

Public use beamline

- Contents of experiment reports

<i>title</i>	<i>proposal no.</i>	<i>first author</i>	<i>page</i>
BL01B1			
Electronic Structure of Eu@C ₆₀	1999B0057- NX -np	Y.Kubozono	1
XAFS Studies of Local Structure of Thin Film of Alkali Halide Single Crystals	1999B0070- CX -np	T.Murata	2
XAFS Study of Local Structure in PMN Based Thin Film Materials	1999B0092- CX -np	K.Yasukawa	3
EXAFS on adsorption of Cs in Bentonite barriers of nuclear waste repositories	1999B0099- NX -np	M.Nakano	4
Mixed Valence State in Double-Perovskite-Type Iron Oxides by XANES Measurements	1999B0108- CX -np	H.Yamauchi	5
Structural analysese of Cd(II) Surface Complex on Montmorillonite	1999B0154- NX -np	R.Takamatsu	6
Solvation Structure of Iodide Ions Affected by the Counter Ions	1999B0184- NX -np	H.Tanida	7
Double-electron excitation in Xe	1999B0202- NX -np	Y.Ito	8
XAFS Structure Analysis of Triiodide Ion in Solutions	1999B0208- NX -np	H.Sakane	9
Low Temperature High Energy XAFS Study of Sm:K-edge of Hard Magnetic Materials Sm ₂ Fe ₁₇ N _x	1999B0285- CX -np	H.Kasatani	10
K-XAFS study of rare earth ions doped in long-lasting phosphor	1999B0301- NX -np	Y.Shimizugawa	11
Structural Analysis of Tin-doped Indium Oxide (ITO) Thin Film by XAFS Spectroscopy	1999B0310- NX -np	J.Matsuo	12
XAFS Study on La ₂ @C ₈₀	1999B0331- NX -np	T.Akasaka	13
Tellurium K-edge XAFS of Sb-Te alloy films on polycarbonate substrates	1999B0332- NX -np	K.Tani	14
XAFS Study of Molybdenum Magneli-Phase	1999B0348- NX -np	Y.Kuroiwa	15

Analysis of the active site structure of Pd-promoted Mo sulfide catalysts by means of XAFS	1999B0362-NX -np	T.Kubota	16
In Situ Structural Analysis of Model Complexes for Enzymatic Oxygenation	1999B0380-NX -np	T.Tanaka	17
Analysis of local structure and perpendicular magnetic anisotropy of GdCo and GdFe thin films	1999B0397-CX -np	Y.Fujiwara	18
EXAFS study on the Debye-Waller factor of perovskite crystals	1999B0402-NX -np	Y.Nishihata	19
Local Structure of Iodide Anions Adsorbed on Ion-Exchange Resin	1999B0405-NX -np	M.Harada	20
XAFS measurement of rare earth elements in CeO ₂ -Gd ₂ O ₃ binary oxide system	1999B0428-NX -np	T.Nakagawa	21

BL02B1

A Set-Up and a Performance Test of the Vacuum Type Low-Background X-ray Camera	1999B0157-ND -np	K.Toriumi	22
Charge Sub-lattice Structure of RFe ₂ O ₄	1999B0182-CD -np	N.Ikeda	23
X-ray Induced Structural Phase Transition of Endohedral Metallofullerene La@C ₈₂	1999B0198-ND -np	T.Watanuki	24
X-ray critical scattering of magnetite at Verwey transition	1999B0233-ND -np	T.Toyoda	25
X-ray Diffuse Scattering in Pr _{0.6} Ca _{0.4} MnO ₃	1999B0263-ND -np	S.Shimomura	26
Crystal Structure Analysis of Mg ₂ SiO ₄ Powder Using High-Energy and High-Resolution X-ray Beam	1999B0270-CD -np	H.Toraya	27
Precise Crystal Structure Analysis of K ₃ H(SO ₄) ₂ by High Energy X-ray Diffraction Method	1999B0283-CD -np	H.Kasatani	28
X-ray study of the phason strains in Al-Ni-Co and Al-Cu-Fe quasicrystals	1999B0309-ND -np	Y.Matsuo	29
Low temperature superstructure in intramolecular hydrogen bonded materials Me-HPLN	1999B0312-ND -np	M.Watanabe	30
Lattice Modulation and Charge Ordering Associated with the Spin Ordering in CeP	1999B0314-CD -np	Y.Noda	31
Development of accessories and apparatus at BL02B1, II	1999B0315-CM -np	Y.Noda	32

Charge and lattice state of NaV ₂ O ₅ under low-temperature and high pressure	1999B0323-ND -np	K.Ohwada	33
Structural Study on the CDW Transitions in Molybdenum Oxides η -Mo ₄ O ₁₁	1999B0347-ND -np	Y.Kuroiwa	34
Stress analysis of processed Semiconductor chips	1999B0376-CD -np	K.Okada	35
Structure refinements of a FeTiO ₃ ilmenite single crystal at 6.1GPa using hard x-rays of 30keV	1999B0387-ND -np	T.Hattori	36

BL02B2

The Structural Study of Novel Functional Materials by Using New Large Dabye-Scherrer Camera at BL02B2.	1999B0087-ND -np	E.Nishibori	37
A Study of Structural Phase Transition for the Fullerene Compounds in the Electron Density Level by the Maximum Entropy Method.	1999B0088-ND -np	E.Nishibori	38
Direct Observation of the Charge and/or Orbital-control in Layered-type Doped Manganites by the MEM Charge Density Study.	1999B0089-ND -np	E.Nishibori	39
Step-Scanned Intensity and Angular Resolution of Powder Diffraction Data Collected at BL02B2 Station	1999B0269-ND -np	H.Toraya	40

BL04B1

Equation of state and melting temperatures of iron at high pressures and temperatures	1999B0012-ND -np	Y.Wang	41
In situ viscosity measurement of melt in the system of Fe-FeS under high pressure	1999B0023-ND -np	H.Terasaki	42
Melting reaction of Ca(OH) ₂	1999B0084-ND -np	H.Fukui	43
In situ x-ray diffraction study of hexagonal diamond formation under high pressures and temperatures	1999B0090-ND -np	W.Utsumi	44
Structure of liquid IIIb-Te mixtures at high temperature	1999B0091-CD -np	S.Takeda	45
Viscosity of melt in diopside-jadeite system at high pressure by x-ray radiograph	1999B0156-ND -np	A.Suzuki	46
Viscosity of basaltic silicate melt at high pressure	1999B0177-CD -np	K.Funakoshi	47
Breakdown of Pyrope Garnet at High Pressures	1999B0239-CD -np	K.Hirose	48

Time-resolved X-ray diffraction study on the a-b transformation kinetics of Mg_2SiO_4	1999B0255-ND -np	T.Kubo	49
Re-determination of the Phase Boundary of the Post-Spinel Transition in Mg_2SiO_4	1999B0276-ND -np	T.Katsura	50
Exploration of beta-Fe using sintered diamond anvils	1999B0277-ND -np	E.Ito	51
Structure of Liquid Silicon under Pressure	1999B0305-ND -np	N.Funamori	52
X-ray Diffraction Measurements for Expanded Fluid Selenium	1999B0359-CD -np	M.Inui	53
Research and development of a sapphire cell used for x-ray diffraction experiments of supercritical metallic fluids	1999B0360-NM -np	K.Tamura	54
In-situ measurement of rheological behavior of Py50Mj50-garnet at high pressure and temperature	1999B0408-CD -np	J.Ando	55
Development of experimental techniques for in situ X-ray diffraction observations at pressures beyond 30 GPa	1999B0410-ND -np	T.Irifuji	56
The phase boundary of β - γ in Mg_2SiO_4 and the equation of state of γ - Mg_2SiO_4	1999B0412-ND -np	T.Inoue	57

BL04B2

Single crystal X-ray structure analyses of micro crystals of small molecules using high energy X-rays and a cylindrical image plate	1999B0130-ND -np	T.Ozeki	58
Development of high-energy X-ray diffractometer for amorphous materials	1999B0146-ND -np	K.Suzuya	59
The development of containerless measurement for the high temperature fused melts by high energy X-ray diffraction	1999B0148-ND -np	S.Kohara	60
High Energy Monochromatic X-ray Crystallography under High-pressure	1999B0191-ND -np	Y.Ohishi	61
Development of Structural Analysis for Molten Salts and Solution by High-Energy X-ray Diffraction	1999B0215-ND -np	N.Umesaki	62
Small angle x-ray scattering experiments for supercritical metallic fluids	1999B0358-NM -np	K.Tamura	63

BL08W

Verification of Magnetic State of Ni in $\text{Gd}_{0.5}\text{Ni}_{0.5}$ Utilizing Magnetic Compton-Profile Method	1999B0083-ND -np	K.Yano	64
--	------------------	--------	----

Temperature dependence of a Compton Profile of CeNi	1999B0164- CS -np	N.Hiraoka	65
Measurement of Magnetic Compton Profile of Ferro-magnet Eu(Sr)O	1999B0165- ND -np	N.Sakai	66
Spin-resolved Measurement of Recoil Electrons in Compton Scattering	1999B0179- NS -np	M.Itou	67
Experimental Determination of Multiply Scattered X-ray Spectra in Compton Scattering Measurement	1999B0180- NS -np	M.Itou	68
Development and application of high energy X-ray fluorescence technique for provenance analysis of archaeological samples	1999B0222- NOS -np	I.Nakai	69
Verification of Y magnetic moment in amorphous Fe ₇₈ Y ₂₂ by magnetic Compton scattering	1999B0250- ND -np	K.Yano	70
Magnetic Compton Scattering Studies of the Temperature Dependence of the Spin Moments in DyCo ₅	1999B0370- ND -np	H.Miyagawa	71
The X-ray fluorescence analysis for archaeological samples	1999B0422- NOS -np	K.Yamahana	72
X-ray fluorescence analysis of heavy elements by using Ka lines excited by high energy X-rays(II)	1999B0429- CS -np	I.Nakai	73

BL09XU

Development of X-ray Timing detectors using multi-element APDs	1999B0034- CMD -np	S.Kishimoto	74
Study on Magnetite by Using Site Specific Nuclear Resonance Inelastic Scattering	1999B0060- ND -np	M.Seto	75
Extremely asymmetric x-ray diffraction from silicon wafers covered with a thin SiO ₂ film	1999B0069- ND -np	Y.Kudo	76
Generation of idler soft X-rays using X-ray non-linear effect	1999B0185- ND -np	Y.Yoda	77
Study of nuclear cascade scattering	1999B0188- ND -np	Y.Yoda	78
Structure analysis at solid liquid interfaces : Underpotential deposition of copper on Pt(111) and Au(111) electrodes in sulfuric acid solution	1999B0230- ND -np	M.Nakamura	79
In-Beam Moessbauer Study on the fast diffusion and the gettering processes of Fe in Si	1999B0231- ND -np	Y.Yoshida	80
Structural study on ultra-thin SiO ₂ crystal on Ni(111)	1999B0273- ND -np	H.Tajiri	81

Dynamics of Fe Cations in Nafion Membranes with ^{57}Fe Nuclear Resonant Quasielastic Scattering	1999B0298-ND -np	M.Seto	82
X-ray Standing Wave Analysis of the Electrode/ Zirconia (solid state electrolyte) Interface	1999B0353-CD -np	A.Saito	83

BL10XU

X-ray Absorption Fine Structure of Selenium Free Clusters	1999B0011-NX -np	M.Yao	84
Powder X-ray diffraction of solid hydrogen	1999B0048-CD -np	H.Kawamura	85
High Pressure X-ray Diffraction from Single Wall Carbon Nanotubes Bundles	1999B0093-ND -np	S.M.Sharma	86
Crystal Structure Analyses of Solid Oxygen High-Pressure Phases and Research for Molecular Dissociation	1999B0107-CD -np	Y.Akahama	87
Structural phase transitions of FeS under high pressure	1999B0119-ND -np	H.Kobayashi	88
X-ray fluorescence holography using multi element solid state detector	1999B0121-ND -np	K.Hayashi	89
Search for Crystal Structure of SnI_4 Showing Anomaly of Superconductivity at Low Temperature and High Pressure	1999B0132-CD -np	N.Hamaya	90
Fluorescence XAFS measurement of ultra-diluted biological samples with Undulator Gap Scan XAFS method	1999B0140-NL -np	Y.Shiro	91
Photoemission process of localized electron in carrier trap and its application to site-selective x-ray absorption fine structure	1999B0168-NX -np	M.Ishii	92
Diffraction Experiment of CaFeO_3 under High Pressure Condition	1999B0172-ND -np	I.Koyama	93
Local Structural Analyses of Multilayers by Standing Wave XAFS Method	1999B0190-CX -np	T.Uruga	94
High Pressure Powder X-ray Diffraction Study of a Hexagonal Phase in Zn-Mg-Dy Alloy	1999B0192-ND -np	T.Watanuki	95
Pressure variation of electron density distribution of CeP and CeSb	1999B0194-ND -np	N.Ishimatsu	96
Construction of the Laser-heated Diamond Anvil Cell System	1999B0218-NM -np	T.Watanuki	97
Site-selective XAFS Spectroscopy of Surface Active Sites of Copper Catalyst Utilizing a Fluorescence Spectrometer	1999B0220-NX -np	Y.Izumi	98

Phase transition of SmAs with NaCl-type structure at high pressures	1999B0244-ND -np	J.Hayashi	99
Powder X-ray Diffraction Study of α -Fe ₂ O ₃ under High Pressure up to 101 GPa	1999B0320-CD -np	S.Nasu	100
Compression behavior of CeCu ₂ Ge ₂ at cryogenic temperature	1999B0327-ND -np	S.Tsudoku	101
Powder X-ray diffraction experiments of carbon nanotubes under high pressure.	1999B0356-ND -np	H.Yusa	102

BL14B1

In-situ observation of an atomic structure of underpotential decomposition tellurium monolayer	1999B0071-ND -np	A.Awakura	103
Kinetics of the quartz-to-coesite transformation by time resolved X-ray diffraction experiments	1999B0227-ND -np	T.Fujisawa	104
Structural Study of Liquid Silicon under Pressure Using Angle-Dispersive X-Ray Diffraction	1999B0304-NM -np	K.Tsuji	105
Observation of the formation and the melting of high pressure phase of (VO) ₂ P ₂ O ₇	1999B0381-ND -np	M.Azuma	106

BL20B2

Production of x-ray microbeam with a grazing incidence mirror	1999B0082-NM -np	A.Takeuchi	107
Development of micro-angiography system for observation and analysis of microcirculation	1999B0101-NL -np	K.Umetani	108
Development of Refraction-contrast Imaging System at BL20B2	1999B0102-NL -np	Y.Suzuki	109
Development of a novel radiography for visualization of a bone fracture and a bone trabecula	1999B0102-NL -np	K.Mori	110
Quantitative Measurement of Phase-Contrast In Terms of X-Ray Imaging Using Biological Phantom	1999B0102-NL -np	M.Urakawa	111
Refraction Imaging of the Resected Specimen Using Synchrotron Radiation (SPring 8) : Imaging and Pathologic Correlation on the Bronchogenic Carcinoma and the Breast Cancer	1999B0102-NL -np	M.Kono	112
High resolution X-ray imaging using refraction-contrast imaging	1999B0102-NL -np	K.yamasaki	113
Development of X-Ray Zooming Optics	1999B0102-NL -np	M.Ando	114

Zernike Phase Contrast Microscopy Experiments Using X-ray Refractive Lenses	1999B0106-NM -np	Y.Kohmura	115
A study of three-dimensional structures of chondrules by an XTM	1999B0112-NOM -np	A.Tsuchiyama	116
Test of Ultra-small-angle Scattering Experiments using a Medium-length Beamline	1999B0141-NL -np	N.Yagi	117
Development of Medical CT Apparatus using SPring-8	1999B0142-NL -np	N.Yagi	118
Development of advanced topography at BL20B2	1999B0351-NM -np	S.Iida	119
Development of X-ray fluorescen technique for analysis of large samples for criminal investigation	1999B0435-UOD -np	I.Nakai	120

BL23SU

Feasibility study of the experimental apparatus for photoabsorption processes of multiply charged ions-III	1999B0036-CS -np	M.Oura	121
3d and 3p Photoionization of Xe	1999B0037-CS -np	H.Yamaoka	122

BL25SU

Magnetic Circular Dichroism of Gd/Co Multilayer Film in Gd 3d and Co 2p core excitation regions	1999B0052-CS -np	H.Ishii	123
High-Resolution X-Ray Photoelectron Spectra of D0 ₃ -related (Fe _{1-x} V _x) ₃ Al _{1-z} Si _z Alloys	1999B0072-NS -np	K.Soda	124
Bulk and surface V 3d spectral weight of Sr _{1-x} Ca _x VO ₃ resolved by high-energy and high-resolution photoemission	1999B0076-NS -np	A.Sekiyama	125
Bulk 4f spectral weight of antiferromagnet CeRh ₂ Si ₂ by high-resolution Ce3d-4f resonance photoemission spectroscopy	1999B0077-NS -np	A.Sekiyama	126
3d Edge Resonance Photoelectron Spectroscopy Study of High Kondo Temperature Cerium Compounds	1999B0104-NS -np	R.Jung	127
Spin polarized photoemission and magnetic circular dichroism of photoemission	1999B0160-NM -np	S.Suga	128
XAS-MCD of 1T-TiS ₂ intercalated with Fe and Co	1999B0161-NS -np	S.Suga	129
Study on the Magnetism of 3d Transition Metals for Transition metal - Pt alloy films and Mn - Co - Pt superlattices	1999B0243-NS -np	T.Kato	130

Electronic state analysis of TaSe ₂ and W(110) by two-dimensional circularly-polarized light photoelectron spectroscopy	1999B0245-NS -np	M.Kotsugi	131
Refinement of two-dimensional photoelectron spectrometer and preparation of the preparation chamber	1999B0247-COS -np	M.Kotsugi	132
Spin analysis of magnetic thin films on W(110) by two-dimensional circularly-polarized light photoelectron diffraction	1999B0248-ND -np	Y.Miyatake	133
High Resolution Resonant Photoemission Study of CeCoGe _{3-x} Si _x (0≤x≤3.0)	1999B0392-NS -np	K.Kanai	134
Rare-earth magnetic moment and electronic states of frustated systems R ₂ Mo ₂ O ₇	1999B0393-NS -np	S.Imada	135
High-resolution resonant photoemission and MCD of CeCo _{5-x} B _x	1999B0394-NS -np	S.Imada	136
Eptaxial-film preparation chamber for MCD test experiment	1999B0396-NM -np	S.Imada	137

BL27SU

Absolute flux measurement at BL27SU	1999B0021-NM -np	T.Tanaka	138
Improvement in resolving power of the soft X-ray grating monochromator of BL27SU	1999B0031-CM -np	H.Ohashi	139
Microbeam focusing of soft X-ray undulator light using an elliptically bent mirror	1999B0032-CM -np	E.Ishiguro	140
Development of method to determine the photon-beam axis of SR from figure-8 undulator by means of inner-shell photoionization of rare gas	1999B0035-NM -np	M.Oura	141
Preparation and Etching of Oxide Thin Films	1999B0113-COM -np	M.Shimizu	142
Formation and Dissociation Dynamics of Multiply Charged Species by Inner-Shell Excitation of Molecules	1999B0290-NS -np	N.Saito	143
Anisotropy in a Resonant Auger Electron from Rare Gas Atoms and Diatomic Molecules	1999B0329-NS -np	I.H.Suzuki	144
Vibrational Level Dependence in Core Excited Dissociation Processes of Diatomic and Triatomic Molecules	1999B0354-NS -np	A.Hiraya	145
Soft X-ray Irradiation Effect of PTFE using Figure-8 Undulator at BL27SU Soft X-ray CVD Station	1999B0424-COM -np	O.Maida	146
Construction of soft x-ray CVD experimental station and irradiation effects to the surface of electrical materials	1999B0425-CM -np	T.Kanashima	147

BL28B2

Design Concepts and Construction of White-Beam Topography Experimental Station at BL28B2	1999B0330-NM -np	Y.Chikaura	148
--	------------------	------------	-----

BL39XU

Downsizing of X-ray fluorescence spectrometer for trace analysis	1999B0002-NS -np	K.Sakurai	149
Specular charge-magnetic scattering from a Fe-Gd multilayer	1999B0025-ND -np	H.Okuda	150
Crystal Orientation Dependence of Spin Polarization on Cu in Single Crystal Co/Cu Multilayers by MCD Method	1999B0053-CS -np	J.Mizuki	151
In-vivo, in-situ, micro XRF imaging and micro XAFS of a Single Living Cell	1999B0058-NL -np	A.Motamed Ektessabi	152
Investigation of chemical state of iron in Parkinsonian substantia nigra	1999B0059-NL -np	K.Takada	153
Investigation of metal ion distribution in a single cell using SR micro beam	1999B0073-CL -np	A.Motamed Ektessabi	154
X-ray fluorescence holography using troidal bend graphite and APD	1999B0122-CD -np	K.Hayashi	155
Study of Electronic States in 3d Transition-Metal Oxides by X-Ray Resonance Magnetic Scattering	1999B0211-CS -np	K.Namikawa	156
X-ray powder diffraction analysis of micro-samples using a combination of a Gandolfi camera and Imaging Plate	1999B0221-NOD -np	I.Nakai	157
Temperature Variation of The Spin-and Orbital-Magnetic Moment of Holmium Iron Garnet by X-ray Magnetic Diffraction	1999B0261-ND -np	M.Ito	158
XMCD in (Nd _{1-x} Tb _x)-Fe-B thin film alloy	1999B0262-NS -np	T.Nakamura	159
Generation of a hard x-ray microbeam and its application to spectromicroscopy	1999B0266-NM -np	S.Hayakawa	160
Micro EXAFS measurements of Ni,Co and Mn dissolved into synthetic diamonds	1999B0267-NX -np	S.Hayakawa	161
Element-specific magnetometry in amorphous Tb ₆₀ Fe ₂₀ Al ₂₀ by using XMCD	1999B0340-NS -np	A.Koizumi	162
XMCD Spectrum around Curie Temperature and Critical Phenomenon	1999B0384-NX -np	H.Maruyama	163

Installation of Superconducting Magnet and XMCD Spectrum under High Magnetic Fields	1999B0385-NX -np	H.Maruyama	164
Development of a Polarized XAFS Method for the Solution Surface Study	1999B0406-CX -np	I.Watanabe	165

BL40B2

Test measurements of the Small Angle X-ray Scattering of Latex Particles for the Evaluation of BL40B2	1999B0020-NM -np	T.Fujisawa	166
Study on structural change of Prostaglandin D synthase with X-ray small angle scattering	1999B0047-NL -np	K.Inoue	167
Commissioning for wide-angle routine proteomics beamline BL40B2: protein crystallography and small angle scattering	1999B0126-NL -np	K.Miura	168
Application studies of Wide Range Public Beamline on Proteomics	1999B0152-NL -np	Y.Katsube	169
Effect of X-ray energy on the reflection intensities and radiation damage of skeletal muscle specimens.	1999B0171-NL -np	H.Iwamoto	170
Feasibility of SAXS/WAXS measurements using tunability and its application on supramolecule systems	1999B0219-NL -np	Y.Inoko	171
Structural information revealed by wide-angle solution scattering of several proteins	1999B0229-NL -np	M.Hirai	172
X-ray fiber diffraction experiments at BL40B2	1999B0293-NL -np	K.Hasegawa	173
Evaluation of Monochromatic Focused X-ray Beamline and verification of annealing effect on extremely thin protein crystals	1999B0296-NL -np	K.Imada	174
Structural analysis of γ -glutamylcysteine synthetase from Escherichia coli B	1999B0345-NL -np	T.Hibi	175

BL41XU

Crystal Structure of Pap1-DNA complex	1999B0004-NL -np	Y.Fujii	176
Crystal Structure Analysis of TPO/Fab complex	1999B0005-NL -np	T.Tamada	177
Crystal Structure Analysis of PDZ2 domain of FAP-1	1999B0006-NL -np	T.Tamada	178
Crystallographic analyses of Halorhodopsin	1999B0014-NL -np	H.Nishida	179

X-ray X-ray Structure Analysis of CO-bound [Ni-Fe] hydrogenase	1999B0028- NL -np	H.Ogata	180
Crystal structure analysis of Hmc by using anomalous dispersion	1999B0044- NL -np	N.Shibata	181
Synchrotron Radiation Study of cobalamin-dependant enzymes complexed with cobalamins	1999B0045- NL -np	N.Shibata	182
Crystal structures of proteinase A from <i>Aspergillus niger</i> and 40 kDa calcium binding protein from <i>Physarum polycephalum</i>	1999B0046- CL -np	H.Sasaki	183
Crystallographic analysis of the protein with unknown function from <i>Thermus thermophilus</i> HB8	1999B0074- NL -np	S.Kawaguchi	184
Crystal Structure Analysis of Oxygen-Evolving Photosystem II Complex	1999B0105- CL -np	J.Shen	185
X-ray crystallography of cell surface antigen CD38 complexed with ganglioside	1999B0116- NL -np	O.Nureki	186
X-ray crystallography of human AUH protein complexed with AU-rich element from Interleukin-3 mRNA	1999B0117- NL -np	O.Nureki	187
X-ray Crystallographic Study of Histidinol Phosphate Aminotransferase	1999B0129- NL -np	K.Hirotsu	188
Structural analysis of cathepsin L specific inhibitor-papain complex	1999B0135- NL -np	H.Tsuge	189
Studies on structure and function of photosystem I complexes isolated from a cyanobacterium	1999B0145- CL -np	K.Satoh	190
Preliminary Results of Diffraction Measurements from Crystals Formed in 30S Subunit Probes From <i>Halobacterium marismortui</i>	1999B0150- NL -np	S.D.Trakhanov	191
X-ray crystallography of <i>Thermus thermophilus</i> glutamyl-tRNA synthetase complexed with the cognate tRNA	1999B0153- NL -np	S.Sekine	192
X-ray Crystallography of Ultra-thin Membrane Protein Crystals	1999B0155- CL -np	C.Toyoshima	193
Improvement and Test for the MIROAS diffractometer	1999B0200- NL -np	M.Kawamoto	194
Usefulness of X-ray CCD Detector for Protein Crystallography	1999B0201- NL -np	N.Kamiya	195
Structural study of methylated DNA recognition by MeCP2 in transcriptional repression	1999B0204- NL -np	T.Tahirov	196
Structural study of cooperative DNA recognition by CBF	1999B0205- NL -np	T.Tahirov	197

X-ray crystallographic study of SH3 domain of Vav complexed with Grb2	1999B0206-NL -np	M.Nishida	198
Structure analysis of an orthorhombic complex crystal between Ferredoxin and Ferredoxin-NADP+reductase	1999B0210-NL -np	G.Kurisu	199
Crystallographic Study of Bacteriorhodopsin Mutants (D96N)	1999B0237-NL -np	T.Kouyama	200
X-ray Crystallographic Study of Bacteriorhodopsin Intermediates at Low Temperature.	1999B0238-NL -np	T.Kouyama	201
The flexibility of protein molecule in terms of the crystallography of DHFR mutants	1999B0242-CL -np	K.Katayanagi	202
High-Resolution Crystal Structure Analysis of Archaeal Rubisco Protein Having a New-Type Architecture for Supramolecular Complex	1999B0249-NL -np	K.Kitano	203
Crystal structure analysis of Ribosomal protein L5	1999B0254-NL -np	T.Nakashima	204
X-ray Crystallography of Light-Harvesting Chlorophyll a/b Protein Complex of Photo System II	1999B0258-NL -np	T.Kouyama	205
An example of SIRAS phase determination using a single protein crystal	1999B0264-NL -np	S.Yuda	206
Structural analysis of the homing-endonuclease ApeI from hyperthermophilic achaeobacteria Aeropyrum pernix by X-ray crystallography	1999B0279-CL -np	H.Ito	207
Structural analysis of the calcium binding protein MRP14 by X-ray crystallography	1999B0280-NL -np	H.Ito	208
Crystal structure analysis of monomeric isocitrate dehydrogenase	1999B0281-NL -np	I.Tanaka	209
Reaction Mechanism Analysis of circular amino acid ACC opening by ACC deaminase from Pseudomonas sp.ACP	1999B0282-NL -np	T.Ose	210
X-ray fiber diffraction from oriented liquid crystalline of the bacterial flagellar filaments at BL41XU	1999B0294-CL -np	K.Hasegawa	211
Protein crystallographic studies of flagellar HAP2 and F41 fragment of flagellin.	1999B0295-CL -np	K.Imada	212
X-ray Crystallography of E.coli enzyme that hydrolyzes 8-oxo-dGTP,a mutagenic substrate for DNA synthesis	1999B0307-NL -np	Y.Yamagata	213
X-ray crystallography of hyperthermophile leucyl-tRNA synthetase	1999B0338-NL -np	O.Nureki	214
Fiber diffraction experiments aiming for high-resolution structure analysis of F-actin filament	1999B0341-CL -np	T.Oda	215

Substrate Recognition of Branched-chain Amino Acid Amino transferase	1999B0342-NL -np	I.Miyahara	216
X-Ray Crystallographic Study of 4-Amino-4-deoxychorismate Lyase from E.coli	1999B0343-NL -np	T.Nakai	217
High resolution crystallographic study of the D298K mutant of Copper-Containing Amine Oxidase from <i>Arthrobacter globiformis</i> which should contain LTQ-like species	1999B0382-NL -np	M.Kim	218
X-ray Crystallographic Analysis of Heme Oxygenase in Complex with Heme	1999B0389-CL -np	K.Fukuyama	219
Crystallographic Studies of sulfotransferase domain of human heparan sulfate N-deacetylase/N-sulfotransferase	1999B0401-NL -np	Y.Kakuta	220
High Resolutional Structure Analysis for Concerted Movement upon Reduction of Blue Nitrite Reductase	1999B0413-NL -np	Y.Kai	221
Structural analysis of archaeal intein endonuclease obtained from polA gene	1999B0414-NL -np	Y.Kai	222
Structural analysis of phosphorylated and dephosphorylated phosphoenolpyruvate carboxylase from maize	1999B0415-NL -np	Y.Kai	223
Molecular and Crystal Structures of <i>Thermoactinomyces vulgaris</i> R-47 α -amylases(TVAI,TVAII)	1999B0419-CL -np	S.Kamitori	224

BL44B2

Direct Observation of Brownian Motion within A Single Protein Molecule using X-rays	1999B0019-CL -np	Y.Sasaki	225
Time-resolved X-ray Structure Analysis of the Dynamic Ligand Structure of [Ni-Fe] hydrogenase	1999B0030-NL -np	H.Ogata	226
X-ray crystallographic analysis of the structure change of hemoglobin	1999B0039-CL -np	Y.Naoi	227
Structural Studies on the Mechanism of Topa Quinone Biogenesis in Copper-Containing Amine Oxidase from <i>Arthrobacter globiformis</i>	1999B0383-NL -np	M.Kim	228

BL45XU

X-ray small-angle scattering study for the quaternary structure of the glutamate dehydrogenase from hyperthermophile bacteria at high temperature	1999B0056-NL -np	M.Nakasako	229
X-ray diffraction study of the structure of exogenous myosin subfragment-1 chemically cross-linked to actin filament in skeletal muscle fiber.	1999B0143-NL -np	H.Iwamoto	230
X-ray diffraction from isolated cardiac myocytes.	1999B0144-CL -np	H.Iwamoto	231

Time-resolved Low-angle X-ray scattering Studies of Fish Muscle	1999B0195- NL -np	J.J.Harford	232
An X-ray Diffraction Study on Rat Cardiac Muscles	1999B0212- NL -np	H.Suga	233
X-ray diffraction study on skinned fibres without certain proteins	1999B0234- CL -np	S.Takemori	234
Dynamics of the Concentration Fluctuation in Diblock Copolymers Induced by Pressure Jump	1999B0241- ND -np	M.Takenaka	235
Time resolved X-ray diffraction experiments of the structural changes of the light driven proton pump (bacteriorhodopsin) in its photocycle	1999B0349- NL -np	T.Oka	236
Possible Mesophase at Phase Transitions in Polystyrene-block-Isoprene Block Copolymers by Synchrotron Small-Angle X-ray Scattering	1999B0391- ND -np	S.Okamoto	237
Ca ²⁺ -induced structural change in isolated spasmoneme proteins	1999B0431- NL -np	H.Asai	238

BL47XU

Production of high energy X-ray micro-beam: Fabrication and characterization of the thick Fresnel zone plate	1999B0080- CM -np	N.Kamijo	239
Test of X-ray Imaging Microscopy with Multilayer Zone Plate	1999B0103- NM -np	Y.Suzuki	240
Development of high spatial resolution X-ray CT system for rocks and minerals.	1999B0181- NM -np	A.Tsuchiyama	241
Development of micro-area X-ray diffraction method with micro-pinholes	1999B0288- CD -np	M.Ohmasa	242