
Publications and Conference Presentations

Publications

- Z. A. Ali, V. Yu. Glebov, M. Cruz, T. Duffy, C. Stoeckl, S. Roberts, T. C. Sangster, R. Tommasini, A. Throop, M. Moran, L. Dauffy, and C. Horsefield, "Tests and Calibration of NIF Neutron Time of Flight Detectors," *Rev. Sci. Instrum.* **79**, 10E527 (2008).
- S.-W. Bahk, J. D. Zuegel, J. R. Fienup, C. C. Widmayer, and J. Heebner, "Spot-Shadowing Optimization to Mitigate Damage Growth in a High-Energy-Laser Amplifier Chain," *Appl. Opt.* **47**, 6586 (2008).
- Z.-M. Bei, T. B. Jones, A. Tucker-Schwartz, and D. R. Harding, "Electric Field Mediated Droplet Centering," *Appl. Phys. Lett.* **93**, 184101 (2008).
- J. L. Bourgade, P. Troussel, A. Casner, G. Huser, T. C. Sangster, G. Pien, F. J. Marshall, J. Fariaud, C. Remond, D. Gontier, C. Chollet, C. Zuber, C. Reverdin, A. Richard, P. A. Jaanimagi, R. L. Keck, R. E. Bahr, W. J. Armstrong, J. DeWandel, R. Maroni, F. Aubard, B. Angelier, C. Y. Cote, and S. Magnan, "A Versatile High-Resolution X-Ray Imager (HRXI) for Laser-Plasma Experiments on OMEGA," *Rev. Sci. Instrum.* **79**, 10E904 (2008).
- J. Bromage, S.-W. Bahk, D. Irwin, J. Kwiatkowski, A. Pruyne, M. Millecchia, M. Moore, and J. D. Zuegel, "A Focal-Spot Diagnostic for On-Shot Characterization of High-Energy Petawatt Lasers," *Opt. Express* **16**, 16,561 (2008).
- B. Ciftcioglu, J. Zhang, L. Zhang, J. R. Marciante, J. D. Zuegel, R. Sobolewski, and H. Wu, "3-GHz Silicon Photodiodes Integrated in a 0.18- μm CMOS Technology," *IEEE Photon. Technol. Lett.* **20**, 2069 (2008).
- V. Yu. Glebov, M. Moran, C. Stoeckl, T. C. Sangster, and M. Cruz, "Neutron Bang Time Detector Based on a Light Pipe," *Rev. Sci. Instrum.* **79**, 10E528 (2008).
- E. T. Gumbrell, A. S. Moore, J. A. Lazarus, E. L. Clark, P. M. Nilson, W. J. Garbett, A. J. Comley, J. S. Robinson, M. Hohenberger, R. D. Edwards, R. E. Eagleton, R. J. Clarke, D. R. Symes, and R. A. Smith, "Laser Heating of Large Noble Gas Clusters: From the Resonant to the Relativistic Interaction Regimes," *New J. Phys.* **10**, 123011 (2008).
- D. G. Hicks, T. R. Boehly, P. M. Celliers, D. K. Bradley, J. H. Eggert, R. S. McWilliams, R. Jeanloz, and G. W. Collins, "High Precision Measurements of the Diamond Hugoniot In and Above the Melt Region," *Phys. Rev. B* **78**, 174102 (2008).
- C. Kim, K. L. Marshall, J. U. Wallace, and S. H. Chen, "Photochromic Glassy Liquid Crystals Comprising Mesogenic Pendants to Dithienylethene Cores," *J. Mater. Chem.* **18**, 5592 (2008).
- D. Pan, G. P. Pepe, V. Pagliarulo, C. De Lisio, L. Parlato, M. Khafizov, I. Komissarov, and R. Sobolewski, "Layered Ferromagnet/Superconductor Heterostructures: Nonequilibrium Quasiparticle Dynamics and Photodetector Applications," *Phys. Rev. B* **78**, 174503 (2008).
- S. N. Shafir, S. D. Jacobs, S. Adar, C. Miao, H. Romanofsky, and J. C. Lambropoulos, "Drag Force and Surface Texture in Material Removal with MRF on Optical Glass and Hard Ceramics," in the *Proceedings of the 12th DoD Electromagnetic Windows Symposium* (U.S. Army Research, Development, and Engineering Center, Redstone Arsenal, AL, 2008), pp. 1–23.
- A. A. Solodov, K. S. Anderson, R. Betti, V. Gotcheva, J. Myatt, J. A. Delettrez, S. Skupsky, W. Theobald, and C. Stoeckl, "Simulations of Electron Transport and Ignition for Direct-Drive Fast-Ignition Targets," *Phys. Plasmas* **15**, 112702 (2008).

C. Stoeckl, K. S. Anderson, R. Betti, T. R. Boehly, J. A. Delettrez, J. A. Frenje, V. N. Goncharov, V. Yu. Glebov, J. H. Kelly, A. J. MacKinnon, R. L. McCrory, D. D. Meyerhofer, S. F. B. Morse, J. F. Myatt, P. A. Norreys, P. M. Nilson, R. D. Petrasso, T. C. Sangster, A. A. Solodov, R. B. Stephens, M. Storm, W. Theobald, B. Yaakobi, L. J. Waxer, and C. D. Zhou, "Fast-Ignition Target Design and Experimental-Concept Validation on OMEGA," *Plasma Phys. Control. Fusion* **50**, 124044 (2008) (invited).

M. Storm, I. A. Begishev, R. J. Brown, C. Guo, D. D. Meyerhofer, C. Mileham, J. F. Myatt, P. M. Nilson, T. C.

Sangster, C. Stoeckl, W. Theobald, and J. D. Zuegel, "A High-Resolution Coherent Transition Radiation Diagnostic for Laser-Produced Electron Transport Studies," *Rev. Sci. Instrum.* **79**, 10F503 (2008) (invited).

A. Trajkovska Petkoska and S. D. Jacobs, "Effect of Different Dopants on Polymer Cholesteric Liquid Crystal Flakes," *Mol. Cryst. Liq. Cryst.* **495**, 334 (2008).

C. D. Zhou and R. Betti, "A Measurable Lawson Criterion and Hydro-Equivalent Curves for Inertial Confinement Fusion," *Phys. Plasmas* **15**, 102707 (2008).

Forthcoming Publications

E. Bambrink, H. G. Wei, B. Brabrel, P. Audebert, A. Benuzzi, T. Boehly, T. Endo, C. Gregory, T. Kimura, R. Kodama, N. Ozaki, M. Rabec le Gloahec, and M. Koenig, "X-Ray Source Studies for Radiography of Dense Matter," to be published in *Physics of Plasmas*.

T. R. Boehly, D. H. Munro, P. M. Celliers, R. E. Olson, D. G. Hicks, V. N. Goncharov, H. F. Robey, S. X. Hu, J. A. Marozas, T. C. Sangster, O. L. Landen, and D. D. Meyerhofer, "Demonstration of the Shock-Timing Technique for Ignition Targets," to be published in *Physics of Plasmas* (invited).

X. L. Cross, X. Zheng, P. D. Cunningham, L. M. Hayden, Š. Chromik, M. Sojkova, V. Štrbík, P. Odier, and R. Sobolewski, "Pulsed-THz Characterization of Hg-Based, High-Temperature Superconductors," to be published in *IEEE Transactions on Applied Superconductivity*.

C. Dorrer, "Statistical Analysis of Incoherent Pulse Shaping," to be published in *Optics Express*.

V. N. Goncharov, "Ablative Richtmyer–Meshkov Instability: Theory and Experimental Results," to be published in the *Proceedings of the Scottish Summer School*.

V. N. Goncharov, "Direct-Drive Inertial Fusion: Basic Concepts and Ignition Target Designing," to be published in the *Proceedings of the Scottish Summer School*.

W. Guan and J. R. Marciante, "Complete Elimination of Self-Pulsations in Dual-Clad Ytterbium-Doped Fiber Lasers at All Pumping Levels," to be published in *Optics Letters*.

D. G. Hicks, T. R. Boehly, P. M. Celliers, J. H. Eggert, S. J. Moon, D. D. Meyerhofer, and G. W. Collins, "Laser Driven Single Shock Compression of Fluid Deuterium from 45 to 220 GPa," to be published in *Physical Review B*.

Z. Jiang and J. R. Marciante, "Comments on 'Beam Quality Factor of Higher Order Modes in a Step-Index Fiber,'" to be published in the *Journal of Lightwave Technology*.

A. M. Kaplan, G. P. Agrawal, and D. N. Maywar, "All-Optical Flip-Flop Operations of a VCISOA," to be published in *Electronics Letters*.

J. Kitaygorsky, S. Dorenbos, E. Reiger, R. Schouten, V. Zwiller, and R. Sobolewski, "New Read-Out Technique for Dark- and Photon-Count Studies in NbN Superconducting Single-Photon Detectors," to be published in *IEEE Transactions on Applied Superconductivity*.

J. Kitaygorsky, R. Shouten, S. Dorenbos, E. Reiger, V. Zwiller, and R. Sobolewski, "Resolving Dark Pulses from Photon Pulses in NbN Superconducting Single-Photon Detectors," to be published in the *Journal of Modern Optics*.

J. R. Marciante, "Gain Filtering for Single-Spatial-Mode Operation of Large-Mode-Area Fiber Amplifiers," to be published in the *IEEE Journal of Selected Topics in Quantum Electronics*.

P. M. Nilson, W. Theobald, J. F. Myatt, C. Stoeckl, M. Storm, J. D. Zuegel, R. Betti, D. D. Meyerhofer, and T. C. Sangster, "Bulk Heating of Solid-Density Plasmas During High-Intensity Laser–Plasma Interactions," to be published in *Physical Review E*.

G. P. Pepe, D. Pan, V. Pagliarulo, L. Parlato, N. Marrocco, C. De Lisio, G. Peluso, A. Barone, U. Scotti di Uccio, A. Casaburi, F. Tafuri, M. Khafizov, T. Taneda, and R. Sobolewski, "Ultrafast Photoresponse of Superconductor/Ferromagnet Hybrid Nanostructures," to be published in *IEEE Transactions on Applied Superconductivity*.

J. E. Schoenly, W. Seka, and P. Rechmann, "Laser Ablation of Dental Calculus Around 400 nm Using a Ti:Sapphire Laser," to be published in the *Proceedings of SPIE*.

V. A. Smalyuk, R. Betti, T. R. Boehly, R. S. Craxton, J. A. Delettrez, D. H. Edgell, V. Yu. Glebov, V. N. Goncharov,

D. R. Harding, S. X. Hu, J. P. Knauer, F. J. Marshall, R. L. McCrory, P. W. McKenty, D. D. Meyerhofer, P. B. Radha, S. P. Regan, T. C. Sangster, W. Seka, R. W. Short, D. Shvarts, S. Skupsky, J. M. Soures, C. Stoeckl, B. Yaakobi, J. A. Frenje, C. K. Li, R. D. Petrasso, and F. H. Séguin, "Cryogenic Target Performance and Implosion Physics Studies on OMEGA," to be published in *Physics of Plasmas* (invited).

Y. Zhu, J. D. Zuegel, J. R. Marciante, and H. Wu, "Distributed Waveform Generator: A New Circuit Technique for Ultra-Wideband Pulse Generation, Shaping, and Modulation," to be published in the *IEEE Journal of Solid-State Circuits*.

Conference Presentations

R. L. McCrory, "Progress in Direct-Drive Inertial Confinement Fusion," 22nd IAEA Fusion Energy Conference, Geneva, Switzerland 13–18 October 2008.

The following presentations were made at *Frontiers in Optics 2008*, Rochester, NY, 19–23 October 2008:

W. Guan and J. R. Marciante, "Elimination of Self-Pulsations in Dual-Clad, Ytterbium-Doped Fiber Lasers."

W. Guan and J. R. Marciante, "Single-Frequency Hybrid Brillouin/Ytterbium Fiber Lasers."

L. Ji, W. R. Donaldson, and T. Y. Hsiang, "Multi-Wavelength Electro-Optic Pulse Sampling."

Z. Jiang and J. R. Marciante, "Precise Model Decomposition in Multimode Optical Fibers by Maximizing the Sum of Modal Weights."

L. Sun, S. B. Jiang, J. D. Zuegel, and J. R. Marciante, "Measurement of the Verdet Constant in a Terbium-Core-Doped Fiber."

L. J. Waxer, J. H. Kelly, B. E. Kruschwitz, J. Qiao, I. A. Begishev, J. Bromage, C. Dorrer, J. L. Edwards, L. Folsbee, M. J. Guardalben, S. D. Jacobs, R. Jungquist, T. J. Kessler, R. W. Kidder, S. J. Loucks, J. R. Marciante, D. N. Maywar,

R. L. McCrory, D. D. Meyerhofer, S. F. B. Morse, A. V. Okishev, J. B. Oliver, G. Pien, J. Puth, A. L. Rigatti, A. W. Schmid, M. J. Shoup, III, C. Stoeckl, K. A. Thorp, and J. D. Zuegel, "The OMEGA EP High-Energy, Short-Pulse Laser System," *Laser Science XXIV*, Rochester, NY, 19–23 October 2008 (invited).

The following presentations were made at the *Optical Fabrication and Testing Topical Meeting*, Rochester, NY, 19–23 October 2008:

J. H. Kelly, R. Jungquist, L. J. Waxer, M. J. Guardalben, B. E. Kruschwitz, J. Qiao, I. A. Begishev, J. Bromage, C. Dorrer, J. L. Edwards, L. Folsbee, S. D. Jacobs, T. J. Kessler, R. W. Kidder, S. J. Loucks, J. R. Marciante, D. N. Maywar, R. L. McCrory, D. D. Meyerhofer, S. F. B. Morse, A. V. Okishev, J. B. Oliver, G. Pien, J. Puth, A. L. Rigatti, A. W. Schmid, M. J. Shoup, III, K. A. Thorp, and J. D. Zuegel, "Optical Engineering of the OMEGA EP Laser System."

T. J. Kessler, "Surface Artifacts in Manufacturing and Use of Large Imaging Optics" (invited).

C. Miao, S. N. Shafir, H. Romanofsky, J. Mici, J. C. Lambropoulos, and S. D. Jacobs, "Frictional Investigation for Magnetorheological Finishing (MRF) of Optical Glass and Hard Ceramics."

S. Salzman, H. Romanofsky, S. N. Shafir, J. C. Lambropoulos, and S. D. Jacobs, “*In-Situ* Drag Force Measurements in MRF of Optical Glasses.”

S. N. Shafir, C. Miao, H. Romanofsky, J. C. Lambropoulos, and S. D. Jacobs, “Surface Texture in Material Removal with MRF on Optical Ceramics.”

The following presentations were made at the International Conference on Ultrahigh Intensity Lasers, Shanghai-Tongli, China, 27–31 October 2008:

J. Bromage, S.-W. Bahk, D. Irwin, J. Kwiatkowski, A. Pruyne, M. Millecchia, M. Moore, and J. D. Zuegel, “A Focal-Spot Diagnostic for On-Shot Characterization of OMEGA EP.”

J. Bromage, M. Moore, S.-W. Bahk, B. E. Kruschwitz, R. Earley, D. Irwin, D. Canning, R. Jungquist, G. King, J. Kwiatkowski, D. Weiner, M. J. Shoup III, and J. D. Zuegel, “Tools and Techniques for Focusing OMEGA EP.”

C. Dorrer, J. Bromage, and J. D. Zuegel, “High-Dynamic-Range, Single-Shot Cross-Correlator Using a Pulse Replicator.”

T. J. Kessler and H. Huang, “Spatial Chirp Smoothing Within Temporal Pulse Compression.”

J. Qiao, J. H. Kelly, J. Bunkenburg, A. Kalb, D. Canning, and T. Nguyen, “Construction and Activation of Large-Aperture, Tiled-Grating Compressors for High-Energy, Petawatt-Class Chirped-Pulse-Amplification Systems.”

J. Qiao, J. H. Kelly, L. J. Waxer, B. E. Kruschwitz, I. A. Begishev, J. Bromage, S.-W. Bahk, C. Dorrer, J. L. Edwards, L. Folsbee, M. J. Guardalben, S. J. Jacobs, R. Jungquist, T. J. Kessler, R. W. Kidder, S. J. Loucks, J. R. Marciante, D. N. Maywar, R. L. McCrory, D. D. Meyerhofer, S. F. B. Morse, A. V. Okishev, J. B. Oliver, G. Pien, J. Puth, A. L. Rigatti, A. W. Schmid, M. J. Shoup III, C. Stoeckl, K. A. Thorp, and J. D. Zuegel, “Activation of the OMEGA EP High-Energy, Short-Pulse Laser System.”

J. D. Zuegel, C. Dorrer, I. A. Begishev, J. Bromage, R. Brown, A. V. Okishev, P. M. Nilson, W. Theobald, V. Ovchinnikov, J. F. Myatt, B. Eichman, S. Ivancic, M. Storm, O. V. Gotchev, C. Stoeckl, T. C. Sangster, R. Betti, and D. D. Meyerhofer,

“High-Temporal-Contrast Target Experiments Using a Hybrid OPCPA-Nd:Glass Multi-Terawatt (MTW) Laser System.”

The following presentations were made at IEEE LEOS 2008, Newport Beach, CA, 9–13 November 2008:

W. R. Donaldson, J. R. Marciante, and R. G. Roides, “Single-Shot, Electro-Optic Measurements at 10 GHz with a Dynamic Range of 2400:1.”

L. Ji, W. R. Donaldson, and T. Y. Hsiang, “Multi-Wavelength Electro-Optic Pulse Characterization.”

S. P. Regan, B. Yaakobi, R. Epstein, J. A. Delettrez, V. N. Goncharov, H. Sawada, D. D. Meyerhofer, P. B. Radha, T. C. Sangster, V. A. Smalyuk, R. C. Mancini, D. A. Haynes, J. A. Koch, and R. Tommasini, “Applied Plasma Spectroscopy I: Laser Fusion Experiments,” 13th International Workshop on Radiative Properties of Hot Dense Matter, Santa Barbara, CA, 10–14 November 2008.

The following presentations were made at the 50th Annual Meeting of the APS Division of Plasma Physics, Dallas, TX, 17–21 November 2008:

K. S. Anderson, A. A. Solodov, R. Betti, P. W. McKenty, and W. Theobald, “Parametric Study of Direct-Drive, Fuel-Assembly Simulations of Fast-Ignition, Cone-in-Shell Targets.”

M. A. Barrios, D. E. Fratanduono, T. R. Boehly, D. D. Meyerhofer, D. G. Hicks, P. M. Celliers, and J. H. Eggert, “Precision Equation-of-State (EOS) Measurements Using Laser-Driven Shock Waves Using the OMEGA Laser.”

T. R. Boehly, D. H. Munro, P. M. Celliers, R. E. Olson, D. G. Hicks, V. N. Goncharov, H. F. Robey, S. X. Hu, J. A. Marozas, T. C. Sangster, O. L. Landen, and D. D. Meyerhofer, “Demonstration of the Shock-Timing Technique for Ignition Targets” (invited).

D. T. Casey, J. A. Frenje, C. K. Li, F. H. Séguin, M. Manuel, R. D. Petrasso, V. Yu. Glebov, D. D. Meyerhofer, S. Roberts,

- and T. C. Sangster, "Using GEANT4 to Model the Magnetic Recoil Spectrometer (MRS) for Down-Scattered and Primary-Neutron Measurements at OMEGA."
- H. Chen, S. C. Wilks, E. Liang, J. F. Myatt, K. Cone, L. Elberson, D. D. Meyerhofer, M. Schneider, R. Shepherd, R. Stafford, R. Tommasini, and P. Beiersdorfer, "Making Positrons Using the Titan Short-Pulse Laser."
- T. J. B. Collins, F. J. Marshall, M. J. Bonino, R. Forties, V. N. Goncharov, I. V. Igumenshchev, J. A. Marozas, P. W. McKenty, and V. A. Smalyuk, "3-D Modeling of Planar Target-Mount Perturbation Experiments on OMEGA."
- R. S. Craxton, P. W. McKenty, J. A. Marozas, and A. M. Cok, "Simulations of Polar-Drive NIF Targets Optimized for High Neutron Yields."
- J. A. Delettrez, V. N. Goncharov, A. V. Maximov, J. F. Myatt, P. B. Radha, T. C. Sangster, W. Seka, V. A. Smalyuk, C. Stoeckl, B. Yaakobi, and J. A. Frenje, "Transport of Energetic Electrons Produced from Two-Plasmon Decay in the 1-D Hydrodynamic Code *LILAC*."
- D. H. Edgell, W. Seka, J. A. Delettrez, R. S. Craxton, V. N. Goncharov, I. V. Igumenshchev, J. F. Myatt, A. V. Maximov, R. W. Short, T. C. Sangster, and R. E. Bahr, "Precision Scattered-Laser-Light Spectroscopy in Direct-Drive Implosions."
- R. Epstein, J. A. Delettrez, V. N. Goncharov, S. X. Hu, P. W. McKenty, F. J. Marshall, P. B. Radha, V. A. Smalyuk, W. Theobald, and B. Yaakobi, "Simulation and Optimization of Backlit Images of Cryogenic Implosions on OMEGA."
- D. E. Fratanduono, M. A. Barrios, T. R. Boehly, D. D. Meyerhofer, D. G. Hicks, P. M. Celliers, S. Wilks, and R. Smith, "Optical Properties of Materials at High Pressure Using 'Sandwich' Targets."
- J. A. Frenje, D. T. Casey, C. K. Li, J. R. Rygg, F. H. Séguin, R. D. Petrasso, V. Yu. Glebov, T. C. Sangster, D. D. Meyerhofer, and K. A. Fletcher, "First Measurements of the Down-Scattered and Primary Neutron Spectrum Using the Magnetic Recoil Spectrometer (MRS) at OMEGA."
- M. C. Ghilea, T. C. Sangster, D. D. Meyerhofer, D. J. Lonobile, R. A. Lerche, and L. Disdier, "First Tests on OMEGA of a Bubble Chamber for Neutron Detection."
- V. N. Goncharov, T. C. Sangster, T. R. Boehly, P. B. Radha, R. L. McCrory, D. D. Meyerhofer, and S. Skupsky, "Multiple-Picket, Direct-Drive Target Designs for OMEGA and the NIF."
- O. V. Gotchev, R. Betti, P. Chang, J. P. Knauer, D. D. Meyerhofer, J. A. Frenje, C. K. Li, M. Manuel, R. D. Petrasso, and F. H. Séguin, "Magnetized Hot-Spot Implosions Via Laser-Driven Flux Compression."
- J. D. Hager, V. A. Smalyuk, S. X. Hu, D. D. Meyerhofer, and T. C. Sangster, "Rayleigh–Taylor Measurements in Planar Cryogenic D_2 Targets Using X-Ray Radiography on OMEGA."
- S. X. Hu, P. B. Radha, J. A. Marozas, R. Betti, T. J. B. Collins, R. S. Craxton, J. A. Delettrez, D. H. Edgell, R. Epstein, V. N. Goncharov, I. V. Igumenshchev, J. P. Knauer, F. J. Marshall, R. L. McCrory, P. W. McKenty, D. D. Meyerhofer, S. P. Regan, T. C. Sangster, W. Seka, S. Skupsky, V. A. Smalyuk, C. Stoeckl, B. Yaakobi, and D. Shvarts, "Two-Dimensional Investigation of Neutron-Yield Performance in Direct-Drive, Low-Adiabatic D_2 Implosions on OMEGA."
- I. V. Igumenshchev, F. J. Marshall, J. A. Marozas, V. A. Smalyuk, R. Epstein, T. J. B. Collins, M. J. Bonino, V. N. Goncharov, and T. C. Sangster, "Investigation of the Effects of Target Mounting in Direct-Drive Implosions on OMEGA."
- J. P. Knauer, V. N. Goncharov, J. A. Delettrez, V. Yu. Glebov, F. J. Marshall, J. A. Frenje, C. K. Li, R. D. Petrasso, and F. H. Séguin, "Optimization of Multiple-Picket, Direct-Drive Laser-Pulse Shapes with Foam Shells."
- C. K. Li, "Proton Radiography of Electromagnetic Fields Associated with ICF Implosions and Laser-Irradiated Hohlraums."
- D. Li, V. N. Goncharov, A. V. Maximov, I. V. Igumenshchev, and S. Skupsky, "Modeling of Multiple-Ion Heat Transport in ICF Implosions."
- G. Li, C. Ren, R. Yan, V. N. Goncharov, T. L. Wang, W. B. Mori, and J. Tonge, "Three-Dimensional Effects in Laser Channeling in Fast-Ignition Targets."
- J. A. Marozas, J. D. Zuegel, and T. J. B. Collins, "1.0-MJ CH-Foam Ignition Targets on the NIF Using 1-D Multi-FM SSD with 0.5 THz of Bandwidth."

F. J. Marshall, R. S. Craxton, R. Epstein, V. Yu. Glebov, V. N. Goncharov, J. P. Knauer, P. W. McKenty, D. D. Meyerhofer, P. B. Radha, T. C. Sangster, W. Seka, S. Skupsky, V. A. Smalyuk, J. A. Frenje, C. K. Li, R. D. Petrasso, and F. H. Séguin, “Low-Adiabatic Polar-Drive Implosion Experiments on OMEGA.”

A. V. Maximov, J. F. Myatt, R. W. Short, W. Seka, C. Stoeckl, and J. A. Delettrez, “Modeling of Two-Plasmon-Decay Instability in OMEGA Plasmas.”

D. D. Meyerhofer, J. Bromage, V. Yu. Glebov, J. H. Kelly, B. E. Kruschwitz, S. J. Loucks, R. L. McCrory, S. F. B. Morse, J. F. Myatt, P. M. Nilson, J. Qiao, T. C. Sangster, C. Stoeckl, W. Theobald, R. D. Petrasso, F. H. Séguin, J. A. Frenje, C. K. Li, A. J. MacKinnon, and P. K. Patel, “Initial Experiments Using the OMEGA EP Laser System.”

J. F. Myatt, D. H. Edgell, W. Seka, A. V. Maximov, R. W. Short, D. F. DuBois, D. A. Russell, and H. X. Vu, “Two-Plasmon-Decay Hot-Electron Distributions from Anisotropic Thick-Target Bremsstrahlung Measurements.”

P. M. Nilson, W. Theobald, J. F. Myatt, C. Stoeckl, P. A. Jaanimagi, J. A. Delettrez, M. Storm, R. Betti, D. D. Meyerhofer, T. C. Sangster, J. S. Green, K. L. Lancaster, P. A. Norreys, F. Beg, R. B. Stephens, and M. H. Key, “Fast-Electron-Energy Deposition in Dense Plasma.”

O. Polomarov and R. Betti, “MHD Effects in Laser-Produced Plasmas.”

P. B. Radha, V. N. Goncharov, T. C. Sangster, R. Betti, J. A. Delettrez, S. X. Hu, D. D. Meyerhofer, S. Skupsky, V. A. Smalyuk, C. Stoeckl, J. A. Frenje, C. K. Li, R. D. Petrasso, and D. Shvarts, “Modeling Observables to Diagnose Areal Density in OMEGA Implosions.”

S. P. Regan, T. C. Sangster, D. D. Meyerhofer, W. Seka, R. L. McCrory, C. Stoeckl, V. Yu. Glebov, N. B. Meezan, L. J. Suter, D. J. Strozzi, E. A. Williams, W. L. Kruer, O. S. Jones, D. A. Callahan, M. D. Rosen, O. L. Landen, S. H. Glenzer, C. Sorce, and B. J. MacGowan, “Hohlraum Energetics with a Plastic-Lined Laser Entrance Hole.”

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