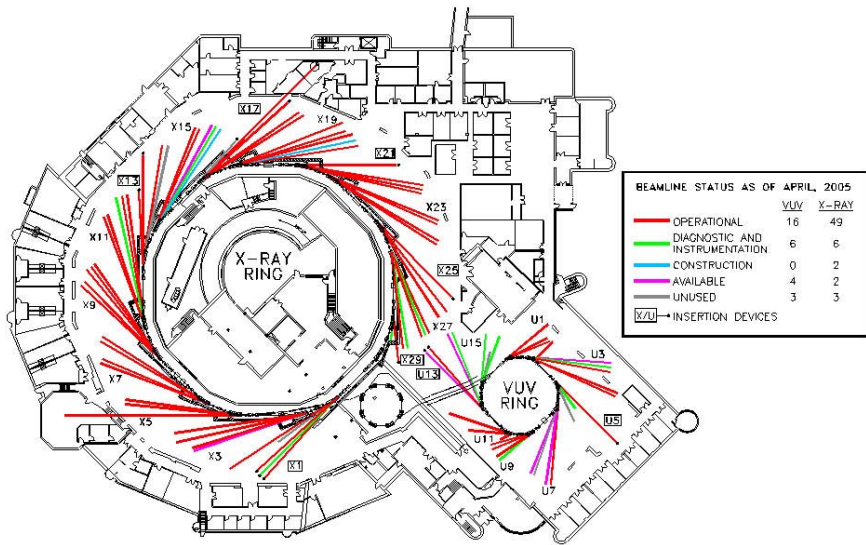


- **Case Center for Synchrotron Biosciences**
- **Protein Crystallography Research Resources (PXrr) of BNL Biology Department**
- **National Synchrotron Light Source**

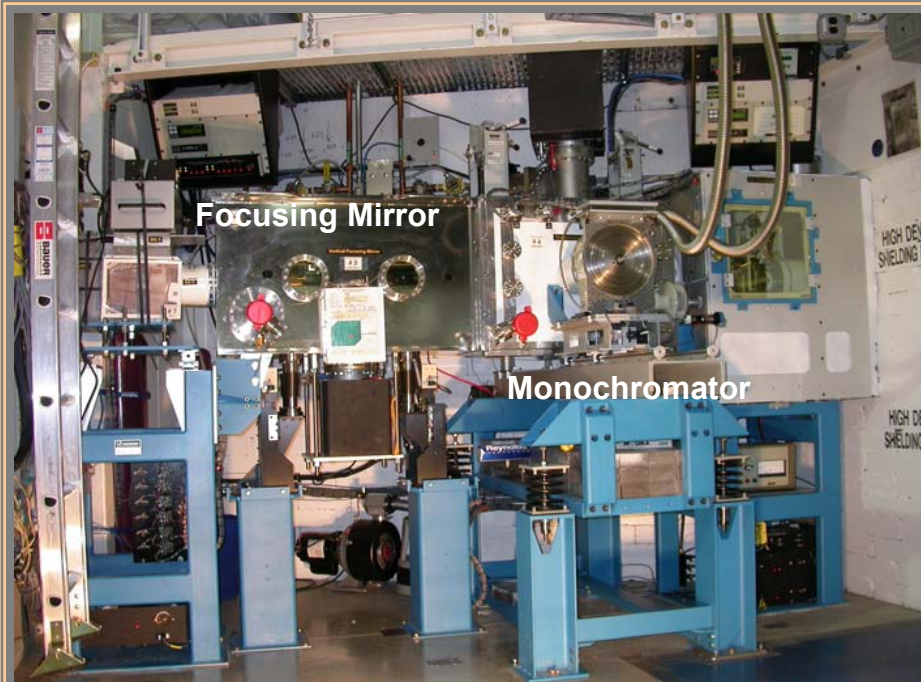
Brookhaven National Laboratory, Upton, New York



NSLS and X29



X29 Optics and End Station



Focusing Mirror

Monochromator

Focused spot size at 11271 eV:
180 μm x 120 μm FWHM

1. ADSC Quantum 315 detector with near 2 second read out time.
2. Mini- κ orienter
3. Robotic crystal changer



ADSC CCD detector

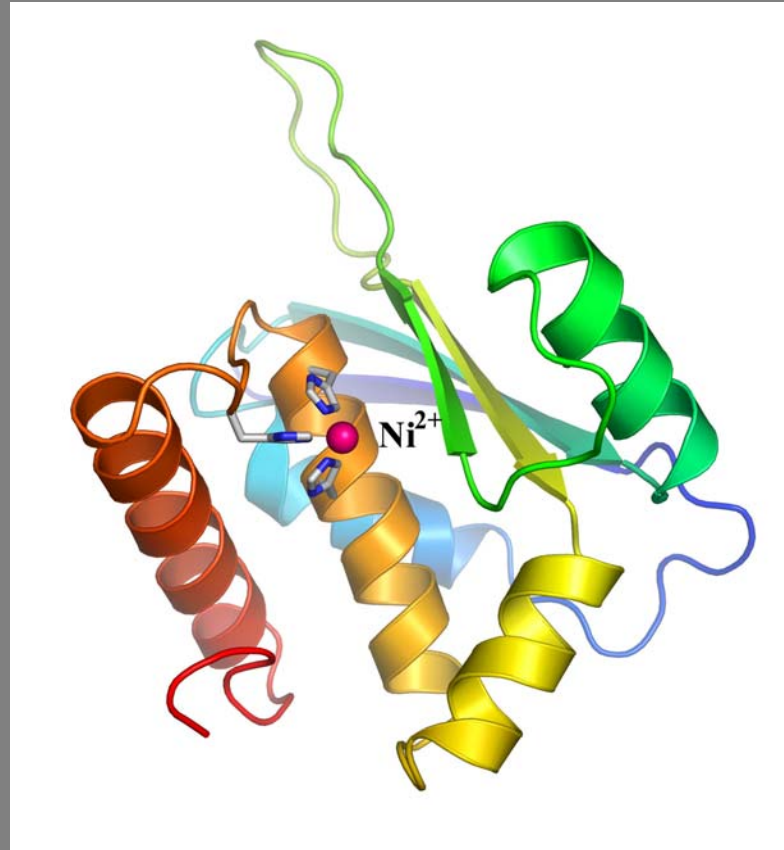
Robotic crystal changer

- **Regular Operation from January, 2005**
- **Structural genomics by CWRU**
- **Mail-in program and Rapid Access by PXrr at BNL Biology Department**
- **General user program**
- **Daytime slots used for quick projects and beamline development and improvement**

- **>400 users BLOSA trained**
- **327 experiment starts from 5/1/05-4/30/06**
- **As of May, 2007, 195 structures deposited in PDB bank**
- **95 publications, including 55 in premier Journals (impact factor 6 or greater)**

Example of Structures from X29

First NYSGXRC crystal structure solved at X29



Zhan C, Fedorov EV, Shi W, Ramagopal UA, Thirumuruhan R, Manjasetty BA, Almo SC, Fiser A, Chance MR, Fedorov AA (2005) *Acta Cryst*, F61 : 959-963.