

PUBLICATIONS

Free Electron Laser Related Publications

- D. Bruhwiler, M. F. Reusch, I. Lehrman, J. Krishnaswamy, and R. Austin, "Simulations of the Compact Infrared Free Electron Laser," Poster 3V 37, Particle Accelerator Conference, Vancouver, B.C., Canada, 12-16 May 1997
- I. Lehrman, H. Bluem, R. Hartley, J. Krishnaswamy, and R. Austin, "Recent Results from the Compact Infrared Free Electron Laser," Poster 3V 38, Particle Accelerator Conference, Vancouver, B.C., Canada, 12-16 May 1997
- J. Krishnaswamy, R.A. Hartley, R.H. Austin, and D.W. Feldman, "First Lasing of the Compact Infrared Free Electron Laser", I.S. Lehrman, Mo.C01, 18th International Free Electron Laser Conference and 3rd FEL User's workshop, Rome, Italy, Aug 26-31, 1996, to be published in Nuclear Instruments and Methods in Physics
- J. Krishnaswamy, I.S. Lehrman, R.A. Hartley, M.F. Reusch, A.m.M. Todd, R.H. Austin, D. Feldman, "Off Normal Photo Cathode Illumination Studies in CIRFEL", 18th International Free Electron Laser Conference and 3rd FEL User's workshop, Rome, Italy, Aug 26-31, 1996, to be published in Nuclear Instruments and Methods in Physics
- J. Krishnaswamy, and R. Hartley, R.H. Austin, and D.W. Feldman, "Status of the Compact Infrared Free Electron Laser", I.S. Lehrman, Th.C10, 18th International Free Electron Laser Conference and 3rd FEL User's workshop, Rome, Italy, Aug 26- 31, 1996, to be published in Nuclear Instruments and Methods in Physics
- J. Krishnaswamy, I.S. Lehrman, R.A. Hartley, M.F. Reusch, A.M.M. Todd, R.H. Austin, "Off Normal Photo Cathode Illumination Studies in CIRFEL", 1996 Joint Meeting of the APS and the AAPT, Indianapolis Session May 2-5, , J15, Poster Session II, 1996
- I.S. Lehrman, J. Krishnaswamy, and R. Hartley, "Status of the Compact Infrared Free Electron Laser", 1996 Joint Meeting of the APS and the AAPT, Indianapolis Paper N.11.02 May 2-5,
- R. Hartley, I.S. Lehrman, and J. Krishnaswamy, "Feed Forward Control: an implementation in CIRFEL", 17th International Free Electron Laser Conference, Aug 21-25, New York, 1995. Appeared in Nuclear Instruments and Methods in Physics Research a.375 (1996) Abs22-Abs24
- J. Krishnaswamy, I. S. Lehrman, R. Hartley, and Robert H. Austin, "The Northrop Grumman Compact Infrared FEL (CIRFEL)", Proceedings of the 1995 Particle Accelerator Conference on High-Energy Accelerators Vol.1, 260-262,, May 1-5, Dallas, Texas

- J. Krishnaswamy, I. S. Lehrman, R. Hartley, and Robert H. Austin, "Electron Transport and Emittance Diagnostics in CIRFEL", Proceedings of the 1995 Particle Accelerator Conference on High-Energy Accelerators Vol.1, 234-236., May 1-5, Dallas, Texas
- J. Krishnaswamy, I. S. Lehrman, R. Hartley, M. F. Reusch, A. M. M. Todd, and R. H. Austin, "Beam Diagnostics and modelling in CIRFEL", 17th International Free Electron Laser Conference, Aug 21-25, New York, 1995. Appeared in Nuclear Instruments and Methods in Physics Research a.375 (1996) 119-122
- I.S.Lehrman, R.A.Hartley, J.Krishnaswamy, M.F.Reusch, J.R.Sheehan, and R.H.Austin, "The Grumman Compact Infrared Free-Electron Laser", 1994 Spring meeting of the American Physical Society, Crystal City, Washington D.C., April 18-24, 1994
- J.Krishnaswamy, I.S.Lehrman, J.Sheehan, R.Hartley, R.H.Austin and M.Karasik, and D.W.Feldman, "Seed Laser Characteristics of the Grumman Compact Free Electron Laser" 1994 Spring meeting of the American Physical Society, Crystal City, Washington D.C., April 18-24, 1994
- Lehrman, I.S*., Krishnaswamy, J., Hartley, R.A., Efthimion, P.C., Austin, R.H., "The Grumman Compact Infrared Free Electron Laser (CIRFEL)", 16th International Free Electron Conference, August 21-16, Stanford, California
- I. S. Lehrman, J. Krishnaswamy, M. F. Reusch, R. L. Hartley, and A. M. M. Todd, and R. H. Austin, "Status of the Compact Infra Red Free Electron Laser (CIRFEL)", The Seventh International Linac Conference, Tsukuba, Japan, August 21-26, 1994
- Krishnaswamy, J., Lehrman, Ira S., Hartley, R., and Austin, Robert H, "Photo Electron Source characteristics of CIRFEL", 16th International Free Electron Conference, August 21-16, Stanford, California
- I.S.Lehrman, J.R.Sheehan, J.Krishnaswamy, M.F.Reusch, and R.Hartley, "Design and Construction of a Compact Infrared Free Electron Laser", 15th International Free Electron Laser Conference, August 23-27, 1993, The Hague, The Netherlands
- J.Krishnaswamy, I.S.Lehrman, J.Sheehan, M.F.Reusch, R.H.Heuer, J.Fix, and R.Hartley, "Design and Construction of a Compact Infrared Free Electron Laser CIRFEL", Fifteenth Biennial IEEE Particle Accelerator Conference, May 17-20, 1993, Washington DC.
- Alan. M. M.Todd, Ira S. Lehrman, J. Krishnaswamy, V. Calia, R.Gutkowski, and W. Hammer, and R. Douglas Fulton, "Electron-gun-driven soft X-ray lithography system", Los Alamos National Laboratory, Extreme Ultraviolet Lithography Topical Meeting, Sept 19-21, Monterey, California

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- J. Krishnaswamy, S. Kalsi, and H.Hsieh, "Magnetic Measurements of the 12-Pole Trim Magnets for the 200 MeV Compact Synchrotron XLS at the National Synchrotron Light Source", IEEE 1991 Particle Accelerator Conference, Accelerator Science and Technology, May 6-9, San Francisco, CA
- L. Solomon, J. Galayda , and J. Krishnaswamy, "Magnetic Measurements of the XLS Ring and Transfer Line Magnets at the National Synchrotron Light Source", (Abstract Only), Spring Meeting of the American Physical Society, division of the Physics of Beams, Washington D.C., April16-19, (1990)

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- A. Rengan, J. Krishnaswamy, G. Matera, A. R.Srivatsa, and J. Narayan,"Microstructural Studies of Laser Enhanced, Filament Assisted Deposition of Diamond Films", SPIE 1989 Symposium on Microelectronic Integrated Processing: Laser and Optically Assisted Processing of Advanced Electronic Materials and Applications, Santa Clara, 8-13 October 1989, SPIE Vol.1190, Optical Processing of Electronic Materials, 126-135 , (1990)
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- A.Rengan, G.Matera, M.Longo, A.R.Srivatsa, J.Krishnaswamy, and J.Narayan "Comparative Study of Hot Filament CVD of Diamond on Silicon Partially Illuminated by a 193 nm ArF Laser Beam", TMS Annual Meeting, Processing Methods and Properties of Diamond and Diamondlike Thin Films III, Advanced Processing Anaheim, CA, Feb 19-20, (1990)
- G.Matera, M.Longo, A.Srivatsa, A.Rengan, J.Krishnaswamy, and J.Narayan "Morphological Features of Hot Filament CVD Diamond", TMS Annual Meeting, Processing Methods and Properties of Diamond and Diamondlike Thin Films III, Advanced Processing Anaheim, CA, Feb 19-20, (1990)
- J.Krishnaswamy, A.Rengan, and J.Narayan, "Hydrogen Free DLC Film by Laser Ablation and Plasma Hybrid Technique", TMS Annual Meeting, Processing Methods and Properties of Diamond and Diamondlike Thin Films III, Advanced Processing Anaheim, CA, Feb.19-20, (1990)
- J.Krishnaswamy, A.Rengan, G.Matera, M.Longo, A.Srivatsa, J.Narayan, and R.Nemanich, "Laser Assisted Techniques For Diamond and Diamondlike Thin Films", Symposium F(Diamond, Boron Nitride, Silicon Carbide and related wide band gap semiconductors), Materials Research Society Conference, Boston, December 1989
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R. K. Singh, J. Narayan, A. K. Singh, and J. Krishnaswamy, "In-situ Processing of Epitaxial Y-Ba-Cu-O High TC Superconducting Films on <100> SrTiO₃ and <100> YS-ZrO Substrates at 550-650 °C", Applied Physics Letters, 54(22), 2271,(1989)

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Fig.7 SEM Micrograph showing the inhomogeneity of the etched surface of a sample of Teflon appeared as editor's choice in MRS Bulletin, Page 24, 1990

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