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Complex Light and Optical Forces VII

**Jesper Glückstad
David L. Andrews
Enrique J. Galvez**
Editors

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The CID Number appears on each page of the manuscript. The complete citation is used on the first page, and an abbreviated version on subsequent pages. Numbers in the index correspond to the last two digits of the six-digit CID Number.

Contents

- vii *Conference Committee*
- ix *Introduction*
- xi *Group IV photonics for the mid infrared (Plenary Paper) [8629-1]*
R. Soref, The Univ. of Massachusetts at Boston (United States)

OPTO PLENARY SESSION

- 8637 02 **Light in a twist: optical angular momentum (Plenary Paper) [8637-2]**
M. J. Padgett, Univ. of Glasgow (United Kingdom)

OPTICAL ANGULAR MOMENTUM

- 8637 05 **Intensity correlation between fractional incoherent vortices [8637-5]**
A. J. Jesus-Silva, J. M. Hickmann, E. J. S. Fonseca, Univ. Federal de Alagoas (Brazil)
- 8637 06 **Imaging optical singularities: Understanding the duality of C-points and optical vortices [8637-6]**
E. J. Galvez, B. L. Rojec, K. R. McCullough, Colgate Univ. (United States)
- 8637 07 **Directions in optical angular momentum [8637-7]**
M. M. Coles, D. L. Andrews, Univ. of East Anglia Norwich (United Kingdom)

OPTICAL FORCES

- 8637 09 **Self-trapping and back-action effects in hollow photonic crystal cavity optical traps [8637-9]**
N. Descharmes, U. P. Dharanipathy, Z. Diao, M. Tonin, R. Houdré, Ecole Polytechnique Fédérale de Lausanne (Switzerland)
- 8637 0A **Calculation of the force acting on a micro-sized particle with optical vortex array laser beam tweezers [8637-10]**
C.-F. Kuo, S.-C. Chu, National Cheng Kung Univ. (Taiwan)
- 8637 0D **Complete azimuthal decomposition of optical fields [8637-42]**
A. Dudley, I. Litvin, F. S. Roux, CSIR National Laser Ctr. (South Africa); A. Forbes, CSIR National Laser Ctr. (South Africa) and Univ. of KwaZulu-Natal (South Africa) and Stellenbosch Univ. (South Africa)
- 8637 0E **Spatial principal states and vortex modes in optical fiber for communications [8637-50]**
D. A. Nolan, Corning, Inc. (United States); G. Milione, R. R. Alfano, The City College of New York, CUNY (United States) and CUNY Graduate Ctr. (United States)

DYNAMIC OPTICS I

- 8637 OG **Optical manipulation, beam-shaping and scanner-free bright-field and dark-field imaging via multimode optical fibre** [8637-14]
T. Čižmár, K. Dholakia, Univ. of St. Andrews (United Kingdom)
- 8637 OI **The role of propagation invariant light modes in single and multi-photon imaging** [8637-16]
T. Vettenburg, H. I. C. Dalgarno, T. Čižmár, K. Dholakia, Univ. of St. Andrews (United Kingdom)
- 8637 OJ **Efficient formation of extended line intensity patterns using matched-filtering generalized phase contrast** [8637-17]
A. Bañas, D. Palima, T. Aabo, J. Glückstad, Technical Univ. of Denmark (Denmark)

DYNAMIC OPTICS II

- 8637 OM **MEMS axicons for nondiffracting line shaping of ultrashort pulses** [8637-20]
A. Treffer, S. K. Das, M. Bock, Max-Born-Institut für Nichtlineare Optik und Kurzzeitspektroskopie (Germany); J. Brunne, U. Wallrabe, Univ. of Freiburg (Germany); R. Grunwald, Max-Born-Institut für Nichtlineare Optik und Kurzzeitspektroskopie (Germany)
- 8637 ON **A method to calculate arbitrary linear polarized laser beam evolutions in GRIN lenses** [8637-21]
K.-F. Tsai, S.-C. Chu, National Cheng Kung Univ. (Taiwan)

QUANTUM I: JOINT SESSION WITH CONFERENCES 8635 AND 8637

- 8637 OP **Orbital angular momentum of photons, atoms, and electrons (Invited Paper)** [8637-23]
S. Franke-Arnold, Univ. of Glasgow (United Kingdom)
- 8637 OR **Down-converted bi-photons in a Bessel-Gaussian basis** [8637-25]
F. S. Roux, CSIR National Laser Ctr. (South Africa); M. McLaren, CSIR National Laser Ctr. (South Africa) and Univ. of Stellenbosch (South Africa); M. J. Padgett, Univ. of Glasgow (United Kingdom); A. Forbes, CSIR National Laser Ctr. (South Africa) and Univ. of Stellenbosch (South Africa) and Univ. of Kwazulu-Natal (South Africa); T. Konrad, Univ. of Kwazulu-Natal (South Africa) and National Institute of Theoretical Physics (South Africa)

COMPLEX LIGHT SYNTHESIS AND PROPAGATION

- 8637 OT **New horizons for supercontinuum light sources: from UV to mid-IR (Invited Paper)** [8637-27]
C. L. Thomsen, F. D. Nielsen, J. Johansen, C. Pedersen, P. M. Moselund, NKT Photonics A/S (Denmark); U. Møller, S. T. Sørensen, Technical Univ. of Denmark (Denmark); C. Larsen, NKT Photonics A/S (Denmark); O. Bang, Technical NKT Photonics A/S (Denmark) and Univ. of Denmark (Denmark)
- 8637 OU **Topological ergodic dynamics of optical singularities in laser-induced speckle fields following "optical damage" of photorefractive LiNbO₃: Fe crystal** [8637-28]
M. Soskin, V. Vasil'ev, Institute of Physics (Ukraine)

- 8637 0V **LC nanocomposites: induced optical singularities, managed nano/micro structure, and electrical conductivity** [8637-29]
V. V. Ponevchinsky, Institute of Physics (Ukraine); A. I. Goncharuk, F. D. Ovcharenko Institute of Biocolloidal Chemistry (Ukraine); V. G. Denisenko, Institute of Physics (Ukraine); N. I. Lebovka, F. D. Ovcharenko Institute of Biocolloidal Chemistry (Ukraine); L. N. Lisetski, M. I. Nesterenko, V. D. Panikarskaya, Institute of Scintillation Materials (Ukraine); M. S. Soskin, Institute of Physics (Ukraine)
- 8637 0X **Higher order mode propagation in ultrathin optical fibers for atom traps** [8637-31]
F. K. Fatemi, Naval Research Lab. (United States); S. Ravets, Lab. Charles Fabry, Institut d'Optique, CNRS Univ. Paris-Sud (France); J. E. Hoffman, Joint Quantum Institute, UMD and NIST (United States); G. Beadie, Naval Research Lab. (United States); S. L. Rolston, L. A. Orozco, Joint Quantum Institute, UMD and NIST (United States)

LIGHT, MICROSTRUCTURES, AND OPTICAL ROBOTICS

- 8637 0Y **Fabrication and optical trapping of handling structures for re-configurable microsphere magnifiers** [8637-32]
A. Bañas, Technical Univ. of Denmark (Denmark); G. Vizsnyiczai, A. Búzás, Biological Research Ctr. (Hungary); D. Palima, Technical Univ. of Denmark (Denmark); L. Kelemen, P. Ormos, Biological Research Ctr. (Hungary); J. Glückstad, Technical Univ. of Denmark (Denmark)
- 8637 0Z **Optical micro-assembling of non-spherical particles** [8637-33]
S. I. Ksouri, A. Aumann, R. Ghadiri, A. Ostendorf, Ruhr-Univ. Bochum (Germany)
- 8637 10 **Optimising forces and torques for optical micromanipulation** [8637-34]
S. H. Simpson, D. B. Phillips, S. Hanna, Univ. of Bristol (United Kingdom)
- 8637 11 **Adapting an optical nanoantenna for high E-field probing applications to a waveguided optical waveguide (WOW) (Invited Paper)** [8637-35]
L. Rindorf, J. Glückstad, Technical Univ. of Denmark (Denmark)

OPTICAL ENERGY AND MOMENTUM

- 8637 13 **Azimuthal polarization for Raman enhancement in capillary waveguides** [8637-37]
J. C. Mullen, M. P. Buric, S. D. Woodruff, National Energy Technology Lab. (United States)
- 8637 14 **Optimized systems for energy efficient optical tweezing** [8637-38]
R. Kampmann, R. Kleindienst, A. Grewe, E. Bürger, A. Oeder, S. Sinzinger, Technische Univ. Ilmenau (Germany)
- 8637 15 **Single laser beam based passive optical sorter** [8637-39]
O. Brzobohatý, V. Karásek, M. Šiler, L. Chvátal, Institute of Scientific Instruments (Czech Republic); T. Čížmár, Univ. of St. Andrews (United Kingdom); P. Zemánek, Institute of Scientific Instruments (Czech Republic)

COMPLEX LIGHT DECOMPOSITION AND ANALYSIS

- 8637 16 **Analytical techniques for the study of focused beams (Invited Paper)** [8637-40]
M. A. Alonso, Institute of Optics, Univ. of Rochester (United States)
- 8637 17 **Mode analysis using the correlation filter method** [8637-41]
D. Flamm, C. Schulze, Friedrich-Schiller-Univ. Jena (Germany); D. Naidoo, Council for Scientific and Industrial Research National Laser Ctr. (South Africa); A. Forbes, Council for Scientific and Industrial Research National Laser Ctr. (South Africa) and Univ. of KwaZulu-Natal (South Africa); M. Duparré, Friedrich-Schiller-Univ. Jena (Germany)
- 8637 18 **Implementing optical tweezers at high pressure in a diamond anvil cell** [8637-49]
R. W. Bowman, Univ. of Glasgow (United Kingdom) and Univ. of Cambridge (United Kingdom); F. Saglimbeni, Univ. degli Studi di Roma La Sapienza (Italy); G. M. Gibson, Univ. of Glasgow (United Kingdom); R. Di Leonardo, Univ. degli Studi di Roma La Sapienza (Italy); M. J. Padgett, Univ. of Glasgow (United Kingdom)
- 8637 19 **Modal decomposition for measuring the orbital angular momentum density of light** [8637-43]
C. Schulze, D. Flamm, Friedrich-Schiller-Univ. Jena (Germany); A. Dudley, A. Forbes, Council for Scientific and Industrial Research, National Laser Ctr. (South Africa); M. Duparré, Friedrich-Schiller-Univ. Jena (Germany)
- 8637 1A **Polarization singularities and fiber modal decomposition** [8637-44]
V. Kumar, N. K. Viswanathan, Univ. of Hyderabad (India)

POSTER SESSION

- 8637 1C **Efficient sorting of Bessel beams** [8637-46]
T. Mhlanga, CSIR National Laser Ctr. (South Africa) and Stellenbosch Univ. (South Africa); A. Dudley, A. McDonald, F. S. Roux, CSIR National Laser Ctr. (South Africa); M. Lavery, M. Padgett, Univ. of Glasgow (United Kingdom); A. Forbes, CSIR National Laser Ctr. (South Africa) and Stellenbosch Univ. (South Africa) and Univ. of KwaZulu-Natal (South Africa)

Author Index

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Arizona (United States)

Session Chairs

- 1 Optical Angular Momentum
 Marat S. Soskin, Institute of Physics (Ukraine)
 - 2 Optical Forces
 Enrique J. Galvez, Colgate University (United States)
 - 3 Dynamic Optics I
 Ruediger Grunwald, Max-Born-Institut für Nichtlineare Optik und
 Kurzeitspektroskopie (Germany)
 - 4 Dynamic Optics II
 Jesper Glückstad, Danmarks Tekniske Universitet (Denmark)
 - 5 Quantum I: Joint Session with Conferences 8635 and 8637
 David L. Andrews, University of East Anglia Norwich (United Kingdom)
 - 6 Quantum II: Joint Session with Conferences 8635 and 8637
 John C. Howell, University of Rochester (United States)
 - 7 Complex Light Synthesis and Propagation
 Wolfgang A. Ertmer, Leibniz Universität Hannover (Germany)
 - 8 Light, Microstructures, and Optical Robotics
 Halina Rubinsztein-Dunlop, The University of Queensland (Australia)
 - 9 Optical Energy and Momentum
 Miles J. Padgett, University of Glasgow (United Kingdom)
 - 10 Complex Light Decomposition and Analysis
 Simon Hanna, University of Bristol (United Kingdom)
- Closing Remarks
 David L. Andrews, University of East Anglia Norwich (United Kingdom)

Introduction

This year marked the seventh edition of the conference on Complex Light and Optical Forces that is part of Photonics West. We again had a record number of submissions, indicative of the rising visibility and stature of this conference. Indeed, Complex Light and Optical Forces is still the only yearly venue worldwide for presenting research on complex light. Due to the increasing amount of research in using complex light in quantum information, we again organized successful joint sessions with the conferences 8635 and 8637.

This year the conference had for the first time three full days of sessions with the following 10 sessions: Optical Angular Momentum; Optical Forces; Dynamic Optics I; Dynamic Optics II; Quantum I; Quantum II; Complex Light Synthesis and Propagation; Light, Microstructures and Optical Robotics; Optical Energy and Momentum; and Complex Light Decomposition and Analysis. The conference featured more than 50 presentations, with numerous invited, contributed, and poster presentations.

Bringing these papers to the SPIE proceedings provides a welcome opportunity to thank all the contributors. In particular we gladly acknowledge the support of the members of our highly active and supportive Program Committee, whose sterling work underpins the success of this conference each year. We remain indebted to the SPIE staff at every level, for reliable management and production processes, achieved with customary hallmark professionalism.

In summary, the present volume is representative of a strongly growing field of photonics that has contributed much to our understanding of light and its applications in manipulation, and which remains leaving much promise of more to come.

Jesper Glückstad
David L. Andrews
Enrique J. Galvez
Marat S. Soskin