<u>Conference on Laser and Synchrotron</u> <u>**Radiation Combination Experiment**</u>

LSC'14

<u>9:00-9:15</u>	Opening Room 416+417			
Opening Ren	narks	L		
9:00	H. Azech, Conference Chair of LSC' 14			
	Institute of Laser Engineering, Osaka University,			
	Osaka, Japan			
9:15-12:30	LSC1 Room 416+417			
Chair:				
LSC1-1	(Invited) X-ray Free-Electron Lasers – a	I		
9:15	bright future for structural biology	1		
	Ilme Schlichting	-		
	Max Planck Institute for Medical Research			
	Germany			
LSC1-2	(Invited) Tracking the chemical reactions with			
0.45	(invited) it acking the chemical reactions with combined ultrafast y-ray spectroscopies and			
7.4 5	scottoring	1		
	Simone A. Techort	1		
	Simone A. Techent			
1801 2	(Invited) Structural Dynamics in Chamistry			
LSC1-5	(Invited) Structural Dynamics in Chemistry			
10:15	Investigated by Pulsed, High Flux A-ray	т		
	Kadiation	1		
	Simone A. Techert	1		
	DESY, Hamburg, Germany / MPIbpC, Germany			
	Break (10:45-11:00)			
LSC1-4	(Invited) SR & XFELs' Challenges to Time			
11:00	Resolved Structural Visualization of Optical	_		
	Recording Process	L		
	Masaki Takata	1		
	RIKEN SPring-8 Center, Japan			
LSC1-5	(Invited) Time-resolved X-ray Diffraction			
11:30	Experiment on Crystal Lattice Dynamics			
	Using Optical Laser and Accelerator-based	L		
	X-ray Source	1		
	Yoshihito Tanaka			
	RIKEN SPring-8 Center, Japan			
LSC1-6	(Invited) Towards femtosecond time-resolved			
12:00	hard x-ray photoelectron spectroscopyray as a	L		
	probe of transient electronic states in	1		
	condensed matter			
	Masaki Oura			
	RIKEN SPring-8 Center, Japan			
		L		
		1		
	Lunch Break (12:30-13:30)			
13:30-18:30	LSC2 Room 416+417			
Chair:				
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LSC2-1	(Invited) Time-resolved X-ray spectroscopy at			
13:30	3rd and 4th generation light sources	9		
10.00	Chie Milno	2		

Chris Milne
 Paul Scherrer Institute, Switzerland
 LSC2-2 (Invited) EUV+IR two-color experiments at
 14:00 FELs
 Kiyoshi Ueda
 IMRAM, Tohoku University, Japan

LSC2-3 14:30	(Invited) Femtosecond time-resolved X-ray absorption spectroscopy using SPring-8 Angstrom Compact Free Electron laser (SACLA) Kazuhiko Misawa Tokyo University of Agriculture and Technology, Japan				
LSC2-4	Break (15:00-15:15) (Invited) Exploring Possible Pathways to				
15:15	Non-Thermal Sub-Picosecond				
	Phase-Switching in the Phase Change Alloy				
	Ge2Sb2Te5 using a Free-Electron Laser				
	Paul Fons				
	National Institute of Advanced Industrial Science				
1802-5	(Invited) Picosecond Lattice Deformation in				
15:45	Ge2Sb2Te5 Revealed by X-ray Free-Electron				
10.40	Laser				
	Eiichiro Matsubara				
	Dept. Materials Science & Engineering, Kyoto				
	University, Japan				
LSC2-6	(Invited) Ultrafast lattice dynamics of phase				
16:15	change materials by coherent phonons				
	Muneaki Hase				
	Tsukuba Japan				
	Break (16:45-17:00)				
LSC2-7	(Invited) Generation of Kilo-Tesla Magnetic				
17:00	Field with High-Power Laser for LSC				
	Experiments				
	Shinsuke Fujioka				
	Institute of Laser Engineering, Osaka University,				
	Japan Dalamating of the Southern Divition March Effect				
LSC2-8	con ZnO(0001) Studied by Time resolved Soft				
17:50	V-ray Photoemission Spectroscopy				
	Rvu Yukawa				
	ISSP, the University of Tokyo, Japan				
LSC2-9	Optical properties of lanthanide-doped APLF				
17:45	crystals as neutron scintillators				
	Melvin John F. Empizo				
	Institute of Laser Engineering, Osaka University,				
1 9 9 2 10	Japan				
LSC2-10	Investigation of the spatial resolution of a ZnO				
18:00	Ren Arita				
	Institute of Laser Engineering, Osaka University,				
	Japan				
LSC2-11	Vacuum ultraviolet (VUV) fluorescence of				
18:15	KMgF3 and BaLiF3 crystals for short				
	wavelength devices				
	Luong Viet Mui				
	Institute of Laser Engineering, Osaka University,				
	Japan				
	Thursday April 24				

Thursday, April 24

<u>9:00-12:15</u>	LSC3	Room 416+417
Chair:		
LSC3-1	(Invited) Development of an Ultrafast	
9:00	Pump-probe Facility with Multiple Radiation	
	generated by an RF Ph	otogun-based
	Accelerator and a Fem	tosecond Laser

LSC3-2 9:30	Young U. Jeong WCI Center for Quantum-Beam-based Radiation Research, KAERI, Korea (Invited) Generation of Coherent Synchrotron Radiation by using Laser and Synchrotron Masahiro Katoh Institute for Molecular Science, Japan	LSC4-6 16:00	on SiC Kazutoshi Takahashi Synchrotron Light Application Center, Saga University, Japan (Invited) Highly Efficient Deep UV Generation from a Newly Developed Wavelength-conversion β-BaB2O4 Device
LSC3-3 10:00	(Invited) Nonlinear ionization of atoms in intense EUV laser fields studied by single-shot		Ichiro Shoji Chuo University, Japan
	 photoelectron spectroscopy Mizuho Fushitani Department of Chemistry, Graduate School of Science, Nagoya University, Japan Break (10:30-10:45) 	LSC4-7 16:45	(Invited) Time-resolved vibrational spectroscopy for photo-functional organic materials Ken Onda
LSC3-4 10:45	(Invited) Capturing structural dynamics of materials by picosecond X-ray pulses	1 504 8	Tokyo Institute of Technology, PRESTO-JST, Japan (Invited) Nondestructive 3D Imaging of
LSC3-5 11:15	Photon Factory, KEK, Japan (Invited) Ultrafast X-ray science at synchrotron and XFEL facilities using laser	17:15	Fatigue Cracks inside Engineering Materials by Synchrotron Radiation Yuii Sano
	pump X-ray probe experiments Shunsuke Nozawa High Energy Accelerator Research Organization,	LSC4-9 17:45	Toshiba Corporation, Japan Development of measurement system for magneto-optical effect with a vacuum
LSC3-6 11:45	Japan (Invited) Single-shot time-resolved X-ray scattering measurement of structural change of amorphous material under laser-driven		ultraviolet High Harmonic Generation laser Shingo Yamamoto Institute for Solid State Physics, the University of Tokyo, Japan
	compression Kouhei Ichiyanagi Graduate School of Frontier Sciences, The University of Tokyo, Japan	LSC4-10 18:00	Observing carrier dynamics in an n-type epitaxial graphene using time-resolved photoemission spectroscopy Takashi Someya Institute for Solid State Physics, the University of
	Lunch Break (12:15-13:15)		Tokyo, Japan
<u>13:15-18:15</u> Chair:	LSC4 Room 416+417	<u>18:15-18:30</u> Closing Rema 18:15	<u>Closing</u> Room 416+417 arks K. Nakamura, Steering Committee Co-Chair.
LSC4-1 13:15	(Invited) Ultrabright femtosecond electron diffraction German Sciaini Department of Chemistry, University of Waterloo,		Tokyo Institute of Technology, and CREST-JST, Japan

Canada

Studies Masaki Hada

Dynamics of Matter

on Cooperative Effect Shin-ya Koshihara

(Invited) Femtosecond Electron Diffraction

(Invited) Role of Ultrafast Structural

----- Break (14:45-15:00) -----

Photoemission Spectroscopy

University of Tokyo, Japan

Iwao Matsuda

(Invited) Chronology of Photocarriers at Surfaces Studied by Time-Resolved

Tokyo Institute of Technology, JST-PRESTO / Max Planck Institute for the Structure and

Dynamics in Photo-Functional Materials Based

CREST, JST and Department of Materials Science, Tokyo Institute of Technology, Japan

The Institute for Solid State Physics, the

(Invited) Synchrotron Radiation and Laser

Photoemission Studies of Epitaxial Graphene

LSC4-2

LSC4-3

LSC4-4

LSC4-5

15:30

15:00

14:15

13:45