

MAMEDOV YUSIF ABULFAT OGLU
(to 50th anniversary)



In January 24, 2000, is years of the doctor of physical and mathematical sciences, professor, head of cathedra, equation of mathematical physics of the Baku State University after name M.E.Rasulzade Yusif Abulfat oglu.

J.A.Mamedov was born in village Dastakert of Sisian district of Armenian SSR, in family of employer. In 1966 finished school with golden order, he entered the mechanico-mathematical faculty of the Azerbaijan State University. After graduating from University he was sent to the cathedra equation of mathematical physics where he has been working till present (except 10 month of 1992-1993 years, when he was working in the Turkish Republic as a professor of the Stambul Technical University). Passing the way from the duties of assistant to the professor J.A.Mamedov from 1993 became the head of this cathedra.

Y.A.Mamedov is one of the visible representatives of today's generation of Azerbaijan mathematics. Continuing scientific direction of this teacher, famous Azerbaijan scientific deceased academic M.L.Rasulova he got series of interesting equations and important results in other branches theory of differential equations and mathematical physics.

His first scientific works relative to his student years, when he published his scientific article in prestige magazine «Differential equations» was a *participant in the* scientific conference conducted at the Novosibirsk State University where his report was ordered with honorary diplom.

In 1971-1984 Y.A.Mamedov published the series of papers devoted to the equation of correct production of one-dimensional problems for linear differential equations with variable coefficients, not enveloped by standard classifications. The part of these results were on the base of his candidate dissertation, developed in 1974.

Since 1978 Mamedov was engaged in a research of spectral problem not being regular on Birkhoff-Tamankin. He for the first time investigates questions of regularity and normality (by A.A. Shkalikov) of rational beams of differential operators and the formula of decomposition on their rooted elements is received. The presence of eigen-values of a continuous multiplicity for beams of degenerating systems of ordinary differential operators is specified and the concepts of regularity, almost regularities and normalities of these operators in environs of finite points of set of eigen-values are given by Mamedov.

Studying the corresponding mixed problem he has found an algebraic condition of a correctness, which of on sense is analog of a known condition «A» I.G.Petrovsky, referred to a Cauchy problem.

These and other results of Y.A.Mamedov are summed up in his doctoral dissertation, which was depended in Tbilisi mathematical institute in 1990.

Continuing scientific researches in 1991-1999 Y.A.Mamedov has received a series of new results, having practical and theoretical interest.

Among his results of practical significant we shall mark a substantiation deduction of a method to the mixed problem for the model equation of distribution of a wave in visco-elastic environment for an alignment of dynamics is exponential of the stratified liquid. The pact, detected by him, about logarithmic velocity of a damping ratio in electric network is interesting, at a critical boundary condition.

From the important theoretical results of last years, it is necessary to mark the proof of an onevalued resolvability of the mixed problem for the parabolic equation degenerating in shredengerovoy a type and criterion, obtained by him, almost regularity (of any order) common spectral problem for the equation second order, expressed by properties of frequency of potential function.

It is necessary apart to mark obtained by Y.A.Mamedov original result an asymptotic of eigen values of an operator of Sturm- Leuvile with complex valid coefficient in the main part.

Prof. Y.A.Mamedov is the author over 50 of scientific papers. He gives a lot of time to preparation highly shelled specialist. Under his management an authoritative scientific seminar systematically operates. He is the member of associate editor of a journal «Vestnic BGU» .

Y.A.Mamedov is gifted with perfect human qualities. The people communicate with him highly appreciate his personal charm, high culture, wide outlook.

We wish Y.A.Mamedov new creative heights and long happy life.

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