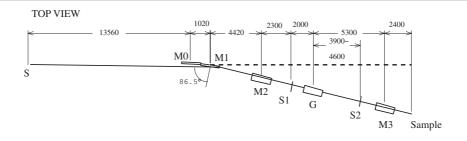
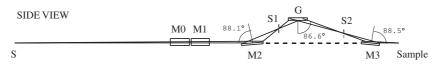
# BL-13C Soft X-Ray 50m-CGM Station

This beamline provides soft X-rays in the energy range between 70 and 1000 eV from a multipole wiggler/undulator MPW#13 source. Users can change the undulator gap at any time during the experiments.





### SCHEMATIC VIEW OF THE BEAMLINE

#### Area of Research

Soft X-ray spectroscopy (absorption, photoelectron) of solids and surfaces

# **Light Source**

Type: Multipole wiggler/undulator MPW#13

 $\lambda u$ : 18 cm  $N_period$ : 13

Tunable Energy Range: 70-1000 eV

## **Optics**

Cylindrical grating monochromator (CGM) with one plain mirror and three cylindrical mirrors

## Photons at sample

Energy Range: 70-500 eV (350 l/mm) or

150-1000 eV (750 l/mm)

Energy Resolution :  $E/\Delta E = 1000 \sim 6000$ 

Photon Flux : Ca.  $10^{10}$  photons/s at hv =

400 eV and E/ $\Delta$ E = 6000, Ca. 10<sup>12</sup> photons/s at hv =

400 eV and  $E/\Delta E = 1000$ 

Beam Size: Ca. 5 mm (H) x 1 mm (V)

## **Facilities in Experimental Station**

Personal computer for monochromator control [NEC PC9801]

#### Remarks

BL-13C was constructed by PF and NIMC (National Institute of Materials and Chemical Research). An XPS apparatus (ULVAC-PHI) of NIMC is usually connected to the beamline. Some vacuum chambers of PF or users can be connected also. Please make a contact with the person in charge for each apparatus. The beam height is 1.2 m. Beam time is shared with another branches BL-13A and BL-13B.

# References

1. N. Matsubayashi et al., Rev. Sci. Instrum. 63 (1992) 1363.

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