

Tabletop Lensless Imaging Using Coherent High Harmonic Beams

*R. Sandberg, A. Paul, D. Raymondson, M. Murnane,
H. Kapteyn, JILA and the University of Colorado at Boulder,
C. Song, J. Miao, University of California at Los Angeles*

We present the first demonstration of lensless imaging using coherent high harmonic beams at 30 nm with spatial resolution of 240 nm. This high resolution coherent imaging technique that has been previously demonstrated at synchrotron and free electron laser sources has now been demonstrated on a table top source.