

# MEIRAM AKHYMBEK

Institute of Mathematics and Mathematical Modeling, Almaty, Kazakhstan

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## Education

**Al-Farabi Kazakh National University**

*Bachelor of Science in Mathematics*

Sep. 2011 – May 2015

Almaty, Kazakhstan

**Al-Farabi Kazakh National University**

*Master of Science in Mathematics*

Sep. 2015 – May 2017

Almaty, Kazakhstan

**University of New South Wales**

*PhD in Pure Mathematics*

Aug. 2018 – Sep. 2022

Sydney, Australia

## Experience

**Institute of Mathematics and Mathematical Modeling**

*Researcher*

October 2013 – present

Almaty, Kazakhstan

## Awards and Scholarships

**”Bolashak” International Scholarship**

*Center for International Programmes, Ministry of Science and Higher Education*

Aug. 2018 – Jul. 2022

Astana, Kazakhstan

**Heidelberg Laureate Forum**

*Networking conference for young researchers with the laureates in mathematics and computer science*

Sep. 2023

Heidelberg, Germany

## Reserach Visits

**Ghent Analysis and PDE Center**

*Supervisor/Collaborator: Professor M. Ruzhansky, University of Ghent*

Oct. 2024 – Dec. 2024

Ghent, Belgium

## Publications

- M. Akhymbek, K. Tulenov and B. Ozbekbay, *Spectrum of the Hilbert transform on Lorentz spaces  $L_{p,q}$* , Complex Variables and Elliptic Equations, 1-12 (2024) <https://doi.org/10.1080/17476933.2024.2413126>.
- M. Akhymbek, M. Ruzhansky and K. Tulenov, *On geometric properties of  $\ell^p$ -spaces on unitary duals of compact groups*, arXiv preprint arXiv:2404.08337 (2024) <https://doi.org/10.48550/arXiv.2404.08337>.
- M. Akhymbek, R. Tastankul and B. Ozbekbay, *Spectrum of the Hilbert transform on Orlicz spaces over  $\mathbb{R}$* , Journal of Mathematics, Mechanics and Computer Science 121(1), 3-11 (2024) <https://doi.org/10.26577/JMMCS202412111>.
- M. Akhymbek, K. Tulenov and G. Zaur, *Spectrum of the Cesàro-Hardy operator in rearrangement invariant spaces*, Quaestiones Mathematicae, 47(6), 1157-1175 (2023) <https://doi.org/10.2989/16073606.2023.2281570>.
- M. Akhymbek, *Trotter-Kato product formula and an approximation formula for a propagator in symmetric operator ideal*, Bulletin of the Australian Mathematical Society 108(1), 173-174 (2023) <https://doi.org/10.1017/S0004972723000485>.
- M. Akhymbek and D. Zanin, *Approximation formula for a propagator in symmetrically normed ideals*, Journal of Math. Analysis and Applications 522(2), 126996 (2022) <https://doi.org/10.1016/j.jmaa.2022.126996>.
- M. Akhymbek and G. Levitina, *Trotter-Kato product formula in symmetric F-normed ideals*, Studia Math. 266, 167–191 (2022) <https://doi.org/10.4064/sm210708-4-11>.
- K.S. Tulenov, M. Akhymbek and A.A. Kassymov, *Clarkson inequalities on  $L_p(\widehat{G})$  space associated with compact Lie group*, J. Pseudo-Differ. Oper. Appl. 9, 443–450 (2018). <https://doi.org/10.1007/s11868-017-0187-y>.
- M. Akhymbek and M.A. Sadybekov, *Correct restrictions of first-order functional-differential equation*, AIP Conference Proceedings 1880, 050014 (2017) <https://doi.org/10.1063/1.5000651>.
- M. Akhymbek and N. Yessirkegenov, *Renovation of unknown coefficients of fixing and loading by the spectral data*, AIP Conference Proceedings 1789, 040003 (2016) <https://doi.org/10.1063/1.4968456>.
- M. Akhymbek and M.A. Sadybekov, *On a difference scheme for nonlocal heat transfer boundary-value problem*, AIP Conference Proceedings 1759, 020032 (2016) <https://doi.org/10.1063/1.4959646>.
- M. Akhymbek, N.A. Yessirkegenov and M.A. Sadybekov, *Renovation of the fixing and loading factors of the beam by the spectral data of free flexural vibrations*, AIP Conference Proceedings 1676, 020058 (2015) <https://doi.org/10.1063/1.4930484>.
- M. Akhymbek and M.A. Sadybekov, *Spectral properties of some non strongly regular boundary value problems for fourth order differential operators*, AIP Conference Proceedings 1611, 156 (2014) <https://doi.org/10.1063/1.4893822>.
- M. Akhymbek and D.B. Nurakhmetov, *The first regularized trace for the two-fold differentiation operator in a punctured segment*, Sib. Èlektron. Mat. Izv. 11 (2014) <http://mi.mathnet.ru/semr512>.