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## Boundness of Functions of Positive Operators and their Applications

Speaker: Prof. Dr. Allaberen Ashyralyev



October 24, 2023



11:00 AM (GMT+5) Pakistan Time  
09:00 AM (GMT+3) Türkiye Time

Zoom ID: <https://tinyurl.com/4uk84wft>

Password: 899 4782 3326

Zoom Link: 492583



Prof. Allaberen Ashyralyev

**Abstract:** In the present study, the abstract approach for solutions of partial differential equations in the modeling of processes of engineering and technology. Various local and nonlocal problems for partial differential equations can be reduced to local and nonlocal problems for ordinary differential equations in Banach spaces with unbounded positive operator. The boundness of functions of some positive operators is considered.

# Bionote – Prof. Dr. Allaberen Ashyralyev

Prof. Dr. Ashyralyev was born in Konekesir/Turkmenistan in 1955. He completed his a high school education in 1972 in Konekesir with a gold medal for excellence at Secondary School Level. He graduated from the Turkmen State University in 1977. He was awarded with the Lenin's Grant for Students during his education (1974-1977).

He earned his PhD from the Voronezh State University in 1983, and his Doctorate of Sciences from the same University and the Institute of Mathematics of the Ukraine Academy of Sciences in 1992. Ashyralyev had been awarded the First Rank Prize for PhD students upon his graduation in 1983. Dr. Ashyralyev was a visiting scholar at the Voronezh State University, Russia, in 1979, 1985, 1991 and University of California, Santa Barbara, USA, in 1987-1988. Dr. Ashyralyev continued his career at the Turkmen State University from 1977 to 1999 as an Instructor, assistant professor (1985), associate professor (1989), and professor (1995), respectively. In 1996 Ashyralyev had been awarded the entitled Master Teacher of Turkmenistan by Ministry of Education, Turkmenistan.

Since September 01, 1999 to May 30, 2016, Prof. Ashyralyev has been a staff member of the Department of Mathematics and Elementary Mathematics Education, Fatih University, Turkey and visiting professor at the Intenational TTU, Turkmenistan. Since May 15, 2015 Prof. Ashyralyev has been a visiting Professor, Institute of Mathematics and Mathematical Modeling, Almaty, Kazakhstan and since April 01, 2017 visiting professor at the Peoples' Friendship University of Russia (RUDN), Russia. Since September 20, 2016 to September 22, 2021, Prof. Ashyralyev has been a staff member of the Department of Mathematics, Near East University in Cyprus. Since the Spring of 2018, to September 22, 2021, he has been the Head of Department of Mathematics Education at the Atatürk Education Faculty. Since November 17, 2021 Prof. Ashyralyev has been a staff member of the Department of Mathematics, Bahcesehir University in Istanbul.

The research interests of A. Ashyralyev are broad and include different problems of numerical functional analysis, well-posedness of differential and difference problems, construction and investigation of high order of accuracy difference schemes for partial differential equations, uniform difference schemes and asymptotic formulas for singular perturbation problems for partial differential equations, study of positivity of differential and difference operators and structure of fractional spaces generated by positive differential and difference operators in Banach spaces, investigation of difference schemes for stochastic partial differential equations, study of identification problems, fractional calculus, and mathematical modeling.

# Bionote – Prof. Dr. Allaberen Ashyralyev

**Prof. Ashyralyev** is an author of more than 380 scientific papers in international journals and conference proceedings and he is an author of 12 books including two monographs published by Birkhauser-Verlag, on Operator Theory: Advances and Applications. He has been guest editor of 7 volumes of special issues of international ISI journals and coeditor of 8 volume of AIP Conference Proceedings. He has successfully supervised 36 PhD and 37 MS students. His h-index is 37 in Google Akademik, 29 in Web of Science and 28 in Scopus.

Prof. Ashyralyev was selected as Thomson-Reuters Science Leader in the World Science Researchers from the Central Asian Region in 2015 and he was elected as a Fellow of the Islamic Academy of Sciences in 2012. In 2017 he was awarded with diploma for a significant contribution to the development of mathematical science by the Turkic World Mathematical Society (TWMS). Due to academic activities in 2017, by the Rectorate of Near East University was awarded the Publication Honor Award. In 2019 he became a winner of the Scopus Award Kazakhstan- 2019 of International Scopus Award.

In 2022 Ashyralyev has been awarded the badge "For contribution to the development of science" by Ministry of Education and Science, Kazakhstan