

# Port 071 – PGM Branch B

This beamline is SRC owned.

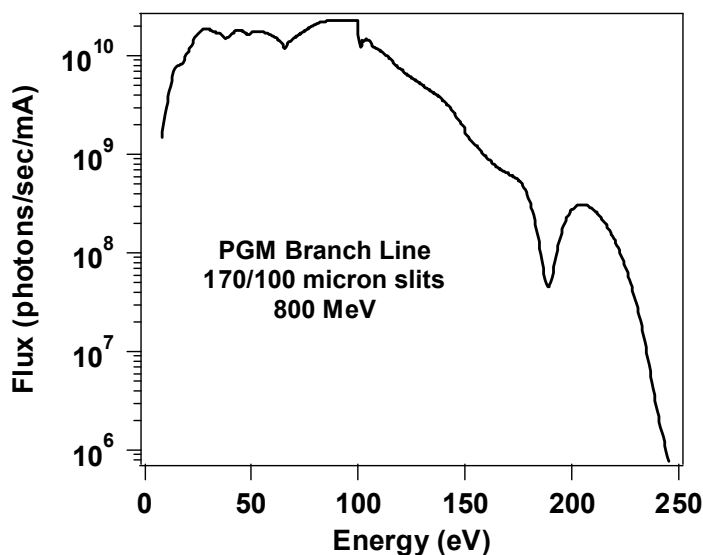
Current as of June 2012

## 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.<br>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<br>$\Delta E \text{ (meV)} \approx 0.4 * E^{1.5} * \text{exit slit(mm)}$   |
| <b>Focused Spot</b>         | Spot position is 540 mm beyond the exit valve's downstream flange and 1205 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<br>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 $\lambda\mu = 7.0 \text{ cm}$  |