

## **A-line Upgrade**

**Dana Richter**

*CHESS, Cornell University*

Significant improvements have been made to A-line in the past year. A 50 pole wiggler has been installed to provide beam for A and G-lines. Also for A-line an 800 mm long white beam mirror has been installed to reduce the heat load on the monochromator. The monochromator has been refurbished with many new stages along with the station control system being rebuilt. Performance and reliability of the A1 station show significant improvement with these changes.

It is planned to refurbish the A2 station within the next year. This summer we will rebuild the station control system and refurbish the monochromator box. The monochromator will receive a new translation stage for the second crystal along with the installation of a base plate and be cleaned to improve vacuum that will better protect the optics. During the spring of 2003 further improvements to reach UHV conditions are planned.