ACADEMICIAN AKIF GADJIEV



In memory of academician Akif Gadjiev on his 80-th birthday

Akif Jafar Khandan oglu Gadjiev was born on December 8, 1937 in Baku. He grew up in the family of outstanding literary critic, prof., social-political figure Jafar Khandan. The rich scientific traditions in this family determined his future life. In 1955 Akif Gadjiev joined mechanics and mathematics faculty of Azerbaijan State University, in 1960 graduated from this University and was directed to work at the Institute of Mathematics and Mechanics of Academy of Sciences of Azerbaijan. Supervised by the famous scientist, acad. Ibrahim Ibrahimov, he obtained his first scientific results in approximation of functions by operators that was a new direction in approximation theory. In 1964, Akif Gadjiev defended the dissertation "Some approximation properties of some operator families" at the Defence Board at ASU for earning the scientific degree of candidate of physico-mathematical sciences. In the seventieth of the XX century Akif Gadjiev continued his investigations in the field of approximation theory, obtained important results in studying the segment of positive linear operators approximated by continuous functions in finite segment, proved P.P. Korovkin type theorems in the class of continuous functions determined in unbounded sets, obtained valuable results in the function space analytic in unique area and approximating properties of these operators. Akif Gadjiev has studies in the field of theory of functions of many variables. In this direction along with a number of results, he proved Bernstein type inequalities in the terms of indicatrix of entire functions for even order homogeneous differential polynomials. His these studies were successfully continued and developed by his followers. One of the important scientific directions studied by Akif Gadjiev is theory of many-dimensional integral operators. He has studied differential properties of the symbol and characteristics of many-dimensional singular integral with respect to sphere and obtained great results in this field. He has structured Nikolski-Besov-type generalized spaces on a sphere, proved for them inclusion theorems, created a theory related to smoothness property of the symbols of many dimensional singular operators and gave its application in theory of Fourier multiplicators.

In 1982, at the Defense Board at V.A.Steklov Institute of Mathematics of the Academy of Sciences of the USSR, Akif Gadjiev defended his doctor dissertation Studies on theory of many-dimensional convolution type operators

In 1982-1989, Akif Gadjiev had investigations in the field of Fourier multiplicators. At these years, he had obtained many results on vibrating multiplicators and found conditions for these multiplications be the multiplicators of Bessel potential spaces and also Hardy spaces. In 1990 Akif Gadjiev researched different properties of potential type integrals, obtained some general results and proved theorems on continuity of Riesz potentials combinations. In 2002-2012 he has continued his scientific activity and obtained new successful results. In 1978 Akif Gadjiev was appointed the head of the department of "Theory of real variable functions" newly opened at IMM. In 1985 by the decision of Higher Attestation Commission of USSR he was promoted to the rank of professor. In 1989 he was selected a corresponding member of Azerbaijan Academy of Sciences. From September 1992 to Jannary 1999 Akif Gadjiev worsk as an

invited professor at Ankara University, Turkey and trains a number of holders of master degerel and defend philosophy doctors.

In 1995, Akif Gadjiev together with outstanding scientist of Turkey prof. H. Hacisalihoglu publishes the book Convergence of the sequence positive linear operators. In January 1999, A.Gadjiev continues his work at IMM as the head of Mathematical Analysis department. At the same year he is appointed a head of the chair of Mathematics and Mechanics at the Azerbaijan Academy of National Aviation. In 2001, A. Gadjiev was elected an academician of the Azerbaijan Academy of Sciences, acad. secretary of Physico-Mathematical and Technical sciences department of the Academy, in 2004 director of IMM. In 2002-2005, A. Gadjiev has worked as chairman of expert commission at mathematics and mechanics at the Higer Attestation Commission, from 2005 the chairman of dissertation Defence Council at IMM ANAS, he was a member of the editorial boards of AMEA Meruzeleri AMEA Khabarlari and editor in chief of the jorunal Poceedings of IMM ANAS From 2010 till the end of his life A.Gadjiev was the chairman of the Azerbaijan mathematical society and had great merits in training new personnels and in development of mathematics, mechanics sciences, in the Republic he was the editor in chief of a "Azerbaijan Journal of Mathematics" published by the Azerbaijan Mathematical Society. By the line of this society the selected works of A.D.Gadjiev covering 2003-2011 was published. It should be noted that in December 22, 2015, Azerbaijan Journal of Mathematics of Azerbaijan Mathematical Society published at IMM was included into the database of Thompson Reuters Agency Emerging Sources Citation Index(ESCI). In may, 2013 A.Gadjiev was elected vice-president of ANAS. At IMM ANAS the scientific seminar "Modern problems of harmonic analysis" was guided by Akif Gadjiev and scientific results obtained by the mathematicians working at different scientific institutions of the Republic were discussed at these seminars. Following this tradition, this seminar continues its work guided by corr. number of ANAS prof. Vagif Guliyev . Acad. Akif Gadjiev has author edover 210 scientific papers and 4 monographs. He has supervised 72 philosophy doctors and one of this students defended doctor dissertation. The theoretical and applied results obtained by Akif Gadjiev, his pedagogical activity, his merits as organizer of science, development of mathematical science, to make known Azerbaijan mathematical science in the world, his strained and fruitful work was highly evaluated by our State. In 2004, by the resolutions of President of the Republic of Azerbaijan Ilham Aliyev he was rewarded the "Shohrat" order and in 2005 the honoured title "Honored scientist" was conferred upon him. The known mathemacian of our Republic A. Gadjiev has passed away on February 3, 2015 at his 78 years. Memory of the skilled science organizer, kind and sincere man Akif Gadjiev will always live in the hearts who know him.

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