

## COHERENT NONLINEAR OPTICS%0A

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 Coherent nonlinear molecular spectroscopy can generate a plethora of optical signals that do not rely on fluorescence emission, which is an incoherent process. Thus they offer contrast  
[Quasi-parabolic pulses in a coherent nonlinear optical ...](#)  
 Quasi-parabolic pulses in a coherent nonlinear optical amplifier Victor V. Kozlov1,2,\* and Stefan Wabnitz2 1St. Petersburg University, Department of Physics, Petrodvoretz,  
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 of the coherent nonlinear optical response of single- and few-layer graphene using four-wave mixing. Our results demonstrate that graphene exhibits a very strong nonlinear optical response in  
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 Coherent Nonlinear Optical Processes in Semiconductors Physics and Applications . BY S. SCHWTT-RINK . The influence of monochromatic nonresonant laser fields is discussed on the elementary excitation spectrum of semiconductors. It is shown that the different renormalizations in inorganic and one- dimensional organic materials can be understood in the framework of one and the same theory  
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 Another nonlinear dissipation coherent process is two-photon absorption. Historically two-photon absorption was the first nonlinear quantum transition to be explored, having been predicted in 1931 by Goepfert-Mayer ( 76 ).  
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 Coherent Nonlinear Optical Response of Graphene E. Hendry,\* P.J. Hale, J. Moger, and A.K. Savchenko School of Physics, University of Exeter, EX4 4QL, United Kingdom  
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 of the induced nonlinear current we solve the quantum The wavelength range in our experiment is limited on the kinetic equation  $i\partial_t \rho = [\rho, H] + \hat{S}$  with the Hamiltonian long-wavelength side by the filters used and at short wavelengths by the condition that  $\hbar\Omega$  must be smaller than  $H^0$   $H^0 = 0$  ex  $E_1 \cos(\Omega_1 t) + E_2 \cos(\Omega_2 t)$ ; (3) the frequency of the 2D Raman peak in graphene, in

**Purely Coherent Nonlinear Optical Response in Solution ...**

Abstract: Second order optical nonlinear processes involve the coherent mixing of two electromagnetic waves to generate a new optical frequency, which plays a central role in a variety of applications, such as ultrafast laser systems, rectifiers, modulators, and

**[1509.05216] Few-photon coherent nonlinear optics with a ...**

Abstract: The pioneering experiments of linear spectroscopy were performed using flames in the 1800s, but nonlinear optical measurements had to wait until lasers became available in the twentieth century.

**nonlinear optics - Coherent**

Microscopy \* Optogenetics \* Ultrafast Spectroscopy \*

Non-linear Optics Dual Output, Broadly Tunable Laser for Multiphoton Imaging - Chameleon Discovery is an ultrafast tunable laser with performance that truly redefines possibilities for non-linear imaging. A combination of high average power across

**Nonlinear Optical Phenomena in Oxides and Application to a ...**

The advantages of nonlinear processes for generating tunable coherent radiation are illustrated by a tunable coherent spectrometer based on a 1.06  $\mu\text{m}$  Nd:YAG pumped angle tuned LiNbO<sub>3</sub> parametric oscillator.

**Coherent Nonlinear Optical Imaging: Beyond Fluorescence ...**

The quest for ultrahigh detection sensitivity with spectroscopic contrasts other than fluorescence has led to various novel approaches to optical microscopy of biological systems. Coherent nonlinear optical imaging, especially the recently developed nonlinear dissipation microscopy (including stimulated Raman scattering and two-photon