

Editorial



In memory of Valter Alekseevich Ignatchenko

Editorial

This issue is dedicated to Valter Alekseevich Ignatchenko, doctor of physical and mathematical sciences, professor, Honored Scientist of the Russian Federation, a distinguished specialist in the physics of magnetic phenomena and a scientific leader. A native of Odessa and a graduate of Odessa University, Ignatchenko arrived in Krasnoyarsk in 1957 and began working at the newly established Institute of Physics as part of the experimental laboratory. Heading a small experimental group, he was the first in our country to conduct research on spin-wave resonance in thin magnetic films. However, intrigued by the nature of this phenomenon, he became fascinated with the theory of magnetism, became a theoretician, and organized a theoretical group, which eventually grew into the theoretical department he heads, consisting of three laboratories. Many graduates of Siberian Federal University, having trained in the theoretical department, have become world-renowned scientists, pioneers of new fields in various fields of physics. The distinguishing features of his scientific style were always innovation and a broad range of scientific interests, a profound understanding of the phenomena being studied, physical intuition, a desire to refine the results of theoretical calculations to a point where they could be experimentally verified, and a critical approach to his own findings. His favorite sayings were: "Regardless of whether a physicist is engaged in theory or experiment, he knows and understands the nature of the phenomena being studied not only in the brain but also in the spinal cord" and "If you see an effect, look for a defect". Ignatchenko's fundamental work on the theory of the domain structure of bulk ferromagnets and magnetic films, a series of studies on spin dynamics and magnetoelastic resonance in thin films, pioneering work on phenomena in the field of the frequencies crossing of nuclear and electron magnetic resonances, his works on stochastic magnetic structure, its influence on dynamic properties, the law of approaching magnetization saturation, and the spectrum and attenuation of waves of various natures in superlattices with inhomogeneities have become recognized classics in the field of physics of magnetic phenomena. This issue contains contributions from students and successors of Valter Alekseevich's research, colleagues from various institutes who knew him and his work, and students of his students.