

Abstract Submitted
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High-energy x-ray source development for radiography in High-Energy Density Physics performed on the TRIDENT 200-TW laser¹ J. WORKMAN, J. COBBLE, K. FLIPPO, D.C. GAUTIER, S. LETZRING, D.S. MONTGOMERY, Los Alamos National Laboratory, S. GAILLARD, University Nevada Reno, N. VUTISALCHAVAKUL, Ohio Westleyn University — Experiments were performed on the Trident 200-TW facility to measure K-alpha x-ray emission from high-Z targets using small emission regions to develop phase contrast capabilities. Results from wire targets using Mo, Ag and W are presented and are compared to reduced mass targets. Images are recorded on image plates and a high-energy x-ray CCD camera. Images of static objects show high spatial resolution, high contrast and begin to optimize refractive effects leading to phase contrast imaging.

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