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# Ultrafast Nonlinear Optics

**ultrafast nonlinear optics in gas-filled hollow-core ...** - ultrafast nonlinear optics in gas-filled hollow-core photonic crystal fibers [invited] john c. travers,<sup>1,\*</sup> wonkeun chang,<sup>1</sup> johannes nold,<sup>1</sup> nicolas y. joly,<sup>2,1</sup> and philip st. j. russell<sup>1,2</sup> 1max planck institute for the science of light, g nther-scharowsky-strasse 1, 91058 erlangen, germany 2department of physics, university of erlangen-nuremberg, g nther-scharowsky-strasse 1, 91058 erlangen ... **self-similarity in ultrafast nonlinear optics** - self-similarity in ultrafast nonlinear optics recent developments in nonlinear optics have led to the discovery of a new class of ultrashort pulse, the 'optical similariton'. optical similaritons arise when the interaction of nonlinearity, dispersion and gain in a **chapter 7 ultrafast and nonlinear plasmon dynamics** - extreme nonlinear optics, and nano-photonic devices. keywords nonlinear optics ·metal optics ·plasmonics ·ultrafast dynamics 7.1 electronic excitation at metal surfaces: surface modes 7.1.1 introduction optical excitations of electrons at metal surfaces play an important role in a wide range of fundamental and applied science applications. **introduction to nonlinear optical spectroscopic techniques ...** - the aim of this lecture is to introduce the most used nonlinear optical spectroscopic techniques for investigating ultrafast processes in the condensed phase. the basic concepts of nonlinear optics (nonlinear susceptibility, nonlinear polarisation, **ultrafast nonlinear optical ...** - **opticschester** - ultrafast nonlinear optical processing in photonics integrated circuits: benjamin eggleton pg slow light enhanced arc laureate fellow director, cudos - australian centre of excellence centre for ultrahighfor ultrahigh-bandwidth devices for optical systemsbandwidth devices for optical systems institute of photonics and optical science (ipos) **self-similarity in ultrafast nonlinear optics - researchgate** - self-similarity in ultrafast nonlinear optics john m dudley d partement d'optique p. m. duffieux, institut femto-st, cnrs umr 6174 universit  de franche-comt , 16 route de gray, 25030 ... **nonlinear optical imaging and spectroscopy with ultrafast ...** - and diffractive optics, we successfully eliminated the mechanical scanning along depth dimension, and therefore the three-dimension nonlinear imaging including second harmonic generation (shg), two-photon absorption (tpa) and confocal can be significantly expedited. in the chapter 2 of this thesis, i will describe two of my ph.d. **ultrafast non-linear optics - unisubria** - ultrafast non-linear optics starting from nonlinear optics, we contributed in merging expertise from the ultrafast, spatial soliton-and-pattern and linear optics communities, which boosted the growth of the "space-time" light localization investigation. the research currently outlines nonlinear conical waves as the best candidate for a ...

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