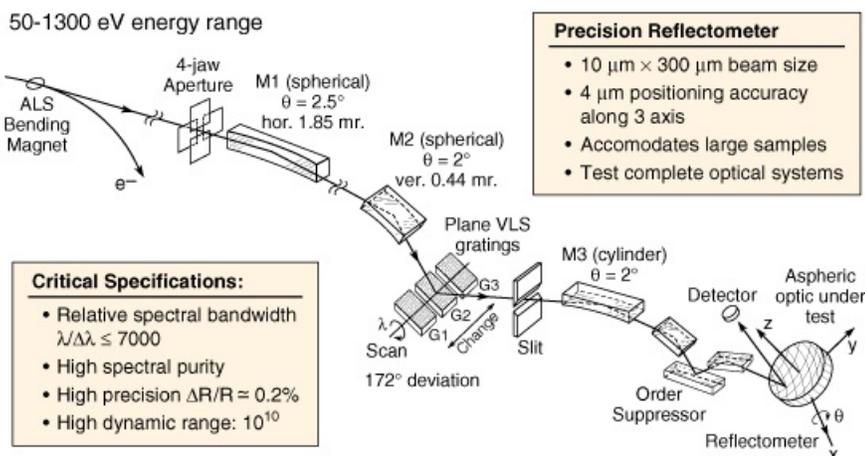


# Beamline 6.3.2: EUV and Soft X-Ray Reflectometry and Scattering

[Printer-friendly version](#) [PDF version](#)



Beamline 6.3.2 is a PRT-owned bend magnet beamline dedicated to EUV and soft x-ray reflectometry and scattering. The beamline, in operation since February 1995, is designed for high spectral purity and wavelength accuracy. Owned by the Berkeley Labs Center for X-ray Optics, the beamline is used for the characterization of optical components and reflective coatings for a variety of applications including EUV lithography.

High spectral resolution is obtained using a variable-line spaced plane grating monochromator. The monochromator, designed and constructed by the Center for X-ray Optics, uses no entrance slit and a fixed exit slit. The light is focused onto the sample by the first horizontally deflecting mirror and a bendable refocusing mirror downstream from the monochromator. High spectral purity is achieved using a combination of filters and a triple mirror "order-suppressor".

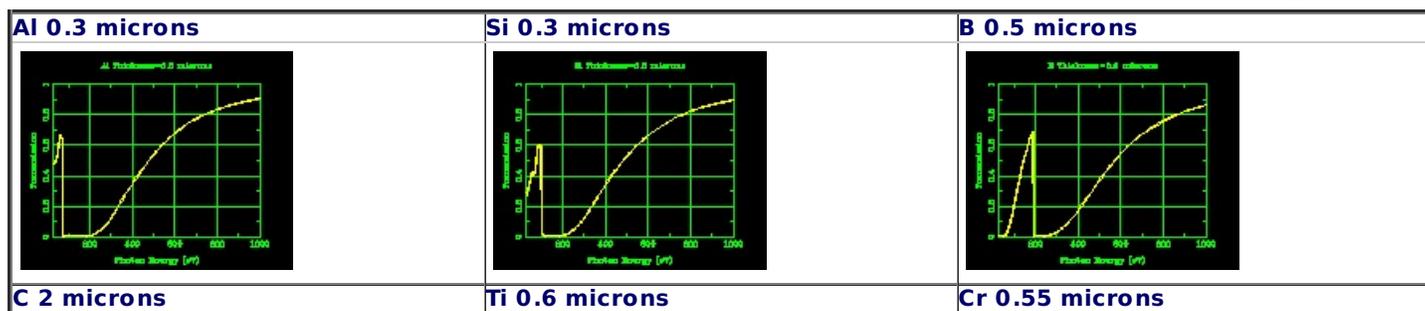
A permanent reflectometer end-station is available. A sample may be positioned in three dimensions to a precision of 4 microns. Samples of up to 8 inches in diameter may be accomodated. An array of detectors including a photodiode, channeltron and CCD camera are mounted on a rotating arm. Space is available for additional endstations downstream from the reflectometer.

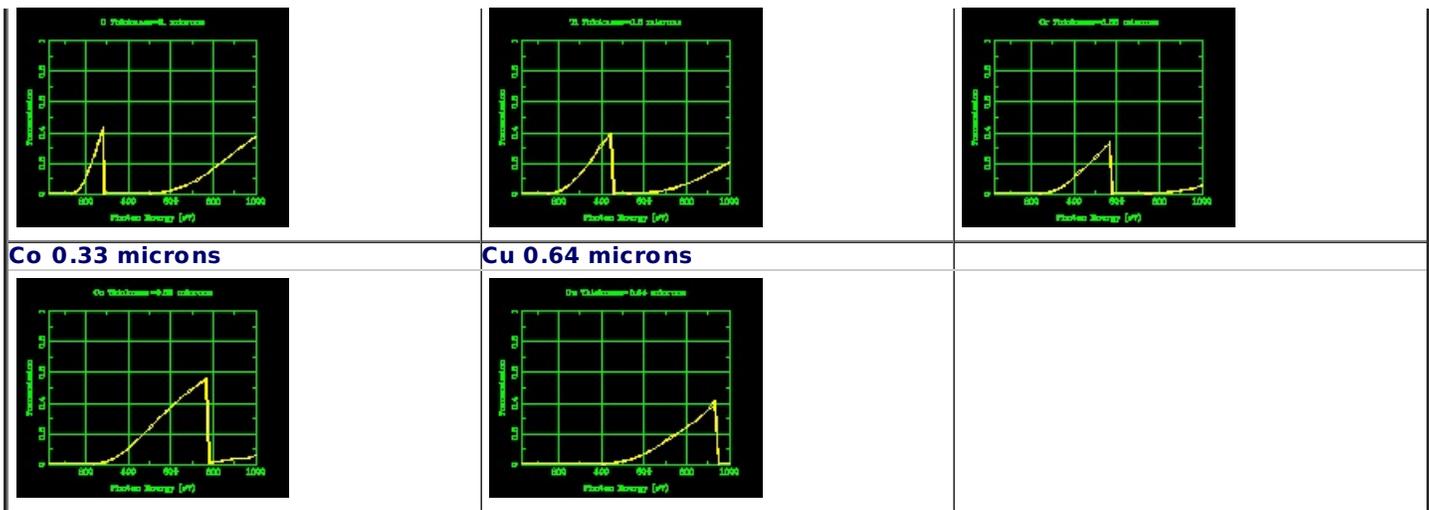
For more information on beamline 6.3.2, please contact: [EMGullikson\[at\]lbl\[dot\]gov](mailto:EMGullikson[at]lbl[dot]gov)

View the [beamline schedule in an Excel spreadsheet](#).

## Beamline 6.3.2 Filters

[Printer-friendly version](#) [PDF version](#)

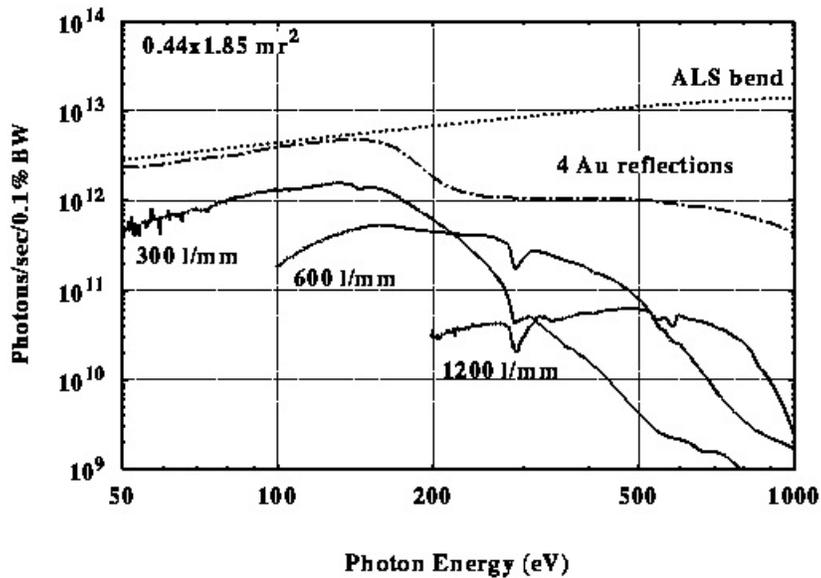




## Beamline 6.3.2 Flux

[Printer-friendly version](#) [PDF version](#)

ALS Beamline 6.3.2

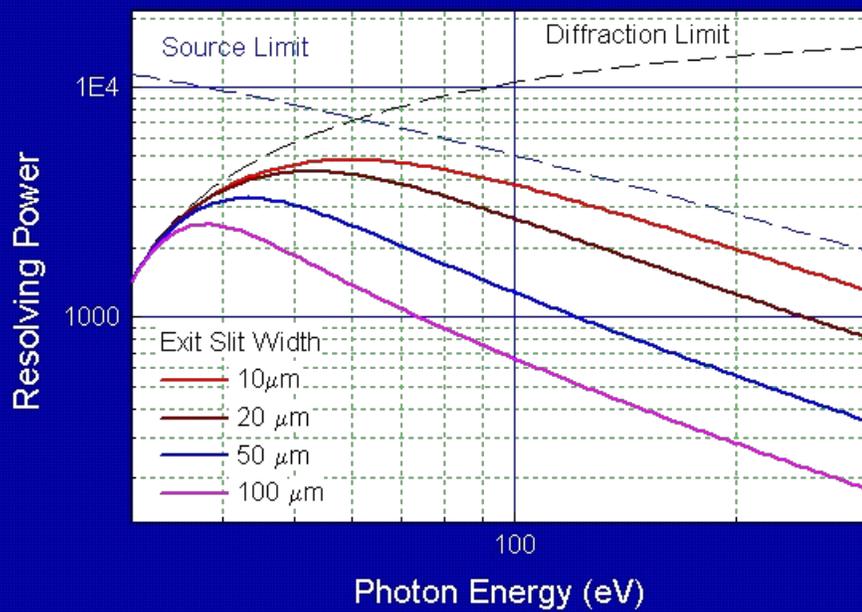


## Beamline 6.3.2 Monochromator Resolution

[Printer-friendly version](#) [PDF version](#)

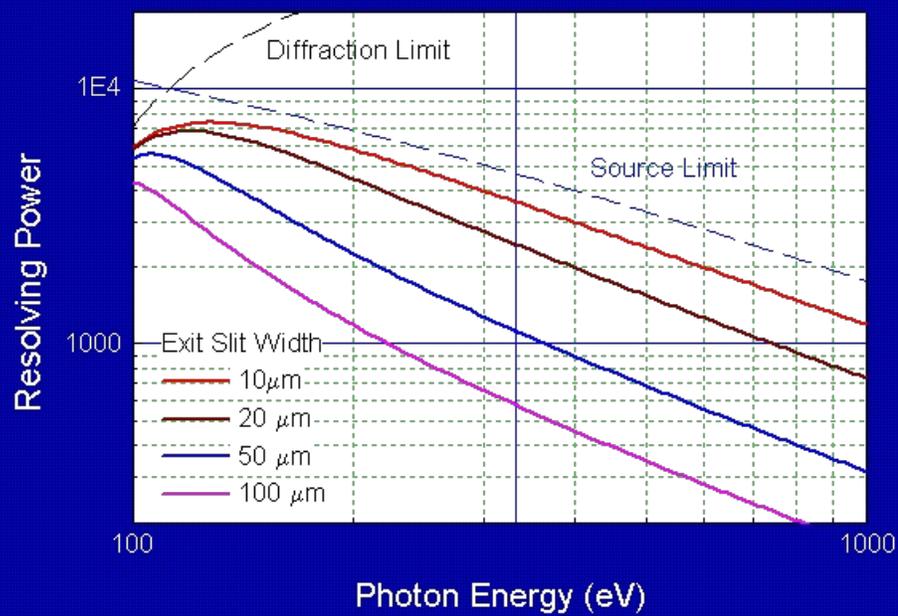
1

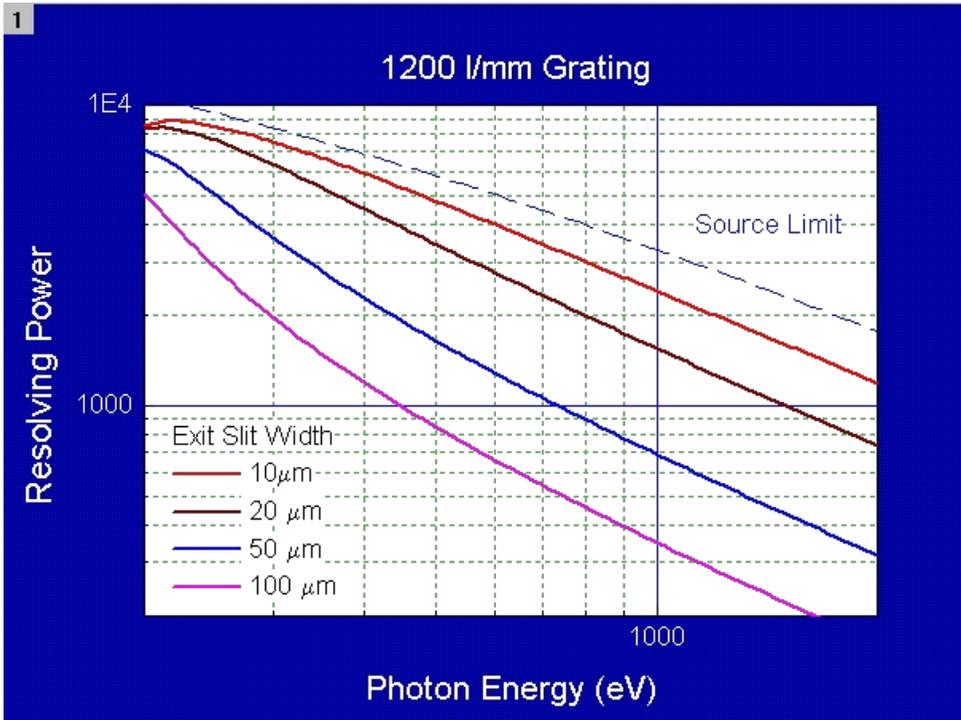
### 200 l/mm Grating



1

### 600 l/mm Grating





## N<sub>2</sub> Absorption Spectrum Illustrating the High Resolution

