

PUBLICATIONS

Publications

R. Turner and L. Goldman, "Evidence For Multiple Brillouin Modes in Laser-Plasma Backscatter Experiments," *Phys. Fluids* **24**, 184-185 (January 1981).

J. Abate, L. Lund, D. Brown, S. Jacobs, S. Refermat, J. Kelly, M. Gavin, J. Waldbillig, and O. Lewis, 'Active-Mirror: A Large-Aperture, Medium-Repetition Rate, Nd:Glass Amplifier," *Appl. Opt.* **20**, 351-361 (January 1981).

G. Harvey, C. Gabel and G. Mourou, "Synchronization of a Mode-Locked Nd:YAG - Argon Ion Laser System," *Opt. Comm.* **36**, 213-217 (February 1981).

R. McCrory, L. Montierth, R. Morse and C. Verdon, "Nonlinear Evolution of Ablation-Driven Rayleigh-Taylor Instability," *Phys. Rev. Lett.* **46**, 336-339 (February 1981).

J. Rizzo, "Laser Drilling Small Holes for X-Ray Pinhole Cameras," *Rev. of Sci. Instrum.* **52**, 302-303 (February 1981).

T. Dewandre, J. Albritton and E. Williams, "Doppler Shift of Laser Light Reflected From Expanding Plasmas," *Phys. Fluids* **24**, 528-536 (March 1981).

Forthcoming Publications

W. Knox, W. Friedman and G. Mourou, "A Simple Silicon Switch-Driven Psec Streak Camera," accepted for publication by *Applied Physics Letters*.

R. Craxton and R. McCrory, "Two-Dimensional Calculations of Non-Spherical Laser Fusion Implosions," submitted for publication to *Nuclear Fusion*.

S. Skupsky and S. Kacenjar, "Measuring Fuel ρR for Inertial Fusion Experiments Using Neutron Elastic-Scattering Reactions," accepted for publication by the *Journal of Applied Physics*.

M. True, J. Albritton and E. Williams, "Fast Ion Production by Suprathermal Electrons in Laser Fusion Plasmas," accepted for publication by *Physics of Fluids*.

R. McCrory, L. Montierth, R. Morse and C. Verdon, "Taylor Instability in Fusion Targets," to be published in *Laser Interactions and Relative Plasma Phenomena*, Vol. V., Plenum Press.

J. Soures, T. Bristow, H. Deckman, J. Delettrez, A. Entenberg, W. Friedman, J. Forsyth, Y. Gazit, G. Halpern, F. Kalk, R. McCrory, D. Peiffer, J. Rizzo, S. Skupsky, E. Thorsos, B. Yaakobi and T. Yamanaka, "A Review of High Density Laser Driven, Implosion Experiments at the Laboratory for Laser Energetics," to be published in *Laser Interactions and Relative Plasma Phenomena*, Vol. V., Plenum Press.

G. Mourou, C. Stancampiano and D. Blumenthal, "Picosecond Microwave Pulse Generation," submitted for publication to *Applied Physics Letters*.

T. Nordland and W. Knox, "Lifetime of Fluorescence From Light-Harvesting Chlorophyll a/b Proteins: Excitation Intensity Dependence," submitted for publication to *Biophysical Journal*.

J. Kelly, D. Brown, J. Abate and K. Teegarden, "A Dynamic Pumping Model for Amplifier Performance Predictions," submitted for publication to *Applied Optics*.

D. Brown, J. Abate, L. Lund and J. Waldbillig, "Passively Switched Double-Pass Active-Mirror System," submitted for publication to *Applied Optics*.

G. Mourou, "D.C. High Voltage Switching," submitted for publication to *Optics Communications*.

D. Shvarts, J. Delettrez, R. McCrory and C. Verdon, "Self-Consistent Reduction of the Spitzer-Harm Electron Thermal Heat Flux in Steep Temperature Gradients," submitted for publication to *Physical Review Letters*.

S. Kacenjar, L. Goldman and A. Entenberg, "Copper Activation Counter Calibration Using Solid State Track Detectors," accepted for publication by *Review of Scientific Instruments*.

W. Knox and G. Mourou, "A Simple Jitter-Free Picosecond Streak Camera," accepted for publication by *Optics Communications*.

L. Goldman and S. Sarraf, "Effects of Prepulse on Non-Thermal (>10 KeV/Z) Ions in Laser Produced Plasma," submitted for publication to *Physical Review A*.

T. Sizer, G. Mourou and R. Rice, "Picosecond Dye Laser Pulses Using a CW Frequency Doubled Nd:YAG as the Pumping Source," accepted for publication by *Optics Communications*.

S. Sarraf, E. Williams and L. Goldman, "Ion-Ion Two-Stream Instability in Multispecies Streaming Plasma," submitted for publication to *Physical Review Letters*.

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