

Port 071 – PGM Branch A

This beamline is SRC owned.

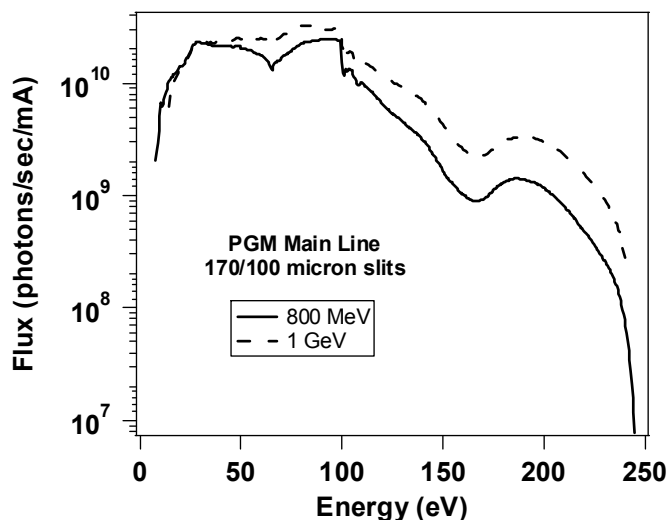
Current as of June 2012

Beamline

Plane Grating
Monochromator Undulator
Beamline Branch A
608-877-2071

Manager

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Technical

Energy Range	8 – 245 eV
Flux	For slits = 0.17/0.10 mm see graph above. For slits < 0.1/0.06 mm the flux scales linearly with exit and entrance slits. For slits > 0.1/0.06 mm the flux scales linearly with exit slit
Bandpass	Bandpass for slits > 0.017/0.01 mm is ΔE (meV) $\approx 0.4 * E^{1.5} * \text{exit slit(mm)}$
Focused Spot	Spot position is 776.5 mm beyond the exit valve's downstream flange and 1203 mm above floor. Spot size (horizontal x vertical) is 0.7 mm x 0.5 times exit slit.
Exit Beam Divergence	Horizontal divergence (full) is 4.06 mrad @ 8 eV; 3.6 mrad @ 40 eV; 3.06 mrad @ 200 eV Vertical (full) divergence is 6 mrad @ 8 eV; 2.77 mrad @ 40 eV; 1.41 mrad @ 200 eV
Automation	SRC control and data acquisition program, slits.
Computer Interface	RS 232 port slave mode.
Special Feature(s)	U3 permanent magnet undulator source with $\lambda_{\mu} = 7.0$ cm