

APPENDIX

ORGANIZATION

Staff

Director

Katsumi	KIMURA	Professor
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Light Source Group

Toshio	KASUGA	Associate Professor
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Hiroto	YONEHARA	Research Associate
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Toshio	KINOSHITA	Engineer
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Masami	HASUMOTO	Engineer
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Beam Line Group

Makoto	WATANABE	Associate Professor
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Atsunari	HIRAYA	Research Associate
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Kazutoshi	FUKUI	Research Associate
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Kusuo	SAKAI	Section Chief Engineer
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Osamu	MATSUDO	Unit Chief Engineer
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Jun-ichiro	YAMAZAKI	Engineer
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Eiken	NAKAMURA	Engineer
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Secretary

Kayoko	MATSUDA	
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Guest Scientist

Shun-ichi	NAOE	Adjunct Associate Professor from Kanazawa Univ. (April 1987 - March 1989)
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Representative of Beam Lines

BL2A	Kosuke	SHOBATAKE	Dept. Molecular Assemblies
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BL2B2	Katsumi	KIMURA	Dept. Molecular Assemblies
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BL3B	Inosuke	KOYANO	Dept. Molecular Assemblies
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BL8B2	Hiroo	INOKUCHI	IMS
Others	Makoto	WATANABE	UVSOR

Steering Committee (April 1988 - March 1990)

Toshio	KASUGA	IMS	
Katsumi	KIMURA	IMS	Chairman
Inosuke	KOYANO	IMS	
Norio	MORITA	IMS	
Tadayoshi	SAKATA	IMS	
Kosuke	SHOBATAKE	IMS	
Makoto	WATANABE	IMS	
Shun-ichi	NAOE	IMS and Kanazawa Univ.	
Jun-ichi	CHIKAWA	Nat. Lab. High Energy Phys.	
Junji	FUJITA	Nagoya Univ.	
Yoshihiko	HATANO	Tokyo Inst. Tech.	
Yoshio	NAKAI	Kyoto Univ.	
Tadashi	OKADA	Osaka Univ.	
Kazuhiko	SEKI	Hiroshima Univ.	
Shigemasa	SUGA	Univ. of Tokyo	

JOINT STUDIES (fiscal year 1988)

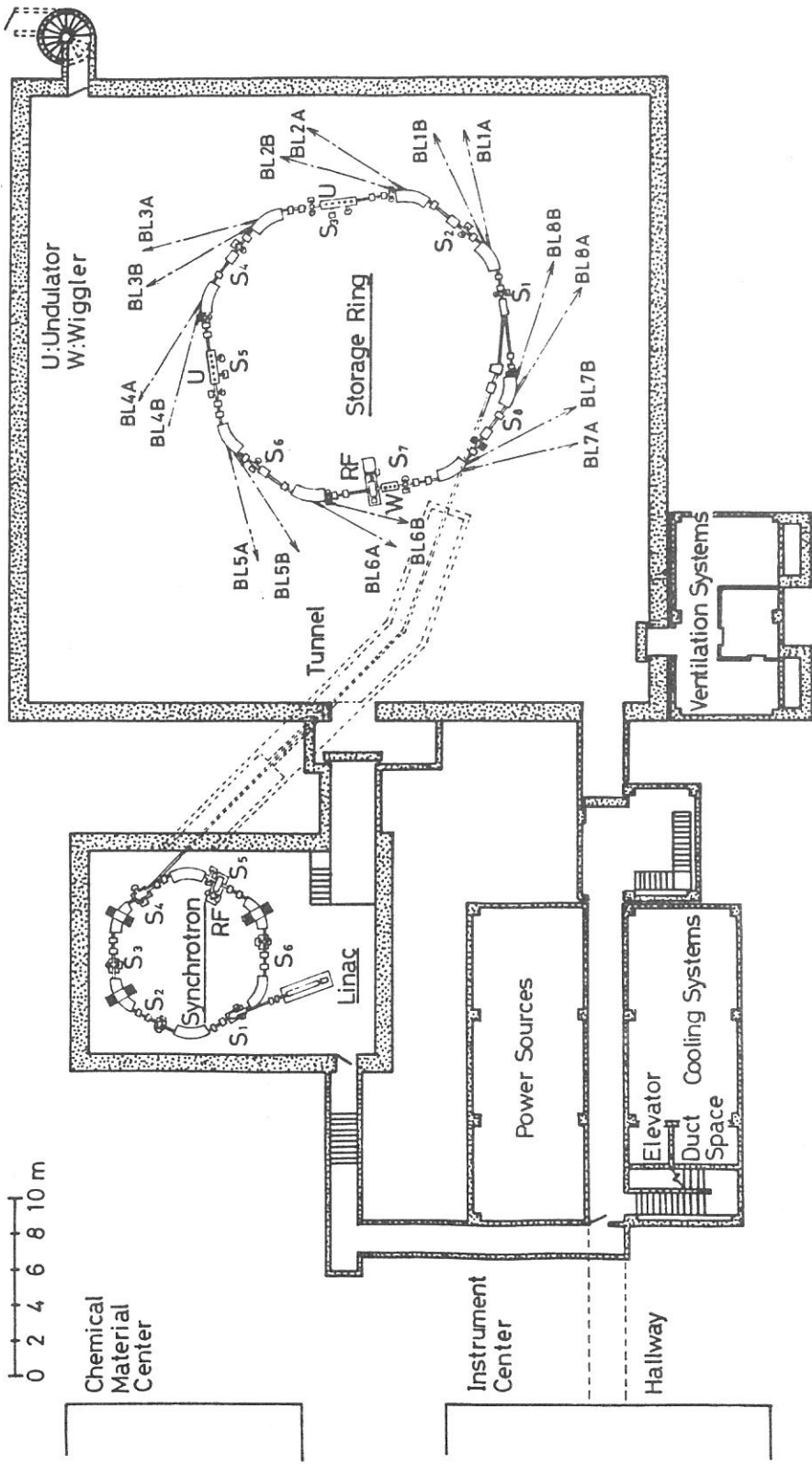
Special Project	: 3
Cooperative Research	: 15
Use of Facility	: 80
Users' Meeting	: 1
Workshop on Beam Dynamics and Free Electron Laser	: 1
Users' Time	: 42 Weeks

LIST OF PUBLICATIONS (1988)

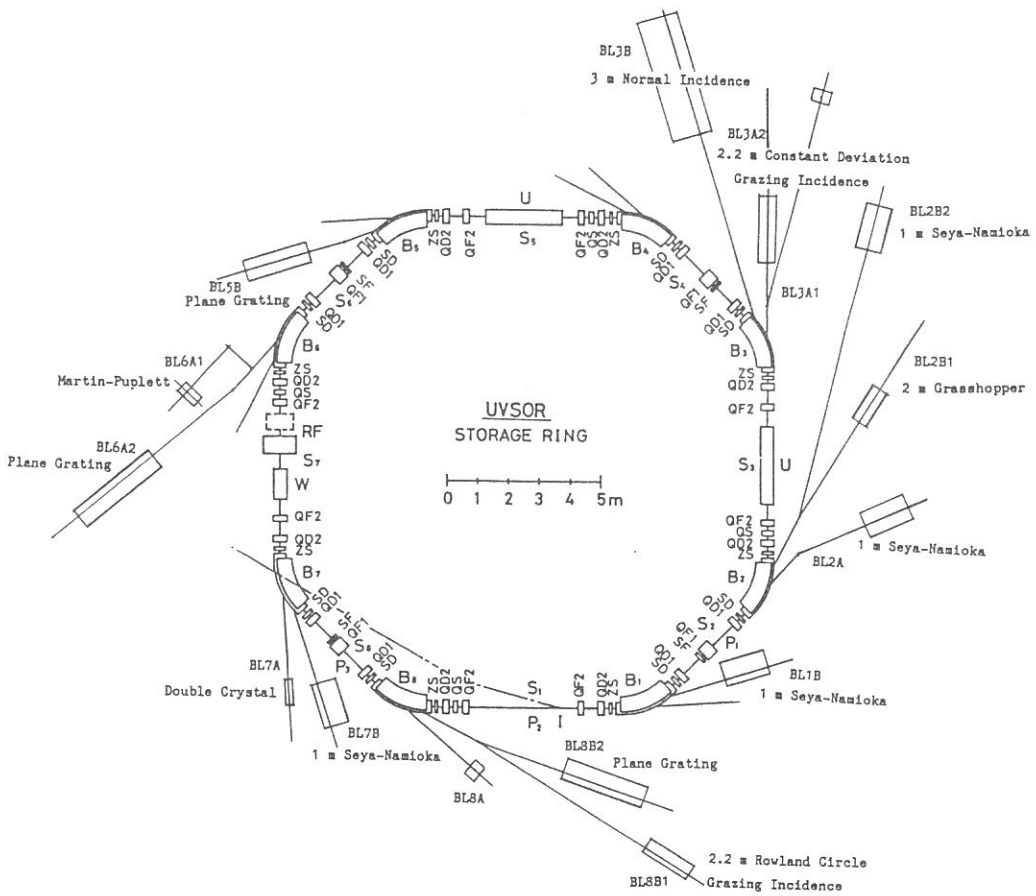
- 1) "*Longitudinal Active Damping for UVSOR Storage Ring*"
T.Kasuga, M.Hasumoto, T.Kinoshita and H.Yonehara
Jpn. J. Appl. Phys. **27** (1988) 100.
- 2) "*Interatomic Radiative Transition of a Valence Electron to Inner Core : Luminescence from Cs-Halides and RbF at Room Temperature*"
S.Kubota, J.Ruan, S.Sakuragi, M.Itoh and S Hashimoto
J. Lumi. **40/41** (1988) 149.
- 3) "*Auger-Free Luminescence due to Interatomic Transitions of Valence Electrons into Core Holes in BaF₂*"
M.Itoh, S.Hashimoto, S.Sakuragi and S.Kubota
Solid State Commun. **65** (1988) 523.
- 4) "*Investigation of Fragmentation Processes Following Core Photoionization of Organometallic Molecules in the Vapor Phase*"
S.Nagaoka, S.Suzuki and I.Koyano
Nucl. Instrum. Methods Phys. Res. **A266** (1988) 699.
- 5) "*Vacuum System for UVSOR Storage Ring*"
T.Kasuga, H.Yonehara, T.Kinoshita and M. Hasumoto
Proc. IEEE Particle Accelerator Conf., Washington, D.C., (IEEE, 1987) p.1672.
- 6) "*Absorption Spectra of Pbl₂ Layered Crystals 2-100 eV Range*"
T.Hayashi, K.Toyoda and M.Itoh
J. Phys. Soc. Jpn. **57** (1988) 1861.
- 7) "*Time-Resolved Synchrotron Spectroscopy of Exciton Fluorescence in Anthracene Single Crystals*"
T.Mitani, T.Yamanaka, M.Suzuki, T. Horigome, K.Hayakawa and I.Yamazaki
J. Lumi. **39** (1988) 313.

- 8) "*Synchrotron Radiation Wavelength Dependence on Self Development of Plasma Polymerized Resists*"
H.Yamada, T.Satoh, S.Itoh, M.Nakamura, S.Morita and S.Hattori
J. Appl. Polym. Sci. **42** (1988) 157.
- 9) "*Ultraviolet Photoemission Study of Oligothiophenes : The Effect of Irregularity on π -Electron Systems*"
H.Fujimoto, U.Nagashima, H.Inokuchi, K.Seki, H.Nakahara, J.Nakayama, M.Hoshino and K.Fukuda
J. Chem. Phys. **89** (1988) 1198.
- 10) "*Observation of Interatomic Radiative Transition of Valence Electrons to Outermost-Core-Hole States in Alkali Halides*"
S.Kubota, M.Itoh, J.Ruan S.Sakuragi and S.Hashimoto
Phys. Rev. Lett. **60** (1988) 2319.
- 11) "*Photoconductivity Threshold of Supercritical Xenon Fluids Doped with Anthracene as a Function of Fluid Density*"
K.Nakagawa, A.Ejiri, K.Itoh and M.Nishikawa
Chem. Phys. Lett. **147** (1988) 557.
- 12) "*XANES and EXAFS Studies on K-Shell Absorption in $K_{1-x}Na_xCl$ Solid Solutions*"
T.Murata, T.Matsukawa and S. Naoe
Solid State Commun. **66** (1988) 787.
- 13) "*Electronically Stimulated Desorption of Neutral and Ionic Species from Lithium Fluoride Surfaces*"
T.Yasue, A.Ichimiya, Y.Yamada, T.Gotoh, Y.Kawaguchi, M.Kotani, S.Ohtani, Y.Shigeta, S.Takagi, Y.Yazawa and G.Tominaga
Nucl. Instrum. Methods Phys. Res. **B34** (1988) 357.

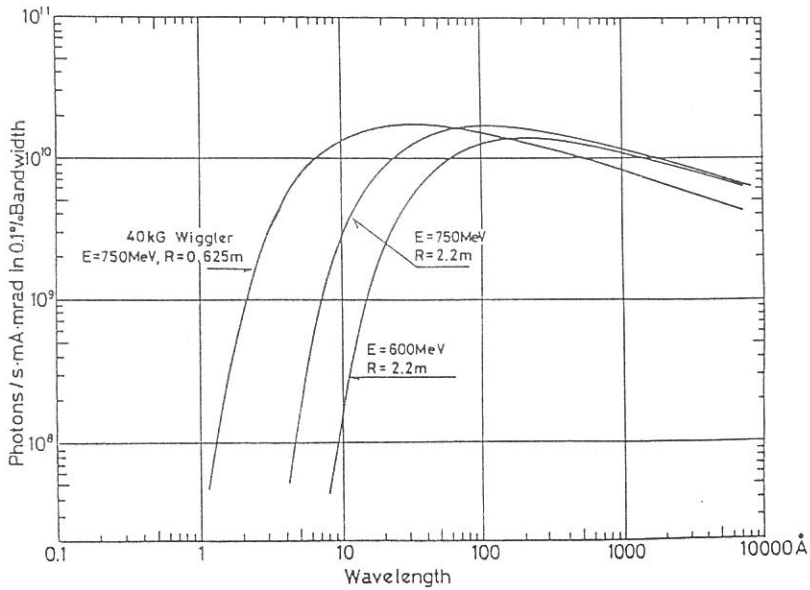
- 14) "*Evidence from Angle-Resolved Resonant Photoemission for Oxygen-2p Nature of the Fermi-Liquid States in $\text{Bi}_2\text{CaSr}_2\text{Cu}_2\text{O}_8$* "
 T.Takahashi, H.Matsuyama, H.Katayama-Yoshida, Y.Okabe, S.Hosoya,
 K.Seki, H.Fujimoto, M.Sato and H.Inokuchi
 Nature **334** (1988) 691.
- 15) "*Suppression of Longitudinal Coupled-Bunch Instability by Decoupling Method*"
 T.Kasuga, H.Yonehara, M.Hasumoto and T.Kinoshita
 Jpn. J. Appl. Phys. **27** (1988) 1976.
- 16) "*Cationic Core Excitons in NaBr and MgBr₂*"
 T.Matsukawa, S.Naoe, T.Murata and M.Mori
 J. Phys. Soc. Jpn. **57** (1988) 2916.
- 17) "*Bunch Lengthening in Single-Bunch Mode of UVSOR Storage Ring*"
 H.Yonehara, T.Kasuga, M.Hasumoto and T.Kinoshita
 Jpn. J. Appl. Phys. **27** (1988) 2160.
- 18) "*Far-Infrared Absorption of Silicon Crystals*"
 T.Ohba and S.Ikawa
 J. Appl. Phys. **64** (1988) 4141.
- 19) "*Photoabsorption Spectra and Photodissociation of S_2Cl_2 in the Vacuum Ultraviolet*"
 I.Tokue, A.Hiraya and K.Shobatake
 Chem. Phys. Lett. **153** (1988) 346.
- 20) "*Fabrication and Focal Test of a Free-Standing Zone Plate in the VUV Region*"
 H.Kihara, Y.Shimanuki, K.Kawasaki, Y.Watanabe, S.Ogura, H.Tsuruta and
 Y.Nagai
 X-Ray Microscopy II (Springer, 1988), p.164.



Plan view of the basement of the UVSOR Facility.



The UVSOR storage ring and the beam lines.



Intensity distribution of the UVSOR radiation.

LOCATION

Ultraviolet Synchrotron Orbital Radiation (UVSOR) Facility, Institute for Molecular Science (IMS) is located at Okazaki. Okazaki (population 290,000) is 260 km southwest of Tokyo, and can be reached by train in about 3 hours from Tokyo via New Tokaido Line (Shinkansen) and Meitetsu Line.



Address is as follows.

UVSOR Facility

Institute for Molecular Science

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Telex : 4537475 KOKKEN J (IMS)