Faculty of Physics and Mathematics

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POSITION	Associate Professor.
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ACADEMIC DEGREE	• 2023 - Urgench State University (PhD in Physical and Mathematical Sciences) • 2009-2011 -National University of Uzbekistan named after Mirzo Ulugbek (Master's degree) • 2005-2009 -Urgench State University (Bachelor's degree)
WORK EXPERIENCE	• 02.01.2025 -present– Associate Professor, Department of Mathematical Analysis, Urgench State University • 2020-2024. - Senior Researcher, Khorezm Ma'mun Academy • 2019-2020 - Lecturer, Department of Mathematical Analysis, Urgench State University • 2017-2019 -Lecturer, Department of Primary and Preschool Education Methodology, Urgench State University • 2015-2017 - Lecturer, Department of Function Theory, Urgench State University • 2013-2015 - Senior Researcher (Mathematical Analysis) – National University of Uzbekistan named after Mirzo • 2012-2013 - Junior Researcher (Mathematical Analysis) – National University of Uzbekistan named after Mirzo
SPECIALIZATION	• Mathematical Analysis
SUBJECTS TAUGHT	• Mathematical Analysis, Theory of Functions of a Complex Variable, Higher Mathematics, Probability Theory
RESEARCH WORK	• Integral Formulas for Holomorphic Functions in Tubular Domains and Their Applications (PhD Topic)
RESEARCH	**1. Articles published in scientific journals** • Khudayberganov G., Matyakubov Z.K. Integral Formulas in Siegel Domains // Uzbek Mathematical Journal. 2013, No. 3, pp. 116-123. • Khudayberganov G., Matyakubov Z.K. Bergman Formula for an Unbounded Matrix Domain // Bulletin of NUUz, 2013, No. 4.1, pp. 264-268. • Khudayberganov G., Matyakubov Z.K. Boundary Version of Morera Theorem for Matrix Ball of the Second Type // Journal of Siberian Federal University. Mathematics & Physics, 2014, 7 (4), pp. 466-471.

- Khudayberganov G., Rakhmonov U.S., Matyakubov Z.K. Integral Formulas for Some Matrix Domains // Contemporary Mathematics, AMS, Vol. 662, pp. 89-95, 2016.

- Khudayberganov G., Matyakubov Z.K. On Carleman's Formula in the Matrix Ball of the Second Type // Uzbek Mathematical Journal, 2016, No. 1, pp. 155-162.

- Khudayberganov G., Matyakubov Z.K. Carleman's Formula for Matrix Upper Half-Planes // Acta NUUz, 2018, No. 2.1, pp. 8-14.

- Matyakubov Z.K. Carleman Formula for the Siegel Matrix Half-Plane // UrSU, Sources of Science, 2021, No. 11, pp. 8-13.

- Rakhmonov U.S., Matyakubov Z.K. Carleman's Formula for the Matrix Domains of Siegel // Chebyshevskiy Sbornik, 2022, Vol. 23, No. 4. DOI: 10.22405/2226-8383-2022-23-4-126-135.

- Matyakubov Z.K. On the Carleman Formula // UrSU, Sources of Science, Vol. 5/2, 2023, pp. 11-15.

- Ruzmetov K.Sh., Matyakubov Z.K., Abdullayev J.Sh. Carleman Integral Formula in the Cartesian Product of Matrix Upper Half-Planes // UrSU, Sources of Science, Vol. 5/2, 2023, pp. 1-8.

- Matyakubov Z.K. Matrix Carleman Formula for the Cartesian Product of Upper Half-Planes // Khorezm Ma'mun Academy Bulletin, 2023, No. 11/2, pp. 242-246.

2. Articles and theses published in scientific collections

• Khudayberganov G., Matyakubov Z.K. Boundary Morera Theorem for the Siegel Domain of the Third Type // "Current Problems of Applied Mathematics and Information Technologies – Al-Khwarizmi 2012," International Scientific Conference, Tashkent, Dec 19-22, pp. 135-137.

• Khudayberganov G., Matyakubov Z.K. Integral Formulas for Domains of Skew-Symmetric Matrices // "Current Issues of Complex Analysis," Republican Scientific Conference, Tashkent, Sept 19-21, 2013.

• Khudayberganov G., Matyakubov Z.K. Cauchy-Szegö Kernel for Siegel Matrix Domains // "Modern Problems of Differential Equations and Their Applications," Republican Scientific Conference, Tashkent, Nov 21-23, 2013.

• Khudayberganov G., Matyakubov Z.K. Boundary Version of Morera Theorem for the Matrix Ball of the Second Type // International Scientific Conference "Current Problems of Applied Mathematics and Information Technologies – Al-Khwarizmi 2014," Samarkand, Sept 15-17, 2014.

• Khudayberganov G., Matyakubov Z.K. Carleman Formula for the Matrix Ball of the Second Type // International Scientific Conference "Current Problems of Applied Mathematics and Information Technologies – Al-Khwarizmi 2014," Samarkand, Sept 15-17, 2014.

• Khudayberganov G., Matyakubov Z.K. Carleman Formula for the Matrix Upper Half-Plane // Scientific Conference "Problems of Modern Analysis," Karshi, Apr 22-23, 2016.

• Khudayberganov G., Matyakubov Z.K. Boundary Version of Morera Theorem for Matrix Ball of the Second Type // Scientific Conference "Problems of Modern Analysis," Karshi, Apr 22-23, 2016.

• Khudayberganov G., Matyakubov Z.K. Carleman's Formula for Siegel Matrix Upper Half-Planes // Republic Scientific Conference with Participation of Foreign Scientists "Modern Problems of Dynamical Systems and Their Applications," Tashkent, May 1-3, 2017.

	• Khudayberganov G., Matyakubov Z.K. Carleman's Formula for Siegel Matrix Half-Planes // Second USA-Uzbekistan Conference on Analysis and Mathematical Physics, Urgench, Aug 8-12, 2017. • Matyakubov Z.K. Carleman Formula in Siegel Matrix Domains // "Frontiers in Mathematics and Computer Science," Israel, Oct 12-15, 2020. • Matyakubov Z.K. Multidimensional Boundary Morera Theorem for an Unbounded Matrix Domain // Republican Scientific-Practical Conference "Current Issues of Mathematics and Information Systems," Urgench, Nov 12-13, 2021. • Matyakubov Z.K. Carleman Formula for an Unbounded Matrix Domain // "Theoretical Foundations and Applied Problems of Modern Mathematics," Collection of Materials of the Republican Scientific-Practical Conference, Andijan, Mar 28, 2022, Part 1, pp. 239-241. • Matyakubov Z.K. Boundary Version of the Morera Theorem for the Siegel Matrix Domain of the Second Type // Traditional International April Mathematical Conference in Honor of Science Workers Day of the Republic of Kazakhstan, Almaty, Apr 6-8, 2022, pp. 144-145.
C U R R E N T R E S E A R CH	• Abdullayev J.Sh., Ruzmetov K.Sh., Matyakubov Z.K., Carleman's Integral Formula in the Cartesian Product of Matrix Upper Half-Planes // Azerbaijan Journal of Mathematics, Vol. 14, No. 2, July 2024, ISSN 2218-6816, https://doi.org/10.59849/2218-6816.2024.2.36 (Scopus Q2 and Web of Science). • Matyakubov Z.K., Carleman's Formula for Skew-Symmetric Matrices // International Journal of Engineering Mathematics: Theory and Application (Online), ISSN 1687-6156, http://iejemta.com/, Volume 6, Issue 1. • Matyakubov Z.K., Sobirov U.M., Iskandarov S.B., Carleman's Formula in Matrix Domains // UrDU, Ilm Sarchashmalari, pp. 31-36. • Matyakubov Z.Q., Boundary Morera Theorem for Matrix Siegel Domains // Khorezm Ma'mun Academy Bulletin, 2024, No. 10.2, pp. 164-169. • Matyakubov Z.K., Carleman Formula for the Matrix Polydisk // Khorezm Ma'mun Academy Bulletin, 2024, No. 10.2, pp. 169-173. • Matyakubov Z.K., Khalknazarov A.M., Carleman Formula for the Matrix Polydisk in the Space of Skew-Symmetric Matrices // Nukus State Pedagogical Institute named after Azhiniyaz, Science and Society.