

The 2nd Workshop on Science Opportunities with Diffraction-Limited Soft X-rays



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Xray OAM Studies at the ALS

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Advances in X-ray diffractive optics with nearly arbitrary beam-structuring capabilities open new possibilities for the use of X-rays in probing complex electronic structures in matter. ALS-U and the increased coherent flux from diffraction-limited synchrotrons make the potential for innovative methods with these optics even more attractive. One demonstrated result of tailoring the intensity and phase structure of X-rays is the creation of “twisted X-rays”, or X-ray vortices with orbital angular momentum (OAM) of arbitrary integer multiples of \hbar .

Presenter: ROY, Sujoy (Lawrence Berkeley National Laboratory)

Session Classification: Beamlines, overview