Abstract Submitted
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Pulsed polarimetry progress on the LANL MSX magnetized shock experiment[1] R.J. SMITH, University of Washington, Seattle, T.P. INTRATOR, T.E. WEBER, T.M. HUTCHINSON, LANL, J.C. BOGUSKI, University of Wisconsin, Madision — The UW pulsed polarimeter is a Lidar Thomson scattering diagnostic that can also provide measurements of the internal distribution of $B_{||}$ as well as n_e and T_e for Magnetized High Energy Density targets with cm resolution. Scattering has now been observed in MSX and mirror issues that interrupted the last campaign have been corrected. Subsidiary diagnostics are being developed along side to aid in calibration. Fiber optic pulsed polarimetry is also being explored as both measurements can be performed simultaneously with the one instrument. The fiber sensing would allow measurements of modest fields using an internal cladded fiber. Progress in these directions will be presented.

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