

Public use beamline

- Contents of experiment reports

<i>title</i>	<i>proposal no.</i>	<i>first author</i>	<i>page</i>
BL01B1			
The Elucidation of the Charge Order by XANES Measurement of MV_2O_5 Compound	1999A0019-NX -np	T.Shobu	1
XAFS Study on the structure of Palladium or Platinum carbonyl complex	1999A0030-NX -np	Q.Xu	2
XAFS Studies on the Interaction between Pd and CeO_2 Ultrafine Particles	1999A0032-NX -np	Y.Matsumura	3
Influence of the kind and Bronsted acid amount of zeolite on the structure and methane combustion activity of Pd	1999A0046-CX -np	K.Okumura	4
XAFS Study of Local Structure in PMN Based Thin Film Materials	1999A0072-NX -np	K.Yasukawa	5
Evaluation of Energy Resolution of BL01B1 Using XANES Spectra of Various Metal Ions	1999A0083-CX -np	T.Tanaka	6
XAFS Study on Liquid Selenium under High Temperature and High Pressure	1999A0125-NX -np	Y.Katayama	7
A Feasibility Study of Silicon PN Photodiodes as X-ray Intensity Monitors for High Flux X-ray Beam and their Application to XAFS Experiments	1999A0127-NM -np	K.Sato	8
XAFS Studies of Local Structure of Thin Film of Alkali Halide Single Crystals	1999A0158-CX -np	T.Murata	9
XAFS Studies on $(Ba,Sr)TiO_3$ Thin Films	1999A0182-NX -np	H.Kimura	10
XAFS Study on the Role of Pb on Formation of Corrosion Products(Rust) of Structural Materials	1999A0187-NX -np	T.Nakayama	11
Temperature-dependent EXAFS study on a superionic-conducting halide glass based on AgI	1999A0221-NX -np	H.Kageyama	12
XAFS Study on the Local Structure Change around Silver in Zeolites. II. Differences with the Exchange Ratio and the Treatment Temperature	1999A0226-CX -np	H.Sakane	13
Total-Reflection XAFS of Aqueous Solution Surface	1999A0246-CX -np	I.Watanabe	14

Development of the Light-Modulated XAFS Spectroscopy	1999A0258- NX -np	K.Okamoto	15
XAFS Study on Nitrogenation of CoZrSn	1999A0261- NX -np	M.Kurisu	16
Study on the Local Structure of Lanthanoid Complex by Ln K-edge EXAFS	1999A0281- NX -np	T.Miyanaga	17
Local structure analysis for low-loading supported Ir catalysts by means of XAFS	1999A0287- NX -np	T.Kubota	18
Local Structure and Magnetic Property for Hard Magnetic Materials $\text{Sm}_2\text{Fe}_{17}\text{N}_x$	1999A0300- CX -np	H.Kasatani	19
XAFS Analysis of Corroded Metal Surface with Molten Salts by Conversion-Electron-Yield Method	1999A0301- NX -np	E.Yanase	20
Local structure of Ag-In-Sb-Te alloy films	1999A0304- NX -np	K.Tani	21
XAFS Study of the Local Structures in Mixed Conducting Oxides	1999A0308- NX -np	Y.Uchimoto	22
XAFS Studies on the Titanium Oxide-Based Photocatalysts Capable of Operating under Visible Light Irradiation Prepared by an Advanced Metal Ion-Implantation Method	1999A0309- NX -np	M.Anpo	23
The nondestructive characterization for cadmium and zinc accumulated in the deep-sea organism	1999A0326- NX -np	C.Numako	24
Energy Characteristics of Radiophotoluminescence Glass Dosimeter	1999A0335- NOM -np	K.Tabushi	25
Characterization of BL01B1 in High Energy Region	1999A0338- NX -np	S.Emura	26
EXAFS Measurements of Nd^{3+} -doped Sodium Borate Glasses on the Nd K-edge	1999A0345- CX -np	H.Takebe	27
Eu K- and LIII-XANES spectra for new red phosphor $(\text{La}_{1-x}\text{Eu}_x)_2\text{O}_2\text{CN}_2$	1999A0353- CX -np	M.Takahashi	28
XAFS Analysis for Complex Formation of 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid and Ce(III) Ion	1999A0358- NX -np	H.Wakita	29
Local structure analysis of tantalum oxide films by Ta L-shell XAFS	1999A0364- NX -np	M.Takemura	30
EXAFS study of mechanically alloyed Y_2Ni	1999A0382- CX -np	I.Nakai	31

Studies on the formation and stracuture of highly dispersed PdO interacted with Br/nsted acid sites of zeolite by EXAFS	1999A0402-BX -np	K.Okumura	32
Local Structure of Erbium Doped Glasses Studied with XAFS Measurements II	1999A0406-BX -np	K.Haga	33
An application of the conversion electron yield technique to the higher energy XAFS measurement	1999A0413-BUX -np	M.Takahashi	34

BL02B1

Development of accessories and apparatus at BL02B1	1999A0018-NM -np	Y.Noda	35
Precursor Phenomena on the First-Order Phase Transition in a ferroelastic compound NdNbO ₄	1999A0067-CD -np	Y.Kuroiwa	36
Single Crystal Analysis of β -O ₂ of High Pressure Phase	1999A0093-CD -np	T.Shobu	37
Charge Sub-lattice Structure of RFe ₂ O ₄	1999A0120-ND -np	N.Ikeda	38
Development of Electronic Excited State Crystallography by Imaging Plate Detector	1999A0169-CD -np	Y.Ozawa	39
Crystal Structures of TCNQ derivatives / Radical Anion 1:2 mixed Salts	1999A0196-ND -np	Y.Kai	40
Crystal Structure Analysis of Mg ₂ SiO ₄ Powder Using High-Energy and High-Resolution X-ray Beams	1999A0205-ND -np	H.Toraya	41
Precise Measurements of Lattice Parameters of γ and γ' Phases in Ni Base Alloys	1999A0211-CD -np	T.Sakon	42
Micro-Crystal Strucuture Analysis and Its Application to the Study of Photo-Induced Structural Change of the Metal Complex	1999A0214-CD -np	K.Toriumi	43
Lattice modulation and charge ordering in the superconducting La _{1.885} Sr _{0.115} CuO ₄	1999A0234-CD -np	H.Kimura	44
Study of the critical diffuse scattering of (P(CH ₃) ₄) ₂ CoBr ₄	1999A0235-ND -np	Y.Noda	45
Stress analysis of processed Si chip	1999A0254-ND -np	Y.Mori	46
Crystal Structure Analyses of Bovine Rhodopsin	1999A0264-ND -np	T.Okada	47

Crystal Structure of Low-Temperature Twinned Phase in Rb_2ZnBr_4 and K_2ZnCl_4	1999A0296- CD -np	H.Shigematsu	48
Precise Crystal Structure Analysis of $\text{K}_3\text{H}(\text{SO}_4)_2$ by High Energy X-ray Diffraction Method	1999A0299- CD -np	H.Kasatani	49
Accurate Electron Density Measurement in Rare-Earth Complexes with SR and Vacuum Camera	1999A0334- ND -np	K.Tanaka	50
Temperature dependence of the crystalline and magnetic structure of Er thin films	1999A0365- ND -np	Y.Tanaka	51
Structure refinements of a FeTiO_3 ilmenite single crystal at high pressure using hard x-rays of 30keV	1999A0369- ND -np	T.Hattori	52
Development of Power Diffractometry Suitable for the Maximum Entropy Method	1999A0376- ND -np	M.Sakata	53
Co-existence of Two-Wavelength Fluctuations in Lead Scandium Niobate	1999A0378- ND -np	N.Takesue	54
Lattice Modulation and Charge Ordering Associated with the Spin Ordering in CeP	1999A0398- BD -np	Y.Noda	55
Accurate Electron Density Measurement in Rare-Earth Complexes with SR and Vacuum Camera.	1999A0405- BD -np	K.Tanaka	56

BL04B1

In Situ Observation of Cotunnite-type ZrO_2	1999A0004- CD -np	O.Ohtaka	57
In-situ X-ray diffraction study of crystallization process of Nd-Fe-B amorphous alloys under high pressure	1999A0070- CD -np	S.Hirosawa	58
The Structural Change near the Semiconductor-Metal Transition in Arsenic Chalcogenides	1999A0073- CD -np	H.Endo	59
Density dependent structural changes in supercritical sulphur	1999A0078- ND -np	S.Hosokawa	60
X-ray Diffraction Measurements for Expanded Fluid Mercury	1999A0099- CD -np	K.Tamura	61
The equation of state experiments of dry wadsleyite, Mg_2SiO_4 and hydrous wadsleyite, $\text{Mg}_{1.75}\text{SiO}_4\text{H}_{0.5}$ under the condition of the mantle transition zone	1999A0101- CD -np	T.Inoue	62
Spinel-postspinel phase transition boundary in a pyrolite composition determined by in situ X-ray diffraction at high pressure and high temperature	1999A0102- CD -np	T.Irifuji	63

Structure of liquid phosphorus under high pressure	1999A0122-ND -np	T.Mizutani	64
In situ x-ray diffraction study of graphite-diamond transition without catalysts under high pressures	1999A0134-ND -np	W.Utsumi	65
In situ observation of pressure-induced amorphization in quartz	1999A0135-ND -np	W.Utsumi	66
Viscosity of basaltic silicate melt at High Pressure	1999A0137-ND -np	K.Funakoshi	67
In situ X ray Diffraction Study of High-pressure phases of SnO ₂	1999A0166-ND -np	E.Ito	68
Breakdown of Pyrope Garnet at High Pressures	1999A0218-ND -np	K.Hirose	69
High-pressure and high-temperature in situ X-ray diffraction study of garnet	1999A0272-CD -np	T.Sumita	70
Precise determination of the phase boundary between spinel and perovskite+periclase in the system Mg ₂ SiO ₄ -Fe ₂ SiO ₄	1999A0293-CD -np	T.Katsura	71
In-situ viscosity measurement of SiO ₂ melt at high pressure	1999A0294-ND -np	M.Kanzaki	72
Structure of the Fe-FeS Eutectic Melt at High Pressure	1999A0297-ND -np	S.Urakawa	73
H ₂ O effect on the rheological behavior of Py50Mj50-garnet at high pressure condition	1999A0323-ND -np	J.Ando	74
Structure of Liquid Tellurium under Pressure	1999A0330-CD -np	N.Funamori	75
In situ X-ray diffraction study on the olivine-spinel transformation kinetics of Mg ₂ SiO ₄	1999A0350-ND -np	T.Kubo	76
Structure of liquid IIIb-Te mixtures at high temperature	1999A0368-CD -np	S.Takeda	77
Structure of liquid IIIb-Te mixtures at high temperature	1999A0400-BD -np	S.Takeda	78

BL08W

Performance of Bent Crystal Monochromators for High Energy Synchrotron Radiation	1999A0090-NM -np	H.Yamaoka	79
--	------------------	-----------	----

Performance of a high-resolution Compton scattering spectrometer for heavy elements at BL08W	1999A0112-NS -np	Y.Sakurai	80
Improvement of 90° -Scattering Magnetic Compton-Profile method with High Energy X-Rays	1999A0141-CD -np	M.Seigo	81
Evaluation of complex magnetic moment in amorphous $Gd_{60}Fe_{10}Al_{30}$ by Magnetic Compton Profile measurements	1999A0143-NS -np	M.Fujio	82
First trial of coincidence measurement between Compton scattered x-rays and recoiled electrons associated with the Bormann effect.	1999A0144-ND -np	M.Toutani	83
Temperature dependence of Compton Profile in CeNi	1999A0145-NS -np	N.Hiraoka	84
Orbital distribution of Mn-3d(e_g) electrons in the layered Mn perovskite $La_{2-2x}Sr_{1+2x}Mn_2O_7$ (x=0.42)	1999A0282-ND -np	A.Koizumi	85
Magnetic Compton profiles in the intermetallic compounds $SmFe_2$ and pure Iron	1999A0351-ND -np	H.Miyagawa	86
Magnetic Compton Profiles of $CeFe_2$ and $CeRu_2$ based compounds: Phase I	1999A0371-CD -np	B.Sharma	87
X-ray fluorescence analysis of heavy elements by using $K\alpha$ lines excited by high energy X-rays	1999A0394-UL -np	I.Nakai	88
Evaluation of complex magnetic moment in amorphous $Gd_{60}Fe_{30}Al_{10}$ by Magnetic Compton Profile measurements	1999A0395-BD -np	M.Fujio	89

BL09XU

Orderde Structure in Buried Oxide Layers of SIMOX wafers	1999A0024-ND -np	T.Shimura	90
Surface Structure Analysis at Solid Liquid Interfaces : A Preliminary Study of Cu Underpotential Deposition on a Au(111) electrode in a Sulfuric Acid Solution	1999A0042-CD -np	M.Nakamura	91
Dynamical beats of the nuclear forward scattering at the Neel temperature of $^{57}FeBO_3$ single crystal	1999A0060-ND -np	T.Mitsui	92
Development of Fabry-Perot type X-ray Interferometer	1999A0153-ND -np	S.Kikuta	93
Intensity correlation with x-ray photons	1999A0154-ND -np	M.Yabashi	94
Study of X-ray parametric down-conversion	1999A0155-ND -np	Y.Yoda	95

Lattice Dynamical Studies of Low-Dimensional Materials by Nuclear Resonance Inelastic Excitation	1999A0189-ND -np	M.Seto	96
Study of Iron-Storage Protein Ferritin by using Nuclear Resonant Quasi-elastic and Inelastic Scattering	1999A0192-ND -np	Y.Maeda	97
Study of the GaAs(111)B/Ge/GaAs(111)A Structure by X-ray Diffraction	1999A0202-CD -np	S.Nakatani	98
Modulation of CTR scattering intensity under the Bragg condition	1999A0203-CD -np	W.Yashiro	99
Interface Structure Revealed by Anomalous X-Ray Diffraction	1999A0227-ND -np	M.Seto	100
Study on Site Specific Nuclear Resonant Inelastic Scattering	1999A0233-ND -np	K.Akimoto	101
In-Beam Mossbauer Study on the fast diffusion in metals and semiconductors using a conversion electron counter	1999A0238-ND -np	Y.Yoshida	102
Preliminary Study for the X-ray Standing Wave Analysis of the Electrode / Zirconia (solid state electrolyte)Interface	1999A0260-CD -np	A.Saito	103
Observation of Nuclear Excitation in ^{197}Au with an APD electron detector	1999A0266-CSD -np	S.Kishimoto	104
Development of X-ray Timing detectors using multi-element APDs	1999A0267-NMD -np	S.Kishimoto	105
Inelastic X-ray nuclear resonant scattering of ^{57}Fe fine particle	1999A0386-NSD -np	I.Koyama	106
Measurement of Internal Conversion Electrons from Monatomic Layer on Surfaces	1999A0389-CSD -np	T.Okano	107
Structure analysis at solid liquid interfaces	1999A0401-BD -np	M.Nakamura	108

BL10XU

Compressibility measurements of hydrous ringwoodite	1999A0050-ND -np	H.Yusa	109
Powder X-ray diffraction Study on Solid Hydrogen	1999A0052-ND -np	H.Kawamura	110
Ruby scale and NaCl scale at low temperatures and high pressures	1999A0053-ND -np	H.Kawamura	111

High-pressure and high-temperature in-situ X-ray diffraction study of FeSiO ₃ using a resistive heated diamond anvil cell	1999A0055-ND -np	T.Nagai	112
Structure Analysis of Tetrahedral-Molecular Crystal and Amorphous at High Pressure	1999A0085-CD -np	N.Hamaya	113
Search for Crystal Structure of SnI ₄ Showing Anomaly of Superconductivity at Low Temperature and High Pressure	1999A0086-ND -np	N.Hamaya	114
Crystal Structure Analyses of Solid Oxygen High-Pressure Phases and Research for Molecular Dissociation	1999A0092-CD -np	Y.Akahama	115
Study on Simple Cubic-Simple Hexagonal Structure Transition in Phosphorus	1999A0094-ND -np	Y.Akahama	116
Study of synthetic process of lead-zirconate-titanate thick film using a new sol-gel precursor with poly vinyl butyral binder	1999A0108-NX -np	M.Ishii	117
Local Structural Analyses of Multilayers by Standing Wave XAFS Method	1999A0113-NX -np	T.Uruga	118
The Capacitance-XAFS (C-XAFS) - A first C-XAFS signal from DX center in AlGaAs -	1999A0117-NX -np	K.Takarabe	119
Electron density study of high pressure phase GaAs by MEM method	1999A0119-ND -np	N.Ishimatsu	120
Density of Liquid Selenium under High Temperature and High Pressure	1999A0123-CM -np	Y.Katayama	121
Constraction of the Laser-heated Diamond Anvil Cell System	1999A0124-NM -np	T.Watanuki	122
Electron Density Distribution Analysis of Pressure-Induced s-d Transition of Cesium by MEM	1999A0139-CD -np	Y.Ohishi	123
Optics using X-ray Refractive Lens at BL10XU	1999A0140-NM -np	Y.Ohishi	124
XANES Study of Rare-Earth Valency in CeRu ₄ P ₁₂	1999A0168-NX -np	C.Lee	125
Powder X-ray Diffraction Study of LaFeO ₃ under High Pressure up to 80 GPa	1999A0193-ND -np	S.Nasu	126
Crystal Structure of NiO under High Pressure	1999A0259-ND -np	T.Eto	127
Charge Dnsity Study of YBa ₂ Cu ₄ O ₈ under High Pressure by the Maximum Entropy Method	1999A0303-ND -np	M.Takata	128

Compression behavior of diamond	1999A0311-ND -np	A.Onodera	129
Structure of Chalcogens under High Pressure	1999A0349-CD -np	K.Nagata	130
Solid solubility relations between Mg-perovskite and Ca-perovskite under the lower mantle conditions	1999A0356-ND -np	K.Fujino	131
Polarized XAFS Studies of Local Lattice Distortions and Charge Ordering	1999A0367-NX -np	N.L.Saini	132
Structural Phase Transition of Molecular Crystals under High Pressure:X-Ray Powder Diffraction of CH ₄ and H ₂	1999A0396-UD -np	H.Kawamura	133
Direct Observation of the Pressure Induced Orbital-control in Layered-type Doped Manganites by the MEM Charge Density Study	1999A0412-UD -np	M.Takata	134
Crystal structure of Li under high pressure	1999A0418-UD -np	Y.Mori	135

BL14B1

High Pressure-High Temperature Synthesis of Perovskite BaZrS ₃	1999A0054-ND -np	H.Kawamura	136
Application of time resolved x-ray diffraction measurements to kinetic study during the SiO ₂ quartz-to-coesite transition	1999A0056-ND -np	T.Nagai	137
In situ SXS Study of Electrodeposition Process on Electrode	1999A0178-CD -np	K.Uosaki	138
Effect of uniaxial stress to lattice strain of MgO at high-pressure and high-temperature	1999A0271-CD -np	T.Sumita	139
Structural Study of Liquids under Pressure Using Angle-Dispersive X-Ray Diffraction	1999A0331-NM -np	K.Tsuji	140
XAFS for Probing the Hole Distribution among the Different Layers in Superconducting Cuprates	1999A0391-NX -np	H.Yamauchi	141

BL23SU

Production of multiply charged ion target for photoionization studies	1999A0088-CS -np	M.Oura	142
Photon Ion Collision Experiments at the SPring-8	1999A0089-CS -np	H.Yamaoka	143

BL25SU

Small MCD of nonmagnetic $\text{CeFe}_4\text{P}_{12}$ and $\text{LaFe}_4\text{P}_{12}$	1999A0044-NS -np	T.Miyahara	144
Soft X-ray Magnetic Circular Dichroism of Laves Phase Compounds	1999A0110-NS -np	M.Mizumaki	145
Study on the magnetism of amorphous Fe in RE/Fe and CoFeB	1999A0239-NS -np	Y.Fujiwara	146
Circularly-Polarized Light Photoelectron Diffraction	1999A0250-CS -np	M.Kotsugi	147
Magnetic Circular Dichroism in the Transition-Metal L2,3 Edge Regions of the DO_3 -related $(\text{Fe}_{1-x}\text{V}_x)_3\text{Al}$ and $(\text{Fe}_{1-x}\text{Mn}_x)_3\text{Al}$ Alloys	1999A0302-NS -np	K.Soda	148
Installation of a Photoemission Instrument and Test by Means of Magnetic Circular Dichroism	1999A0312-NS -np	S.Suga	149
High resolution Ce 3d-4f resonant photoemission study of heavy fermion Ce compounds	1999A0315-NS -np	A.Sekiyama	150
Soft X-ray magnetic circular dichroism of ferromagnetic Co_2TiSn	1999A0318-NS -np	S.Imada	151
Experimental investigation of magnetic microstructures in ultrathin layered systems	1999A0319-NS -np	W.Kuch	152
Studies of the electronic structure and magnetic properties of the ferromagnetic $\text{La}_4\text{Ba}_2\text{Cu}_2\text{O}_{10}$ by resonance HRPES	1999A0333-NS -np	T.Takeuchi	153
Study on the magnetism of amorphous Fe in RE/Fe and CoFeB	1999A0403-BS -np	Y.Fujiwara	154
Resonant photoemission study of diluted magnetic semiconductors $\text{Hg}_{1-x}\text{y Cd}_x\text{Mn}_y\text{Te}$	1999A0404-US -np	A.Sekiyama	155

BL27SU

Improvement in resolving power of the soft X-ray grating monochromator	1999A0048-NM -np	H.Ohashi	156
Microbeam focusing of soft X-ray undulator light using an elliptically bent mirror	1999A0049-NM -np	E.Ishiguro	157
Determination of photon-beam axis at BL27SU	1999A0058-NM -np	T.Tanaka	158

Performance Test of a Reflectron-Type Mass Spectrometer for Soft X-ray Photochemistry	1999A0209-CM -np	H.Yoshida	159
Preparation and Etching of Oxide Thin Films	1999A0236-NM -np	M.Shimizu	160
Performance Test of a Resonant Auger Electron Spectrometer for Atoms and Molecules	1999A0320-CM -np	I.H.Suzuki	161
Properties of Titanium/3C-SiC(100) Interfaces Exposed to Soft X-ray from Synchrotron Radiation	1999A0084-NOM -np	M.Hirai	162
Performance Test and Preliminary SiO ₂ Etching Experiment in BL27SU Soft X-ray CVD Station	1999A0273-NOM -np	O.Maida	163
Performance Test and Preliminary Experiment in BL27SU Soft X-ray CVD Station	1999A0274-NM -np	O.Maida	164

BL39XU

Detection of 10 ⁻¹⁴ g order trace metals in a droplet	1999A0015-CS -np	K.Sakurai	165
X-ray fluorescence spectrometer for trace chemical characterization	1999A0016-NM -np	K.Sakurai	166
First q-scan magnetic scattering experiment at BL-39XU	1999A0026-ND -np	N.Ishimatsu	167
Full polarization measurements of alternating circularly polarized x-rays	1999A0062-NM -np	M.Suzuki	168
Crystal Orientation Dependence of Spin Polarization on Cu in Single Crystal Co/Cu Multilayers by MCD Method.	1999A0087-NS -np	J.Mizuki	169
Dependence of XMCD hysteresis on the thickness of Fe in Gd/Fe multilayer	1999A0142-NS -np	M.Takagaki	170
Chemical state analysis of the transition elements in meteorites by μ -XANES spectra	1999A0150-NOX -np	I.Nakai	171
X-Ray Resonant Emission Spectroscopy in garnet-type ferrites R ₃ Fe ₅ O ₁₂ (R=Gd and Ho)	1999A0171-CD -np	N.Kawamura	172
Time-Serial Measurement of X-Ray Intensity and Fractal Analysis	1999A0172-NS -np	H.Maruyama	173
XMCD Spectrum at Mn K-Edge in Mn ₃ MC (M=Nn,Ga and Sn) Perovskite	1999A0173-NS -np	H.Maruyama	174
New technique for enhancement of X-ray fluorescence hologram	1999A0183-ND -np	K.Hayashi	175

Temperture Dependence of Orbital Magnetic Moment of Ho in Holmium Iron Garnet	1999A0188-ND -np	M.Ito	176
X-Ray Fluorescence Tomography with a Wolter Mirror X-Ray Microscope	1999A0220-NM -np	N.Watanabe	177
Development of a Polarized XAFS method for the Solution Surface Study	1999A0247-NM -np	I.Watanabe	178
Trace element analysis of calcareous skelton in Anthozoa	1999A0253-NS -np	N.Haga	179
Study of Local Magnetic Structure of Ni-Mn alloys by Magnetic XSFS	1999A0280-NX -np	T.Miyanaga	180
X-ray Fluorescence analyses of in the elements associated to the pearl formation in the pearl oyster	1999A0327-NXSS-np	C.Numako	181
High resolution X-ray fluorescence spectroscopy and trace element characteizaiton using an x-ray microprobe	1999A0363-NM -np	S.Hayakawa	182
Fe K-edge XMCD STUDY IN R_6Fe_{23} COMPOUNDS NEAR COMPENSATION TEMPERATURE.	1999A0388-NX -np	J.Chaboy	183
Preliminary Experimental Results of μ -XAFS Spectroscopy of A Single Brain Cell from Patients with Parkinson's Disease	1999A0390-CL -np	K.Takada	184

BL41XU

X-ray crystal structure analysis of cathepsin B-noncovalent-type inhibitor complex	1999A0007-NL -np	K.Tomoo	185
X-Ray crystal structure analysis of full-length human initiation factor 4E	1999A0008-NL -np	T.Ishida	186
High resolution date collection for colicin E7 and malic enzyme	1999A0013-NL -np	W.Yang	187
Crystal Structure Analyses of Allergens Der p 5, Blo t 5, and BG60 by MIR-MAD methods	1999A0025-NL -np	S.Liaw	188
Structure and function of photosystem I complexes	1999A0027-CL -np	K.Satoh	189
Crystal structure analysis of FMN binding protein at atomic resolution	1999A0034-NL -np	K.Suto	190
Crystallographic Study of Mitochondrial Import Stimulating Factor (MSF).	1999A0037-NL -np	Y.Morimoto	191
Crystallographic study of the archaeal clamp loader small subunit	1999A0057-CL -np	T.Oyama	192

Crystallographic Study of Tryptophan synthase from E.coli	1999A0061-NL -np	Y.Morimoto	193
Preliminary X-ray diffraction study of prostaglandin D synthase	1999A0064-NLNL-np	H.Sakai	194
X-ray diffraction data collection of the crystal of importin β mutant at BL41XU	1999A0065-NL -np	S.Lee	195
X-Ray Crystallographic Study of D-Amino Acid Oxidase	1999A0075-NL -np	I.Miyahara	196
X-Ray Crystallographic Study of Thermostable Aspartate Aminotransferase	1999A0076-CL -np	K.Hirotsu	197
Crystallographic characterization of Pap1-DNA complex	1999A0081-NL -np	Y.Fujii	198
X-ray Crystallographic Studies of Human VHR and Antibiotics RK Complexes	1999A0111-NL -np	M.Kawamoto	199
X-ray Crystal Structure Analysis of Photo-Activated Nitrite Hydratase	1999A0129-NL -np	Y.Kawano	200
Establishment of Automated Beamline Alignment Method at BL41XU	1999A0131-NL -np	M.Kawamoto	201
Test for the On-line IP Reader of MIROAS diffractometer	1999A0132-NL -np	Y.Kawano	202
Usefulness of High-Energy X-rays for Protein Crystallography	1999A0133-NL -np	N.Kamiya	203
Crystal Structure Analysis of Oxygen-Evolving Photosystem II Complex	1999A0138-NL -np	J.Shen	204
High Resolution X-ray Crystallographic Analysis of Cytochrome bc ₁ complex	1999A0148-NL -np	K.Itoh	205
X-ray crystallographic analysis of bovine heart cytochrome c oxidase in the respiratory inhibitor-bound state.	1999A0149-NL -np	K.Muramoto	206
X-ray Crystal Structure Analysis of Each Reaction Step of Dehalogenase Enzyme	1999A0160-NL -np	T.Fujii	207
Molecular and Crystal Structures of <i>Thermoactinomyces vulgaris</i> R-47 α -amylases	1999A0170-NL -np	S.Kamitori	208
X-ray Crystallography of Ultra-thin Membrane Protein Crystals	1999A0175-NL -np	C.Toyoshima	209
Native Data Collection for structural analysis of Phosphoenolpyruvate Carboxylase from Maize	1999A0197-NL -np	Y.Kai	210

X-ray Date Collection from Native and Heavy-atom Derivative Crystals of High-Alkaline Pectate Lyase	1999A0206-NL -np	M.Akita	211
X-ray Crystallographic Study of Bacteriorhodopsin Intermediates	1999A0207-NL -np	T.Kouyama	212
X-ray Structural Analyses for a Series of Mutant Human Lysozymes	1999A0210-CL -np	K.Takano	213
High Resolution X-Ray Crystal Structure Analyses of Cytochrome c Oxidase	1999A0212-CL -np	E.Yamashita	214
Crystal Structure Analyses of Human High-affinity Receptor for IgE	1999A0216-CL -np	H.Nishida	215
X-ray Crystallographic study of NfsA, a nitroreductase from Escherichia coli	1999A0217-NL -np	T.Hirai	216
X-ray crystallograpy of mutant actin	1999A0219-NL -np	Y.Matsuura	217
Protein crystallographic studies of flagellar HAP2 and F41 fragment of flagellin	1999A0222-CL -np	K.Imada	218
Fiber diffraction date collection at BL41XU with a specially designed helium chamber and collimator with a four-way guard slit -further optimization of the guard slit position-	1999A0223-CL -np	K.Hasegawa	219
Cryogenic crystal structure analysis of the Fv fragment of an antibody at an atomic resolution	1999A0240-NL -np	M.Nakasako	220
X-ray Structural Study of H ₂ -reduced [Ni-Fe] Hydrogenase	1999A0241-NL -np	H.Ogata	221
X-ray Structure Analysis of Thermophilic Enzymes for Studying Protein Thermostability	1999A0242-NL -np	R.Hirose	222
Structure of Human Low Density Lipoproteins	1999A0245-NL -np	M.W.Baumstark	223
X-ray Date Collection from Au-derivative crystal of Streptomyces antibioticus Phospholipase D	1999A0248-CL -np	A.Suzuki	224
X-ray crystallographic study of light-harvesting chorophyll protein complex (LHC-II)	1999A0256-NL -np	T.Kouyama	225
X-ray Crystallographic Study of Bacteriorhodopsin Mutants	1999A0257-NL -np	T.Kouyama	226
Studies on Structure-Function Relationship of DNA Replication Control Proteins by Means of X-ray Crystallography	1999A0262-CL -np	H.Komori	227

Mechanism of Thermostabilization of Membrane Protein on the Basis of High-Resolution Crystal Structure of Thermophilic Photosynthetic Reaction Center	1999A0263-NL -np	T.Nogi	228
X-ray Crystallographic Analysis of Japanese Pear S-RNase	1999A0268-NL -np	S.Norioka	229
Crystal Structure Analyses of Bovine Rhodopsin	1999A0269-CL -np	T.Okada	230
Structural analysis of the homing-endonuclease <i>Apel</i> from hyperthermophilic archaeobacteria <i>Aeropyrum pernix</i> by X-ray crystallography	1999A0270-NL -np	H.Ito	231
X-Ray Crystallographic Studies on DNA Repair Enzymes	1999A0285-CL -np	K.Fukuyama	232
The flexibility of protein molecule in terms of the crystallography of DHFR mutants	1999A0324-CL -np	K.Katayanagi	233
X-ray crystallographic analysis of the evolution of vertebrate hemoglobins	1999A0329-CL -np	K.Chong	234
X-ray structure analysis of tetragonal crystal of hen egg white lysozyme at 1.3 Å resolution	1999A0336-NL -np	H.Kobayashi	235
XAFS measurements of xenon derivative crystals of hen egg white lysozyme at the Xe K-edge	1999A0337-NL -np	S.Yuda	236
Crystal Structure Analysis of the complex of <i>Drosophila</i> Sxl protein and its target RNA	1999A0339-CL -np	O.Nureki	237
Crystal Structure Analysis of Valyl-tRNA Synthetase in a complex with tRNA ^{Val}	1999A0340-CL -np	O.Nureki	238
X-ray crystallography of antibiotics and its target aminoacyl-tRNA synthetase for drug design	1999A0341-NL -np	O.Nureki	239
X-ray crystallography of <i>T. thermophilus</i> Arginyl-tRNA synthetase complexed with its substrates	1999A0342-NL -np	O.Nureki	240
Crystal structure analysis at 2.5 Å resolution of 20S proteasome from bovine liver	1999A0377-NL -np	M.Unno	241
X-Ray Crystallographic Analysis of Heme-Hemeoxygenase Complex	1999A0393-UL -np	K.Fukuyama	242
X-ray crystallographic studies of flagellar HAP2 and F41 fragment of flagellin	1999A0399-BL -np	K.Imada	243
X-ray structure determination of a fragment of a Paramyxoviridae fusion protein	1999A0408-UL -np	M.C.Lawrence	244

Availability of BL41XU for data collection from small crystals of proteins	1999A0409-BUL -np	M.Sugishima	245
Structure and function of photosystem I complexes	1999A0410-BL -np	K.Satoh	246
X-Ray Crystallographic Study of Ribulose 1,5-Bisphosphate Carboxylase/Oxygenase from a Red Alga, <i>Galdieria Partita</i> , with High Specificity Factor	1999A0411-BL -np	Y.Kai	247
Structure of diol dehydratase containing vitamin B ₁₂ analogue	1999A0036-CL -np	N.Shibata	248

BL44B2

Nanocrystallization for Single Molecular Detection using X-rays	1999A0071-CL -np	Y.Sasaki	249
X-ray Crystallographic study of bacteriorhodopsin's reaction intermediates by the time-resolved Laue method	1999A0208-NL -np	T.Kouyama	250
The X-ray structures of hemoglobins from the animals around the branching point of vertebrate and invertebrate	1999A0328-CL -np	K.Chong	251

BL45XU

Analyses of Protein Folding by Stopped-Flow X-ray Solution Scattering	1999A0021-NL -np	M.Hoshino	252
An X-ray Diffraction Study on Rat Cardiac Muscles	1999A0028-CL -np	H.Suga	253
An X-ray Diffraction Study of Skeletal Muscle during Unloaded Shortening	1999A0041-NL -np	N.Yagi	254
X-ray Diffraction Pattern Recorded from an Array of Single Muscle Fibers from Rabbit Skeletal Muscle	1999A0096-CL -np	H.Iwamoto	255
Effect of a sudden reduction of length on the level of thin filament activation in frog muscle as examined by X-ray diffraction	1999A0097-NL -np	H.Iwamoto	256
Preliminary experiment for the recording of X-ray diffraction pattern from small-size muscle specimens	1999A0098-NL -np	H.Iwamoto	257
Effects of ADP on the Conformation of Myosin Heads	1999A0107-NL -np	K.Horiuti	258
X-ray fiber diffraction experiment from well oriented sols of muscular Native Thin Filament and F-actin.	1999A0186-NL -np	K.Makino	259

Structure and photoreaction of chimeric bacteriorhodopsin	1999A0232- NL -np	M.Kataoka	260
Dynamics of the Concentration Fluctuation in Diblock Copolymers Induced by Pressure Jump	1999A0249- ND -np	M.Takenaka	261
X-ray diffraction study on skinned fibers in the absence of certain proteins.	1999A0289- NL -np	S.Takemori	262
The Stability of Solution Structure and the Light-Induced Coformation Changes in Photoactive Yellow Protein (PYP)	1999A0346- CD -np	N.Hamada	263
Structural analysis during the photocycle of bacteriorhodopsin revealed by time resolved X-ray diffraction	1999A0347- CL -np	T.Oka	264

BL46XU

Measurement of Gas Bremsstrahlung and Associated Photo-neutron at the SPring-8 Insertion Device Beamline	1999A0020- NOM -np	Y.Asano	265
--	-----------------------	---------	-----

BL47XU

Test of X-ray Interferometers for High-Resolution Phase-Contrast X-ray Tomography	1999A0079- NOM -np	K.Hirano	266
Operation of Separated-Type X-ray Interferometer at SPring-8	1999A0080- NOM -np	A.Momose	267
Hard X-ray Microbeam Experiments at the SPring-8 BL-47XU : Measurements of Heat Load, Radiation Damage and Light Collecting Efficiency of the Fresnel Zone Plate	1999A0091- NM -np	N.Kamijo	268
X-ray Focusing and X-ray Imaging Test By a Micro Capillary X-ray Lens at BL47XU	1999A0147- CM -np	Y.Kohmura	269
Development of micro-area X-ray diffraction method with micro-pinholes	1999A0176- ND -np	M.Ohmasa	270
Development of X-ray CT system for rocks and minerals	1999A0243- NM -np	A.Tsuchiyama	271
Diffraction focusing elements for energys higher than 10 keV.	1999A0244- NM -np	A.A.Firsov	272
Refraction-enhanced imaging of rat lung	1999A0321- CL -np	K.Yamasaki	273
Metal Refractive Collimators for Synchrotron Radiation	1999A0344- NM -np	A.Q.Baron	274