

LOUIS F. DiMAURO

Edward & Sylvia Hagenlocker Chair /Professor of Physics
Department of Physics
The Ohio State University
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EDUCATION

B.S. Hunter College CUNY, 1975
Ph.D. University of Connecticut, 1980

PROFESSIONAL EMPLOYMENT

Hagenlocker Chair/Professor of Physics, OSU, 10/04-present
Senior Chemist, BNL, 9/98-9/04
Adjunct Professor of Physics, Stony Brook, 9/89-present
Guest Physicist, LLNL, 1/94-present
Chemist, BNL, 9/92--9/98
Associate Chemist, BNL, 9/90-9/92
Assistant Chemist, BNL, 1/88-9/90

HONORS AND AWARDS

2013 OSA William Meggers Prize
2012 OSU Distinguished Scholar
2004 Science & Technology Award, BNL
Fellow of the American Physical Society
Fellow of the Optical Society of America
Fellow of the American Association for the Advancement of Science
Connecticut State Pre-doctoral Fellowship (1978 & 1979)

ACTIVITIES

Vice-Chair, NRC CAMOS panel (2012-2015)
Division Chair, APS-DAMOP (2009-2011)
Team Leader, LCLS AMOS collaboration (2004-2009)
APS DAMOP Executive Committee (2003-08)
NSF AMOP Review Panel (2003)
DOE Lehman Review Panel for LCLS (2003)
APS DAMOP Fellowship Committee (2002-03)
Chairman Multiphoton Gordon Conference (2002)
Co-Convener SAUUL committee and workshop (2002)

FIVE RELEVANT PUBLICATIONS (119 PUBLICATIONS TOTAL)

1. C. Bлга *et al.*, “*Imaging ultrafast molecular dynamics with laser-induced electron diffraction*”, *Nature* **483**, 194-197 (2012).

2. A. D. DiChiara, E. Sistrunk, C. I. Blaga, U. B. Szafruga, P. Agostini and L. F. DiMauro, “*Inelastic scattering of broadband electron wave packets driven by an intense midinfrared laser field*”, Phys. Rev. Lett. **108**, 033002 (2012).
3. G. Doumy, J. Wheeler, C. Roedig, R. Chirla, P. Agostini and L. F. DiMauro, “*Attosecond Synchronization of High-Order Harmonics from Midinfrared Drivers*”, Phys. Rev Lett. **102**, 093002 (2009).
4. P. Agostini and L. F. DiMauro, “*The Physics of Attosecond Pulses*”, Rep. Prog. Phys. **67**, 813-855 (2004).
5. J. Tate, T. Augustine, H. G. Muller, P. Salieres, P. Agostini and L. F. DiMauro, “*The Scaling of Wave Packet Dynamics in an Intense Mid-Infrared Field*”, Phys. Rev. Lett. **98**, 013901 (2007).

FIVE OTHER PUBLICATIONS

1. L. Young *et al.*, “*Femtosecond electronic response of atoms to ultraintense x-rays*”, Nature **466**, 56-61 (2010).
2. C. I. Blaga, F. Catoire, P. Colosimo, G. G. Paulus, H. G. Muller, P. Agostini and L. F. DiMauro, “*Strong Field Photoionization Revisited*”, Nat. Phys. **5**, 335-338 (2009).
3. E. Cormier, I. A. Walmsley, E. M. Kosik, A. S. Wyatt, L. Corner, and L. F. DiMauro, “*Self-referencing, spectrally, or spatially encoded spectral interferometry for the complete characterization of attosecond electromagnetic pulses*”, Phys. Rev. Lett. **94**, 033905 (2005).
4. L. H. Yu *et al.*, “*High-gain harmonic-generation free-electron laser*”, Science **289**, 932-934 (2000).
5. K. J. Schafer, Baorui Yang, L. F. DiMauro and K. C. Kulander, “*Above threshold ionization beyond the high harmonic cutoff*”, Phys. Rev. Lett. **70** 1599-1602 (1993).

COLLABORATORS (LAST 4 YEARS)

Pierre Agostini (OSU), T. A. Miller (OSU), C. D. Lin (KSU), D. Reis (Stanford), R. Kienberger (MPQ), A. Cavalieri (Hamburg), M. Meyer (Hamburg), L. Young (ANL), R. Santra (Hamburg), P. Bucksbaum (Stanford), N. Berrah (UWM), Pascal Salieres (Saclay, France), T. Augustine (Saclay, France), H. G. Muller (retired), T. Ditmire (UT Austin).

GRADUATE AND POSTDOCTORAL ADVISOR:

Prof. David E. Wood (University of Connecticut, retired)
 Prof. Harold Metcalf (SUNY Stony Brook)

POSTDOCTORAL (UNDERLINED) AND GRADUATE STUDENT ADVISOR

Gilles Doumy (Argonne Nat'l Lab), Ilya Lachko (OSU), Fabrice Catoire (CNRS Bordeaux, France), Anthony DiChiara (Argonne Nat'l Lab), Cosmin Blaga (OSU), Junliang Xu (OSU), Hui Xiong (OSU), Hyunwook Park (OSU), Todd Clatterbuck (Raytheon), Juana Rudati (Xradia), Phil Colosimo (Virginia Tech), Anne Marie March (ANL), Razvan Chirla (Romania), Jonathan Wheeler (CEA Saclay), Emily Sistrunk (Stanford/SLAC), Christoph Roedig (Traycer Systems), Stephen Schoun (OSU), Kaikai Zhang (OSU), Urszula Szafruga (OSU), Kevin Gudenkauf (OSU), Caryn Palatchi (OSU), Marco Lai (OSU), Zhou Wang (OSU), Dietrich Kieseewetter (OSU).