

XPCS and the Soft X-ray Regime: Current Achievements and Future Opportunities at the Coherent Soft X-ray Scattering (CSX) Beamline

Andi Barbour
Brookhaven National Laboratory

Being the first beamline to begin user operations at the National Synchrotron Light Source II, CSX has hosted several user groups with a variety of research interests that not only exploit the x-ray source brightness, energy range and coherence, but also the end-station's in-vacuum diffractometer and detector. I will briefly describe these technical aspects, which create a foundation for CSX-1 to be an instrument that can be used to study dynamics in a broad range of materials (electronic, magnetic, surfaces and interfaces). Current capabilities and research cases will be presented as well as future commissioning projects meant to enhance and expand our user base.