Professor Vitaly V. Samartsev 70-year Jubilee¹

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The Editorial Board of the *Laser Physics* journal is pleased to congratulate Professor Vitaly V. Samartsev with seventy-year-old jubilee and to wish him the good health and new scientific achievements.

Professor Vitaly V. Samartsev was born in Kazan, which is capital of Tatarstan-republic, entering to Russian Federation, on October 29, 1939. He graduated from the Physics Faculty of Kazan State University in 1966. From October 1966 until October 1969, Samartsev was a postgraduate student of the Kazan' Physico-Technical Institute, USSR Academy of Sciences. At the beginning of 1970, he received a Candidate of Sciences degree with a dissertation on the photon echo in media with intense internal motion. Since October 1969 until now, Samartsev has worked at different positions at the Kazan' Physico-Technical Institute of Russian Academy of Sciences. Beginning with 1986, he is a Chief Researcher and, beginning with 1997 until now, Head of the Laboratory of Non-linear Optics at this institute. In May 1981, Samartsev received a Doctor of Sciences degree with a dissertation on coherent interaction of laser radiation with resonant media and problems of phase memory.

Simultaneously, since 1986, he has been a teacher at universities of Kazan', and, since 1990, he has lectured on "Problems of Coherent Optics," "Laser Spectroscopy," "Optics of Femtosecond Lasers," and "New Physical Methods of Optical Data Processing" at the Physics Faculty of Kazan' State University, where he works at of the Chair of Optics and Nanophotonics. In 1990, Samartsev was given a scientific title of Professor in optics. He was also awarded, in 1995, a title of an Honorable Scientist of Tatarstan and, in 2001, a title of an Honorable Scientist of Russian Federation. In 1996, Vitaly V. Samartsev was elected a Corresponding Member and, in 2004, an Academician of the Russian Academy of Natural Sciences. In 1998, the Committee of Prizes of the Nauka International Academic Publishing Company (MAIK NAUKA) has awarded a prize Professor Vitaly V. Samartsev for a cycle of papers on laser physics.

The area of research of Professor Samartsev is related to coherent optics and magnetic quantum acoustics. He published more than 300 papers in scientific journals. Professor Samartsev with his coworkers predicted an exciton echo, exciton superradiance, optical and acoustooptical echo-holography; firstly observed the effect of correlation of temporal

¹ The article is published in the original.

shape of photon echoes' signal with that of pulse-code; the effect of triggered optical superradiance in solids and the femtosecond stimulated photon echo's signal in the dye-doped polymer film at room temperature.

He is a coauthor of 12 books: *Magnetic Quantum Acoustic* (Moscow: Nauka, 1977), *Optical Echo-Spectroscopy* (Moscow: Nauka, 1984), *Coherent Spectroscopy of Molecular Crystals* (Kiev: Naukova Dumka, 1986), *Pulse Optical and Acoustical Coherent Spectroscopy* (Moscow: Nauka, 1988), *Depolarizing Collisions in Nonlinear Electrodynamics* (Moscow: Nauka, 1992; Boca Raton, USA, Florida: CPC Press, 2004), *Optical Superradiance and Laser Cooling of Solids* (Kazan': Kazan' State University, 1998 and 2004), *Photon Echo and Its Applications* (Kazan': Kazan' State University, 1998), *Solid-State Optical Refrigerator: Problems and Expectations* (Kazan': Kazan' State University, 2003), *Coherent Phenomena in Optics* (Kazan': Kazan' State University, 2003), *Laser Cooling of Solids* (Moscow: Fizmatlit, 2005), *Optics of Femtosecond Lasers* (St. Petersburg: ITMO, 2007), *Photon Echo and Phase*

Memory in Gases (Kazan': Kazan' State University, 2009). Professor Samartsev is a scientific editor of Russian editions of three books: L. Mandel and E. Wolf "Optical Coherence and Quantum Optics" (Moscow, Fizmatlit, 2000), M.O. Scully and M.S. Zubairy "Quantum Optics" (Moscow; Fizmatlit, 2003), S. Imre and F. Balazs "Quantum Computing and Communications: an Engineering Approach" (Moscow: Fizmatlit, 2008).

He is involved in numerous organization activities. Since 1973, Samartsev organized eight international symposia on photon echo and coherent spectroscopy (PECS), ten international workshops on quantum optics (IWQO) and twelve international schools for young scientists on coherent optics and optical spectroscopy (COOS). He brought up twenty candidates of sciences and seven doctors of sciences.

Professor Vitaly V. Samartsev is a member of Editorial Board of the *Laser Physics* journal with 1991. We wish him the long-lived and happy life.