

Abstract Submitted  
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**Platform development of x-ray absorption-based temperature measurements above 100-eV on the OMEGA laser** PAUL KEITER, JOHN BENAGE, NICK LANIER, HEIDI TIERNEY, JONATHAN WORKMAN, Los Alamos National Laboratory, ANDREW COMLEY, JOHN MORTON, MARK TAYLOR, AWE Aldermaston — Experiments were performed on the OMEGA laser system at the University of Rochester to develop techniques for measuring radiation temperature in hohlraum-heated foams. The development of this technique in the temperature range of 100-200-eV will be used for platform development of future NIF experiments. We will present time-integrated and time-resolved measurements of x-ray emission from the backlighter materials as well as absorption measurements through the heated tracer materials. We will also present future directions in the development of this platform. This was performed by the Los Alamos National Laboratory under the auspices of the United States Department of Energy under contract no. DE-AC52-06NA25396.

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