

Abstract Submitted
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Pulsed polarimetry first results on the LANL MSX magnetized shock experiment R.J. SMITH, P.R. ANDRIST, University of Washington, T.P. INTRATOR, T. WEBER, Los Alamos National Laboratory — Pulsed polarimetry, a Lidar-like technique, promises to provide internal measurements of the distributions of n_e , B and T_e for Magnetized High Energy Density (MHEDLP) targets. The instrument in its final form is finished and presently being employed on the LANL MSX magnetized shock experiment as a first use. Snap shot temperature and density profile measurements with sub-cm resolution are possible along arbitrary sight-lines through the plasma. Initial measurements of plasma parameters characterizing plasma operations as measured by the pulsed polarimeter will be presented.

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