

BEAMLINES

At SPring-8, many new beamlines are currently under construction. In addition, several proposals for new beamlines are being considered.

Beamlines at the SPring-8 facility are categorized into three types:

- Public beamlines constructed by SPring-8 and open to public use. This category includes R&D beamlines that were categorized differently in the previous Research Frontiers.
- JAERI/RIKEN beamlines constructed by JAERI/RIKEN for their exclusive use.
- Contract beamlines constructed by the private groups for their exclusive use.

At the end of 1999, fifteen public beamlines were available for public use:

BL01B1	XAFS
BL02B1	Crystal Structure Analysis
BL02B2	Powder Diffraction
BL04B1	High-Temperature Research
BL04B2	High Energy Monochromatic X-ray Studies
BL08W	High Energy Inelastic Scattering
BL09XU	Nuclear Resonant Scattering
BL10XU	Extremely Dense State Research
BL20B2	Medical and Imaging Application
BL25SU	Soft X-ray Spectroscopy of Solids
BL27SU	Soft X-ray Photochemistry
BL28B2	White Beam Topography
BL39XU	Physicochemical Analysis
BL40B2	Structural Biology II
BL41XU	Structural Biology I
BL46XU	R&D (2)
BL47XU	R&D (1)

As of 1999, the following beamlines are nearly completed and will soon be ready for public use:

BL20XU	Medical Use (Research and Development)
BL35XU	High-Energy Resolution Inelastic Scattering
BL38B1	R&D (3)
BL40XU	High-flux Undulator Beamline
BL43IR	Infrared Studies

Of these, BL38B1, BL40XU and BL43IR will be commissioned in April, 2000 including some trial public use. BL20XU and BL35XU will follow those two beamlines.

Seven beamlines have been constructed/are under construction for their exclusive use by JAERI and RIKEN scientists:

BL11XU	Materials Science (JAERI)
BL14B1	Materials Science (JAERI)
BL19IS	Synchrotron Radiation Physics Studies (RIKEN)
BL23SU	Actinide Studies by Soft X-rays (JAERI)
BL29XU	Coherent X-ray Optics (RIKEN)
BL44B2	Structural Biology II (RIKEN)
BL45XU	Structural Biology I (RIKEN)

BL19IS is a 30 m-long straight section beamlines and the installation of long undulators will be performed after rearrangement of storage ring magnets in summer, 2000. BL29XU was completed as a beamline with a standard length of 80 m. However, the extension outside of the storage ring building to 1 km is scheduled for completion in March, 2000.

The following eight contract beamlines are operation or under construction at SPring-8:

BL12IN	APCST ID beamline (Taiwan)
BL12B2	APCST BM beamline (Taiwan)
BL15IN	Materials Science (National Institute for Research in Inorganic Materials)
BL16XU	Materials Science (Industrial Consortium)
BL16B2	Materials Science (Industrial Consortium)
BL24XU	Multi-purpose (Hyogo Prefecture)
BL33LEP	Laser Electron Photon Studies (Osaka University)
BL44XU	Macromolecular Assemblies (Osaka University)

All of the beamlines are indicated on the [Beamline Map](#). Two beamlines are to be constructed within FY 2000 - BL13XU for surface science and BL19B2 for R&D for industrial use. These beamlines are not included in the Map.

Tatzuo Ueki
SPring-8/JASRI