

**27th Symposium on
Chemical Kinetics and Dynamics
Book of Abstracts**

**第 27 回化学反応討論会
講演要旨集**

June 8-10, 2011
Tokyo Institute of Technology Ookayama campus

Cooperated by

Chemical Society of Japan
Japan Society for Molecular Science
The Society for Atomic Collision Research
Tokodai 130

The symposium

[Location]

Ookayama Campus West Bldg. 9

- ◆ Oral presentation
Multi-purpose Digital Hall
- ◆ Poster presentation
Collaboration Room

Doors open at 11:00 on June 8,

8:45 on June 9, 10

Banquet

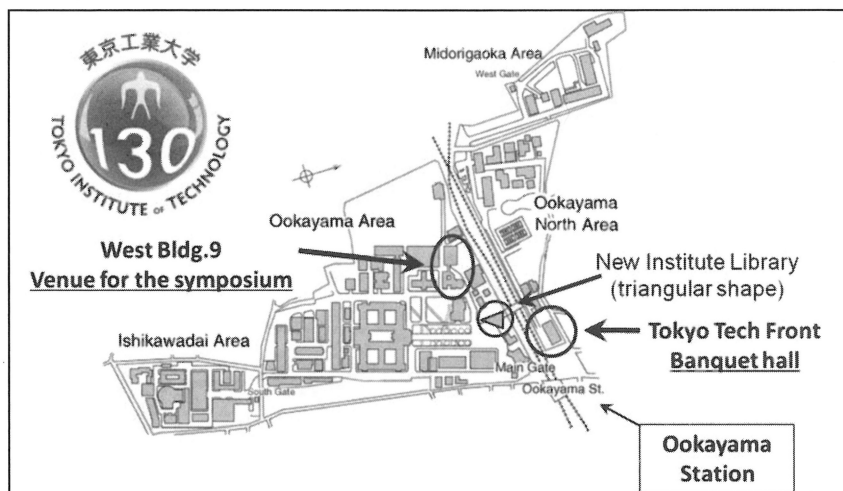
[Date & Time]

18:30 – 20:30 on June 9, 2011 (Thu)

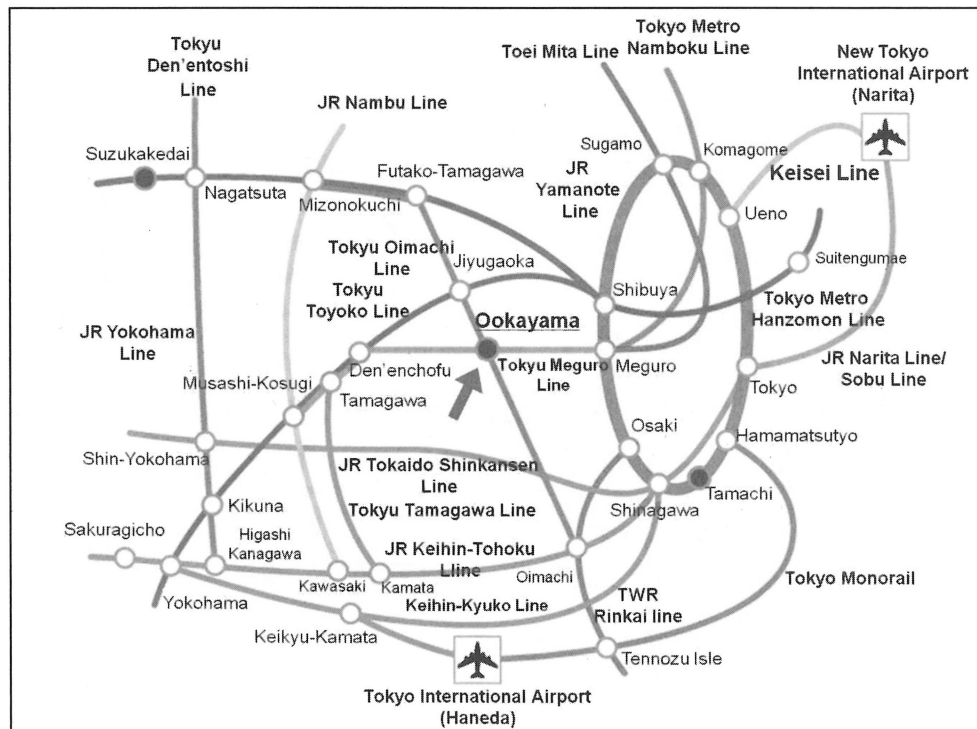
[Location]

Tokyo Tech Front (TTF)

(2-12-1 Ookayama, Meguro-ku, Tokyo
152-8550)



Access to the venue for the symposium (A one-minute walk from Ookayama Station)



討論会

[会場]

東京工業大学大岡山キャンパス西9号館

- ◆ 口頭; デジタル多目的ホール
- ◆ ポスター; コラボレーションルーム

[会場時刻]

6月8日(水) 11時

6月9日(木) 10日(金) 8時45分

懇親会

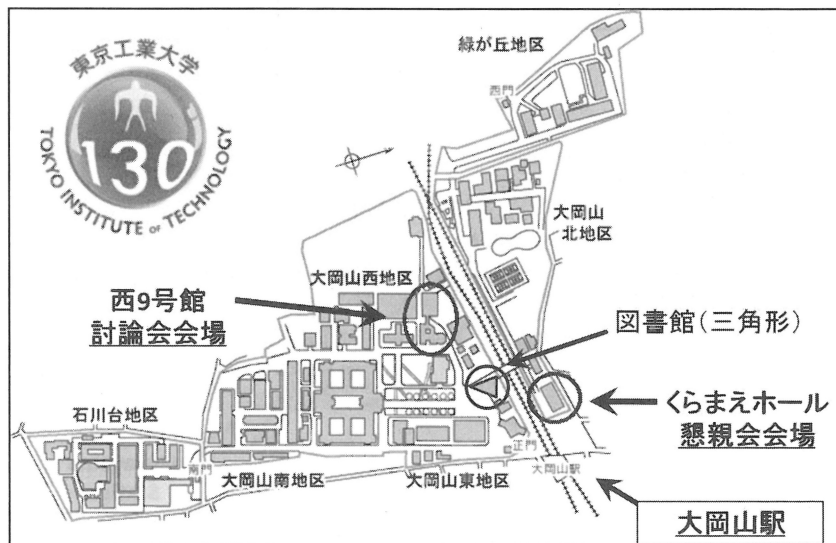
[日時]

2011年6月9日(木) 18:30~20:30

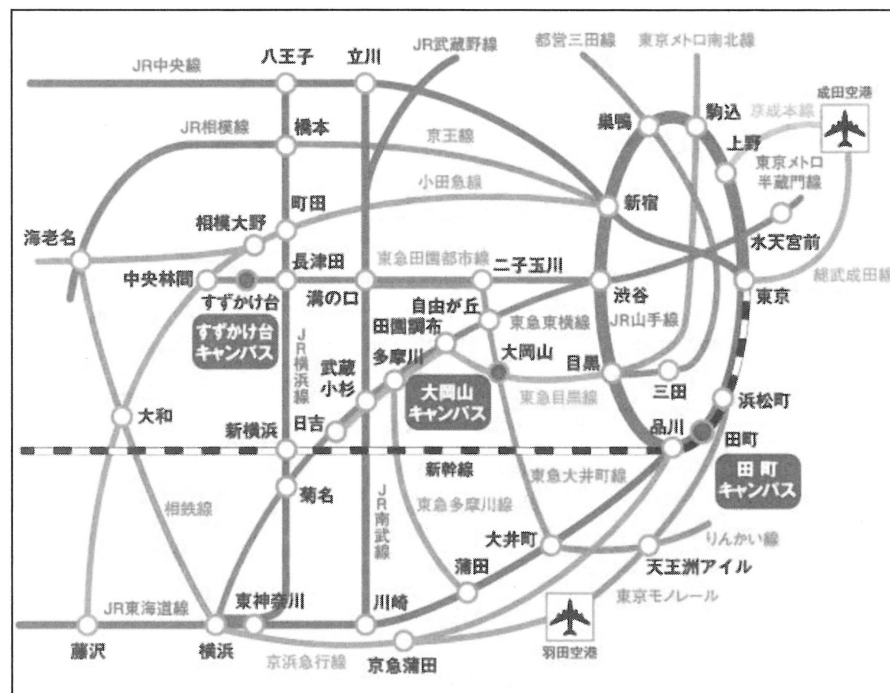
[会場]

東工大蔵前会館 くらまえホール

(〒152-8550 東京都目黒区大岡山 2-12-1)



討論会会場へのアクセス (大岡山駅より徒歩1分)



27th Symposium on Chemical Kinetics and Dynamics

Cooperation: Chemical Society of Japan

Japan Society for Molecular Science

The Society for Atomic Collision Research

Tokodai 130

Conference dates: June 8-10, 2011

Conference venue: Tokyo Institute of Technology Ookayama campus

Invited lecture: (50 min, including discussion)

S1 Chi-Kung Ni (Academia Sinica) June 8 16:45 - 17:35

S2 Huailiang Xu (Jilin University) June 9 10:45 - 11:35

S3 Kenji Honma (University of Hyogo) June 9 17:10 - 18:00

S4 Masahiko Takahashi (Tohoku Univ.) June 10 11:10 - 12:00

Oral presentation: (June 8-10) 1A1-3A6 (15 min talk with 10 min discussion)

International session: 1E1-2E4 (15 min talk with 10 min discussion)

Poster presentation: (June 8, 9) 1P1-2P43 (2 hours for each session)

Banquet: June 9, 18:30-20:30 at Tokyo Tech Front

Day 1 (June 8th)

13:15-14:30 (Chair Miyoshi, Akira)

1A1

Development of an NO₃ reactivity measurement system using LIF technique and nighttime atmospheric observations
(Division of Applied Chemistry, Tokyo Metropolitan University) °Nakashima, Yoshihiro; Takahashi, Yusuke; Kajii, Yoshizumi

1A2

Collision-induced near-IR emission of singlet oxygen in O₂/other-gas mixtures (Tokyo Tech.) °Hidemori, Takehiro; Mori, Takuma; Ida, Akira; Akai, Nobuyuki; Kawai, Akio; Shibuya, Kazuhiko

1A3

Humidity dependence of the reaction rate constant of OH with a series of alkanes
(Division of Applied Chemistry, Tokyo Metropolitan University) °Ida, Akira; Yoshihiro, Nakashima ; Yoshizumi, Kajii

14:30-14:45 Break

14:45-16:45 Poster (Day 1)

16:45-17:35 (Chair Kohguchi, Hiroshi)

S1

Energy transfer of highly vibrationally excited molecules and supercollisions
(Academia Sinica) Chi-Kung Ni

17:35-18:25 (Chair Ishida, Toshimasa)

1E1

A Systematic Computational Study on the Unimolecular Reactions of Alkylperoxy (RO₂), Hydroperoxyalkyl (QOOH) and Hydroperoxyalkylperoxy (O₂QOOH) Radicals
(Univ. Tokyo) °Miyoshi, Akira

1E2

Ab initio and DFT study of the excited-state double proton transfer in the 7-azaindole dimer
(Hokkaido University) Yu, Xue-fang; °Yamazaki, Shohei; Taketsugu, Tetsuya

Day 2 (June 9th)

9:15-10:30 (Chair Suzuki, Toshinori)

2E1

Electric quadrupole contribution to the nonresonant background of sum frequency generation at air/liquid interfaces
(RIKEN, Tohoku Univ.) °Yamaguchi, Shoichi; Shiratori, Kazuya; Morita, Akihiro; Tahara, Tahei

2E2

Electron Dynamics of Alkanethiol Self-assembled Monolayer on Au(111) Studied by Two-photon Photoemission Spectroscopy
(JST ERATO, Keio University) °Shibuta, Masahiro; Hirata, Naoyuki; Matsui, Ryo; Nagaoka, Shuhei; Eguchi, Toyoaki; Nakajima, Atsushi

2E3

Two-color dissociative ionization of N₂ by EUV-FEL and femto-second near IR laser pulses
(The University of Tokyo,RIKEN XFEL KEK,Keio University,JAEA,RIKEN,JASRI) °Iwasaki, Atsushi; Sato, Takahiro; Owada, Shigeki; Okino, Tomoya; Yamanouchi, Kaoru; Yagishita, Akira; Kannari, Fumihiko; Yamakawa, Koichi; Midorikawa, Katsumi; Yabashi, Makina; Nagasono, Mitsuru; Tono, Kensuke; Togashi, Tadashi; Ishikawa, Tetsuya

10:30-10:45 Break

10:45-11:35 (Chair Ohoyama, Hiroshi)

S2

Ultrafast delocalization of protons in hydrocarbon molecules and its manipulation in intense laser fields
(Jilin University) Huailiang Xu

11:35-12:00 (Chair Ohoyama, Hiroshi)

2E4

Visualizing correlated dynamics of hydrogen atoms migrating in acetylene dication by time-resolved four-body Coulomb explosion imaging (Nagoya University, Institute for Molecular Science, RIKEN) °Matsuda, Akitaka; Fushitani, Mizuho; Takahashi, Eiji; Hishikawa, Akiyoshi

12:00-13:15 Lunch

13:15-15:15 Poster (Day 2)

15:15-16:05 (Chair Tsuji, Masaharu)

2A1

Hydrogenation reaction of boron nitride fragment cations produced by laser ablation of a BN substrate
(RIKEN Advanced Science Institute, RIKEN Nishina Center for Accelerator-Based Science) °Kobayashi, Tohru; Matsuo, Yukari

2A2

Photoinduced dynamics in a conducting charge transfer complex over a range from 10 fs to 100 ps

(Tokyo Institute of Technology, CREST/JST, Kyoto University, Meijo University) °Onda, Ken; Ogihara, Sho; Ishikawa, Tadahiko; Okimoto, Yoichi; Koshihara, Shinya; Shao, Xiangfeng; Nakano, Yoshiaki; Hiramatsu, Takaaki; Yamochi, Hideki; Saito, Gunzi

16:05-16:20 Break

16:20-17:10 (Chair Hashimoto, Kenro)

2A3

Quantum proton transfer in hydrated sulfuric acid clusters from path-integral molecular dynamics simulations

(Saitama University, Japan Atomic Energy Agency, Yokohama-City University) °Sugawara, Shuichi; Yoshikawa, Takehiro; Takayanagi, Toshiyuki; Shiga, Motoyuki; Tachikawa, Masanori

2A4

Hund's multiplicity rule and conjugate Fermi hole in He-like atomic systems (Nihon Univ., ISAS) °Sako, Tokuei; Ichimura, Atsushi

17:10-18:00 (Chair Yamasaki, Katsuyoshi)

S3

Reaction dynamics of gas-phase transition metal atoms (University of Hyogo) Kenji Honma

18:30-20:30 Banquet

Day 3 (June 10th)

9:15-10:05 (Chair Ishikawa,Haruki)

3A1

Water Adsorption, Solvation and Deliquescence of Alkali Halide Thin Films on SiO₂ Studied by Ambient-Pressure XPS
(Osaka University, Lawrence Berkeley National Lab., UC Berkeley) °Arima, Kenta; Bluhm, Hendrik; Salmeron, Miquel

3A2

Temperature Dependence for Proton Transfer of Multiply-Charged Protein and Peptide Ions
(Yokohama City University) °Nonose, Shinji; Yamashita, Kazuki; Arakawa, Ryota; Sudo, Ayako; Machida, Keiji

10:05-10:55 (Chair Nakajima,Atsushi)

3A3

Photodissociation dynamics of C₆₀ and C₇₀ studied by velocity map imaging
(Inst. Mol. Sci.,SOKENDAI) °Katayanagi, Hideki; Mitsuke, Koichiro

3A4

Why chemical bond scission can be controlled well on the self-assembled monolayer surface?
(Hiroshima University, RIKEN SPring-8) °Tanaka, Kenichiro; Ogawa, Mai; Wada, Shin-ichi; Sekitani, Tetsuji; Yoshida, Hiroaki; Hiraya, Atsunari

10:55-11:10 Break

11:10-12:00 (Chair Nanbu,Shinkoh)

S4

Electron momentum spectroscopy: a useful tool to study the electronic structure of matter and dynamics in the (e,2e) reaction at large momentum transfer
(Tohoku Univ.) Masahiko Takahashi,

12:00-12:50 (Chair Furuya,Kenji)

3A5

Doubly excited states of H₂ as studied by measuring differential cross sections for the dissociative double excitations
(Tokyo Institute of Technology) °Ishikawa, Lisa; Odagiri, Takeshi; Yachi, Kazufumi; Ohno, Naruhito; Tsuchida, Toshinori; Kitajima, Masashi; Kouchi, Noriyuki

3A6

Theory and numerical method for an electron scattering by two-center Coulomb potentials
(University of Electro-Communications) °Miyagi, Haruhide; Morishita, Toru; Watanabe, Shinichi

Poster

* Candidate for the Best Poster Prize.

Day 1 (June 8th 14:45 - 16:45)

- 1P1*** Single-molecule dynamics of perylene bisimide dyes in cyclodextrin thin films (Shizuoka University) °Takahashi, Ryoya; Fukui, Hiroki; Mitsui, Masaaki
- 1P2*** Ultrahigh-resolution Laser Spectroscopy of the B ²E'←X ²A₂' 0-0 Band of Nitrate Radical (Kobe University, Kyoto University, Hiroshima City University, The Graduate University for Advanced Studies) °Tada, Kohei; Kasahara, Shunji; Baba, Masaaki; Ishiwata, Takashi; Hirota, Eizi
- 1P3*** Super-efficient electronic energy transfer in composite organic nanoparticles (Shizuoka University) °Kawano, Yuya; Mitsui, Masaaki
- 1P4*** Soft X-ray emission spectra of carbonate ions in aqueous solution of alkali carbonates (University of Hyogo, Riken/SPring-8, Department of Chemistry Hiroshima University, ISSP University of Tokyo) °Yoshida, Ayaka; Arai, Hidemi; Horikawa, Yuka; Tokushima, Takashi; Takahashi, Osamu; Oura, Masaki; Gejo, Tatsuo; Honma, Kenji; Shin, Siik
- 1P5*** Production mechanism of ZnO thin films from activated water and dimethylzinc molecules (Shizuoka University, Nagaoka University of Technology, Tokyo Electron) °Ishikawa, Takuma; Nishihara, Yushin; Umemoto, Hironobu; Yasui, Kanji; Nishiyama, Hiroshi; Inoue, Yasunobu; Ushijima, Mitsuru
- 1P6** Reduction of DMPO-OH adduct by thmidine (Tokyo Metropolitan Industrial Technology Research Institute) °Nakagawa, Seiko
- 1P7*** Photodissociation spectroscopy of hydrated metal ions in the temperature-variable ion trap (Kobe University) °Nakano, Takumi; Ishikawa, Haruki; Eguchi, Toru; Shibukawa, Takuya; Fuke, Kiyokazu
- 1P8*** Collision-Induced Harpooning Observed in the Excimer Formation in the Oriented NF₃ + Oriented Kr* (³P₂, M_J = 2) Reaction (Osaka University) °Matsuura, Yusuke; Ohoyama, Hiroshi
- 1P9*** Development of Coincidence Spectrometer for Study of Collision Dynamics Between High-Energy Electron and Molecule (Ehime University, KEK PF) °Ito, Toyonobu; Inoue, Shinpei; Tahara, Masashi; Nakazato, Yuki; Kubota, Hiroyuki; Kakiuchi, Takuhiro; Mase, Kazuhiko; Nagaoka, Shin-ichi

- 1P10**
 Ultrahigh-resolution laser spectroscopy of naphthalene and Cl-naphthalenes
 (Kobe University) °Kasahara, Shunji; Kanzawa, Kenichirou; Tada, Kohei
- 1P11***
 Two-Photon Photoemission Spectroscopy for Rubrene/HOPG
 (Osaka University, Seoul National University) °Ueba, Takahiro; Terawaki, Rie;
 Park, Juyeon; Yamada, Takashi; Kato, Hiroyuki S.; Munakata, Toshiaki
- 1P12***
 Ps to μ s dynamics of organometallic compounds using time-resolved infrared
 vibrational spectroscopy
 (Tokyo Institute of Technology, PRESTO/JST) °Fukazawa, Naoto; Matsubara,
 Yoshitaka; Murata, Kei; Inagaki, Akiko; Akita, Munetaka; Onda, Ken
- 1P13***
 The multiply excited states of molecules as probed by detection of metastable
 H(2s) atoms produced in the photodissociation.
 (Tokyo Institute of Technology, KEK, AIST) °Kumagai, Yoshiaki; Odagiri,
 Takeshi; Tanabe, Takehiko; Nakano, Motoyoshi; Suzuki, H, Isao; Kouchi,
 Noriyuki
- 1P14**
 Photo-induced Structural Changes on A Surface of Organic Single Crystals
 Observed by Vibrational Sum Frequency Generation
 (Tokyo Institute of Technology, JST-CREST, RIKEN, JST-PRESTO)
 °Fukumoto, Keiki; Fukazawa, Naoto; Ishikawa, Tadahiko; Koshihara, Shin-ya;
 Yamamoto, Hiroshi; Kato, Reizo; Onda, Ken
- 1P15***
 Angle-resolved micro-spot two-photon photoemission spectroscopy for
 unoccupied electronic states of phthalocyanine film
 (Graduate School of Science Osaka Univ.) °Yamamoto, Ryota; Minami,
 Takafumi; Yamada, Takashi; Kato, Hiroyuki; Munakata, Toshiaki
- 1P16***
 Solvated structures of pyrrole-acetonitrile binary clusters studied by infrared
 cavity ringdown spectroscopy
 (University of Hyogo) °Iwamoto, Jun-ichi; Matsumoto, Yoshiteru; Honma,
 Kenji
- 1P17**
 Development of an ion imaging apparatus for photodissociation experiments of
 mass-selected ions
 (Tohoku University, University of Electro-Communications) °Yamakita,
 Yoshihiro; Hoshino, Hiroshi; Suzuki, Yoshitomo; Misaizu, Fuminori
- 1P18***
 Dissociation processes of core-excited fluorobenzenes
 (Hiroshima University, Hiroshima Synchrotron Radiation Center) °Sekiguchi,
 Raita; Yoshida, Hiroaki; Hiraya, Atsunari
- 1P19**
 Automated Exploration of Fragmentation Pathways for Designing Synthetic
 Reaction Routes.
 (Toyota Physical & Chemical Research Institute, Tohoku University Graduate
 School of Science) °Ohno, Koichi; Osada, Yuto; Iwamoto, Takeaki

- 1P20**
A QM/MM study on reactions of the axial ligand exchange in CooA protein (FIFC Kyoto University, Okazaki Institute for Integrative Bioscience NINS) °Ishida, Toshimasa; Aono, Shigetoshi
- 1P21**
Cross-section studies of iodine monoxide by cavity ring-down spectroscopy (Teikyo University of Science, University of Bristol) °Wada, Ryuichi; Orr-Ewing, Andrew
- 1P22***
Theoretical Calculations of Vibrational Relaxation in O₂+N₂ System (Hiroshima University) °Okubo, Yasuhiro; Takahashi, Osamu; Yamasaki, Katsuyoshi
- 1P23**
Nonadiabatic ab initio dynamics of rhodopsin and isorhodopsin: a QM/MM trajectory surface hopping (TSH) approach based on the Zhu-Nakamura theory (Kyoto University, Sophia University) °Chung, Wilfredo Credo; Nanbu, Shinkoh; Ishida, Toshimasa
- 1P24***
Structural change of (ZnO)_n⁺ ions with cluster size studied by ion mobility spectrometry (Tohoku University) °Komatsu, Kunihiko; Koyasu, Kiichirou; Misaizu, Fuminori
- 1P25***
Generation for aligned molecular beam of metastable CO(a) and stereodynamics in the reaction of CO(a) + OH reaction (Osaka University, IAMS) °Nakamura, Masaaki; Che, Dock-Chil; Tsai, Po-Yu; Lin, King-Chuen; Kasai, Toshio
- 1P26***
Development of a hexapole focuser for controlling molecular orientation (The University of Tokyo, KEK, National Taiwan University) °Mun, Jehoi; Suzuki, Midai; Yamashiro, Ryo; Hoshino, Tetsuro; Mizuno, Tomoya; Minemoto, Shinichirou; Kasai, Toshio; Yagishita, Akira; Sakai, Hirofumi
- 1P27**
Single-shot EUV-UV time-resolved photoelectron spectroscopy using FEL: Non-resonant two-color two-photon ionization of He (Nagoya Univ., Niigata Univ., IMS, RIKEN XFEL, JASRI) Fushitani, Mizuho; Hikosaka, Yasumasa; Matsuda, Akitaka; Shigemasa, Eiji; Nagasono, Mitsuru; Sato, Takahiro; Tono, Kensuke; Togashi, Tadashi; Ohashi, Haruhiko; Senba, Yasunori; Yabashi, Makina; Ishikawa, Tetsuya; °Hishikawa, Akiyoshi
- 1P28***
Elucidation of three-body dissociation mechanism of nitromethane by UV absorption (Hiroshima University) °Kohge, Yasunori; Hanada, Takuya; Sumida, Masataka; Yamasaki, Katsuyoshi; Kohguchi, Hiroshi
- 1P29**
Iodine emission from the heterogenous reactions of gaseous nitrogen dioxide with aqueous iodide (Kyoto University, Tokyo Gakugei University; Hiroshima City University; Reserch Institute for Humanity and Nature) Yabushita, Akihiro; °Nakano, Yukio; Sadamori, Kengo; Ishiwata, Takashi; Kawasaki, Masahiro

- 1P30**
Time resolved cavity ring down spectroscopic study of the reaction of NO₃ with NO₂
(Tokyo Gakugei University, Hiroshima City University) °Nakano, Yukio; Sadamori, Kengo; Ishiwata, Takashi
- 1P31**
Relaxation of O₂ (¹Δ_g) in room temperature ionic liquids
(Tokyo Tech.) Monji, Tomoo; Hidemori, Takeshi; Schamel, Debora; Akai, Nobuyuki; °Kawai, Akio; Shibuya, Kazuhiko
- 1P32***
Measurements of Iodine Compounds Emission via Heterogeneous Reaction on the Water Surface
(the University of Tokyo) °Sakamoto, Yosuke; Tonokura, Kenichi
- 1P33**
Theoretical Study of Absorption and Fluorescence Spectra of Firefly-Luciferin
(Nagoya University, The University of Tokyo) °Hiyama, Miyabi; Akiyama, Hidefumi; Koga, Nobuaki
- 1P34**
Photoinduced tautomerization of cytosine isolated in Ne matrix
(Tokyo Tech.) °Akai, Nobuyuki; Kawai, Akio; Shibuya, Kazuhiko
- 1P35***
New method for the investigation of biogenic olefin and ozone reactions
(Tokyo Metropolitan University) °Tsurumaru, Hiroshi; Nakashima, Yoshihiro; Kato Shungo; Tase, Hiroshi; Kajii, Yoshizumi
- 1P36**
Development of a velocity variable state-selected O₂ beam
(National Institute for Materials Science) °Kurahashi, Mitsunori; Yamauchi, Yasushi
- 1P37***
Interaction between bending and stretching vibrational modes (2)
(Hiroshima City University) °Toshimoto, Teppei; Baba, Yuki; Fukushima, Masaru; Ishiwata, Takashi
- 1P38***
Reaction rate constants of the first and second steps in photo-polymerization of acrylates as studied by pulsed EPR spectroscopy
(Tokyo Institute of Technology, The Furukawa Electric CO., LTD.) °Sugiyama, Atsushi; Iwama, Masaki; Miyake, Yusuke; Akai, Nobuyuki; Kawai, Akio; Shibuya, Kazuhiko; Nakajima, Yasuo; Nishiguchi, Masaki
- 1P39***
Theoretical study of growing mechanism of (5,5) chiral nanotubes and fullerenes
(Tokyo Metropolitan University) Hashimoto, Kenro; °Takeshi, Omachi; Yohji, Achiba
- 1P40**
Concentration dependence analysis of x-ray emission spectra for aqueous solution
(RIKEN/SPring-8, The Institute for Solid State Physics the University of Tokyo) °Tokushima Takashi; Horikawa Yuka; Arai Hidemi; Shin Shik

1P41*

Geometry and hydrogen reactivity of Ti-aniline complexes covalently anchored on organic monolayer surfaces

(Keio University, JST-ERATO) °Noguchi, Yuji; Shikishima, Masaya; Horiuchi, Kazuki; Iwasa, Takeshi; Nagaoka, Shuhei; Nakajima, Atsushi

1P42*

Theoretical study of fluorescence process of green fluorescence protein

(Sophia University) °Kita, Yoshihiro; Nanbu, Shinkoh

Day 2 (June 9th 13:15 - 15:15)

- 2P1**
Photoelectron Imaging Spectroscopy of $S_1(1B_{2u} \pi\pi^*)$ Benzene via 6^1I^n ($n=0-3$) Levels
(RIKEN, Kyoto University) Niu, Dongmei; °Ogi, Yoshihiro; Suzuki, Yoshi-Ichi; Suzuki, Toshinori
- 2P2**
Isomerization dynamics of linear SiCN and SiNC after the $A^2A''-X^2\Pi$ fluorescence
(Niigata University; Sophia University) °Tokue, Ikuo; Nanbu, Shinkoh
- 2P3***
Excited state dynamics in starburst-type π -conjugated molecules studied using single molecule fluorescence spectroscopy
(Shizuoka University) °Sugimura, Yoshiyuki; Mitsui, Masaaki
- 2P4**
Landau levels of NO molecules
(Doshisha Univ.) °Kimura, Yasuyuki; Kasuya, Tosiro; Wada, Motoi
- 2P5**
Ionization potential and hydrogen atom localized site of $[(CH_3)_2NH]_m(NH_3)_n$ -H hypervalent radical clusters
(Fukuoka University, Osaka Prefecture University, Kobe University) °Yamada, Yuj; FUjihara, Akimasa; Ishikawa, Haruki; Fuke, Kiyokazu
- 2P6***
Fourier-transform rotation spectroscopy of acetonitrile in terahertz domain
(The University of Tokyo) °Ono, Keisuke; Iwasaki, Atushi; Hatanaka, Koji; Yamanouchi, Kaoru
- 2P7***
Production of PH_3 from red phosphorus and atomic hydrogen
(Shizuoka University, JST CREST) °Nishihira, Yushin; Ishikawa, Takuma; Umemoto, Hironobu
- 2P8**
Isotope-selective ionization using laser molecular alignment
(JAEA, U Tokyo, IMS) °Akagi, Hiroshi; Kasajima, Tatsuya; Kumada, Takayuki; Itakura, Ryuji; Yokoyama, Atsushi; Hasegawa, Hirokazu; Ohshima, Yasuhiro
- 2P9**
Time-resolved vibrational CARS for measurement of rotational state distribution
(Quantum Beam Science Directorate, Japan Atomic Energy Agency) °Kasajima, Tatsuya; Tsubouchi, Masaaki; Matsuoka, Leo; Yokoyama, Keiichi
- 2P10**
Total cross section for electron scattering from N_2 in the cold electron collision measured with threshold photoelectron source
(Tokyo Institute of Technology, Sophia University, KEK-PF) °Kitajima, Masashi; Kishino, Takaya; Kurokawa, Manabu; Odagiri, Takeshi; Kato, Hidetoshi; Hoshino, Masamitsu; Tanaka, Hiroshi; Ito, Kenji
- 2P11***
Reaction Mechanism for low temperature oxidation of alcohol in combustion
(ToyoHashi Univ. of Tech.) °Ito, Motoki; Oguchi, Tatsuo
- 2P12***
Quantum dynamics calculations of $FH + F$ and $FMu + F$ reactions.
(Saitama University) °Tanaka, Tomokazu; Takayanagi, Toshiyuki

- 2P13***
Isomer-separated oxidation reactions of carbon cluster ions
(Tohoku University) °Ohtaki, Tomohiro; Koyasu, Kiichirou; Misaizu, Fuminori
- 2P14**
Reactions of CF_3^+ with CO and N_2 : Guided ion beam experiment and global reaction route mapping calculation
(University of Utah, Kyushu University) °Kenji, Furuya; Armentrout, Peter B.
- 2P15**
Effect of fluoro substitution on the fragmentation of the K-shell excited/ionized pyridine
(Hiroshima Univ.) Sakai, Masamichi; °Okada, Kazumasa
- 2P16**
Study of secondary aerosol formation from the atmospheric oxidation of amines using time-of-flight aerosol mass spectrometer
(NIES, Mitsubishi Heavy Industries Ltd.) °Sato, Kei; Imamura, Takashi; Horioe, Kouji; Fujii, Shunji; Nagayasu, Hiromitsu; Inui, Masayuki; Kamijo, Takashi
- 2P17***
Theoretical study on the mechanism of double proton transfer and isotope effect in porphycene by path-integral molecular dynamics simulations
(Saitama University, Japan Atomic Energy Agency, Yokohama-City University) °Yoshikawa, Takehiro; Sugawara, Shuichi; Takayanagi, Toshiyuki; Shiga, Motoyuki; Tachikawa, Masanori
- 2P18***
Ultraviolet photodissociation of $\text{Mg}^+\text{-Ar}$: An ion imaging study with a reflectron mass spectrometer
(Tohoku University, University of Electro-Communications) °Hoshino, Hiroshi; Yamakita, Yoshihiro; Suzuki, Yoshitomo; Misaizu, Fuminori
- 2P19***
Ultrafast dynamics of the photoinduced phase transition process studied by 10 fs pump-probe spectroscopy
(Tokyo Institute of Technology, CREST/JST, Kyoto University, Meijo University) °Matsubara, Yoshitaka; Ogihara, Sho; Fukaya, Ryo; Ishikawa, Tadahiko; Okimoto, Yoichi; Koshihara, Shin-ya; Shao, Xiangfeng; Nakano, Yoshiaki; Hiramatsu, Takaaki; Yamochi, Hideki; Saito, Gunzi; Onda, Ken
- 2P20**
Thermochemistry of Tungsten Carbonyls substituted by Ethene: Isomerism of $\text{M}(\text{CO})_4(\text{C}_2\text{H}_4)_2$ (M = Cr, Mo, W)
(Kyoto Institute of Technology) °Ishikawa, Yo-ichi; Okada, Arifumi
- 2P21**
Dissociation and recapture dynamics in three atomic molecules following O 1s inner-shell excitation/ionization
(University of Hyogo, JASRI, UVSOR, Niigata University) Ikegami, Takesi; °Gejo, Tatsuo; Ogura, Aya; Kubota, Koji; Honma, Kenji; Tamemori, Yusuke; Shigemasa, Eiji; Hikosaka, Yasumasa
- 2P22**
Comparison of dissociation dynamics of triply ionized fluoromethane molecules
(Hiroshima University, Hiroshima Synchrotron Radiation Center) °Yoshida, Hiroaki; Kimura, Yuuki; Miyagami, Itsuki; Kawakami, Yasunori; Tamura, Yuuhei; Hiraya, Atsunari
- 2P23**
Velocity map imaging for EUV photoionization of sumanene and coronene
(Inst. Molec. Sci., Soukandai GUAS) °Koichiro, Mitsuke; Katayanagi, Hideki

- 2P24***
A systematic study of the influence of the slab thickness on structure and energy of the Pt(111) surface: A quantum-mechanical simulation of CO adsorption (Kyoto Institute of Technology) °Sato, Masaki; Okada, Arifumi; Ishikawa, Yo-ichi
- 2P25**
Density functional theory study on carbon dioxide absorption into aqueous amine solutions using a continuum solvation model (Research Institute of Innovative Technology for the Earth, Nippon Steel Corporation) °Yamada, Hidetaka; Matsuzaki, Yoichi; Higashii, Takayuki; Kazama, Shingo
- 2P26***
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(Genesis Res. Inst., Inc., Tokyo Univ. Sci., Toyota Tech, Kyushu Univ.) °Ito, Tomonori; Ganpathi, Naresh Patwari; Egashira, Kazuhiro; Tsukiyama, Koichi; Terasaki, Akira
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