

## DEVELOPMENT OF INTERFEROMETRIC X-RAY IMAGING AT THE ADVANCED PHOTON SOURCE

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A large skew-symmetric triple-Laue interferometer has been made and tested on a bending magnet beamline, as part of the phase-contrast x-ray tomography project. This is an ongoing effort to develop x-ray imaging techniques at the SRI-CAT, at the Advanced Photon Source.

Some phase (very weakly absorbing) simple objects have been used in order to test the 3D-reconstruction algorithm. The results of simulated and actual data reconstruction are reported. Performance, limitation and further improvement of the setup, including the detection system, are discussed.

*This work was supported by the U.S. Department of Energy, Basic Energy Sciences, Office of Science, under Contract No. W-31-109-Eng-38.*