

Abstract Submitted
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Preliminary high-energy x-ray measurements performed on the TRIDENT 250-TW laser¹ JONATHAN WORKMAN, J. COBBLE, K. FLIPPO, D.C. GAUTIER, S. LETZRING, M. SHERRILL, E.S. DODD, Los Alamos National Laboratory — We present preliminary measurements of K-alpha x-ray emission from foil and wire targets using copper, molybdenum and silver. Experiments are performed on the recently enhanced TRIDENT laser using 1-ps pulses at energies up to 100-J during this commissioning phase. 2-D images from static grids will be presented along with pinhole measurements of emission and single photon measurements from CCD cameras. Copper emission will be recorded on time-integrated crystal spectrometers. We will also present the design for a transmission crystal based high-energy spectrometer.

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Jonathan Workman
Los Alamos National Laboratory

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