

PUBLICATIONS AND CONFERENCE PRESENTATIONS

Publications

J. M. Soares, T. C. Bristow, H. Deckman, J. Delettrez, A. Entenberg, W. Friedman, J. Forsyth, Y. Gazit, G. Halpern, F. Kalk, S. Letzring, R. McCrory, D. Peiffer, J. Rizzo, W. Seka, S. Skupsky, E. Thorsos, B. Yaakobi, and T. Yamanaka, "A Review of High Density, Laser Driven, Implosion Experiments at the Laboratory for Laser Energetics," *Laser Interaction and Related Plasma Phenomena*, edited by H. J. Schwarz (Plenum, 1981).

R. McCrory, L. Montierth, R. Morse, and C. Verdon, "Taylor Instability in Fusion Targets," *Laser Interaction and Related Plasma Phenomena*, edited by H. J. Schwarz (Plenum, 1981).

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F. Kalk and D. Glocker, "Thick Zone Plate Fabrication Using Reactive Sputter Etching," *J. Vac. Sci. Technol.* **19**, 170-172 (July/Aug. 1981).

S. P. Sarraf and L. M. Goldman, "Effect of Prepulse on Nonthermal (> 10 keV) Ions in Laser-Produced Plasmas," *Phys. Rev.* **A24**, 1021-1025 (August 1981).

B. Yaakobi, P. Bourke, T. Conturie, J. Delettrez, J. M. Forsyth, R. D. Frankel, L. M. Goldman, R. L. McCrory, W. Seka, and J. M. Soares, "High X-Ray Conversion Efficiency with Target Irradiation by a Frequency Tripled Nd:Glass Laser," *Opt. Commun.* **38**, 196-200 (August 1981).

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W. Seka, J. M. Soures, S. D. Jacobs, L. D. Lund, and R. S. Craxton, "GDL: A High-Power 0.35 μm Laser Irradiation Facility," *IEEE J. Quant. Electron.* **QE-17**, 1689-1693 (September 1981).

G. Albrecht and G. Mourou, "A. Long-Pulse/Short-Pulse Synchronization Scheme Using a Regenerative Amplifier and High-Voltage Semiconductor Switching," *IEEE J. Quant. Electron.* **QE-17**, 1709-1712 (September 1981).

D. C. Brown, J. H. Kelly, and J. A. Abate, "Active-Mirror Amplifiers: Progress and Prospects," *IEEE J. Quant. Electron.* **QE-17**, 1755-1765 (September 1981).

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J. A. Boles, D. Pessel, and L. P. Forsley, "OMEGA Automated Laser Control and Data Acquisition," *IEEE J. Quant. Electron.* **QE-17**, 1903-1908 (September 1981).

D. Glocker, "A Proposed Design for Multishell Cryogenic Laser Fusion Targets Using Superconducting Levitation," *Appl. Phys. Lett.* **39**, 478-479 (September 1981).

Conference Presentations

S. Jacobs, "Liquid Crystals as Large Aperture Waveplates and Circular Polarizers," presented at the 25th Annual and International Technical Symposium and Exhibit, S.P.I.E., San Diego, August 1981.

J. Abate, "Flashlamp-Induced Thermal Distortion in an Active-Mirror Nd:Glass Laser Amplifier," presented at the 25th Annual and International Technical Symposium and Exhibit, S.P.I.E., San Diego, August 1981.

R. Sobolewski, C. Stancampiano, and G. Mourou, "Transient Behavior of Very Thin Superconducting Lead Films Illuminated by Picosecond

Laser Pulses," presented at the International Conference on Low Temperature Physics, Los Angeles, August 1981.

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