## Microdiffraction Beamline NYX at NSLS-II

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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 µm at a flux of ~  $10^{12}$  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 CI 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.