Abstract Submitted for the DPP05 Meeting of The American Physical Society

Stimulated Brillouin Scattering in Plasmas Relevant to Direct-Drive Laser Fusion W. SEKA, J. MYATT, A.V. MAXIMOV, R.W. SHORT, R.S. CRAXTON, R.E. BAHR, T.C. SANGSTER, Laboratory for Laser Energetics, U. of Rochester, H. BALDIS, U. of California — Recent experimental and theoretical work on stimulated Brillouin scattering in plasmas of interest to direct-drive ICF has resulted in improved understanding of previous experimental data. Extrapolations to NIF-scale direct-drive plasmas can now be made with greater confidence. The region close to critical density has been identified as the region where the interplay of hydrodynamic evolution, SBS gain, and electromagnetic seeding is particularly complex and important. This work was supported by the U.S. Department of Energy Office of Inertial Confinement Fusion under Cooperative Agreement No. DE-FC52-92SF19460.

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Date submitted: 20 Jul 2005

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