



Igor Fedorovich Krasichkov-Ternovskii
(13.02.1935 – 08.03.2012)

On August 8, 2012, in Ufa, after a long disease, a conspicuous Soviet and Russian mathematician, doctor of physical and mathematical sciences, corresponding member of the Academy of Sciences of Republic Bashkortostan, Igor Fedorovich Krasichkov-Ternovskii passed away. Being one of the world leading specialists in various fields of the theory of functions, he had played a colossal role in the formation of these directions of the complex analysis in Ufa. It was a scientist absolutely dedicated to the mathematics. He published around 70 scientific papers, many of those made and will surely make a substantial influence for the researches of the mathematicians in Russia and abroad. Among his pupils there are more than ten candidates of sciences and three doctors of sciences. Bitterness and regret are roused by fact that much of planned by Igor Fedorovich left unrealized.

Krasichkov-Ternovskii Igor Fedorovich was born on February, 13, 1935 in Moscow. After graduating from the faculty of mechanics and mathematics of Moscow State University in 1959, he worked as the editor in the abstract journal of VINITI "Mathematics", and in 1965-1973, and, having an excellent command of several european languages, as the main bibliographer in mathematics in all-USSR library of foreign literature. In this period, in 1966, after learning in the post-graduated courses during 1963-1965, he defended a candidate (PhD) thesis in the Steklov Mathematical Institute of AS USSR, and also there the doctoral (Habilitation) thesis in 1974. He was a junior researcher in VINITI (1959-1963), a post-graduated student (1963-1966), senior researcher in BBAS USSR (1973-1975).

Starting from 1973 he was in Ufa by the invitation of the corresponding member of AS USSR Alexei Fedorovich Leontiev, who played an essential role for choosing the field of the research for Igor Fedorovich. Already one year later after his arrival to Ufa, he defended successfully the doctoral thesis in the Steklov Institute of Mathematics. In 1973-1982 he worked as the senior researcher of the Department for physics and mathematics of Bashkir Branch of AS USSR and simultaneously as the head of chair of applied mathematics and reliability theory of Ordzhonikidze Ufa Aviation Institute; he was a professor since 1981. Some time later he became a professor of Lenin Moscow State Pedagogical Institute (1982-87), after that he returned back to Ufa as a main researcher of the Institute of Mathematics with Computer Center of Ufa Scientific Center of Russian Academy of Sciences. Since 1993 he was a corresponding member of the Academy of Sciences of the Republic Bashkortostan.

As the first but already deep results of I.F. Krasichkov-Ternovskii one can regard the obtained by him general principles of studying the completeness of parameterized systems of functions in the spaces of holomorphic functions of one variable performed by before the mid 1960s [37], [38].

His further studies were mostly devoted to the problem of spectral synthesis in the invariant w.r.t. differentiation subspaces of holomorphic functions in the domains of the complex plane. Already in the beginning of 1970s in this direction he established fundamental results of the possibility of the spectral synthesis for the space of solutions of one convolution equation in a convex domain, on the possibility of the spectral synthesis for invariant spaces in unbounded convex domains, and also on impossibility of this, generally speaking, in bounded domains.

This series of the works [27]-[29] answered essentially on the series of principal questions stated by such classics as L. Schwarz, A. Cartan, et al. Moreover, it indeed served as a stimulating factor for a whole number of works concerning related questions, like the existence of the approximating methods, fundamental principle for invariant spaces of analytic functions, analytic continuation for the subspaces allowing the spectral synthesis (see [6]-[8], [25], [26], [3] and others). In the most reputable list of Russian mathematicians <http://www.mathnet.ru> in many respects due to these works Igor Fedorovich was many times in the top list of 40 and sometimes of 10 most cited Russian authors.

Numerous works of I.F. Krasichkov-Ternovskii are often series of several united by the same subject papers of pronounced complete character in the framework of original formulation (see [6]-[8], [9]-[12], [16]-[18], [19]-[20], [23]-[24], [27]-[29], [33]-[35],

[37]–[38]). One should specially stresses his permanent successful dual approach running through all main works of I.F. Krasichkov-Ternovskii and allowing to distinguish precisely analytic and algebraic aspects of the considered problems. For instance, in the series of the works in the beginning of 1960s, 1970s and further I.F. Krasichkov-Ternovskii succeeded to obtain a criterium of possibility of local description for closed ideals and submoduli in the most general spaces of holomorphic functions (see [4], [13], [19]–[20], [30]–[32]) that as a particular case involved both the problems of spectral synthesis and a series of others. Moreover, he succeeded to move these methods for vector functions [19]–[20] and for the function of many complex variables [3], [5].

His works on relations between the spectral synthesis and analytic continuation were summarized in the wide survey in 2003 in “Russian Mathematical Surveys” [5]. Besides, I.F. Krasichkov-Ternovskii addressed many times in a series of his papers the theory of growth for entire and subharmonic functions [21], [23]–[24], [33]–[35], [36], the questions on the completeness of the systems of exponents [1], [14], [15].

A high efficiency and wide outlook together with a quality and sharpness of the results were and remain a feature of the mathematical scientific activity of I.F. Krasichkov-Ternovskii.

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