

## RUSAKOV VYACHESLAV SERAFIMOVICH

(TO 70 ANNIVERSARY OF BIRTH)

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On May 25, 2017 Vyacheslav Serafimovich Rusakov, Doctor of Physical and Mathematical Sciences, Professor of the Chair of General Physics of Physical Faculty of Lomonosov Moscow State University, full member of the Russian Academy of Natural Sciences, the known specialist in the field of Mössbauer spectroscopy, nuclear and radiation physics, condensed matter physics and hyperfine interactions, honored Professor of MSU celebrated his 70th birthday.

V.S. Rusakov was born in 1947 in Moscow, to family of employees Seraphim Semenovich Rusakov and Galina Alexandrovna Rusakova. After graduating 154 school of Moscow in 1965, he entered the physical faculty of Lomonosov MSU. In his third year, V.S. Rusakov was assigned to the Chair of solid state physics of Division of solid state physics of the Faculty of physics. At that time, the Chair of solid state physics, one of the oldest chairs of the faculty, was headed by Professor Herman Stepanovich Zhdanov. Here, under the guidance of his first teacher, then yet a PhD Phys&Math, Vladimir Ivanovich Nikolaev, V.S. Rusakov performs

scientific work devoted to the study of crystal and magnetic structure of ferrites. Via the results of this research, the student Rusakov publishes an article in the journal "Solid State Physics", which became the beginning of his scientific biography.

In 1971, V.S. Rusakov graduated from the physical faculty of MSU and entered the postgraduate school at the Chair of General physics. The vector of his scientific interests shifted to the area of Mössbauer spectroscopy. Under the leadership of V.I. Nikolaev in 1974 he defended his PhD dissertation "Study of dynamic properties of nuclei in solid using the Mössbauer spectroscopy", behind which followed by a series of presentations at conferences articles and publications on Mössbauer spectroscopy, its hardware and software.

From 1974 to the present time V.S. Rusakov – an employee of the Chair of General physics of the Division experimental and theoretical physics of Faculty of physics, MSU, from 1974 to 1982 – assistant, from 1982 to 1994 – senior lecturer, from 1994 to 2001 – associate Professor, from Jan 2002 – Professor.

Vyacheslav Serafimovich teaches courses in General physics: "Electricity and magnetism" and "Optics", special courses "Physical principles of Mössbauer spectroscopy" and "Methods of Mössbauer spectroscopy", conducts general and special physics workshop at the faculty, publishes scientific monographs and teaching books and manuals, and guides the post-graduate and students. He has guided more than 30 diploma theses and 11 PhD dissertations.

In 1999 V.S. Rusakov defended his doctoral dissertation "Mössbauer spectroscopy of locally nonhomogeneous systems". In 2006, the decision of the State Committee of the Russian Federation for higher education V.S. Rusakov awarded the academic title of Professor.

Area of scientific interests of V.S. Rusakov – Mössbauer spectroscopy, condensed matter physics, hyperfine interactions, local atomic, crystalline, electronic and magnetic structure of matter. He is a specialist on the spectroscopy of locally

nonhomogeneous, including the phases of variable composition, amorphous, defective, and multiphase systems, the author of fundamental works on ion-beam and ion-plasma modifikacii materials. He developed methods for Mössbauer investigations of the spatial spin-modulated structures, hyperfine interactions, phase formation in layered systems, the kinetics of low-temperature crystallization of minerals. V.S. Rusakov developed and implemented the complex of methods of processing and analysis of Mössbauer data: quality improvement, and modelling decryption of Mössbauer spectra, reconstruction of distributions of hyperfine parameters, processing theirs the temperature, field and time dependencies. Rusakov scientific interests are also connected with the study of biogenic transformations and crystal chemistry of minerals.

In recent years, V.S. Rusakov obtained new results on the magnetic structure and hyperfine interactions in iron-cobalt and iron-Nickel nanotubes, successfully developing the diagnostics of spatial spin-modulated structures of multiferroics by methods nuclear magnetic resonance and Mössbauer spectroscopy

Of particular note are long-term, fruitful cooperation V.S. Rusakov with Institute of nuclear physics of Eurasian national University named after L.N. Gumilev, Republic of Kazakhstan. Joint researches, lectures, his expert activity continues to the present.

V.S. Rusakov is laureate of the prize of MSU in the nomination "Achievements in the scientific-research activity" (2016). Rusakov V.S. published more than 900 publications. Among his publications, about 300 papers in prestigious scientific journals (number of citations articles in journals according to Web of Science: 586, Scopus: 529), 4 scientific monographs, 43 manuals, 2 certificates on registration of the rights to the software.

V.S. Rusakov is member of the scientific council of physics Faculty and scientific council of the Division of experimental and theoretical physics of faculty of physics of MSU, chairman of the methodological commission of this Division. His active teaching activity is noticed the highest award of the native University – the Lomonosov prize of MSU (2011) and the hot recognition of students of the faculty of physics.

V.S. Rusakov is member of program and organizing committees of International Conferences

"Mössbauer spectroscopy and its applications" and "Nuclear and radiation physics".

V.S. Rusakov is member of the editorial Board of the scientific journal "Radioelectronics. Nanosystems. Information technology" (RENSIT).

In 2013 he was awarded the honorary title "Honored Professor of the Moscow University". He was awarded the medal "In commemoration of 850th anniversary of Moscow", commemorative badge "250 years of Lomonosov MSU", commemorative badge "Honored workman of atomic industry of the Republic of Kazakhstan of I degree (gold mark)" (2009).

The high scientific erudition, working capacity, adherence to principles, responsibility brought V.S. Rusakov well-deserved prestige and wide fame in the science community.

Friends, colleagues, and pupils sincerely congratulate Vyacheslav Serafimovich Rusakov on his glorious jubilee and wish him good health, luck and success in scientific and pedagogical activities.

The editorial board of RENSIT journal cordially joins these wishes.

**Editorial board**