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B. FULL PROCEEDING PAPERS

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C. CONFERENCE PRESENTATIONS

- C1 “Quasi 3-D ellipsoidal laser pulse with pulse tailoring and chromatic aberration”, Mini Workshop on laser pulse shaping, Nov. 20-Dec. 1, 2006, DESY Zeuthen, Germany (Invited).
- C2 “Application of laser techniques in accelerator research”, NIU Physics Dept Colloquium, Oct. 20, 2006. (Invited)

- C3 “Application of laser techniques in accelerator research at the Advanced Photon Source”, Symposium on High Field Laser Physics, Xiamen, China, Nov. 2 – Nov. 6, 2006. (Invited)
- C4 “Schemes for 3D laser pulse shaping,” Collaboration Workshop on RHIC electron cooling and high-brightness electron beams, May 24-26, 2006, Brookhaven National Laboratory. (Invited)
- C5 “Application, limitation and distortion of single shot EO sampling technique ”, ICFA mini workshop on “Frontiers of Short Bunches in Storage Rings”, Nov. 7-8, 2005, Frascati, Italy. (Oral)
- C6 “Optical properties of the output of a high-gain, self-amplified free-electron laser”, 2004 Conference on Laser and Electronic Optics (CLEO), May 16-21, 2004, San Francisco, CA. (Oral)
- C7 “Optical Properties of a High-Gain, Self-Amplified Free-Electron Laser,” Ultrafast X-rays 2004, Apr. 28-30, 2004, San Diego. (Poster)
- C8 “Optical properties of the output of a high-gain, self-amplified free-electron laser”, 2004 SPIE Annual meeting, August 2–6, 2004, Denver, Colorado. (Oral)
- C9 ‘Temporal Characteristics of a SASE FEL,’ 2003 Particle Accelerator Conference, May 12-16, 2003, Portland, Oregon.(Poster)
- C10 ‘Possibility of bright, polarized high energy photon sources at the Advanced Photon Source’, Workshop on New Aspects of Quark Nuclear Physics with Polarized Photons, Feb. 17-20, Honolulu, Hawaii (Invited)
- C11 ‘Experience with and expectations for the drive laser for the APS PC gun’, Workshop on Laser Issues for Electron RF Photoinjectors SLAC, October 23-25, 2002, Stanford, California. (Oral)
- C12 ‘Time-Resolved Measurement of a 530-nm SASE FEL’ 2002 International Free Electron laser Conference; Sept 1-6, 2002, Argonne, Illinois.(Poster)
- C13 ‘Intensity and pulse shape effect on the spectra and the angular distribution of nonlinear Thomson scattering,’ Conference on Lasers and Electro-Optics (CLEO); May 19-24, 2002, Long Beach, California. (Poster)
- C14 ‘Generating sub-100 fs X-ray pulses using the APS injection linac,’ Workshop on Novel Photon Sources From Relativistic Electron Beams, Nov 29-20, 2001, Pocatello, Idaho. (Invited).
- C15 ‘Bright, tunable sub-100 fs X-ray radiation using small angle Thomson scattering,’ *2001 Symposium on Optical Science, Engineering, and Instrumentation* (46th SPIE Annual Meeting), 29 July-3 August, 2001, San Diego, California.(Oral)
- C16 ‘Bright sub-100 fs X-ray source using small angle Thomson scattering,’ 21st International committee for Future Accelerators (ICFA) Beam Dynamics Workshop on Laser-Beam Interactions, 11-15 June 11-15, 2001, Stony Brook, New York.(Oral)
- C18 ‘Recent progress on plasma X-ray lasers at LLNL,’ *22nd International Free Electron Laser Conference*, 13-18 Aug 2000, Durham, North Carolina.(Poster)
- C19 ‘Ionization Instability Induced by Intense, Ultrashort Laser Pulses,’ 41st Annual Meeting of the Division of Plasma Physics, America Physical Society, 15-19 November, 1999, Seattle, Washington.(Oral)
- C20 ‘Transient Inversion Collisional X-ray Lasers,’ *Optical Society of America 1999 Annual Meeting/ILS-XV*, 26 September - 1 October 1999, Santa Clara, California. (Invited)
- C21 ‘Scattering of intense, ultrashort laser pulses in underdense plasmas by ionization instability,’ *1999 Symposium on Optical Science, Engineering, and Instrumentation* (SPIE Annual Meeting), 18-23 July 1999, Denver, Colorado.(Oral)

- C22 ‘Near field imaging of a saturated table-top X-ray laser,’ *1999 Symposium on Optical Science, Engineering, and Instrumentation* (SPIE Annual Meeting), 18-23 July 1999, Denver, Colorado. (Oral)
- C23 ‘Modulation and scattering of intense, ultrashort laser pulses in underdense plasmas,’ *Centennial Meeting of American Physical Society*, Atlanta, Georgia, Mar 20-26 1999. (Poster)
- C24 ‘Ne- and Ni-like X-ray lasers using the prepulse technique,’ *5th International Conference on X-Ray Lasers*, Lund, Sweden, June 10-14, 1996. (Oral)
- C25 ‘Time-resolved investigation of neonlike J=0-1 X-ray lasers,’ *5th International Conference on X-Ray Lasers*, Lund, Sweden, June 10-14, 1996.(Poster)
- C26 ‘Investigation of soft X-ray spectra from laser plasmas using a transmission grating spectrometer,’ *International Symposium on Laser-Matter Interactions*, Shanghai, China, November 9-12, 1992.(Oral)

D. Submitted and in preparation

- D1 J. Bailey, Y. Li, K. Nemeth, and J. Cary, “Simulation of a Laser Plasma Accelerator Operating in the Bubble Regime and Using Laser Assisted Injection”, J. Undergraduate Research, submitted.