The beamline 18A has been dedicated to the photoemission experiments to investigate the electronic structures of surfaces and interfaces of metals, semiconductors and various atoms and molecules adsorbed on metal and semiconductor surfaces. The beamline is equipped with a constant deviation angle grazing incidence monochromator and a commercial angle-resolved photoemission spectrometer (VG ADES 500).

**Area of Research**

Angle-resolved and angle-integrated photoelectron spectroscopy studies of solids, surfaces and interfaces

**Light Source**

Type: Bending Magnet

**Optics**

Grazing incidence spherical grating monochromator

**Photons at sample**

Energy range: 10~170eV
Energy resolution: 1000~2000(E/ΔE)
Photon flux: 10^9~10^10/(s)
Beam size: <1φ

**Facilities in Experimental Station**

VG ADES500 photoemission spectrometer made by m-metal chamber (~10^-11mbar)
Angle-resolved photoelectron spectrometer (E/ΔE~100 Δφ~1°)
CLAM analyzer for angle-integrated photoelectron spectroscopy
LEED, X-ray tube, He discharge lamp, Sputter ion gun
Sample manipulator, Computer controlled data acquisition system
Evaporators, Gas inlet system

**Reference**


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