



Contribution ID: 1039

Type: Invited talk

High-Energy X-Ray Optics Development Leading to the APS HEXM Long Beamline

Tuesday 27 August 2024 16:50 (20 minutes)

High-energy x-ray (40-140 keV) optics development at the Advanced Photon Source (APS) will be presented, encompassing monochromatization (for high-heat-load and high-resolution applications), focusing (with refractive optics such as tunable saw-tooth lenses and kinoforms), and full-field imaging. In addition to the experimental capabilities already enabled by these optics, such as various high-energy x-ray diffraction microscopies and element-specific resonant scattering at heavy-element K edges, their expected enhancement arising from the upgraded APS low-emittance storage ring and x-ray optics will be discussed, along with new coherence-exploiting techniques, within the context of the High-Energy X-Ray Microscope (HEXM) long beamline.

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I plan to submit also conference proceedings

Yes

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