Poster Session

P-1 **Observation of multiphoton transitions in laser-assisted electron scattering in a femtosecond intense laser field**

Kakuta Ishida, Reika Kanya, Yuya Morimoto, and Kaoru Yamanouchi (*Department of Chemistry, School of Science, The University of Tokyo*)

P-2 **Generation of full-coherent EUV free-electron laser seeded by high-order harmonics of femtosecond laser pulses**

Shigeki Owada[1, 2], S. Ogami[1], A. Iwasaki[1, 2], T. Sato[2], T. Togashi[3], E. J. Takahashi[4], K. Midorikawa[4], M. Aoyama[5], K. Yamakawa[5], S. Mataubara[2, 3], K. Ogawa[3], Y. Okayasu[3], H. Tomizawa[2, 3], T. Watanabe[3], M. Nagasono[2], M. Yabashi[2], T. Ishikawa[2], and K. Yamanouchi[1, 2] ([1]*Department of Chemistry, School of Science, The University of Tokyo,* [2]*RIKEN Harima Institute, RIKEN SPring-8 Center,* [3]*Spring-8/Japan Synchrotron Radiation Research Institute (JASRI),* [4]*RIKEN Advanced Science Institute,* [5]*Kansai Photon Science Institute (Kizu), Japan Atomic Energy Agency*)

P-3 **Harmonic Generation from Relativistic Plasma Surfaces in Ultra-Steep Plasma Density Gradients**

Jana Bierbach[1,2], C. Rödel[1,2], D. an der Brügge[3], M. Yeung[4], B. Dromey[4], S. Fuchs[1,2], T. Hahn[5], A. Galestian Pour[1], S. Herzer[1], S. Kuschel[1], O. Jäckel[1,2], M. C. Kaluza[1,2], G. Pretzler[5], A. Pukhov[3], M. Zepf[1,4], G. G. Paulus[1,2] ([1] *Institute of Optics and Quantum Electronics, Friedrich Schiller University Jena, Germany,* [2] *Helmholtz Institute Jena,* [3] *Institute for Theoretical Physics, Heinrich Heine University Düsseldorf,* [4] *Centre of Plasma Physics, Queen's University Belfast,* [5] *Institute for Laser- and Plasmaphysics, Heinrich Heine University Düsseldorf*)

P-4 **Spatial properties of Doppler harmonics generated on plasma mirrors**

Henri Vincenti, F. Quéré (*CEA, IRAMIS, Service des Photons Atomes et Molécules*)

P-5 **Time-evolution of electron density in plasma measured by high-order harmonic generation**

Hua Yang,[1] Peng Liu,[1,*] Haihe Lu,[1] Xiaochun Ge,1 Ruxin Li,[1,2] and Zhizhan Xu[1] ([1]*State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences,* [2]*ruxinli*)

P-6 **Two-color High Harmonic Generation Assisted by a replaced Gas Medium**

Seung Beom Park, Himanshu Singhal, Kyoung Hwan Lee, and Chang Hee Nam (*Department of Physics and Coherent X-ray Research Center, KAIST*)

P-7 **Waveform-Controlled Terahertz Radiation from the Air Filament Produced by Few-Cycle Laser Pulses**

Ya Bai, Liwei Song, Rongjie Xu, Chuang Li, Peng Liu, Ruxin Li, and Zhizhan Xu (*State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences*)

P-8 **Measurement and simulation results on retardance of waveplates for the application to isolated attosecond pulse generation**

Kyungseung Kim, Dongha Kim, Hanbit Oh, and Chang Hee Nam (*Department of Physics and Coherent X-ray Research Center, KAIST*)

P-9 **Femtosecond laser filamentation in condensed media with Bessel beams**

Krithika Dota, Abhishek Pathak, J. A. Dharmadhikari, D. Mathur, and A. K. Dharmadhikari (*Tata Institute of Fundamental Research*)

P-10 **High harmonic generation in air with ultrashort, mid-infrared laser pulses**

Arpita Nath, Shraddha Rao, J. A. Dharmadhikari, A. K Dharmadhikari, and D. Mathur (*Tata Institute of Fundamental Research*)

P-11 **Phase-controlled ionization dynamics of CS_2 in the strong field regime**

Krithika Dota, J. A. Dharmadhikari, A. K. Dharmadhikari, and D. Mathur (*Tata Institute of Fundamental Research*)

P-12 **Ejection of D^+ from C_2D_2 in few-cycle intense laser fields: Dependence on the carrier-envelope phase**

Shun Miura [1], Toshiaki Ando [1], Kazuki Ootaka 1, Atsushi Iwasaki [1], Huailiang Xu [1], Tomoya Okino [1], Kaoru Yamanouchi [1], Dominik Hoff [2], Tim Rathje [2], Gerhad G. Paulus [2], Markus Kitzler [3], Andrius Baltuska [3], Giuseppe Sanzone [4], Mauro Nisoli [4] (*[1] School of Science, The University of Tokyo, [2] Institut für Optik und Quantenelektronik, Friedrich-Schiller-Universität, [3] Photonics Institute, Vienna University of Technology, [4] Department of Physics, Politecnico di Milano, National Research Council of Italy, Institute of Photonics and Nanotechnologies*)

P-13 **Fragment anisotropy of dissociative ionization of NO in the $A^2\Sigma^+$ state in intense laser fields**

Tomoyuki Endo, Mizuho Fushitani, Akitaka Matsuda, Akiyoshi Hishikawa (*Department of Chemistry, Graduate School of Science, Nagoya University*)

P-14 **The role phase in strong-field optimal control**

Hyounguk Jang, G.Y. Chen, J. Lee and W. T. Hill, III (*Dept of Physics, IPST and JQI, University of Maryland*)

P-15 **Elongation of C-O distance in methanol in intense laser fields by time-dependent adiabatic molecular dynamics**

Katsunori Nakai, Yoshihiro Nishiguchi, and Kaoru Yamanouchi (*Department of Chemistry, School of Science, The University of Tokyo*)

P-16 **Non-Born-Oppenheimer wave function of 1D hydrogen molecule by multiconfiguration time-dependent Hartree-Fock theory**

Yoshihiro Ide, Tsuyoshi Kato, and Kaoru Yamanouchi (*Department of Chemistry, School of Science, The University of Tokyo*)

P-17 **Ion Momentum Distributions from Strong-field Ionization of Atomic Ions**

Max Möller[1,2], Tim Rathje[1,2], P. Wustelt[1], S. Trotsenko[2,3], Th. Stöhlker[1,2,3], A. M. Sayler[1,2] and G.G. Paulus[1,2] (*[1]Institute of Optics and Quantum Electronics, Friedrich Schiller University Jena, [2]Helmholtz Institute Jena, [3]GSI, Darmstadt*)

P-18 **Temporal Characterization of Ultrafast Photoionization in He**

Dong Hyuk Ko, Jae-hwan Lee, and Chang Hee Nam (*Department of Physics and Coherent X-ray Research Center, KAIST*)

P-19 **Equations of motion for time-dependent multiconfiguration theory for electronic dynamics in a molecule in intense laser fields**

Tsuyoshi Kato, Kaoru Yamanouchi (*Department of Chemistry, School of Science, The University of Tokyo*)

P-20 **Resonantly enhanced pair production in a simple model**

F. Fillion-Gourdeau[1], E. Lorin[2], A.D. Bandrauk[3] (*[1] Centre de Recherches Mathématiques, Université de Montréal, Also at: School of Mathematics and Statistics, Carleton University, Ottawa, Also at: Fields Institute, University of Toronto, [2] School of Mathematics and Statistics, Carleton University, [3] Laboratoire de chimie théorique, Faculté des Sciences, Université de Sherbrooke*)

P-21 **Characterization of Sub-micron Sized Clusters in a Supersonic Gas Jet using Mie Scattering**

Satoshi Jinno[1], Y. Fukuda[1], H. Sakaki[1], A. Yogo[1], M. Kanasaki[1,2], K. Kondo[1], A. Ya. Faenov[1,3], I. Yu. Skobelev[3], T. A. Pikuz[1,3], A. S. Boldarev[4], V. A. Gasilov[4] (*[1]Kansai Photon Science Institute, Japan Atomic Energy Agency, [2] Graduate School of Maritime Sciences, Kobe University, [3] Joint Institute for High Temperatures, Russian Academy of Sciences, [4] Keldysh Institute of Applied Mathematics, Russian Academy of Science*)

P-22 **Intense femtosecond laser-induced X-ray emission from gold nano-colloidal solutions: Laser chirp dependence**

Koji Hatanaka,[1,2] K. Yoshida,[3] and K. Yamanouchi[1,3] (*[1] Center for Ultrafast Intense Laser Science, School of Science, The University of Tokyo, [2] PRESTO, Japan Science and Technology Agency, [3] Department of Chemistry, School of Science, The University of Tokyo*)

P-23 **Finding Quantum Coherence in Strongly Correlated Organic Crystals**

Yoshitaka Matsubara[1], Tadahiko Ishikawa[1], Yoichi Okimoto[1], Shin-ya Koshihara[1, 2], Takaaki Hiramatsu[3], Gunzi Saito[3], Yoshiaki Nakano[4], Hideki Yamochi[4], and Ken Onda[5, 6] (*[1]Department of Chemistry and Materials Science, Tokyo Institute of Technology, [2]CREST, Japan Science and Technology Agency (JST), [3]Faculty of Agriculture, Meijo University*)

P-24 **Mechanism of nanograting inscription on the surface of fused silica**

Feng Liang, Réal Vallée and See Leang Chin (*Centre d'optique, photonique et laser (COPL) and Département de physique, de génie physique et d'optique, Université Laval*)

P-25 **Evaluation of neutron properties from the (gamma, n) reaction due to laser-driven accelerated electron beam**

Hironao Sakaki[1], Yuji Fukuda[1], Masato Kanasaki[1], Mamiko Nishiuchi[1], Satoshi Jinno[1], Akifumi Yogo[1], Tomoyo Fukami[1], Yukinobu Watanabe[2], Tatsuhiko Sato[3], Koji Niita[4] (*[1]Quantum Beam Science Directorate, Japan Atomic Energy Agency, [2]Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, [3]Nuclear Science and Engineering Directorate, Japan Atomic Energy Agency, [4]Simulation code development group, Research Organization for Information Science & Technology*)

P-26 **Design of a wide energy range stacked CR-39 detector diminishing contaminant photo-neutrons using Monte Carlo particle transport simulations**

Masato Kanasaki [1,2], Yuji Fukuda [2], Hironao Sakaki [2], Akifumi Yogo [2], Satoshi Jinno [2], Mamiko Nishiuchi [2,] Atsuto Hattori [1], Kenya Matsukawa [1], Kiminori Kondo [2], Keiji Oda [1] and Tomoya Yamauchi [1] (*[1] Graduate School of Maritime Sciences, Kobe University, [2] Kansai Photon Science Institute, Japan Atomic Energy Agency*)

P-27 **Dynamics of Sub-microjoule Femtosecond Pulse Formation in a Negative Dispersion Regime**

Dong Hoon Song [1], Sung In Hwang [2], Do-Kyeong Ko[3] (*[1] BT Convergence Research Department, Electronics and Telecommunications Research Institute, [2] Department of Photonics and Applied Physics, Gwangju Inwstitute of Science and Technology, [3] Department of Photonics and Applied Physics, and Advanced Photonics Research Institute, Gwangju Institute of Science and Technology*)

P-28 **Development of Diode-pumped, Cryogenically-cooled Yb:YLF Chirped-pulse Regenerative Amplification Laser**

Yutaka Akahane [1,2], Kanade Ogawa [1,2], and Koichi Yamakawa[1,2] (*JAEA[1], JST-CREST[2]*)

P-29 **Construction of the ETRI 200-TW high power femtosecond laser system**

Hwang Woon Lee, Dong Hoon Song, Won Bae Cho, Dong Ho Shin, Moon Youn Jung (*BioMedNeuron Research Team, BT Convergence Technology Research Department, Electronics and Telecommunications Research Institute*)