

# Exploring the mode conversion of a vector vortex beam in second-harmonic generation using a periodically poled nonlinear photonic $\text{KTiOPO}_4$ crystal

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The nonlinear interactions between structured beams with spatially varying polarization and matter extend the boundaries of fundamental nonlinear optics, opening new avenues for applications across various fields. In this work, the second-harmonic generation (SHG) of vector beams with two orthogonal polarization components of vortices in a periodically poled crystal (PPC) is demonstrated both theoretically and experimentally. Potassium titanyl phosphate  $\text{KTiOPO}_4$  (KTP) is chosen as the PPC for its excellent nonlinear-optical properties. Notably, for a given vector light field, adjusting the initial phase of the vector beam allows for the varying outputs of SHG. In addition, SHG outputs with one, two, or three vortices are achieved by rotating a polarizer to modulate the fundamental light, and the proportion weights of the three vortex terms within the SHG are dependent on the rotating angles of the polarizer. Our findings provide a foundational understanding and offer new insights into the study of full-field selection rules in specific nonlinear processes within superlattices. © 2025 Optica Publishing Group. All rights, including for text and data mining (TDM), Artificial Intelligence (AI) training, and similar technologies, are reserved.

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## 1. INTRODUCTION

Light-matter interaction has triggered numerous novel phenomena and concepts since the invention of the laser. As a fundamental nonlinear optical effect, second-harmonic generation (SHG) has been extensively studied and applied in various research areas. Structured light fields with spatially variant polarization distributions have given rise to many new physical phenomena [1–3]. Due to their customizable spatial polarization distributions, phase, and amplitude, structured light fields have revealed novel characteristics and applications, leading to significant advancements in emerging fields such as particle micromanipulation [4], chiral microstructures [5], optical information transmission [6], remote sensing [7], free space polarization conversion [8], super-resolution imaging [9], quantum information [10], and nonlinear frequency conversion [11–15]. Remarkably, in the realm of nonlinear optics, a material system's electric dipole moment (or nonlinear polarization) is highly dependent on the spatial distribution profiles of the strength, phase, and state of polarization (SoP) of an applied optical field. Consequently, structured light fields interacting with matter offer additional degrees of freedom to

manipulate nonlinear optical processes. Nonlinear polarization driven by a structured light field with spatially varying SoP is particularly sensitive to the vectorial structure of an applied field. Thus, light-matter interaction with structured light fields not only deepens our understanding but also enhances the fundamental capabilities of nonlinear optics. Moreover, the structured light field could be flexibly manipulated across multiple dimensions through nonlinear optical processes in both the spatial and the frequency domains [14–18]. In particular, the second-order nonlinear optical interaction requires a material to exhibit birefringence to satisfy phase-matching conditions. During these nonlinear interactions, light waves exchange energy, linear momentum, and angular momentum [19]. The direction of energy flow between frequency components is typically governed by conventional phase-matching conditions associated with linear momentum [19]. In nonlinear optics, phase-matching conditions or linear momentum conservation facilitate a net positive energy flow from the fundamental to harmonic frequencies [20,21]. Therefore, structured light fields with customized SoP vector structures and unique spatial phase

# Nonlinear Optics volume 43

**Ivan Andonovic, Deepak  
Uttamchandani**



## **Nonlinear Optics volume 43:**

*Optical Properties of Metals and Intermolecular Interactions / Opticheskie Svoistva Metallov / Mezhmolekulyarnoe Vzaimodeistvie / Оптические Свойства Металлов / Межмолекулярное Взаимодействие* D. V. Skobel'tsyn, 2012-12-06

The first part of this collection sets out the results of some experimental and theoretical investigations into the optical properties of nontransition metals. The extensive future prospects of metal optics are indicated. The use of metal optics enables a whole series of important electron properties of metals to be determined. Results obtained by studying intermolecular forces, the hydrogen bond and van der Waals forces using spectroscopic methods (Raman effect and infrared absorption) are presented in the second part. A method of studying the true absorption of the drop phase of a water cloud is described. Methods of increasing the dispersion of manufactured spectral instruments and constructing various infrared spectrometers are indicated. The publication is intended for scientific workers, graduates and students concerned with problems of metal optics, the electron properties of metals and molecular spectroscopy.

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**Advances in Optics, Vol. 3** Sergey Yurish, 2018-04-26

*Advances in Optics Reviews Book Series* is a comprehensive study of the field of optics which provides readers with the most up to date coverage of optics, photonics and lasers with a good balance of practical and theoretical aspects. Directed towards both physicists and engineers, this Book Series is also suitable for audiences focusing on applications of optics. The Vol 3 is devoted to various topics of applied optics and contains 17 chapters written by 49 experts in the field from 14 countries: Australia, China, India, Israel, Italy, Japan, Malaysia, Mexico, The Netherlands, Poland, Taiwan, UK, USA, Vietnam. A clear comprehensive presentation makes these books work well as both a teaching resource and a reference book. The book is intended for researchers and scientists in physics and optics in academia and industry as well as postgraduate students.

*Introduction to non-Kerr Law Optical Solitons*  
Anjan Biswas, Swapan Konar, 2006-11-10

Despite remarkable developments in the field, a detailed treatment of non-Kerr law media has not been published. *Introduction to non-Kerr Law Optical Solitons* is the first book devoted exclusively to optical soliton propagation in media that possesses non-Kerr law nonlinearities. After an introduction to the basic features of fiber optics, com.

*Progress in Optics* Emil Wolf, 2006-10-03

In the thirty seven years that have gone by since the first volume of *Progress in Optics* was published, optics has become one of the most dynamic fields of science. At the time of inception of this series, the first lasers were only just becoming operational, holography was in its infancy, subjects such as fiber optics, integrated optics and optoelectronics did not exist, and quantum optics was the domain of only a few physicists. The term photonics had not yet been coined. Today these fields are flourishing and have become areas of specialisation for many science and engineering students and numerous research workers and engineers throughout the world. Some of the advances

in these fields have been recognized by awarding Nobel prizes to seven physicists in the last twenty years The volumes in this series which have appeared up to now contain nearly 190 review articles by distinguished research workers which have become permanent records for many important developments They have helped optical scientists and optical engineers to stay abreast of their fields There is no sign that developments in optics are slowing down or becoming less interesting Gaussian apodization and beam propagation Electromagnetically induced transparency Three dimensional electromagnetic fields Quantum cryptography Optical quantum cloning

**Proceedings (Trudy) of the P.N. Lebedev Physics Institute**,1973 **Optical Properties of Semiconductors** N. G. Basov,2012-12-06 **Stellarators** Dmitrii Vladimirovich Skobel'tsin,1975 NBS Special Publication ,1970 **Selected Papers on Nonlinear Optical Spectroscopy** Jeffrey H. Hunt,2000 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics **Principles of Modern Optical Systems** Ivan Andonovic,Deepak Uttamchandani,1989 **Precision Measurement and Calibration: Electricity** ,1961 *Physical Processes in Lasers* Dmitrii Vladimirovich Skobel'tsin,1973-08 The present collection of articles sets forth the results of experimental research on physical processes in various types of optical quantum devices lasers Data are presented on the regulation of the temporal and spectral characteristics of solid state lasers using a bleachable filter A mode self locking state is realized in which ultrafast light pulses are emitted The stimulated emission in a pinch discharge due to transitions of singly and doubly ionized argon atoms in the visible and ultraviolet parts of the spectrum is investigated Pulsed lasing associated with electron transitions in diatomic molecules at the leading edge of a powerful current pulse in a gas is subjected to systematic analysis The book is aimed at a broad spectrum of scientists and engineers specializing in quantum radiophysics CONTENTS MODE DISCRIMINATION AND THE SELF LOCKING EFFECT IN SOLID STATE LASERS USING A BLEACHABLE FILTER A S Markin Introduction 1 Chapter 1 Q Switching of Lasers by Means of a Passive Shutter 5 1 Operating Principle and Types of Passive Shutters 5 2 Q Switching of Neodymium Glass Lasers by Means of a Bleachable Liquid Filter 6 3 Dependence of the Width and Shape of the Giant Pulse on the Population Inversion Coefficient Physical Investigations in Strong Magnetic Fields Dmitrii Vladimirovich Skobel'tsin,1974 *Bulletin of the Academy of Sciences of the USSR.* Академия наук СССР,1987 **Quantum Electronics in Lasers and Masers** ,1968 **Micro Nano Devices, Structure and Computing Systems II** De Huai Zeng,2013-03-25 Selected peer reviewed papers from the 2013 2nd International Conference on Micro Nano Devices Structure and Computing Systems MNDSCS 2013 January 23 24 2013 Shenzhen China

**Nuclear Reactions and Interaction of Neutrons and Matter** Dmitrii Vladimirovich Skobel'tsin,1975 Contents Theory of Nonstationary thermalization of neutrons Germanium gamma radiation detectors used in investigating the scattering of neutrons Fast neutron collimator for measuring inelastic scattering by nuclei Measurement of spectra of fast neutrons using photoemulsions with high energy resolution Method of determining angular distributions in the scattering of

fast neutrons using photoemulsions Interaction of deuterons with tritium and helium 3 at low energies Lithium drifted silicon detectors Experimental verification of a method for calculating photonuclear reaction cross sections based on mathematical statistics Transfer of data from amplitude analyzer to Ural 11B electronic computer Regularization in the problem of the cross sections of photonuclear reactions      **Spectroscopy of Laser Crystals with Ionic Structure** Dmitrii Vladimirovich Skobel'tsin, 1974-09      *Quantum Electronics in Lasers and Masers* D. V. Skobel'tsin, 1995-12-31      **Programming and Computer Techniques in Experimental Physics** Dmitrii Vladimirovich Skobel'tsin, 1970

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web the timing belt allows the crankshaft to drive the camshafts in the cylinder head at half the rpms of the crankshaft the camshafts then open and close the engine s intake and exhaust valves in time with the movement and position of the pistons in the engine when to replace the timing belt every 60k 90k miles

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warranty find a mechanic for a timing belt replacement although not all cars have timing belts those that do must have the belt replaced on a routine basis

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