

Exploring the mode conversion of a vector vortex beam in second-harmonic generation using a periodically poled nonlinear photonic 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 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

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