

1st Joint Workshop on Beamline Technology

February 27 and 28, 2006

Feb. 27 (Mon) 13:30 – 18:00 (coffee break included)

Coordinator: E. Shigemasa (UVSOR)

13:30 – 13:40	Preface	E. Shigemasa (UVSOR)
13:40 – 14:40	Fundamental aspect of high heat-load frontend components	N. Takahashi (JASRI)
14:40 – 15:40	Basic concept on double crystal monochromators as a high heat load component	T. Goto (JASRI)
15:40 – 16:00	Coffee break	
16:00 – 17:00	Design concept on a new generation monochromator for soft X-ray emission spectroscopy and related basic technology	T. Hatsui (IMS)
17:00 – 18:00	Principium of soft X-ray monochromator ~ Challenge towards realizing the ultimate performance monochromator ~	K. Amemiya (Univ. Tokyo)
18:00 – 18:30	Short tour to UVSOR	
18:30 –	Banquet	

Feb. 28 (Tue) 9:30 – 15:00 (coffee break included)

<First session> Coordinator: H. Ohashi (JASRI)

9:30 – 10:15	Manufacture of a transmission grating soft X-ray monochromator	T. Horigome (UVSOR)
10:15 – 11:00	Current situation against heat load problems at UVSOR	E. Nakamura (UVSOR)
11:00 – 11:15	Coffee break	
11:15 – 12:00	Cooling systems for double crystal monochromators at KEK-PF	Y. Uchida (KEK-PF)
12:00 – 13:00	Lunch	

<Second session> Coordinator: H. Ohashi (JASRI)

13:00 – 13:45	Countermeasure against high heat-load to double crystal monochromators	H. Yamazaki (JASRI)
13:45 – 14:30	Development of a surface profile measuring instrument for optical elements	Y. Higashi (KEK-PF)
14:30 – 15:00	Summary & perspective (panel discussion)	H. Ohashi (JASRI) & E. Shigemasa (UVSOR)
15:00 – 15:10	Closing remarks	N. Kosugi (UVSOR)

2nd JSSRR Wakate Workshop on Next Generation Light Sources ~ Future Science Developed by New Light Source ~

Place: Okazaki Conference Center

August 8, 2005

[Chairperson: S. Kimura]

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| 14:00- Preface | S. Kimura (UVSOR) |
| 14:10- Interim report of the next generation light sources committee | Y. Amemiya (Univ. Tokyo) |
| 14:40- Possibility of X-FEL and SCSS project | T. Ishikawa (RIKEN) |
| 15:15- ARC-EN-CIEL, the present FEL activity and the scientific case | M.E. Couprie (CEA) |
| 15:50- Coffee break | |

[Chairperson: K. Mase]

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| 16:10- Present status of plasma x-ray laser and expectation to X-FEL | K. Nagashima (JAERI) |
| 16:45- Possibility of the use of X-FEL extended from the present SR | M. Yabashi (JASRI) |
| 17:15- Applications of X-FEL (Examples of LCLS) | K. Hirano (KEK-PF) |
| 17:30- Discussion: Future science with X-FEL | T. Ishikawa (RIKEN) |
| 18:30- Banquet | |

August 9, 2005

[Chairperson: K. Harada]

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| 8:30- Limit of present SR and requests to next generation light sources | H. Tanaka (JASRI) |
| 8:55- Possibility of ERL for ring-type light source | R. Hajima (JAERI) |
| 9:20- Next generation ring-type and ERL light sources | S. Sakanaka (KEK-PF) |
| 9:45- Coffee break | |

[Chairperson: K. Amamiya]

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| 10:00- Present and future of photoemission spectroscopy of solids | K. Shimada (Hiroshima Univ.) |
| 10:25- Present and future of structural physics | H. Sawa (KEK-PF) |
| 10:50- Future of structural biology using SR | S. Wakatsuki (KEK-PF) |
| 11:15- Present and future of spectroscopy of atoms and molecules | E. Shigamasa (UVSOR) |
| 11:40- Present and future of x-ray imaging | Y. Kagoshima (Univ. Hyogo) |
| 12:05- Discussion chair: M. Takata (JASRI), Panelist: T. Kinoshita (JASRI) & H. Kawata (KEK-PF) | |

The workshop was organized by The Japanese Society for Synchrotron Radiation Research and was sponsored by UVSOR.



UVSOR User's Union (UUU) Users Meetings

OCC

(Oral:2F conference room, Poster & Get-together Party:1F conference room)

27 Feb. 2006 (Mon)

13:00 - 13:30 reception

13:30 - 13:35 Opening remarks

13:35 - 13:50 Current status of UVSOR

13:50 - 14:20 Present Status of UVSOR-II Accelerators
coffee break

14:40 - 15:10 Present status of the undulator beamline BL3U

15:10 - 15:40 Light source developments at UVSOR-II

15:40 - 16:10 IR absorption reflection spectroscopy at BL6B
coffee break

16:30 - 17:00 Quantitative evaluation of electron transport
properties by use of high-resolution angle-
resolved photoemission spectroscopy

17:00 - 17:30 Recent development of photoelectron spectroscopy
of metallofullerenes

17:30 - 18:00 Various spin reorientation transitions induced
by molecular adsorption on magnetic thin films
coffee break (Poster session)

18:30 - 20:30 Get-together Party

chairman K. Soda (Nagoya Univ.)

UUU president K. Soda

facility head N. Kosugi

UVSOR M. Kato

chairman S. Hino (Chiba Univ.)

IMS T. Hatsui

UVSOR M. Kato

UVSOR Y. Sakurai

chairman K. Soda (Nagoya Univ.)

Nagoya Univ. T. Takeuchi

Chiba Univ. S. Hino

IMS T. Yokoyama

28 Feb. 2006 (Tue)

9:00 - 9:30 Structural Analysis on the Amorphous Carbon
Thin Films Using C K-Edge NEXAFS
Development of quantitative structural analysis

9:30 - 10:00 by using XANES and an attempt to micro
component detection

10:00 - 10:30 Core exciton measurements using synchrotron
radiation and laser light
coffee break

10:40 - 12:30 Poster session
lunch

13:30 - 14:00 Phase observation of reflection multilayer using
reflection and total electron yield spectra

14:00 - 14:30 Synchrotron radiation spectroscopy of biomolecules

14:30 - 15:00 discussion

chairman K. Hayashi (Gifu Univ.)

Hyougo Pref.
Univ. K. Kanda

Nagoya Univ. T. Yoshida

Osaka Dent.
Univ. T. Tsujibayashi

chairman K. Fukui (Univ. of Fukui)

Tohoku Univ. T. Ejima

Kobe Univ. K. Nakagawa

Poster session

No.	Author	Affiliation	BL	Title
P1	K. Kanda	Hyogo Pref. Univ.	8B1	Structural Analysis on the Amorphous Carbon Thin Films Using C K-Edge NEXAFS
P2	Y. Izumi	Kobe Univ.	5B	Silicon K-edge XANES measurement of left- and right-handed quartz crystals
P3	K. Soda	Nagoya Univ.	5U	3p-3d Resonant Photoemission of Heusler-type $\text{Fe}_2\text{VAl}_{1-x}\text{Si}_x$
P4	H. Miyazaki	Nagoya Univ.	5U	Angle resolved photoemission of Fe_2VAl Heusler-type alloy
P5	T. Mochizuki	Nagoya Univ.	5U	3p-3d Resonant Photoemission of Heusler-type $(\text{Fe}_{1-x}\text{M}_x)_2\text{VAl}$ ($\text{M}=\text{Ir}, \text{Pt}$)
P6	T. Suzuki	Nagoya Univ.	5U	SR photoemission of Zr bulk metal glasses
P7	S. Ohta	Nagoya Univ.	5U	Photoelectron Spectroscopy of Pd-based Bulk Metallic Glasses with use of Synchrotron Light
P8	M. Imamura	Kobe Univ.	5U	Photoemission study of organic-metal hybrid nanoparticles : Prospect of research for the fluorescent Au nanoclusters encapsulated within dendrimer templates
P9	T. Kamikake	Kobe Univ.	5U	Photoemission study of alkyl-passivated Si nanoparticles
P10	M. Kitaura	Fukui Nat. Col. Tech	7B	Excitation processes of long lasting afterglow in $\text{SrAl}_2\text{O}_4:\text{Eu}, \text{Dy}$ phosphors
P11	K. Hayashi	Gifu Univ.	5B	Photoinduced phenomena in amorphous chalcogenide semiconductors
P12	K. Mitsuke	IMS	2B2	Pulsed ZEKE spectroscopy of fullerenes: setup and performance
P13	T. Yokoyama	IMS	4B	Various spin reorientation transitions induced by molecular adsorption on magnetic thin films
P14	T. Nakagawa	IMS	4B	Possibility of UV MCD Photoelectron Microscope
P15	T. Miyazaki	Ehime Univ.	8B2	Valence band structure and selective oxidation of Li-Ni complex oxide system
P16	Y. Nakajima	Univ. of Fukui	7B	Luminescence properties of $\text{YPO}_4:\text{Mn}$ codoped with Zr
P17	N. Nakagawa	Univ. of Fukui	1A,8B1,7B	Excitonic Emission Spectra and Time Resolved Decay Curves of AlGaN Alloys
P18	N. Nakagawa	Univ. of Fukui	5B,8B1,7B	Visible - UV Emission Spectra in III - V Nitride Semiconductors by Using High Energy Excitation and Excitation Energy Dependence

P19	M. Ohta	Niigata Univ.	1B	Photoluminescence Property of Hydroxyapatite
P20	T. Yokoyama	Chiba Univ.	8B2	Electronic structure of 6P monolayer on Cu(110)
P21	T. Matsui	Kobe Univ.	7B	Vacuum ultraviolet absorption spectra of amino acid films
P22	M. Ono	Chiba Univ.	8B2	SR-damaged doping of organic thin films: UPS study of PTFE film
P23	N. Ohno	Osaka Elec Commun. Univ.	1B	Superfluorescence from fluoride crystals
P24	N. Ohno	Osaka Elec Commun. Univ.	2B	VUV excitation luminescence properties of fluoride phosphors
P25	S. Kimura	UVSOR	7U	Design og the Wadsworth-type normal incident monochromator at UVSOR-II
P26	S. Kimura	UVSOR	6B	Present status of IR-THz beamline at UVSOR-II
P27	T. Ito	UVSOR	5U	Study of CeTe ₂ electronic states using high resolution 3D angle resolved photoemission spectroscopy
P28	T. Ito	UVSOR	5U	Ce 4d-4f resonant photoemission of CeNiGe _{2-x} Si _x
P29	J. Yamazaki	UVSOR	M	Present Status of UVSOR-II Accelerators
P30	M. Hosaka	UVSOR	M	Present Status of UVSOR-II FEL
P31	K. Takashima	Nagoya Univ.	M	Correlation between high intensity THz SR burst and electron bunch motion
P32	H. Hayashi	UVSOR	M	Closed Orbit Distortion at UVSOR-II
P33	A. Mochihashi	UVSOR	M	Present status of upgraded RF accelerating system in UVSOR-II
P34	J. Azuma	Saga Univ.	5U	Surface photo induced EMF effect of Cr/p-GaAs(100)
P35	K. Fukui	Univ. of Fukui	5B	Manufacturing and VUV-SX region optical properties of self standing metal thin films
P36	Y. Sakurai	UVSOR	6B	IR absorption reflection spectroscopy at BL6B
P37	M. Kato	Chiba Univ.	8B2	Recent development of photoelectron spectroscopy of metallofullerenes
P38	T. Ejima	Tohoku Univ.	5B	Phase observation of reflection multilayer using reflection and total electron yield spectra

UVSOR Lunch Seminar

FY2005

- May 18 Dr. M. Ono, Graduate School of Science and Technology, Chiba University
Investigation of doping in organic thin film by using synchrotron radiation damage
- May 25 Dr. K. HOTTA, R&D Center Technology & Engineering Division Lamp Company, Ushio INC.
EUV lithography and DPP EUV sources
- July 12 Drs. M. Labat & G. Lambert, CEA, France
FEL saturation in case of UVSOR-II
Seeding a free electron laser in "High Gain Harmonic Generation" configuration with laser harmonics produced in gases
- July 14 Prof. V.G. Stankevich, Russian Research Centre Kurchatov Institute, Russia and UVSOR
Optical investigations ferroelectric ordering $C_{60}F_{18}$ single crystals
- July 27 Prof. H. Xu, NSRL, University of Science and Technology of China
Present status and future plan of Hefei light source
- Sept. 7 Dr. H.-D. Kim, Beamline Division, Pohang Accelerator Laboratory, South Korea
Present status and activities at Pohang Light Source
- Dec. 20 Drs. S. Bielawski & C. Szwaj, Phlam/CERLA, France
Introduction to mode-locked lasers
Recent results obtained on the UVSOR FEL
- Dec. 21 Dr. T. Nishi, Graduate University for Advanced Studies (SOKENDAI)
Electronic structure of a quasi-two-dimensional organic superconductor and development of infrared spectroscopy under multiextreme conditions
- Mar. 22 Prof. L. Sheng, NSRL, University of Science and Technology of China
Introduce of the Hefei Light Source (HLS) and some experiments.