

Port 123 – 10m TGM

This beamline is SRC owned.

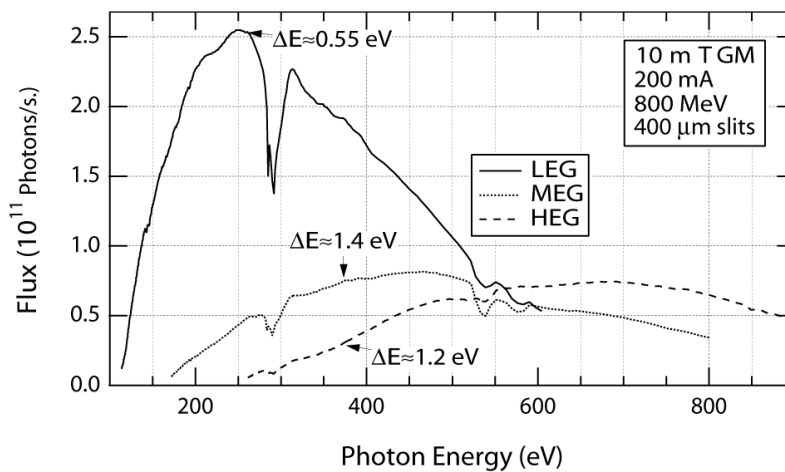
Current as of June 2012

Beamline

Ten Meter Toroidal Grating
Monochromator
608-877-2123

Manager

Mary Severson
608-877-2140
mseverson@src.wisc.edu



Technical

Energy Range	210 – 800 eV
Flux	See graph above for flux with slits = 0.4 mm. The flux for slits < 0.1 mm scales linearly with exit and entrance slits. The flux for slits > 0.1 mm scales linearly with exit slit
Bandpass For slits > 0.4mm	LEG: $\Delta\lambda$ (Å) $\approx 0.18 * \text{slit(mm)}$ MEG: $\Delta\lambda$ (Å) $\approx 0.12 * \text{slit(mm)}$ HEG: $\Delta\lambda$ (Å) $\approx 0.09 * \text{slit(mm)}$
Focused Spot	Spot position is 292 mm beyond the exit and 1207 mm above the platform. Spot size (horizontal x vertical) is 0.7 mm x 1/3 times exit slit.
Automation	SRC control and data acquisition program, slits.
Computer Interface	RS 232 port slave mode or inputs for pulse/direction.
Special Feature(s)	Circularly polarized light available.