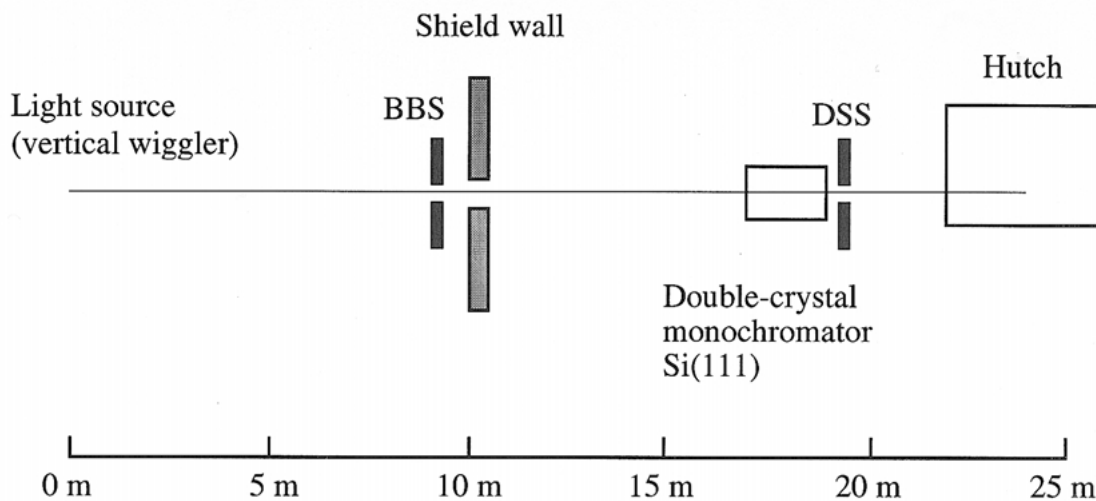


BL-14B Monochromatic X-ray station

This station provides monochromatic X-rays polarized in the vertical plane. The white and vertically-polarized beam radiated by a superconducting vertical wiggler is monochromatized by a fixed-exit double-crystal monochromator. The available energy range is between 10 keV and 60 keV. This station is used for various types of X-ray diffraction/scattering experiments.



SCHEMATIC VIEW OF THE BEAMLINE

Area of Research

X-ray diffraction/scattering

Light Source

Superconducting vertical wiggler

Optics

Fixed-exit double-crystal monochromator

Photons at sample

Energy range: 10-60 keV
 Energy resolution: 10^{-4} ($\Delta E/E$)
 Beam size: 7 mm(H) \times 15 mm(V)
 Photon flux: 10^{11} photons/s (max)

Facilities in Experimental Station

Two high-precision goniometers with encoders

References

1. M. Ando et al., Nucl. Instr. Methods Phys. Res. A, A246, 144 (1986).
2. K. Nakayama et al., in : *X-ray Instrumentation for the Photon Factory : Dynamical Analysis of Micro Structures in Matter*, eds. S. Hosoya, Y. Iitaka and H. Hashizume (1986) pp.269-274 (KTK Scientific Publishers, Tokyo).

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