

# Port 071 – PGM Branch B

This beamline is SRC owned.

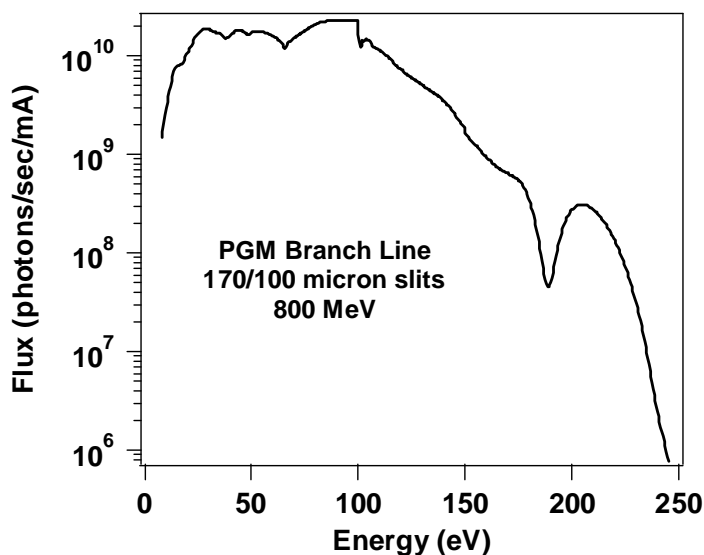
Updated June 2009

## Beamline

Plane Grating  
Monochromator Undulator  
Beamline Branch B  
608-877-2078

## Manager

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## Technical

<b>Energy Range</b>	8 – 180 eV
<b>Flux</b>	See graph above for flux with slits = 0.17/0.10 mm. 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
<b>Bandpass</b>	The bandpass for slits > 0.017/0.01 mm is $\Delta E \text{ (meV)} \approx 0.4 * E^{1.5} * \text{exit slit(mm)}$
<b>Focused Spot</b>	Spot position is 550 mm beyond the exit valve's downstream flange and 1203 mm above floor. The spot size (horizontal x vertical) is 1.5 mm x exit slit size.
<b>Exit Beam Divergence</b>	The horizontal (full) exit beam divergence is 2.03 mrad @ 8 eV; 1.8 mrad @ 40 eV; 1.53 mrad @ 200 eV The vertical (full) exit beam divergence is 3 mrad @ 8 eV; 1.385 mrad @ 40 eV; 0.705 mrad @ 200 eV
<b>Automation</b>	SRC control and data acquisition program, slits.
<b>Computer Interface</b>	RS 232 port slave mode.
<b>Special Feature(s)</b>	U3 permanent magnet undulator source with $\lambda\mu = 7.0 \text{ cm}$