SATO, Hirofumi
(*Kyoto University*)

2A4 Nuclear quantum effects on phase transitions of high-pressure ice

KUWAHATA, Kazuaki^{1,2}; TACHIKAWA, Masanori²
(¹*Tokyo Institute of Technology*; ²*Yokohama City University*)

11:55 – 13:45 Lunch Break

13:45 – 14:50 Oral Presentation (Chair: FUJII, Asuka)

IL4 Linking Potential Energy Surface with Experimental Observables

KUO, Jer-Lai
(*Institute of Atomic and Molecular Sciences*)

2A5 Experimental and theoretical vibrational spectroscopy of aqueous electrolyte solution

TAKAYAMA, Tetsuyuki; SHIOTA, Harutaka; OTOSU, Takuhiro; YAMAGUCHI, Shoichi

(Saitama University)

14:50 – 15:05 Coffee/Tea Break

15:05 – 16:35 Poster Presentations

16:40 – 17:30 Oral Presentation (Chair: YAMANOUCHI, Kaoru)

SL Effects of Nanosecond Pulsed Electric Field on Intracellular Dynamics and Function and Differences between Cancer and Normal Cells

OHTA, Nobuhiro

(National Yang Ming Chiao Tung University)

Day 3: June 14 (Fri.)

9:20 – 10:25 Oral Presentation (Chair: OHSHIMA, Yasuhiro)

3A1 Emitters in proximity of plasmonic nano-cavity

UPADHYAY, Arjun¹; DAS, Bamadev²; KIM, DaiSik²; VASA, Parinda¹

(¹*Indian Institute of Technology Bombay*; ²*Ulsan National Institute of Science and Technology*)

IL5 Control of chemical reactions by strong coupling between plasmon nanocavities and molecules

YASUIKE, Tomokazu

(*The Open University of Japan*)

10:25 – 10:40 Coffee/Tea Break

10:40 – 12:10 Poster Presentations

12:10 – 13:40 Lunch Break

13:40 – 14:45 Oral Presentation (Chair: FUSHITANI, Mizuho)

3A2 Mixing times of water/water and water/ethanol solutions in free impinging liquid-sheet jets

ENDO, Tomoyuki; ITAKURA, Ryuji

(*Kansai Institute for Photon Science, QST*)

IL6 Spectroscopic approach for vibrational polaritonic systems

KATSUKI, Hiroyuki

(*Nara Institute of Science and Technology*)

14:45 – 15:05 Poster Award Ceremony

15:05 – 15:10 Closing Remarks

Poster Presentations (*Candidates for the Best Poster Prize)

Day 1: June 12 (Wed.) 15:05 – 16:35

1P01* Theoretical analysis of reaction mechanism on photoisomerization of benzene oxide

CUI, Shirui^{1,3}; NANBU, Shinkoh^{2,3} (¹*Graduate School of Science and Technology*; ²*Faculty of Science and Technology*; ³*Sophia University*)

1P02* Investigating the photo-relaxation mechanism of thymine employing nonadiabatic *ab initio* molecular dynamics simulations depending on electron-correlation energy

GOTO, Hinata; NANBU, Shinkoh (*Sophia University*)

1P03* The $\text{H}_3^+ + \text{C}_2\text{H}_4 \rightarrow \text{H}_2 + \text{C}_2\text{H}_5^+ / 2\text{H}_2 + \text{C}_2\text{H}_3^+$ Reaction: Dynamics Study on a Machine-Learning Full-Dimensional Potential Energy Surface

MURAKAMI, Tatsuhiko^{1, 2}; TAKAHASHI, Soma¹; KIKUMA, Yuya¹; OKADA, Kunihiro²; TAKAYANAGI, Toshiyuki¹ (¹*Saitama University*; ²*Sophia University*)

1P04* Machine learning analysis of post-transition state bifurcation dynamics involving proton transfer

KIKUMA, Yuya¹; MURAKAMI, Tatsuhiko^{1, 2}; TAKAYANAGI, Toshiyuki¹; IBUKI, Shunichi¹ (¹*Saitama University*; ²*Sophia University*)

1P05* Pressure dependence of the reaction rate coefficients for OH + alkenes in mid temperature range

FUSHIMI, Ryota; OGUCHI, Tatsuo (*Toyohashi University of Technology*)

1P06* Nonadiabatic *ab initio* chemical reaction dynamics on photoisomerization reaction of 3,5-dimethylisoxazole via the S_1 electronic state

KIMURA, Mizuki¹; NANBU, Shinkoh² (¹*Graduate School of Science and Technology*, *Sophia University*; ²*Faculty of Science and Technology*, *Sophia University*)

1P07* Deuteration effect on the temperature dependence of microscopic hydration of phenol cation

SAKAUE, Yu¹; MOTO, Masatoshi¹; ISHIKAWA, Haruki² (¹*Graduate School of Science*, *Kitasato University*; ²*School of Science*, *Kitasato University*)

- 1P08*** Development of the optical cavity for observation of gas-phase vibrational polaritons
OYAIDE, Yuma; FURUKAWA, Taiki; MITSUKAWA, Eiyu; MATSUMOTO, Yoshiteru (*Shizuoka University*)
- 1P09*** Development of the gas cell for observation of gas-phase vibrational polaritons
FURUKAWA, Taiki; OYAIDE, Yuma; MITSUKAWA, Eiyu; MATSUMOTO, Yoshiteru (*Shizuoka University*)
- 1P10*** Development of photo-modulated excitation method for analyzing photo-stationary states – study of p-Aminoazobenzene as an example –
INOUE, Rinka; FUKUDA, Kai; WADA, Akihide (*KOBE University*)
- 1P11*** Development of a highly-sensitive (e,2e) electron momentum spectroscopy apparatus and its application to inner-shell ionization processes
SATO, Takumi¹; KUROSU, Akane¹; HASEGAWA, Tatsushi¹; TAKAHASHI, Masahiko²; OHSHIMA, Yasuhiro¹; YAMAZAKI, Masakazu¹ (¹*Tokyo Institute of Technology*; ²*Tohoku University*)
- 1P12*** The analysis of $S_1 \leftarrow S_0$ electronic transitions in Fluorene by using high-resolution laser spectroscopy; perturbation analysis in 204 cm⁻¹ band
MINIK, Luke¹; KURODA, Shinji¹; KASAHARA, Shunji² (¹*Graduate School of Science, Kobe University*; ²*Molecular Photoscience Research Center, Kobe University*)
- 1P13*** Ultraviolet absorption spectra of purified saturated and unsaturated fatty acids and evaluation of impurities in chemical reagents
SAITO, Shota¹; NUMADATE, Naoki²; TERAOKA, Hidemasa¹; ENAMI, Shinichi²; KOBAYASHI, Hirokazu¹; HAMA, Tetsuya¹ (¹*The University of Tokyo*; ²*University of Tsukuba*)
- 1P14*** Measurements of Collision Energy Controlled Ion-Molecule Reactions with Pulsed Discharge and Photoionization
SAKUDA, Taro; MIYAKE, Hinata; NAKAYAMA, Keigo; YAMASAKI, Katsuyoshi; KOHGUCHI, Hiroshi (*Hiroshima University*)
- 1P15*** Localized surface plasmon resonances of size-selected gold nanoclusters soft-landed on an organic substrate
TOKITA, Miwa; INOUE, Tomoya; NAKAJIMA, Atsushi (*Keio University*)

- 1P16*** **Development of reflection high-energy electron diffraction and infrared reflection absorption spectroscopy (RHEED-IRAS) for characterization of water ice during vapor-deposition at 120 K**
SATO, Reo¹; TANIGUCHI, So¹; NUMADATE, Naoki²; HAMA, Tetsuya¹ (¹*The University of Tokyo*; ²*Tsukuba University*)
- 1P17*** **Reactivity of single-sized Ruthenium nanoclusters on organic substrates with nitrogen molecules**
SATO, Ryoichi; NISHIKAWA, Takashi; INOUE, Tomoya; NAKAJIMA, Atsushi (*Keio University*)
- 1P18*** **Investigations on the fabrication of monolithic perovskite solar cells aiming to improve their photovoltaic performance**
FUKAI, Takumi; MITSUKE, Koichiro (*Grad. Sch. Sci., Josai Univ.*)
- 1P19** **Photofragment imaging of oriented methyl halide (CH₃X, X=I/Br) for examining the direction of its transition dipole moment**
KAWAMATA, Hiroshi¹; CHE, Dock-Chil²; NAKAMURA, Masaaki³; KASAI, Toshio⁴ (¹*Hokkaido University*; ²*Osaka University*; ³*Tokyo Institute of Technology*; ⁴*National Sun Yat-sen University*)

Day 2: June 13 (Thu.) 15:05 – 16:35

- 2P01*** Interference effects on proton momentum distributions in H₂O
SAKAGUCHI, Sota; OHSHIMA, Yasuhiro; YAMAZAKI, Masakazu (*Tokyo Institute of Technology*)
- 2P02*** Real-space quantum dynamics simulation of multi-dimensional multi-particle systems on NISQ devices
TSUOKA, Kazuki¹; LÖTSTEDT, Erik¹; YAMANOUCHI, Kaoru^{1,2} (¹*School of Science, The Univ. of Tokyo*; ²*Institute for Attosecond Laser Facility, The Univ. of Tokyo*)
- 2P03*** Nonadiabatic dissociation dynamics of doubly photo-ionized OCS
KAMBARA, Ryuto¹; TSUTSUMI, Takuro¹; FURUYA, Kenji²; TAKETSUGU, Tetsuya¹ (¹*Hokkaido University*; ²*Kyushu University*)
- 2P04*** Nonadiabatic *ab initio* molecular dynamics for the photoisomerization pathway of 2E,4E-hexadiene on the electronically excited state, S₃
CHEN, Mingchen^{1,3}; NANBU, Shinkoh^{2,3} (¹*Graduate School of Science and Technology*; ²*Faculty of Science and Technology*; ³*Sophia University*)
- 2P05*** Asymmetric Coulombic explosion of vibrationally excited NO₂ in phase-locked two-color intense laser fields
ONO, Yuki¹; HASEGAWA, Hiroka¹; MATSUDA, Akitaka¹; HISHIKAWA, Akiyoshi^{1,2} (¹*Grad. Sc. Sci, Nagoya U*; ²*RCMS, Nagoya U*)
- 2P06*** The study of *trans*-stilbene S₁ ← S₀ transition by High-Resolution Laser Spectroscopy
SHIMIZU, Akira¹; KASAHARA, Shunji²; BABA, Masaaki²; NAKAYAMA, Naofumi³ (¹*Graduate School of Science, Kobe Univ*; ²*Molecular PhotoScience Research Center, Kobe-Univ*; ³*Conflex co.*)
- 2P07*** Kinetic study of the quenching mechanism of electronically excited Br(4p⁴5p; ⁴S_{3/2}, ²D_{3/2}, ²D_{5/2}) by collisions with He
KOIDE, Naoki; KAJIMOTO, Rika; OGINO, Yusuke; YAMASAKI, Katsuyoshi; KOHGUCHI, Hiroshi (*Hiroshima University*)
- 2P08*** Tunneling electron-ion coincidence momentum imaging of UV photoexcited CH₂I₂
YOSHINO, Takato¹; IKEYA, Daimu¹; MATSUDA, Akitaka¹; FUSHITANI, Mizuho¹; HISHIKAWA, Akiyoshi^{1,2} (¹*Department of Chemistry, Nagoya University*; ²*Research Center for Materials Science, Nagoya University*)

- 2P09*** **High-resolution Laser spectroscopy of S₁-S₀ electronic transition of carbazole**
OOIWAMOTO, Shota¹; UEDA, Shoya¹; KURODA, Shinji¹; KASAHARA, Shunji^{1,2}
 (¹*Graduate School of Science, Kobe University*; ²*Molecular Photoscience Research Center, Kobe University*)
- 2P10*** **Study on Hydrogen bonds of propargyl alcohol clusters by IR spectroscopy and quantum chemical calculations**
HAYANO, Yuki; MATSUMOTO, Yoshiteru (*Shizuoka University*)
- 2P11*** **Absorption cross section of dangling OH bonds in amorphous ice at 20 K**
HASEGAWA, Takeshi¹; YANAGISAWA, Hiroto¹; NAGASAWA, Takumi^{1,2}; NUMADATE, Naoki³; HAMA, Tetsuya¹ (¹*The University of Tokyo*; ²*Univ. Grenoble-Alpes*; ³*University of Tsukuba*)
- 2P12*** **Experimental determination of intermolecular vibrational wavefunctions in argon dimers by wave-packet imaging**
MURAI, Tomomi¹; YOSHIZAWA, Nanaho²; SATO, Urara²; MIZUSE, Kenta^{1,2}; OHSHIMA, Yasuhiro¹ (¹*Tokyo Institute of Technology*; ²*Kitasato University*)
- 2P13*** **Theoretical study on excited-state dynamics of salicylideneaniline in crystalline phase**
KOMURO, Hiroto¹; SAITA, Kenichiro²; TAKETSUGU, Tetsuya^{2,3} (¹*Grad. Sch. Chem. Sci. Eng., Hokkaido Univ.*; ²*Fac. Sci., Hokkaido Univ.*; ³*WPI-ICReDD, Hokkaido Univ.*)
- 2P14*** **Bayesian Optimization for Efficient Exploration of Highly Enantioselective Reaction by Dynamic Feature Selection**
 HASHIBA, Shunnichi¹; KITANO, Tomoyuki¹; TABATA, Koji¹; MATSUMURA, Yoshihiro¹; TERAYAMA, Kei²; KOMATSUZAKI, Tamiki¹ (¹*Hokkaido University*; ²*Yokohama City University*)
- 2P15*** **UV-Vis photodissociation processes of O₄⁺ studied by ion imaging experiments and theoretical calculations**
WATABE, Yu; KOSHIBA, Takumi; ITO, Yuri; KANNO, Manabu; OHSHIMO, Keijiro; MISAIZU, Fuminori (*Graduate School of Science, Tohoku Univ.*)
- 2P16*** **Light-induced rotational wave-packet dynamics of carbon monoxide by superconducting-type and trapped-ion-type quantum computers**
TOBINAGA, Kotomi¹; LÖTSTEDT, Erik¹; YAMANOUCHI, Kaoru^{1, 2} (¹*School of Science, The Univ. of Tokyo*; ²*Institute for Attosecond Laser Facility, The Univ. of Tokyo*)

- 2P17*** **Proton Transfer Reaction via Vehicle Mechanism: Rate Constants and Intermediate in Ion-Molecule Reactions of *p*-Aminobenzoic Acid and NH₃**
TSUNODA, Kengo; FUSE, Daiki; OHSHIMO, Keijiro; MISAIZU, Fuminori
(*Graduate School of Science, Tohoku University*)
- 2P18*** **Ab initio MD simulation of excited state dynamics of cyanine dye 1122C in solution**
MINEGISHI, Yusuke¹; SAITA, Kenichiro²; TSUTSUMI, Takuro²; TAKETSUGU, Tetsuya^{2,3} (¹*Grad. Sch. Chem. Sci. Eng., Hokkaido Univ.*; ²*Fac. Sci., Hokkaido Univ.*; ³*WPI-ICReDD, Hokkaido Univ.*)
- 2P19** **Study for Carbon K-Edge Spectra of Firefly Luciferin**
KUDO, Yuto¹; KUMAKI, Fumitoshi^{2,3}; NAGASAKA, Masanari^{2,4}; ADACHI, Jun-ichi^{2,3}; NOGUCHI, Yoshifumi⁵; KOGA, Nobuaki⁶; ITABASHI, Hideyuki¹; HIYAMA, Miyabi¹ (¹*Gunma University*; ²*SOKENDAI*; ³*KEK*; ⁴*IMS*; ⁵*Shizuoka University*; ⁶*Nagoya University*)

Day 3: June 14 (Fri.) 10:40 – 12:10

- 3P01 Theoretical and experimental OD-stretch vibrational spectroscopy of heavy water**
YAMAGUCHI, Shoichi; TAKAYAMA, Tetsuyuki; OTOSU, Takuhiro (*Saitama University*)
- 3P02 Symplectic integrator approach to propagation of ultrashort light pulses in dispersive media**
SAKO, Tokuei (*Nihon University*)
- 3P03 Shock tube study of the pressure dependence of neopentane pyrolysis**
YASUNAGA, Kenji; MORIYAMA, Hiroto; YAMANAKA, Nobutaka; YAMADA, Hiroshi (*National Defense Academy*)
- 3P04 (moved to 1P19)**
- 3P05 Observation of spatially oriented iodomethane state-selected by a Stark deflector**
KONDO, Ryo; NAKAMURA, Masaaki; OHSHIMA, Yasuhiro (*Tokyo Institute of Technology*)
- 3P06 Angular momentum projection analysis of superatomic orbitals formed in doped- and undoped-silver cluster anions**
SUZUKI, Yuta; MATSUMURA, Daiki; TERASAKI, Akira; HORIO, Takuya (*Kyushu University*)
- 3P07 Generation of sub-10 fs deep UV and extreme UV radiation for time-resolved photoelectron spectroscopy**
KARASHIMA, Shutaro; CHEN, Chih-Jen; SUZUKI, Toshinori (*Kyoto University*)
- 3P08 High-Resolution Laser Spectroscopy of A-X Transition of NO₂: Anomalies in the 16218 cm⁻¹ band**
KASAHARA, Shunji¹; TORAO, Sakura²; MINAMIDE, Honoka²; YOSHIKAWA, Takumi²; TADA, Kohei³ (¹*Molecular Photoscience Research Center, Kobe University*; ²*Faculty of Science, Kobe University*; ³*Graduate School of Engineering, Kyoto University*)
- 3P09 Electronic Relaxation of Aqueous Uracil and Thymine Studied by Time-Resolved Infrared Spectroscopy**
OBARA, Yuki; GHOSH, Srijon; HUMENIUK, Alexander; KAMIBASHIRA, Shota; SUZUKI, Toshinori (*Kyoto University*)

- 3P10 Comprehensive study on hydrogen abstraction reactions from hydrazine derivatives**
KANNO, Nozomu (*Meijo University*)
- 3P11 Multi-electron-ion coincidence spectroscopy of I 4d inner-shell photoionization of CH₃I and CH₂I₂**
FUSHITANI, Mizuho¹; HIKOSAKA, Yasumasa²; TASHIRO, Motomichi³; HISHIKAWA, Akiyoshi¹ (¹*Nagoya University*, ²*University of Toyama*, ³*Toyo University*)
- 3P12 (cancelled)**
- 3P13 Transient luminescence studies for excited-state kinetics of organic indoline dyes adsorbed on nanocrystalline TiO₂ films**
IE, Kanon; MITSUKE, Koichiro (*Grad. Sch. Sci., Josai Univ.*)
- 3P14 Photochemical reaction of anthracene with CCl₄ in alcohols**
WATANABE, Akihiro¹; NAKATANI, Takeomi² (¹*Kobe City College of Technology*; ²*Hokkaido University*)
- 3P15 Non-adiabatic excited-state time-dependent *GW* molecular dynamics for an accurate description of chemical reactions**
MANJANATH, Aaditya¹; SAHARA, Ryoji¹; OHNO, Kaoru²; KAWAZOE, Yoshiyuki³ (¹*National Institute for Materials Science*, ²*Yokohama National University*, ³*Tohoku University*)

第 39 回化学反応討論会実行委員会

SCKD39 Local Organizing Committee

委員長	河合 信之輔	(静岡大学理学部)
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第 39 回化学反応討論会要旨集 SCKD39 Book of Abstracts

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