

Port 042 – 6m TGM

This beamline is SRC owned.

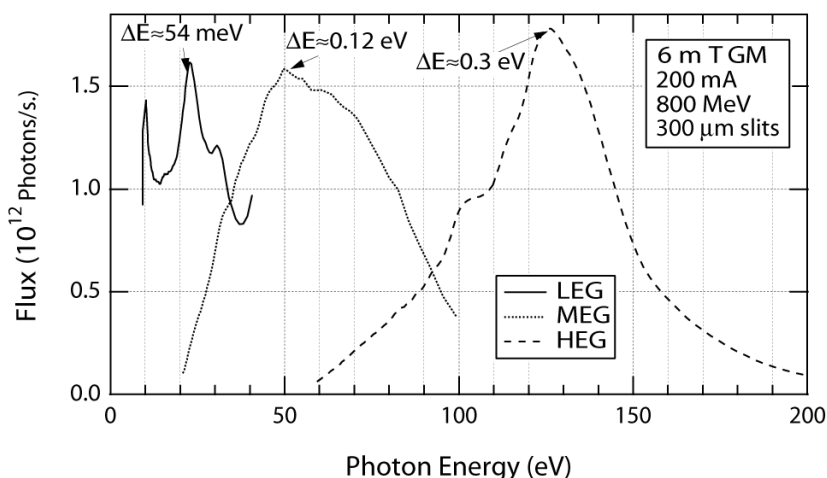
Current as of June 2012

Beamline

Six Meter Toroidal Grating
Monochromator
608-877-2042

Manager

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Technical

Energy Range	8 – 200 eV
Flux	See graph above for slits = 0.03 mm. For slits < 0.2 mm the flux scales linearly with exit and entrance slits. For slits > 0.2 mm the flux scales linearly with exit slit.
Bandpass For slits > 1 mm	LEG: $\Delta\lambda (\text{\AA}) \approx 2.2 * \text{slit}(\text{mm})$ (exit slit) MEG: $\Delta\lambda (\text{\AA}) \approx 0.8 * \text{slit}(\text{mm})$ (exit slit) HEG: $\Delta\lambda (\text{\AA}) \approx 0.28 * \text{slit}(\text{mm})$ (exit slit)
Focused Spot Position	Spot position is 481 mm from exit flange and 1604 mm from floor. Spot size (horizontal x vertical) is 0.6 mm x 1/3 times exit slit
Divergence	50 mrad horizontal 32 mrad vertical
Automation	SRC control and data acquisition program, slits.
Computer Interface	RS 232 port slave mode or inputs for pulse/direction.
Special Feature(s)	