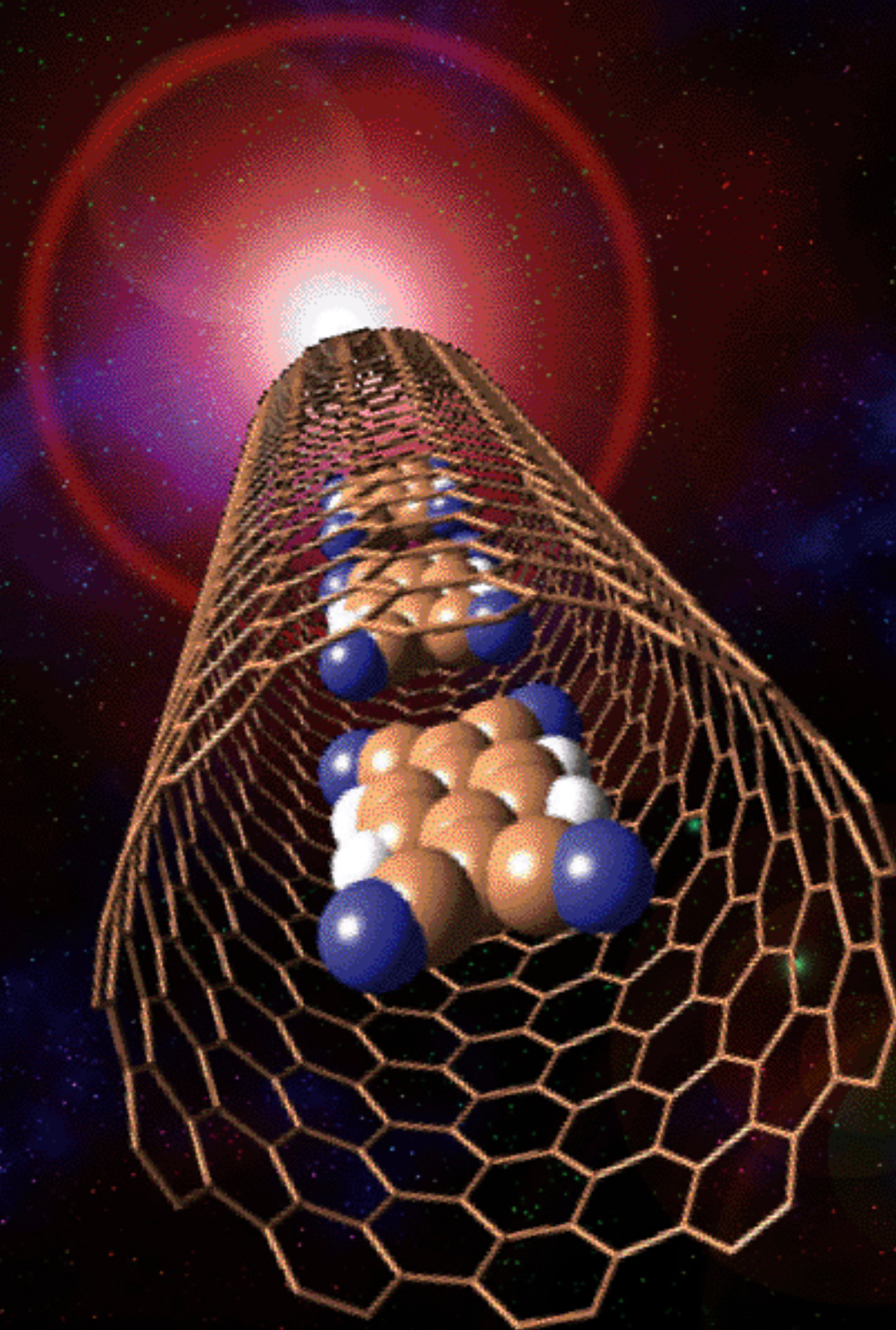




## Beamlines at SPring-8

BL01B1	XAFS
BL02B1	Single Crystal Structure Analysis
<b>BL02B2</b>	<b>Powder Diffraction</b>
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)

The Powder Diffraction Beamline BL02B2 is designed for accurate structure analyses of powder specimens in the area of materials science. A large Debye-Scherrer camera with two-axis is available at the experimental hutch. The beamline allows powder diffraction data collection with a high angular resolution and with high counting statistics, which contributes to the high accuracy of crystal structure analysis.



### STRUCTURAL MODEL OF SINGLE WALLED CARBON NANOTUBE ENCAPSULATING ORGANIC MOLECULES INSIDE

Prof. Yoshihiro Iwasa, Tohoku University, and his collaborative research group analyzed the structure of Single Walled Carbon Nanotubes (SWNTs) encapsulating organic molecules inside using the SPring-8 Powder Diffraction Beamline and succeeded in controlling the electric conductivity of SWNTs.

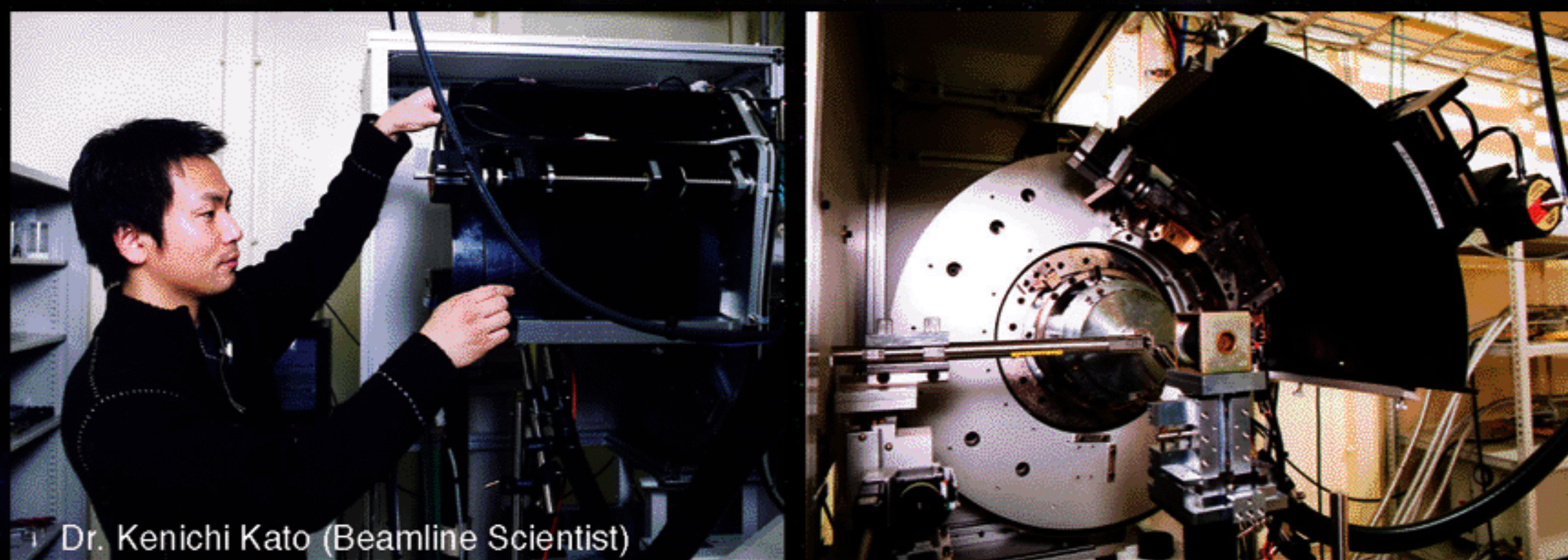
### LARGE DEBYE-SCHERRER CAMERA INSTALLED AT THE POWDER DIFFRACTION BEAMLINE BL02B2

#### APPLYING FOR BEAMTIME:

The deadline for applications for the next beamtime 2004B is scheduled for June 2004. Currently some of the beamlines (BL40B2, BL38B1, BL41XU) are accepting applications for the reserved beamtime. Please visit our Web site for details.

#### 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>



Dr. Kenichi Kato (Beamline Scientist)