**Microdiffraction Beamline NYX at NSLS-II**


A microdiffraction undulator beamline, called NYX, is in the scientific commissioning stage at the National Synchrotron Light Source II (NSLS-II). The beamline capabilities are: 1) high energy resolution $\Delta E/E = 5 \times 10^{-5}$, 2) microdiffraction with beams of 5 – 50 $\mu$m at a flux of $\sim 10^{12}$ photons/s at 12.6 keV, 3) x-ray energy coverage from 6 to 17.5 keV, 4) enhanced anomalous signals from K resonance of light atoms such as Na, Mg, P, S and Cl for SAD phasing. The end station, under Bluice control, is equipped with a microdiffractometer, robotic sample changer, and a dual mode pixel array detector (ADSC HF-4M). The beamline software will be capable of automated crystal evaluation, data collection and structure determination. An overview of the NYX beam line will be presented.