

Port 041 – Wadsworth

This beamline is SRC owned.

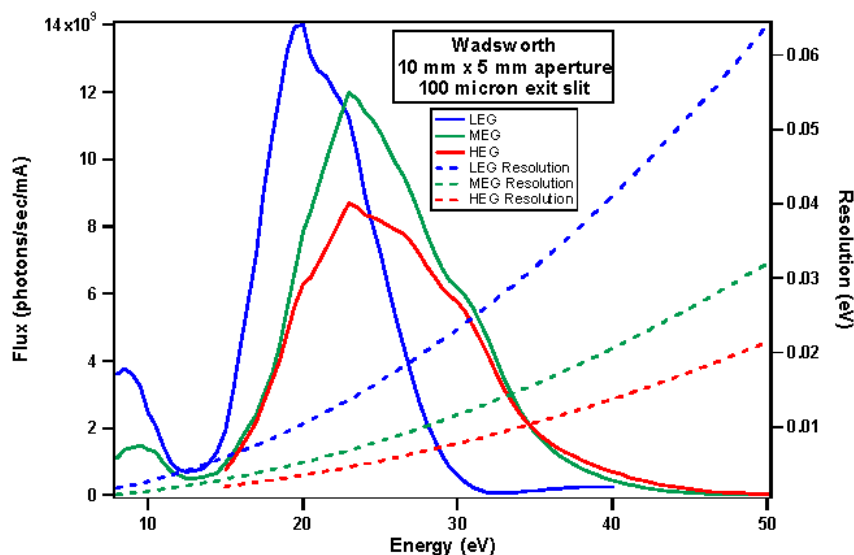
Updated June 2009

Beamline

Wadsworth Normal
Incidence Monochromator
608-877-2044

Manager

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Technical

Energy Range	7.8 – 40 eV
Flux	See graph above for slits = 0.100 mm (solid lines). Scales linearly with exit slit
Bandpass For slits > 0.050 mm See graph resolution in eV	LEG: $\Delta\lambda$ (Å) $\approx 3 * \text{slit}(\text{mm})$ MEG: $\Delta\lambda$ (Å) $\approx 1.5 * \text{slit}(\text{mm})$ HEG: $\Delta\lambda$ (Å) $\approx 1 * \text{slit}(\text{mm})$
Focused Spot Position	Spot position is 787.4 mm (31 inches) from exit valve flange and 1330.3 mm (52 3/8 inches) above the floor. Beam slopes up 1°. Spot size (horizontal x vertical) is 0.5 mm x 0.5 times exit slit
Exit Beam Divergence	Horizontal (Full) is 12.8 mrad @ 10 eV; 11.6 mrad @ 20 eV; 11.06 mrad @ 30 eV Vertical (Full) is 7.7 mrad @ 10 eV; 5.5 mrad @ 20 eV; 4.6 mrad @ 30 eV
Automation	SRC control and data acquisition program.
Computer Interface	RS 232 port slave mode.
Special Feature(s)	U2 permanent magnet undulator source.