
Optical Vortices Swartzlander Grover A

generation and propagation of optical vortices - generation and propagation of optical vortices by davidrozas adissertation submittedtothefaculty ofthe worcesterpolytechnicinstitute ... **white-light optical vortices - arxiv** - arxiv:physics/0508072v1 [physics.optics] 11 aug 2005 focusing and correlation properties of white-light optical vortices vladlen shvedov^{1,2}, wieslaw krolkowski³, alexander volyar², dragomir n. neshev¹, anton s. desyatnikov¹, and yuri s. kivshar¹ ¹nonlinear physics center, research school of physical sciences and engineering, australian national university, canberra act 0200, australia **propagation dynamics of optical vortices - rit center for ...** - propagation dynamics of optical vortices d. rozas department of physics, worcester polytechnic institute, worcester, massachusetts 01609-2280 c. t. law department of electrical engineering and computer science, university of wisconsin, milwaukee, wisconsin 53201 g. a. swartzlander, jr. **nonlinear dynamics of two-color optical vortices in ...** - nonlinear dynamics of two-color optical vortices in lithium niobate crystals alexander dreischuh^{1,2}, dragomir n. neshev¹, vesselin z. kolev³, solomon saltiel^{1,2}, marek samoc³, wieslaw krolkowski³, and yuri s. kivshar¹ ¹nonlinear physics center, research school of physical sciences and engineering, australian national university, canberra act 0200, australia **achromatic optical vortex lens - pdfsmanticscholar** - vortices may also be expected to provide propagation dynamics that differ from naturally occurring vortices such as those in caustics¹² and those from chromatic vortex masks.¹³⁻¹⁶ an optical vortex of topological charge m may be induced on a noncirculating wave front (a plane wave for example) by an optical element having the following **controllable motion of optical vortex arrays using ...** - controllable motion of optical vortex arrays using electromagnetically induced transparency david shwa, evgeny shtravasser, yoni shalibo and nadav katz the racah institute of physics, the hebrew university, jerusalem 91904, israel davidwa@mailji abstract: the ability to control optical vortices is a desired feature in numerous ... **composite optical vortices - rit center for imaging science** - composite optical vortices ivan d. maleev and grover a. swartzlander, jr. optical sciences center, university of arizona, tucson, arizona 85721 received october 7, 2002; revised manuscript received february 19, 2003 composite optical vortices may form when two or more beams interfere. using analytical and numerical tech- **propagation dynamics of optical vortices due to gouy phase** - the path of the vortices have been shown to appear [6, 7, 8]. the applications of optical vortices are intriguing and interesting, from the manipulation of objects in optical tweezers [9] to the encoding of information [10, 11]. in this article we study the simplest scenario of dynamical propagation of off-axis optical vortices. **crafting the core asymmetry to lift the degeneracy of ...** - crafting the core asymmetry to lift the degeneracy of optical vortices . ashok kumar, * pravin vaity, and r. p. singh . theoretical physics division, physical research laboratory, ahmedabad 380 ... **partial coherence and optical vortices** - partial coherence and optical vortices by ivan maleev a dissertaion submitted to the faculty of the worcester polytechnic institute in partial fulfillment of the requirements for the degree of doctor of philosophy in physics by ____ june 9th, 2004 approved: ____ dr. grover a. swartzlander, jr. dissertation advisor **formation of optical vortices using coherent laser beam arrays** - formation of optical vortices using coherent laser beam arrays li-gang wang,¹ 2 * li-qin wang,¹ and shi-yao zhu ^{1, 2, 3} ¹ department of physics, zhejiang university, hangzhou 310027, china ² department of physics, the chinese university of hong kong, shatin, n. t., hong kong, china ³department of physics, hong kong baptist univerisity, kowloon tong, hong kong, china **white-light optical vortex coronagraph - rit scholar works** - white-light optical vortex coronagraph prachyathit kanburapa ... dr. grover swartzlander, for his supervision and guidance from the start to the very end of this thesis. he gave me tremendous knowledge and experience, which make ... optical vortices are ubiquitous in nature [1] and can be generated in the laboratory. the **ruane, g. j., swartzlander, g. a., slussarenko, s ...** - the advent of optical vortices [1-4] has lead to applications in areas as diverse as astronomical and sub-resolution imaging [5-7], spinning bose-einstein condensates [8], and quantum entanglement [9]. a vortex wave function is distinguished by a nodal point in the beam cross section, around which the scalar **the optical vortex coronagraph - iopscience** - is introduced to describe why vortices of even topological charge produce a black hole surrounded by a 'ring of fire'. many practical design features that may affect the performance of the coronagraph are also described. 2. optical design the optical vortex coronagraph is arranged in a fourier

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