

Abstract Submitted
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The CHX Beamline at NSLS-II: a Tool to probe Structure and Dynamics in Soft-Condensed Matter ANDREI FLUERASU¹, LUTZ WIEGART², Brookhaven National Laboratory — The Coherent Hard X-ray (CHX) beamline currently under construction at NSLS-II (Brookhaven National Laboratory) will serve as an optimized tool for the study of structure and dynamics in soft condensed matter. The unprecedented coherent flux will enable the study of dynamics in soft matter systems down to microsecond time scales via X-ray Photon Correlation Spectroscopy (XPCS). The available scattering geometries such as (GI)SAXS and (GI)WAXS can be used in a simultaneous fashion to collect static and dynamic scattering information on length scales ranging from supramolecular assemblies to atomic distances.

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