

Abstract Submitted  
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**Manson X-Ray Source Characterization and Pre-Shot Radiography for Laboratory Astrophysics Experiments**<sup>1</sup> D.C. MARION, R.P. DRAKE, T.P. REMINGTON, E.C. HARDING, M.E. LOWENSTERN, C.C. KURANZ, M.J. GROSSKOPF, N. JASSEM, D. FISHER, University of Michigan — We report the results of measurements characterizing the spectrum of our Manson x-ray source and developments in the use of the source for x-ray radiography. X-Ray radiography has proved a useful diagnostic tool in laser experiments; the value of these measurements could be improved with pre-shot radiography, which would allow us to determine the structure of as-built laser targets. We have assembled a pre-shot radiography system and are developing the techniques needed to optimize magnification and resolution. The output from the x-ray source must be well characterized in order to interpret in detail signals from microchannel-plate detectors. An x-ray photodiode and x-ray filters will be used to measure the spectrum of the x-ray source over a range of fluxes.

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