

CURRICULUM VITAE

Name: Aleksandra MALUCKOV

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Education: Ph.D. (2001); National Institute for Fusion Science, School of Mathematical and Physical Science, SOKENDAI- Graduate University for Advanced Studies, Japan.
Thesis title: ‘Statistical Properties of the Particle Radial Diffusion in an Radially Bounded Magnetic Field Region with Irregularities’.

M.Sc.(1997); Mathematical, Classical and Quantum Physics, Faculty of Physics University of Belgrade (Serbia).

Thesis title: ‘Spatial-temporal Regimes of Nonlinear Three-wave Interactions’.

B.Sc. (1991); Department of Physics, Faculty of Philosophy, University of Niš (Serbia).

Thesis title: ‘The $1/N$ Expansion in Quantum Mechanics and Hydrogen Atom in the External Fields’.

Research Fields of Interest:

Statistical and quantum physics

Cold-matter physics

Nonlinear dynamics, complexity, self -organization and chaos

Modelling and computer simulation

Plasma confinement and transport theory

Photonics

Localization phenomena in nature

Extreme events

Flat-band compactons

Employment:

(2012 – ...) Full Research Professor, Vinca Institute of Nuclear Sciences, Univ. of Belgrade,

(2007-2012) Associate Professor, Department of Physics, Faculty of Sciences and Mathematics, University of Niš

(2002 – 2007) Assistant professor, Department of Physics, Faculty of Sciences and Mathematics, University of Niš

(1997 – 2002) Teaching Assistant, Department of Physics, Faculty of Sciences and Mathematics, University of Niš

(1992 – 1997) Junior Assistant, Department of Physics, Faculty of Sciences and Mathematics, University of Niš, Serbia

Scholarships: (1998-2001) (Ministry of Education, Japan) research student scholarship at National Institute for Fusion Science, Theory and Data Analysis Division, Toki, Japan

Projects:

(2014-2017) Participation in the trilateral project Sweden-Chile-Serbia “Control of light and matter waves propagation and localization in photonic lattices” (Swedish Research Council, grant 2013-6752) .

(2011-present) III Project “Photonics of micro and nanostructured materials”, Ministry of Education, Science and Technological development of Republic of Serbia, subproject leader

(2006- 2010) Project “Complex Phenomena in Plasma Physics, Condensed Matter Physics and Nonlinear Optics”, Ministry of Science and Technological development of Republic of Serbia.

(2002- 2005) Project “Complex Phenomena in Fusion Plasmas”, Ministry of Science and Technological development of Republic of Serbia

Teaching Experience:

(2004-...) Post graduate studies: course – Nonlinear Dynamics
(2004-2012) Graduate studies: courses – Introduction to Nonlinear Dynamics, Statistical Physics, Oscillations and Waves, Numerical Methods in Physics
(2010,2012) PhD thesis supervisor (2 thesis), Faculty of Sciences Mathematics, University of Niš
(2005) MS thesis supervisor, Faculty of Sciences and Mathematics, Uni. of Niš
(1992-2002) Undergraduate courses in Quantum Mechanics, Plasma Physics and Mathematical Physics.

Computer Proficiency: Fortran programming; EM relativistic Particle-in-Cell simulations; Monte Carlo calculation on HPC- supercomputer; Linux, Windows environments, MATLAB tools

Trainings and seminars:

2017. Korean Physical Society Meeting, Session: Nonlinear dissipative quantum Bose-Einstein condensate, “Spin-orbit coupling effect on the localized modes dynamics in discrete Bose-Einstein condensates”, Daejeon, Korea

2017. Visiting researcher, *Theoretical Physics of Complex Systems, Korean Advanced Institute for Sciences and Technology, Daejeon, South Korea*

2016. RIAO Optilas 2016, IX Iberoamerican Optics Meeting, Pucon, Chile

2014. International workshop on "Control of light and matter waves propagation and localization in photonic lattices", Linköping, Sweden.

2012, 2013. Visiting researcher, *Program Aide Position at Texas A&M University at Qatar (TAMUQ)*, Doha, Qatar.

2004. Visiting researcher, *Institut Fur Theoretische Physik I, Universitäts str. 1, Heinrich-Heine-Universität Dusseldorf, Germany*

Memberships:

Optical Society of Serbia

Publications: 69 (Web of Science) <http://pstar.vin.bg.ac.rs/CVPL/PublicationsAM.pdf>

h-index: 16 (Web of Science)

Languages:

Serbian (native), English (fluent), Russian (good), Japanese (basic level)

Citizenship: Serbia