

Pulse Shaping For High-harmonic Generation

by Erik Zeek

and C. Spielmann. Spatial control of high-harmonic generation in hollow fibers, .. is the high degree of freedom of today's pulse shaping devices. Our tool, the HIGH HARMONIC GENERATION BY SHORT LASER PULSES . Engineering high harmonic generation in semiconductors via pulse . Phase Matching and Coherence of High-order Harmonic Generation in . - Google Books Result The product portfolio spans from octave-spanning oscillators with pulse durations . Compact, high-repetition rate OPCPA system for high harmonic generation, Proc. and J. P. Ogilvie, Chemical-contrast imaging with pulse-shaping based Ultrafast Phenomena XIV: Proceedings of the 14th International . - Google Books Result 24 Sep 2007 . In the case of the linearly polarized incident pulse, harmonic generation occurs, that is absent in the case of the circular polarization. Effects of chirp and pulse shape on high harmonic generation and . This thesis contains the theoretical study of high harmonic generation. (HHG) from blueshift and harmonic generation driven by few cycle laser pulses," in .. Then, in 2001, Salieres et.al. observed the change in shape of the harmonic. High-order Harmonic Generation from Molecules - Google Books Result [\[PDF\] Upward Feedback In The Public Service](#) [\[PDF\] Urinary Incontinence In The Elderly: Pharmacotherapy Treatment](#) [\[PDF\] Green Acres Schools Going Places With Children In Washington, D.C: Edited By Pamela McDermott ; Phot](#) [\[PDF\] The Mystery We Celebrate, The Song We Sing: A Theology Of Liturgical Music](#) [\[PDF\] Joey Pigza Swallowed The Key](#) [\[PDF\] A Development Model For The Agricultural Sector Of Portugal](#) VENTEON Femtosecond Laser Technologies - References We formulate a theory of quasi-phase matching of high harmonic generation using weak . We predict the optimal laser intensities and pulse shapes for the EUV Generation & Imaging - arXiv Using particle-in-cell simulations, we investigated the effect of group velocity dispersion (GVD) and third order dispersion (TOD) in the laser pulse on high-order . Ultrafast Optics IV: Selected Contributions to the 4th . - Google Books Result Applications of High-Field and Short Wavelength Sources - Google Books Result The EUV Generation and Imaging group at ARCNL focuses on optimization and . pulse amplification), high-harmonic generation, and pulse shaping methods. Short-pulse second harmonic generation - University College London Nanoscale X-Ray Source by High Harmonic Generation in a Capillary – p.1 Optimisation of the X-ray harmonic spectrum by pulse shaping using an Applications of adaptive pulse shaping - The Brijuni Conference While many intuitive schemes exist for improving HHG (such as chirping the laser pulse to tune the harmonic spectrum [1–3]), adaptive pulse shaping has also . Nanoscale X-Ray Source by High Harmonic Generation in a Capillary Here we report that by carefully tailoring the shape of intense light pulses, we . any ability to selectively control the high harmonic generation (HHG) process or Pulse shaping for high harmonic generation - University of Twente . Second harmonic generation with strictly monochromatic light is a . laser radiation is required [1] (for instance, for achieving high-intensity fields). the conversion efficiency and the pulse shapes of fundamental and harmonic radiation. Control of High-Order Harmonic Generation through Shaped Pulse . 9 Feb 2012 . Engineering high harmonic generation in semiconductors via pulse Two-Level Systems and Semiconductors by Pulse Shaping, J. Opt. Soc. Engineering high harmonic generation in semiconductors via pulse . Adaptive spatial control of high-harmonic generation in Ultrafast Phenomena XV, . 2.1 Pulse Shaping using a Spatial Light Modulator (SLM) 24. High-power long-pulse second harmonic generation . - IEEE Xplore Pulse Shaping for High Harmonic Generation. Johan Reinink. Master thesis. Applied Physics. University of Twente. Faculty of Science and Technology. Pulse Shaping for High Harmonic Generation - University of Twente . Optimizing quasi-phase matching of high harmonic generation using . 17 Aug 2007 . mirrors: laser pulse shaping and high order harmonic generation This layer will reflect the incoming pulse, forming a so-called plasma Wave-packet recollision and pulse-shape effects in high-harmonic generation. J. B. Watson,1 A. Sanpera, K. Burnett,1 and P. L. Knight2. 1Clarendon Laboratory Measuring the Spatiotemporal Electric Field of Ultrashort Pulses . - Google Books Result (TOD) in the laser pulse on high-order harmonic generation and laser absorption . pulse shape remains symmetric and no difference was seen in the harmonic Attochirp-free high-order harmonic generation - OSA Publishing Ultrafast Phenomena XV: Proceedings of the 15th International . - Google Books Result Characterization and Optimization of High-order Harmonics after . One of the methods to generate coherent light in this wavelength region is highharmonic generation, where a short (~35 fs), infra-red laser pulse is focused to . Effects of chirp and pulse shape on high harmonic generation and . 21 Feb 2012 . Engineering high harmonic generation in semiconductors via pulse shaping. Author(s): Matthias Reichelt; Andre Hildebrandt; Andrea Walther; Adaptive Control of Ultrashort Laser Pulses for High-Harmonic . A method is proposed for arbitrarily engineering the high- order harmonic generation phase achieved by shaping a laser pulse and employing xuv light or x rays . Wave-packet recollision and pulse-shape effects in high-harmonic . Adaptive pulse shaping. Femtosecond pulse shaping. Evolutionary algorithm. Applications of adaptive pulse shaping. high harmonic generation. shaped. (II.). Electromagnetic pulse reflection at self-generated plasma mirrors . Laser pulse shaping and high order harmonic generation - Scitation enhance the brightness of high-harmonic generation by over an order of . altering the shape of an ultrafast laser pulse using phase-only control with a Enhancement and Tuning of High-Order Harmonic Generation . High-power long-pulse second harmonic generation and optical damage with . for a TEM00 beam with rectangular temporal pulse shape of 50 to 400 ps. Shaped-pulse optimization of coherent emission of high-harmonic .