



Program at a Glance

Oct. 15 (Monday)		
Workshop registration hour: 16:00 - 17:00		
16:30 - 18:30	<i>Welcome reception</i>	
Oct. 16 (Tuesday)		Session
Workshop registration hour: 08:45 - 16:00		
09:15 - 09:30	<i>Opening remarks</i> Katsumi Midorikawa, Peixiang Lu, and Toyoharu Nawa: President of Hokkaido University	
09:30 - 10:20	<i>Generation, characterization and applications of single-cycle laser pulses <Tutorial></i> Kyung Taec Kim (IBS & GIST, Korea)	Femtosecond and attosecond light source Presider: Taro Sekikawa
10:20 - 10:45	<i>Generation of isolated attosecond pulse toward high flux</i> Zhiyi Wei (IOP, CAS, China)	
<i>Coffee break</i>		
11:00 - 11:25	<i>TW-class infrared femtosecond laser source and its applications</i> Yuxi Fu (RAP, RIKEN, Japan)	Ultrafast high-power laser Presider: Nobuhisa Ishii
11:25 - 11:50	<i>Greater than 50x solid-state compression of 1030 nm Yb:based laser pulses to single-cycle duration</i> Chih-Hsuan Lu (IPT, NTHU, Taiwan)	
11:50 - 12:00	Group Photos	
<i>Lunch</i>		
13:30 - 13:55	<i>Commissioning of PAL-XFEL</i> In Soo Ko (Postech and PAL, Korea)	XFEL and its application Presider: Eiji J. Takahashi
13:55 - 14:20	<i>Femtosecond time-resolved X-ray absorption spectroscopy using SACLA</i> Yuki Obara (Tokyo Univ. of Agriculture and Tech., Japan)	
14:20 - 14:45	<i>Multiphoton Ionization of Atoms in Intense XUV-FEL Fields Studied by Single-Shot Photoelectron Spectroscopy</i> Mizuho Fushitani (Nagoya Univ, Japan)	
<i>Coffee break</i>		
15:00 - 15:25	<i>High harmonic spectroscopy of molecules: from structure to molecular dynamics</i> Pengfei Lan (HUST, China)	Ultrafast dynamics in molecules Presider: Takeshi Sato
15:25 - 15:50	<i>Electron-nuclear correlation in ultrafast dynamics of molecules</i> Kang Lin (ECNU, China)	
15:50 - 16:15	<i>Photon-nuclei angular momentum transfer in strong-field breaking of H₂</i> Feng He (SJTU, China)	
16:15 - 17:45	<i>Poster Session & Coffee break</i>	
18:00 - 20:00	<i>Banquet dinner</i>	

Oct. 17 (Wednesday) Workshop registration hour: 09:15 - 12:15		<i>Session</i>
09:30 - 10:20	<i>Weak field asymptotic theory of tunneling ionization for atomic and molecular systems <tutorial></i> Toru Morishita (UEC, Japan)	Theory of ultrafast optics Presider: Pengfei Lan
10:20 - 10:45	<i>Application of time-dependent multiconfiguration and coupled-cluster methods to intense-laser driven multielectron dynamics in atoms and molecules</i> Takeshi Sato (Univ. of Tokyo, Japan)	
<i>Coffee break</i>		
11:00 - 11:25	<i>Computational approach for the ultrafast phenomena under intense laser fields</i> Tomohito Otobe (KPSI, QST, Japan)	Ultrafast phenomena I Presider: Ryuji Itakura
11:25 - 11:50	<i>Generation of coherent EUV emission via frustrated tunneling ionization</i> Hyeok Yun (IBS, Korea)	
11:50 - 12:15	<i>Laser-driven micro plasma structure for coherent radiation</i> Ye Tian (SIOM, China)	
12:15 - 12:25	<i>Poster Prize Award Ceremony</i>	Applied Sciences
<i>Lunch</i>		
14:00 - 14:25	<i>Polarization Control of Isolated High-order Harmonics Pulses</i> Pei-Chi Huang (IPT, NTHU, Taiwan)	Applications of high-order harmonic generation Presider: Kyung Taec Kim
14:25 - 14:50	<i>Polarization properties of high harmonics in solids using linearly and circularly polarized infrared optical pulses</i> Nobuhisa Ishii (ISSP, Univ. of Tokyo, Japan)	
14:50 - 15:15	<i>Ultrafast photo-isomerization dynamics of 1,3-cyclohexadiene probed via time-resolved high-harmonic spectroscopy</i> Keisuke Kaneshima (Hokkaido Univ. Japan)	
<i>Coffee break</i>		
15:30 - 15:55	<i>Angle-Resolved Photoemission Spectroscopy in Cooperation with High Harmonic Generation laser Light Source</i> Ping-Hui Lin (NSRRC, Taiwan)	Ultrafast phenomena II Presider: Ming-Chang Chen
15:55 - 16:20	<i>Temporal Characterization of Attosecond Pulses by Holographic Pulse Measurement</i> Dong Hyuk Ko (Univ. of Ottawa and NRC, Canada)	
16:20 - 16:35	<i>Controlling the spin-resolved photoemission in laser-molecular interactions</i> Kunlong Liu (MPI of Microstructure Physics, Germany)	
16:35 - 16:50	<i>Strong-field dissociative frustrated double ionization of molecules</i> Wenbin Zhang (ECNU, China)	
16:50 - 17:05	<i>Closing remarks</i> Katsumi Midorikawa and Peixiang Lu	
18:30 - 20:30	<i>Reception</i>	
Oct. 18 (Thursday)		
<i>Departure</i>		

Poster Session

Strong isolated attosecond pulses in the 'water window' region created by a TW-class mid-infrared waveform synthesizer

Yuxi Fu (RAP, RIKEN, Japan)

Efficient and Robust Generation of High-Order Harmonics via Direct Laser Plasma Resonance

Boyuan Li (SJTU, China)

Double optimal density gradients for harmonic generation from relativistically oscillating plasma surfaces

Jian Gao (SJTU, china)

Efficient laser wakefield acceleration driven by an intense mid-infrared laser pulse

Eiji J. Takahashi (RAP, RIKEN, Japan)

High-Harmonic Generation from Crystalline Solids under Carrier Envelope Phase Controlled Pulse

Yasushi Shinohara (Univ. of Tokyo, Japan)

Revealing dynamical electron correlation in high harmonic generation of alkali atoms

Yang Li (Univ. of Tokyo, Japan)

Time-dependent optimized coupled-electron pair approximation method for laser-driven multielectron dynamics

Himadri Pathak (Univ. of Tokyo, Japan)

Gauge Invariance beyond the Electric Dipole Approximation

Ryoji Anzaki (Univ. of Tokyo, Japan)

Multi-millijoule source centered at 1937 nm from a diode-pumped ring cavity Tm:YAP regenerative amplifier

Seyed Ali Rezvani (IMS, Japan)

Petahertz electronic oscillation in Cr:Al₂O₃ solid characterized by Fourier transform extreme ultraviolet attosecond spectroscopy

Hiroki Mashiko (NTT, Japan)

Numerical study of high harmonic generation in a strongly correlated electron system

Shohei Imai (Tohoku Univ., Japan)

Theoretical investigation of the resonant high-harmonic generation process from transition metal plasma using TD-CASSCF and TD-ORMAS

Imam S. Wahyutama (Univ. of Tokyo, Japan)

Novel Features of Nonsequential Double Ionization with Mid-Infrared Laser Fields

Yingbin Li (Xinyang Normal University, China)

Tunable mid-infrared to THz laser by dual-chirped difference frequency generation

Yuxi Fu (RAP, RIKEN, Japan)

Revealing electron dynamics in the asymmetric molecule with the strong-field photoelectron holography

Mingrui He (HUST, China)

Carrier-envelope phase dependent photoionization of Xe atoms in few-cycle IR laser fields

Tomoya Mizuno (ISSP, Univ. of Tokyo, Japan)

Subcycle characterization of photoelectron emission with multicycle laser pulses

Qinying Ji (ECNU, china)

Two-dimensional electron-ion rescattering driven by bicircular two-color laser pulses

Kang Lin (ECNU, china)

Photoelectron holography and forward scattering in elliptically polarized laser pulses

Hui Xie (HUST, China)

Implementation of Gauge-Invariant Time-Dependent Configuration Interaction Singles Method to Three-Dimensional Atom

Takuma Teramura (Univ. of Tokyo, Japan)

<p><i>Improvement of Conversion Efficiency in Soft X-ray High Harmonic Generation by Using a Loose-Focusing Geometry</i> Kotaro Nishimura (RAP, RIKEN, Japan)</p>
<p><i>Ultrafast Photolysis of o-Nitrophenol Studied by Time-Resolved Photoelectron Spectroscopy</i> Yuki Nitta (Hokkaido Univ., Japan)</p>
<p><i>High harmonic generation in reflection and transmission from bulk GaAs: the role of nonlinear propagation effects</i> Peiyu Xia (ISSP, Univ. of Tokyo, Japan)</p>
<p><i>Soft X-ray high-harmonic generation covering the entire water window and measurement of the near edge X-ray absorption fine structure of titanium</i> Nariyuki Saito (ISSP, Univ. of Tokyo, Japan)</p>
<p><i>Ultrafast ring-opening of the two-photon-excited 1,3-cyclohexadiene probed via time-resolved high-harmonic spectroscopy</i> Yuki Ninota (Hokkaido Univ., Japan)</p>
<p><i>Controlling Nonsequential double ionization of Ne with parallel-polarized two-color laser pulses</i> Min Li (HUST, China)</p>
<p><i>Intense soft X-ray supercontinuum generation with sub-cycle level synthesized electric field</i> Bing Xue (RAP, RIKEN, Japan)</p>
<p><i>Time-Resolved Angle-resolved Photoemission Spectroscopy Using High-Order Harmonic EUV Pulses</i> Hao-Hsiang Jia (National Tsing Hua University, Taiwan)</p>
<p><i>Driver laser for high-brightness compact quantum beams at the QST-KPSI</i> Thanh-Hung Dinh (QST, Japan)</p>
<p><i>Coherent control of photoelectron angular distribution of He and Ne atoms by bichromatic extreme ultraviolet laser</i> Oyunbileg Tugs (Univ. of Tokyo, Japan)</p>
<p><i>Generation of a single-cycle laser pulse using a two-stage compressor</i> Sung In Hwang (IBS, Korea)</p>
<p><i>Manipulating an electron quantum path in above threshold ionization</i> Yang Hwan Kim (IBS, Korea)</p>
<p><i>Circularly polarized high harmonic generation by using a turnkey 1030 nm laser</i> Ying-Hao Chien (National Tsing Hua University, Taiwan)</p>
<p><i>Collective motion of two-electron atom in attosecond pulses</i> V. H. Trinha (RAP, RIKEN, Japan)</p>
<p><i>Ultrafast relaxation of nonthermal photo-excited carrier in graphite probed by time-resolved ARPES based on sub-5-fs high-harmonic source</i> Kento Toume (NTT, Japan)</p>
<p><i>Demonstration of relative phase control for coherent synthesizer</i> Shaobo Fang (CAS, China)</p>
<p><i>Compact Yb:YAG active mirror laser for supercontinuum beam generation</i> Natsumi Shinozaki (Utsunomiya Univ., Japan)</p>
<p><i>Efficient near-infrared supercontinuum beam generation in ytterbium-doped double-clad passive fiber</i> Misaki Shoji (Utsunomiya Univ., Japan)</p>
<p><i>Ptychographic retrieval of over-octave-spanning infrared (1.0-2.2 μm) spectrum</i> Yu-Chieh Lin (RAP, RIKEN, Japan)</p>

Tutorial: 2, Invited: 18, Contributed oral: 2, Poster: 39
Total: 61 papers