

ICP Series in Advances in Optics, Photonics and Optoelectronics

# Optical Vortices

Fundamentals and applications

Yuanjie Yang

Ya-Xuan Ren

Carmelo Rosales-Guzmán



# Singular Optics Optical Vortices Fundamentals And Applications Spie Proceedings Series

**JS Bruner**



## **Singular Optics Optical Vortices Fundamentals And Applications Spie Proceedings Series:**

*Second International Conference on Singular Optics (Optical Vortices)* Marat Samuilovich Soskin, M. Vasnetsov, 2001

In Memory of Akira Tonomura K. Fujikawa, 2014 This memorial volume in honor of Dr Akira Tonomura is to commemorate his enormous contributions to fundamental physics in addition to the basic technology of electron microscopy Dr Tonomura passed away on May 2 2012 at the age of 70 He was Fellow of Hitachi Ltd Group Director of Single Quantum Dynamics Research Group of RIKEN Principal Investigator of the FIRST Tonomura Project and Professor of Okinawa Institute of Science and Technology Graduate University The book consists of 1 contributions from distinguished physicists who participated in the OC Tonomura FIRST International Symposium on Electron Microscopy and Gauge FieldsOCO planned by Tonomura himself and held in Tokyo on May 9OCO10 2012 and 2 reprints of key papers by Tonomura and his team Invited speakers at this Symposium include Chen Ning Yang and other distinguished physicists such as Yakir Aharonov Gordon Baym Christian Colliex Anthony J Leggett Naoto Nagaosa Nobuyuki Osakabe and Masahito Ueda This OC memorialOCO Symposium was originally planned to commemorate the start of the Japanese government sponsored FIRST Tonomura Project to construct the 1.2 MV holography electron microscope capable of observing quantum phenomena in the microscopic world In addition the book includes contributions from participants of the past ISQM Tokyo symposia held at Hitachi and from Tonomura's longtime friends including Michael Berry Jerome Friedman Hidetoshi Fukuyama Joseph Imry Yoshinori Tokura Jaw Shen Tsai and Anton Zeilinger The co editors are Kazuo Fujikawa Tonomura's longtime friend and Yoshimasa A Ono who is Tonomura's associate at Hitachi Advanced Research Laboratory and now in the FIRST Tonomura Project Contents My Dream of Ultimate Holography Electron Microscope Akira Tonomura Biography of Akira Tonomura April 1942 OCo May 2012 Nobuyuki Osakabe Tonomura FIRST International Symposium on OC Electron Microscopy and Gauge FieldsOCO Yoshimasa A Ono Recollections of Akira Tonomura Thank You and Farewell to Tonomura kun Hidetoshi Fukuyama Remembering Akira Tonomura Michael Berry Akira Tonomura An Experimental Visionary Anton Zeilinger Dr Akira Tonomura Master of Experimental Physics Kazuo Fujikawa Gauge Theory and Aharonov Bohm Effect Topology and Gauge Theory in Physics Chen Ning Yang On the Aharonov Bohm Effect and Why Heisenberg Captures Nonlocality Better Than Schrödinger Yakir Aharonov How the Test of Aharonov Bohm Effect was Initiated at Hitachi Laboratory Nobuyuki Osakabe Some Reflections Concerning Geometrical Phases Anthony J Leggett and Yiruo Lin Mesoscopic Aharonov Bohm Interferometers Decoherence and Thermoelectric Transport Ora Entin Wohlman Amnon Aharony and Yoseph Imry Spin Textures and Gauge Fields in Frustrated Magnets Naoto Nagaosa and Yoshinori Tokura Gauge Theory and Artificial Spin Ices Imaging Emergent Monopoles with Electron Microscopy Shawn D Pollard and Yimei Zhu Do Dispersionless Forces Exist Herman Batelaan and Scot McGregor Aharonov Bohm Effect and Geometric Phases OCo Exact and Approximate Topology Kazuo Fujikawa A Brief Overview and Topological Aspects of Gaseous Bose Einstein Condensates Masahito Ueda Application of Electron Microscopy

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**Cryptology Transmitted Message Protection** Igor Izmailov, Boris Poizner, Ilia Romanov, Sergey Smolskiy, 2016-06-24 This book presents methods to improve information security for protected communication It combines and applies interdisciplinary scientific engineering concepts including cryptography chaos theory nonlinear and singular optics radio electronics and self changing artificial systems It also introduces additional ways to improve information security using optical vortices as information carriers and self controlled nonlinearity with nonlinearity playing a key evolving role The proposed solutions allow the universal phenomenon of deterministic chaos to be discussed in the context of information security problems on the basis of examples of both electronic and optical systems Further the book presents the vortex detector and communication systems and describes mathematical models of the chaos oscillator as a coder in the synchronous chaotic communication and appropriate decoders demonstrating their efficiency both analytically and experimentally Lastly it discusses the cryptologic features of analyzed systems and suggests a series of new structures for confident communication

**Directory of Published Proceedings**, 2002 **Proceedings**, 2005 **Journal of the Optical Society of America**, 2003 **International Conference on Singular Optics** Marat Samuilovich Soskin, 1998 These papers were taken from a conference on singular optics They address topics such as paraxial beams of spinning light diffraction catastrophes and wave caustics of multimode fibres and visualization of the phase singularities in wavefront sensors **LaserOpto**, 2000 Publications in Engineering, 2002 Bulletin (new Series) of the American Mathematical Society, 2003 *Books in Print Supplement*, 2002 *Advances in Atomic, Molecular, and Optical Physics*, 2009-08-04 This volume continues the tradition of the Advances series It contains contributions from experts in the field of atomic molecular and optical AMO physics The articles contain some review material but are intended to provide a comprehensive picture of recent important developments in AMO physics Both theoretical and experimental articles are included in the volume International experts Comprehensive articles New developments *Bulletin of the American Mathematical Society*, 2003 International Aerospace Abstracts, 1999 *Free-space Laser Communications*, 2005 *Electrical & Electronics*

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