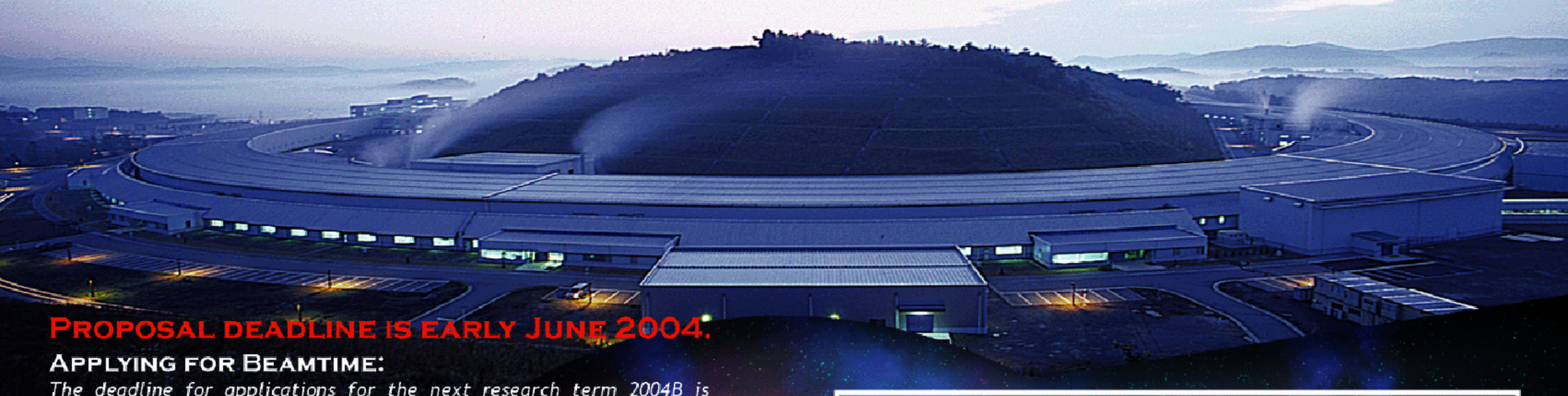


Proposal deadline is early June 2004.

Applying for Beamtime:

The deadline for applications for the next research term 2004B is scheduled for June 2004. Currently some of the beamlines (BL38B1, BL41XU) are accepting applications for the reserved beamtime. Please visit our Web site for details.

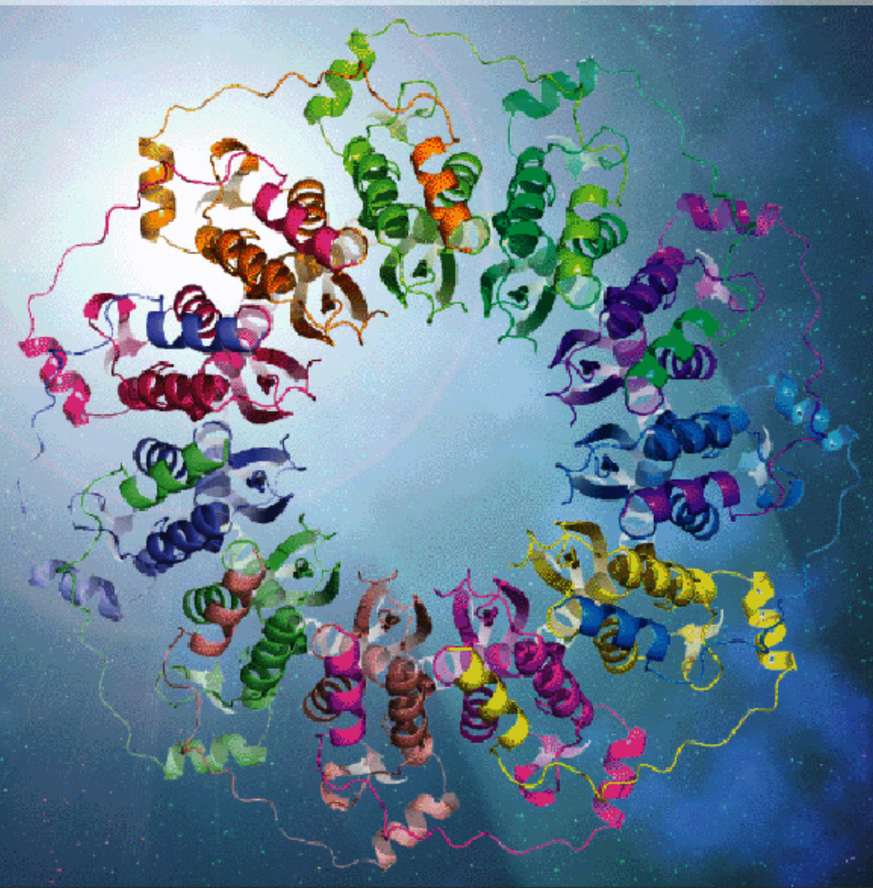
Beamlines at SPring-8

BL01B1	XAFS
BL02B1	Single Crystal Structure Analysis
BL02B2	Powder Diffraction
BL04B1	High Temperature and High Pressure Research
BL04B2	High Energy X-ray Diffraction
BL05SS	Accelerator Beam Diagnosis
BL08W	High Energy Inelastic Scattering
BL09XU	Nuclear Resonant Scattering
BL10XU	High Pressure Research
BL11XU	JAERI Materials Science II
BL12XU	NSRRC ID
BL12B2	NSRRC BM
BL13XU	Surface and Interface Structures
BL14B1	JAERI Materials Science I
BL15XU	WEBRAM
BL16XU	Industrial Consortium ID (SUNBEAM-ID)
BL16B2	Industrial Consortium BM (SUNBEAM-BM)
BL17SU	RIKEN Coherent Soft X-ray Spectroscopy
BL19LXU	RIKEN SR Physics
BL19B2	Engineering Science Research
BL20XU	Medical and Imaging II
BL20B2	Medical and Imaging I
BL22XU	JAERI Actinide Science II
BL23SU	JAERI Actinide Science I
BL24XU	Hyogo
BL25SU	Soft X-ray Spectroscopy of Solid
BL26B1	RIKEN Structural Genomics I
BL26B2	RIKEN Structural Genomics II
BL27SU	Soft X-ray Photochemistry
BL28B2	White Beam X-ray Diffraction
BL29XU	RIKEN Coherent X-ray Optics
BL32B2	Pharmaceutical Industry
BL33LEP	Laser-Electron Photon
BL35XU	High Resolution Inelastic Scattering
BL37XU	Trace Element Analysis
BL38B1	R&D (3)
BL38B2	Accelerator Beam Diagnosis
BL39XU	Magnetic Materials
BL40XU	High Flux
BL40B2	Structural Biology II
BL41XU	Structural Biology I
BL43IR	Infrared Materials Science
BL44XU	Macromolecular Assemblies
BL44B2	RIKEN Structural Biology II
BL45XU	**RIKEN Structural Biology I**
BL46XU	R&D (2)
BL47XU	R&D (1)

BSR 2004:

The 8th International Conference on Biology and Synchrotron Radiation, BSR2004, will be held at the Egret Himeji, Himeji, Hyogo, Japan from 7th to 11th September 2004. For more information, please visit http://bsr2004.spring8.or.jp

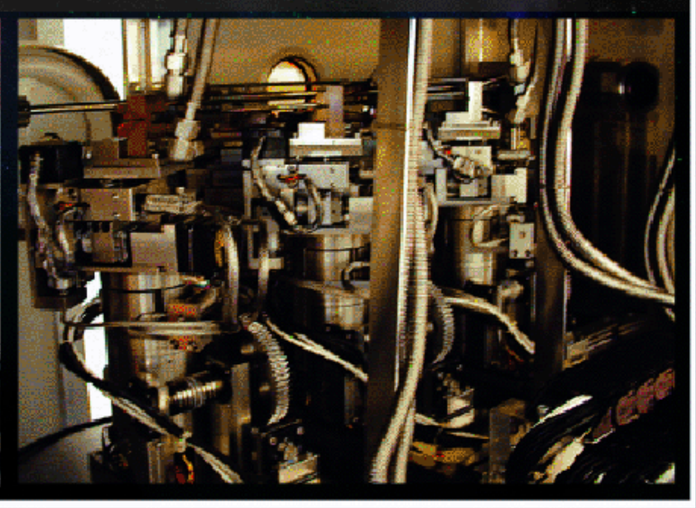
The RIKEN Structural Biology I Beamline BL45XU is designed for the research on structural biology. The beamline has two experimental stations: one for protein crystallography (PX) and the other for small-angle X-ray scattering(SAXS) and both stations can be operated simultaneously with two serially arranged vertical undulators and a beam splitter (transparent diamond monochromator). In the protein crystallography station, the trichromatic concept has been developed and applied in order to optimize the multiwavelength anomalous diffraction (MAD) method. A coaxial three-colored beam can be introduced to a specimen by the tandem undulators and the trichromator (triad monochromator).



Crystal structure of the human Rad52$_{1-212}$ protein

Dr. Shigeyuki Yokoyama, chief scientist of the RIKEN Harima Institute at SPring-8, and his collaborative research group determined the crystal structure of the human Rad52$_{1-212}$ protein, which plays a central role in DNA recombinational repair, using the RIKEN Structural Biology I Beamline BL45XU at SPring-8. They analyzed the structure and obtained important insights into the molecular mechanism of DNA recombinational repair.

Trichromator (triad monochromator) installed at the RIKEN Structural Biology I Beamline BL45XU



SPring-8

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