

Spatiotemporal characterization of ultrashort laser pulses using spatially resolved Fourier transform spectrometry

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We present a method for characterizing ultrashort laser pulses in space and time, based on spatially resolved Fourier transform spectrometry. An unknown pulse is interfered with a delayed, spatially uniform reference on a CCD camera. The reference pulse is created by spatially filtering a portion of the unknown pulse. By scanning the delay between the two pulses, an interferogram is obtained at each pixel, allowing us to determine the spatially resolved phase difference between the unknown pulse and the reference pulse. High-resolution spatiotemporal characterization of an ultrashort pulse is demonstrated, and the sensitivity of the method to spatiotemporal coupling is shown for the case of a pulse with pulse front tilt. © 2014 Optical Society of America

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Temporal characterization of ultrashort laser pulses is performed using a number of methods, such as frequency-resolved optical gating (FROG) [1], spectral-phase interferometry for direct electric-field reconstruction (SPIDER) [2], multiphoton intrapulse interference phase scan (MIIPS) [3], and DagScope/chirp scan [4], dispersion scan [5], and modifications of these. These methods are generally not spatially resolved, and it usually must be assumed that the pulse is transversely homogeneous. This is often not the case for few-cycle laser pulses. Even simple optical elements like lenses can introduce pulse front distortions [6]. More complicated spatiotemporal couplings may arise when using elements that induce a strong spatial dispersion (i.e., prisms and gratings) [7].

A straightforward approach to adding spatial resolution to a pulse-measurement technique is to spatially multiplex the technique across the laser beam [8]. The FROG and SPIDER techniques can be extended to include one spatial dimension, yielding information either on spatiotemporal couplings [2,9] or allowing the temporal characterization of a spatial slice of the pulse [10,11]. Other approaches rely on spatially resolved nonlinear cross-correlation with a reference pulse [12–14]. Alternatively, pulses can be spatially sampled and compared to a well-known reference pulse, either using spectral interferometry [15,16] or holographic techniques [17]. The reference pulse is often a small, homogeneous portion of the pulse itself, characterized using one of the techniques mentioned above. A convenient feature of spectral interferometric methods is the ease of alignment: an optical fiber is used for sampling the beam transversely, and the spectral phase is measured with respect to the reference pulse. Alternatively, in holographic methods, the reference beam is spatially and spectrally filtered, and a complete reconstruction can be obtained by scanning the reference wavelength with a high spatial resolution.

The method presented in this Letter is based on spatially resolved Fourier transform spectrometry, and it

is related to both spectral and holographic approaches. The principle is illustrated in Fig. 1. A well-known, homogeneous reference pulse with a variable delay is spatially interfered with the pulse to be measured on the chip of a CCD camera. The delay between the two pulses is scanned using a Mach–Zehnder interferometer, essentially corresponding to a spatially resolved linear cross-correlation. This is well known to provide the same information as spectral interferometry (a property extensively used in time-domain Fourier spectroscopy [18,19]). Each pixel of the CCD chip thus acts as a spectrometer, and the local spectral phase difference between the pulse to be measured and the reference pulse can be retrieved for each pixel. Similar techniques have been used extensively to characterize surfaces with white-light interferometers [20] and to measure distortions produced by optical elements [21].

Consider an ultrashort pulse in the spectral domain $\tilde{U}(\omega) = |\tilde{U}(\omega)| \exp i\phi(\omega)$ and the corresponding time domain complex field $U(t) = |U(t)| \exp i\varphi(t)$. The linear cross-correlation between two pulses is given by



Fig. 1. Principle of the method. The pulse is split into two by a beam splitter (BS1). The most intense part is focused with an off-axis parabola, and a pinhole is used to filter the beam and create a homogeneous spherical wave. Another beam splitter (BS2) recombines the beams, and they spatially interfere on a CCD camera chip.

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Table of Contents Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003

1. Understanding the eBook Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - The Rise of Digital Reading Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Advantages of eBooks Over Traditional Books
2. Identifying Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - User-Friendly Interface
4. Exploring eBook Recommendations from Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Personalized Recommendations

- Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 User Reviews and Ratings
- Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 and Bestseller Lists
- 5. Accessing Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 Free and Paid eBooks
 - Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 Public Domain eBooks
 - Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 eBook Subscription Services
 - Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 Budget-Friendly Options
- 6. Navigating Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 eBook Formats
 - ePub, PDF, MOBI, and More
 - Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 Compatibility with Devices
 - Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Highlighting and Note-Taking Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Interactive Elements Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
- 8. Staying Engaged with Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
- 9. Balancing eBooks and Physical Books Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Benefits of a Digital Library

- Creating a Diverse Reading Collection Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Setting Reading Goals Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Fact-Checking eBook Content of Spatially Resolved Characterization Of Local Phenomena In Mat Nanostr Vol738 Hc 2003
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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