

ABDUMALIK RAKHIMOV



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المؤهل العلمي

- Doctor of Science in Physics and Mathematics
- Ph.D in Phisic & Mathematical Sciences
- Master in Mathematic

مسؤوليات التدريس

DISCRETE MATHEMATICS	2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
ENGINEERING CALCULUS I	2011/2012 2012/2013
ENGINEERING MATHEMATICS I	2015/2016 2019/2020
ENGINEERING MATHEMATICS II	2016/2017 2017/2018 2018/2019 2020/2021
PARTIAL DIFFERENTIAL EQUATIONS	2012/2013 2013/2014 2014/2015 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021

المشاريع البحثية

Completed

- 2014 - 2018** Spectral Expansions and Application of Mathematical Principles on Electromagnetic Prospecting Method
- 2012 - 2015** Localization of Spectral Expansions Connected with Laplace-Beltrami Operator

In Progress

- 2014 - Present** Spectral Expansions and Application of Mathematical Principles on Electromagnetic Prospecting Method

المنشورات

Article

- 2020** [Spreading analysis of covid-19 epidemic in Bangladesh by dynamical mathematical modelling.](#) medRxiv preprint

- 2020** [Optimization of the regularization of the solution of the plate heat transfer problems.](#) IJUM Engineering Journal , 21 (1) pp.113-125
- 2019** [On the Riesz summability of the eigenfunction expansions on a closed domain.](#) Filomat , 33 (16) pp.5199-5205
- 2018** [Summation by riesz means of the fourier-laplace series.](#) Filomat , 32 (3) pp.837-846
- 2018** [Optimization of the regularization of the solution of the plate vibration problem.](#) International Journal of Applied Engineering Research , 13 (8) pp.6364-6368
- 2017** [On the uniform convergence of the Fourier series on a closed domain.](#) Eurasian Mathematical Journal , 8 (3) pp.60-69
- 2017** [On the Lebesgue constants of Fourier-Laplace series by Riesz Mean.](#) Journal of Physics: Conference Series , 819 (1) pp.012018-1-8
- 2016** [On the uniform convergence of Fourier Series.](#) Malaysian Journal of Mathematical Sciences , 10 (S) (Part 1) pp.55-60
- 2016** [On the lower bound of spectrum of the Schrödinger's operator for some multi-particle systems.](#) Malaysian Journal of Mathematical Sciences , 10 (S) (Part 1) pp.61-74
- 2016** [2 point block backward difference method for solving Riccati type differential problems.](#) AIP Conference Proceedings , 1775 (1) pp.030005-1-030005-8
- 2016** [The solution of Riccati type differential equation by means of variable step size backward difference methods .](#) Journal of Soft Computing and Applications , 2016 (1) pp.35-42
- 2016** [On the regularization of the spectral expansions of distributions with compact support.](#) FEIC International Journal of Engineering and Technology , 13 (1) pp.18-24
- 2015** [On the equiconvergence of the fourier series and integral of distributions.](#) Journal of Applied Mathematics and Physics , 3 (11) pp.1361-1366
- 2013** [On the localization Eigenfunction expansions associated with the Schrodinger Operator.](#) Middle-East Journal of Scientific Research , 13 pp.6-14
- 2013** [Uniformly convergence of the spectral expansions of the schrödinger operator on a closed domain.](#) Journal of Physics , 435 (1) pp.1-7
- 2013** [On the uniform convergence of the eigenfunction expansions.](#) Journal of Physics: Conference Series , 435(1) (012010) pp.1-6
- 2013** [On the sufficient conditions of the localization of the Fourier-Laplace series of distributions from liouville classes.](#) Journal of Physics: Conference Series , 435(1) (012016) pp.1-10
- 2013** [Localization of Fourier-Laplace series of distributions.](#) Malaysian Journal of Mathematical Sciences , 7 (2) pp.315-326
- 2013** [Criteria of cyclic compactness of the sets from \$L_p\$ - spaces, associated with vector measure.](#) AIP Conference Proceedings , 367 pp.1-4

- 2013 [Isomorphism of generalized holder spaces.](#) Journal of Physics: Conference Series , 553 (1) pp.1-8
- 2012 [On the spectral expansions of distributions connected with Schrodinger operator. .](#) Applied Mathematics Letters , 25 (6) pp.921-924
- 2012 [On the spectral expansions connected with Schrödinger's operator of continuous functions in a closed domain.](#) Journal of Basic and Applied Sciences , 8 pp.613-617
- 2012 [On the approximation of the spectral expansions of distributions in the weak topology.](#) Australian Journal of Basic and Applied Sciences , 6 (2) pp.20-24
- 2012 [On the fundamental solution of the Cauchy problem for time fractional diffusion equation on the sphere.](#) Malaysian Journal of Mathematical Sciences , 6 (1) pp.105-112
- 2011 [On one application of Fourier analysis in plastic surgery.](#) International Journal of Modern Physics: Conference Series , 9 pp.24-29
- 2011 [On the localization of the riesz means of multiple fourier series of distributions.](#) Abstract and Applied Analysis , 2011 pp.1-8

Conference or Workshop Item

- 2020 [On the uniform summability of the Fourier-Laplace series on the sphere.](#) In: **5th International Conference on Mathematical Applications in Engineering 2019**
- 2018 [Uniform convergence of the eigenfunction expansions associated with the bi-harmonic operator on the closed domain.](#) In: **25th National Symposium on Mathematical Sciences: Mathematical Sciences as the Core of Intellectual Excellence, SKSM 2017**
- 2018 [Uniform convergence of the eigenfunction expansions of distributions associated with the polyharmonic operator on closed domain.](#) In: **4th International Conference on Mathematical Applications in Engineering 2017, ICMAE 2017**
- 2018 [On the summability of the spectral expansions associated with the elliptic differential operators.](#) In: **3rd International Conference on Mathematical Sciences and Statistics**
- 2018 [Equiconvergence in summation associated with elliptic polynomial.](#) In: **4th International Conference on Mathematical Applications in Engineering (ICMAE '17)**
- 2017 [Uniform convergence of the Fourier-Laplace series.](#) In: **4th International Conference on Mathematical Sciences - Mathematical Sciences: Championing the Way in a Problem Based and Data Driven Society, ICMS 2016**
- 2017 [Absence of localization of Fourier-Laplace series.](#) In: **4th International Conference on Mathematical Sciences - Mathematical Sciences: Championing the Way in a Problem Based and Data Driven Society, ICMS 2016;**
- 2017 [Equiconvergence in summation associated with elliptic polinomial.](#) In: **Proceedings of the 4th International Conference of Mathematical Applications in Engineering 2017**

- 2017 [On equiconvergence of Fourier Series and Fourier Integral.](#) In: **37th International Conference on Quantum Probability and Related Topics (QP37)**
- 2017 [Localization of the spectral expansions associated with the partial differential operators.](#) In: **International Workshop on Mathematical Methods in Engineering (MME-2017)**
- 2017 [On the Lebesgue constants of Fourier-Laplace series by Riesz Means.](#) In: **37th International Conference on Quantum Probability and Related Topics (QP37) 2016**
- 2016 [On the equiconvergence of the Fourier series and the Fourier integral of distributions.](#) In: **2nd International Conference on Mathematical Sciences and Statistics (ICMSS2016)**
- 2015 [On the regularization of the spectral expansions of distributions with compact support.](#) In: **FEIC-International Conference on Engineering Education and Research 2015**
- 2015 [On the summability of the spectral expansions of distributions.](#) In: **Workshop on Modern Methods of Mathematical Physics 2015 in conjunction with Shavkat Alimov's 70th Birthday**
- 2015 [On the summability of the spectral expansions of distributions.](#) In: **International Conference on Mathematical Physics**
- 2014 [On the uniform convergence of Fourier series in a closed domain.](#) In: **USA-UZB Conference on Natural Sciences and Mathematics**
- 2013 [On the uniform convergence of the eigenfunction expansions.](#) In: **4th International Conference on the Advancement of Science and Technology 2012: Contemporary Mathematics, Mathematical Physics and Their Applications, iCAST 2012**
- 2013 [On the sufficient conditions of the localization of the Fourier-Laplace series of distributions from liouville classes.](#) In: **4th International Conference on the Advancement of Science and Technology 2012: Contemporary Mathematics, Mathematical Physics and Their Applications, iCAST 2012**
- 2013 [Modern methods of partial differential equations for engineering .](#) In: **International Conference on Engineering Education 2013**
- 2013 [Isomorphisim of generalized holder spaces..](#) In: **International Conference on Quantum Optics and Quantum Information (icQoQi) 2013**
- 2012 [On the eigenfunction expansions associated with the Schrodinger operator .](#) In: **The 2nd International Conference on Mathematical Applications in Engineering (ICMAE2012)**
- 2011 [On the regularizations Fourier series of distributions.](#) In: **2011 4th International Conference on Modeling, Simulation and Applied Optimization (ICMSAO)**

**Book
Book Section**

- 2018 [Localization of the spectral expansions associated with the partial differential operators.](#) In: **Mathematical Methods in Engineering : Theoretical Aspects** Springer, Cham . ISBN 978-3-319-91064-2 , pp.217-233