

Publication List

October–March 2003

A

Anthamatten, M., Letts, S., and Cook, R., *Controlling Surface Roughness in Polyimide Films by Solvent-Vapor Exposure*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-PRES-150269.

B

Berger, R., and Valeo, E., *Damping of and Stimulated Scattering of Light from Ion Acoustic Waves Collisional Multi-Species Plasma*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-152019-ABS. Presented at *The 3rd Intl Conf on Inertial Fusion Sciences and Applications (IFSA 2003)*, Monterey, CA, Sept 7–12, 2003.

Bittner, D. N., Collins, G. W., and Sater, J. D., *Generating Low Temperature Layers with IR Heating*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-143446. Submitted to *Fusion Science and Technol.*

Bradley, D. K., Pollaine, S., Amendt, P., Landen, O., and Jones, O., *Symmetry Studies in Hohlräume at 100 eV*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-152335-ABS. Presented at *The 3rd Intl Conf on Inertial Fusion Sciences and Applications (IFSA 2003)*, Monterey, CA, Sept 7–12, 2003.

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Celliers, P. M., Collins, G. W., Hicks, D. G., Eggert, J., Moon, S. J., Loubeyre, P. A., Dewaele, A., Koenig, M., Benuzzi-Mounaix, A., Henry, E., Benedetti, L. R., Lee,

K. K. M., Jeanloz, R., Pasley, J., and Neely, D., *Shock Compressing Fluids in a Diamond Anvil Cell: Creating New Hot Dense States*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-151269-ABS. Presented to the *Annual American Physical Society 2003 March Mtg*, Austin, TX, Mar 3–7, 2003.

Colvin, J. D., Legrand, M., Remington, B. A., Schurtz, G., and Weber, S. V., *A Model for Instability Growth in Accelerated Solid Metals*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-143792-REV-2. Submitted to *J. Appl. Phys.*

D

Depierreux, S., Jadaud, J., Beullier, J., Seka, W., Bahr, R., Thorp, K., Stagnito, S., Glenzer, S., Moody, J., Kirkwood, R., Froula, D., Divol, L., and Baldis, H. A., *Experimental Investigation of the Stimulated Raman Scattering Saturation on Omega*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-151830-ABS. Presented at the *5th Intl Workshop on Laser-Plasma Interaction Physics*, Banff, Alberta, Canada, Feb 19–22, 2003.

Divol, L., Williams, E. A., Cohen, B. I., Langdon, A. B., and Lasinski, B. F., *A Reduced Model of Kinetic Effects Related to the Saturation of Stimulated Brillouin Scattering in Long Plasmas*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-151529-ABS. Presented at the *5th Intl Workshop on Laser-Plasma Interaction Physics*, Banff, Alberta, Canada, Feb 19–22, 2003.

F

Freeman, R., Amiranoff, F., Andersen, C., Batani, D., Baton, S. D., Cowan, T., Fisch, N., Gremillet, L., Hall, T., Key, M. H., King, J., Koch, J., Koenig, P.,

Lasinski, B., Langdon, B., MacKinnon, A., Martinolli, E., Norreys, P., Parks, P., Perelli-Cippo, E., Rabec Le Gloahec, M., Rosenbluth, M., Rousseaux, C., Santon, J. J., Stephens, R. B., Scianitti, F., and Snavely, R., *What We Know Versus What We Speculate Concerning the Generation and Transport of Laser-Generated Fast Electrons in Dense Materials*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-152426-ABS. Presented at *The 3rd Intl Conf on Inertial Fusion Sciences and Applications (IFSA 2003)*, Monterey, CA, Sept 7–12, 2003.

Froula, D. H., Divol, L., Braun, D. G., Cohen, B. I., Gregori, G., MacKinnon, A., Williams, E. A., Glenzer, S. H., Baldis, H. A., Montgomery, D. S., and Johnson, R. P., *Stimulated Brillouin Scattering in the Saturated Regime*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-150869. Submitted to *Phys. of Plasmas*.

Froula, D. H., Divol, L., Price, D., Kirkwood, R. K., and Glenzer, S. H., *Stimulated Brillouin Scattering from Helium-Hydrogen Plasmas*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-PRES-151256. Presented at the *5th Intl Workshop on Laser-Plasma Interaction Physics*, Banff, Alberta, Canada, Feb 19–22, 2003.

G

Glenzer, S. H., Berger, R. L., Campbell, K., Constantin, C., Dewald, E., Divol, L., Dixit, S., Froula, D. H., Gregori, G., Hammel, B. A., Hinkel, D., Jones, O. S., Knight, J., Kirkwood, R. K., Kruer, W. L., Landen, O. L., Langdon, A. B., MacKinnon, A. J., Moody, J. D., Niemann, C., Still, B., Suter, L. J., Williams, E. A., Bahr, R., Seka, W., Oades, K., and Stephenson, M., *Progress in Long Scalelength Laser-Plasma Interactions*, Lawrence Livermore National Laboratory, Livermore,

CA, UCRL-JC-152185-ABS. Presented at *The 3rd Intl Conf on Inertial Fusion Sciences and Applications (IFSA 2003)*, Monterey, CA, Sept 7–12, 2003.

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Gregori, G., Glenzer, S. H., Rogers, F. J., Lee, R. W., Pollaine, S. M., and Landen, O. L., *Warm Dense Matter Characterization by Spectrally Resolved X-Ray Scattering*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-151530-ABS. Presented at the *5th Intl Workshop on Laser-Plasma Interaction Physics*, Banff, Alberta, Canada, Feb 19–22, 2003.

Gregori, G., Glenzer, S. H., Rogers, F., and Landen, O. L., *Calculations of X-Ray for a Carbon Plasma*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-PRES-151831. Presented at the *5th Intl Workshop on Laser-Plasma Interaction Physics*, Banff, Alberta, Canada, Feb 19–22, 2003.

Gregori, G., Niemann, C., Knight, J., Price, D., Edwards, J., and Glenzer, S. H., *Thomson Scattering Measurements of Electron Temperature and Density Gradients in Laser Produced Plasmas*, Lawrence Livermore National Laboratory, Livermore,

CA, UCRL-PRES-151829. Presented at the *5th Intl Workshop on Laser-Plasma Interaction Physics*, Banff, Alberta, Canada, Feb 19–22, 2003.

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Herrmann, M., and Haan, S., *Exploration of the Parameter Space for NIF Ignition Capsules*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-152010-ABS. Presented at *The 3rd Intl Conf on Inertial Fusion Sciences and Applications (IFSA 2003)*, Monterey, CA, Sept 7–12, 2003.

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Jankowski, A. F., and Hayes, J. P., *Evaporative Deposition of Aluminum Coatings and Shapes with Grain Size Control*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-151899. Presented at the *Intl Conf on Metallurgical Coatings and Thin Films*, San Diego, CA, Apr 28–May 2, 2003.

Jones, O. S., Amendt, P. A., Pollaine, S. M., Herrmann, M. C., Haan, S. W., Suter, L. J., Lindl, J. D., and Hammel, B. A., *Optimization of NIF Ignition Targets with Varying Absorbed Energy and Hohlraum Case-to-Capsule Ratio*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-152000-ABS. Presented at *The 3rd Intl Conf on Inertial Fusion Sciences and Applications (IFSA 2003)*, Monterey, CA, Sept 7–12, 2003.

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Mizuta, A., Kane, J., Ryutov, D., Remington, B. A., and Takabe, H., *Hydrodynamic Instability on Ionization Fronts in H11 Regions*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-JC-150195-ABS-REV-1. Presented at *The 3rd Intl Conf on Inertial Fusion Sciences and Applications (IFSA 2003)*, Monterey, CA, Sept 7–12, 2003.

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