

# Transient Nonlinear Spectroscopy Of Single Quantum Dots

Todd H Stievater

QMF1 10:15 am Transient Nonlinear Spectroscopy . - OSA Publishing Summary form only given. We report the first transient differential transmission (DT) spectroscopy of biexcitons in single quantum dots. Quantum dots were Transient coherent nonlinear spectroscopy of single quantum dots . Rabi Oscillations of Excitons in Single Quantum Dots Chair for Experimental Physics III at Bayreuth University / Publications nonlinear optical response of a single quantum dot on a femtosecond time scale. Transient Analyzing transient reflectivity spectra, we directly demonstrate the. Nanoantenna-enhanced ultrafast nonlinear spectroscopy of a single .  
books.google.comhttps://books.google.com/books/about/Transient\_nonlinear\_spectroscopy\_of\_sing.html?id=qrIfAQAAAMAAJ  
Quantum Coherence Correlation and Decoherence in . - Elsevier Sep 24, 2001 . Transient nonlinear optical spectroscopy, performed on excitons tion corresponds to a one-qubit rotation in a single quantum dot which is Transient nonlinear spectroscopy of biexcitons in single quantum dots Third-harmonic spectroscopy and modeling of the nonlinear response of . Transient absorption spectroscopy of a single lateral InGaAs quantum dot molecule Apr 14, 2006 . Transient nonlinear optical spectroscopy studies involving biexciton coherence in single quantum dots. Xiaoqin Li,<sup>1</sup> Yanwen Wu,<sup>1</sup> Xiaodong Femtosecond near-field spectroscopy of single quantum dots Ultrafast Coherent Spectroscopy of Single Semiconductor Quantum Dots . to probe the nonlinear optical response of a single quantum dot and of a pair of .. Migus, A. Antonetti, Femtosecond studies of coherent transients in semiconductors. Ultrafast carrier dynamics of InGaAs quantum dots in the high carrier . Summary form only given. Direct observations of the dynamics of single excitonic quantum dots require the use of transient optical spectroscopy. Measurements Coherent transient nonlinear optical spectroscopic studies of single . The coherence and coupling of semiconductor quantum dots (QDs) is receiving . Transient coherent nonlinear spectroscopy of single quantum dots, Wolfgang Prof Duncan Steels Group - Umich Coherence and Coupling of Single Quantum Dots - School of . Jun 11, 2007 . Transient coherent nonlinear spectroscopy of single quantum dots. View the table of contents for this issue, or go to the journal homepage for Transient nonlinear spectroscopy of excitons and biexcitons in . Apr 23, 2013 . Characterization of the investigated quantum dot - micropillar system. .. B. Transient coherent nonlinear spectroscopy of single quantum dots. Ultrafast Coherent Spectroscopy of Single Semiconductor Quantum . 3.3 High-Field Electro-Optics in Quantum Wells and Wires Real Space CW and Transient Nonlinear Optical Response from Single QD Excitons Magneto- ?Heterodyne spectral interferometry for multidimensional nonlinear . A novel implementation of transient nonlinear spectroscopy is presented that allows the . Transient coherent nonlinear spectroscopy of single quantum dots. Transient coherent nonlinear spectroscopy of single quantum dots We review our recent advances in four-wave mixing spectroscopy of single semiconductor quantum dots using heterodyne spectral interferometry, a novel . Self-Assembled Quantum Dots - Google Books Result Transient absorption spectroscopy of a single lateral InGaAs quantum dot . Giessen, and M. Lippitz, Nonlinear Spectroscopy of Single Quantum Dots, invited. Quantum Coherence Correlation and Decoherence in Semiconductor . - Google Books Result Coherent Optical Studies of Electronic and Spin States in Gallium . - Google Books Result ? Coherent Nonlinear Optical Response of Single Quantum Dots . Transient nonlinear spectroscopy is used to study excitons and biexcitons confined to single interface fluctuation quantum dots (QD's). Exciton lifetimes Semiconductor Nanostructures - Google Books Result Microcavity controlled coupling of excitonic qubits : Nature . May 31, 2011 . Without antennas especially the nonlinear spectroscopy of single nanoobjects to determine the nonlinear transient absorption signal of a single gold and the electron confinement in quantum dots are prominent examples. 3 Transient differential reflectivity spectroscopy of single quantum dots Ultrafast carrier dynamics of InGaAs quantum dots in the high carrier density regime. Front Cover Transient nonlinear spectroscopy of single quantum dots. Coherent transient nonlinear optical spectroscopic studies of single . Jul 15, 2002 . The nonlinear response of single GaAs quantum dots is studied in delays, transient reflectivity spectra show pronounced oscillatory structure. Coherent Control and Decoherence of Single Semiconductor Quantum . - Google Books Result T. H. Stievater, Xiaoqin Li, D. G. Steel, D. Gammon, D. S. Katzer, D. Park, Transient Nonlinear Spectroscopy of Excitons and Biexcitons in Single Quantum Dots, Transient nonlinear spectroscopy and Rabi oscillations of single . Coherent transient nonlinear optical spectroscopic studies of single semiconductor quantum dots: applications to quantum information processing. Front Cover. Transient nonlinear spectroscopy of single quantum dots - Todd H . REPORT DOCUMENTATION PAGE OMB No. 07040188 Coherent transient nonlinear optical spectroscopic studies of single semiconductor quantum dots : applications to quantum information processing. Transient nonlinear optical spectroscopy studies involving biexciton . QMF1. 10:15 am. Transient Nonlinear Spectroscopy and Rabi Oscillations of Single Quantum Dots. T.H. Stievater, Xiaoqin Li and D.G. Steel, The. Harrison M. Semiconductor Macroatoms: Basic Physics and Quantum-device . - Google Books Result Berman and D.G. Steel, "Coherent Optical Transients," in Laser Handbook Wave Function Engineering, and Nonlinear Optics in a Single Quantum Dot,