

Ivan P. Christov

CURRICULUM VITAE

Education and Employment

1975-1980 M.Sc., Sofia University, Department of Physics, Sofia, Bulgaria;
Major: Physics, **Minor:** Quantum Electronics

1980-1983 Physicist, Research Scientist, Institute of Optics, Sofia.

1983-1987 Ph.D. studies, Department of Physics, Sofia University; Ph.D. thesis devoted to processes of generation and propagation of femtosecond optical pulses, and Raman scattering. Ph.D. degree of April 1987.

1987-1990 Institute of laser Physics, Sofia University, Research Scientist and project leader

1991-1992 Visiting Scientist at Max-Planck-Institut for Quantum Optics, Garching, Germany, with an Alexander von Humboldt Fellowship

1993-2000 Associate Professor at the Physics Department, Sofia University, and Director of the Institute of Laser Physics.

1994 through 2006 Visiting Scientist (during summers), WSU-Pullman, USA; CUOS-Ann Arbor; JILA, University of Colorado at Boulder.

2001-present Dr.habil, Physics Dept, Sofia University

2003-present Professor, Physics Dept, Sofia University

Honors: Fellow of the Optical Society of America
Alexander von Humboldt Fellow

Teaching: Lectures on “Wave and quantum optics”, “Photonic structures”, and “Physics of high-power optical fields”.

Professional Activities:

Publications: 89 papers in scientific journals, 3 book chapters.

Reviewer of Nature, Phys. Rev. Lett., Phys. Rev. A, Optics Letters, Opt. Commun, Opt. Express, JOSA B, New J. Phys.

Coordinator for Bulgaria within the “Extreme Light Infrastructure” project.
Head of the Laboratory for femtosecond photonics at Sofia University.

Research interests: Correlated electron dynamics via time-dependent quantum Monte Carlo. Generation of high harmonics and isolated attosecond X-ray pulses. Amplification of single attosecond pulses via quasi-phase matching. Nonlinear optics and coherent control in the femto-attosecond domain. Spatio-temporal and self-organisation effects in self-mode locked lasers.

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