Curriculum Vitae

doc. Mgr. Ladislav Mišta, Ph.D.

1. Personal Details

Name: Ladislav Mišta
Date of birth: 15.5. 1972
Marital status: married
Affiliation: Department of Optics, Palacký University,17. listopadu 12, 771 46 Olomouc, Czech Republic
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2. Qualifications and Career History

January 2016 habilitation in optics and optoelectronics, Department of Optics, Faculty of Natural Sciences, Palacky University, Olomouc, Czech Republic, doc. (an equivalent of Associate Professor).

2003-now senior researcher at the Department of Optics, Faculty of Natural Sciences, Palacky University, Olomouc, Czech Republic.

June 2003 Ph.D. degree, Department of Optics, Faculty of Natural Sciences, Palacky University, Olomouc, Czech Republic.

1995-2000 postgraduate studies, Department of Optics, Faculty of Natural Sciences, Palacky University, Olomouc, Czech Republic, supervised by prof. Jan Perina. (October 1997-March 1999-studies interrupted due to the community service.)

1990-1995 university studies,1990-1993-theoretical physics, Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic; 1993-1995-Department of Optics, Faculty of Natural Sciences, Palacky University, Olomouc, Czech Republic, Mgr. (an equivalent of Master of Sciences).

2007 March-August (6 months), Research Fellow at the group of dr. N. Korolkova, School of Physics and Astronomy, University of St. Andrews, St. Andrews, Scotland, UK.

2010 May-November (7 months), Research Fellow at the group of dr. N. Korolkova, School of Physics and Astronomy, University of St. Andrews, St. Andrews, Scotland, UK.

3. Teaching activities

Lectures (compulsory):

Selected parts from mathematical analysis (OPT/VKMN), summer semester, 4 hours lecture +2 hours tutorials per week, 2008-now.

Lectures (optional):
Quantum communication and information processing III (OPT/KK3), winter semester, 2 hours per week, 2011**.**

Selected parts from quantum mechanics (OPT/VPKM), summer semester, 2 hours per week, 2003-2006, 2016.

Tutorials:
Tutorials on mechanics and acoustics (OPT/MA), 2 hours per week, 2002-now.

Student supervision:
Bachelor student:
1. D. Koutný, bachelor thesis, title: "Nonlocalizable genuine multipartite entanglement" (defended in August 2015).

Postdoctoral student:
MSc. Daniel McNulty, Ph.D., project POST UP II CZ.1.07/2.3.00/30.0041, 2 publications:

1. D. McNulty, R. Tatham, and L. Mišta, Jr., *Nonexistence of entangled continuous-variable Werner states with positive partial transpose*, Phys. Rev. A **89**, 032315 (2014).
2. L. Mišta, Jr., D. McNulty, and G. Adesso, *No-activation theorem for Gaussian nonclassical correlations by Gaussian operations*, Phys. Rev. A **90**, 022328 (2014).

4. Research Activities

Quantum measurement, quantum entanglement, quantum teleportation, non-classical states, Gaussian and non-Gaussian quantum states, Gaussian and non-Gaussian bipartite entanglement and more generic quantum correlations, Gaussian entanglement measures and Gaussian multipartite entanglement.

5. Projects

Principal investigator:
Reserach project "Complex quantum correlations and their applications," GAČR P205/12/0694, 2012-2014 (outstanding assessment).

Member of the research team:
Research projects MŠMT ČR LN00A015 and CEZ:J14/98, project "Measurement and information in optics, " (MSM 6198959213), Czech-Japanese project ME10156 (MIQIP) and project EU FET-Open grant COMPAS, No. 212008.

6. Conferences
I have presented my scientific results as an invited talk, contributed talk or poster at 40 international or local conferences.

List of invited talks:

1. 11th QuiSco meeting, 9.11. 2010, Computer Science Department, University of Glasgow, Scotland, UK.
2. IV Quantum Information Workshop Paraty 2013, 12. 8. - 16. 8. 2013.
3. Macroscopic Quantum Coherence 2015, 1. 6. - 3. 6. 2015, University of St. Andrews, Scotland, UK.
4. Quantum Limits on Information Processing (QLIPS), 4. 3.- 10. 3. 2016, Nanyang Technological University, Singapore.
5. Continuous variable quantum information theory and applications, 5. 6. 2017, School of Mathematical Sciences, University of Nottingham, UK.

7. Publications

46 original scientific publications in international impacted journals including 6 publications in Physical Review Letters and 29 publications in Physical Review A.

Sum of times cited without self-citations: 489.

h-index: 15.