



LEILI KUSSAINOVA

Professor of the Department of Fundamental Mathematics, faculty of Mechanics and Mathematics, L. N. Gumilyov Eurasian National University.

Contact details:

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Academic degree and title (KKSON, VAK): Doctor of Physical and Mathematical Sciences, Professor of MES RK.

Specialty: "01.01.01-Functional analysis»

Science school is school of Professor, Doctor Physical and Mathematical Sciences, academician of NAS RK M. Otelbaev.

Scientific interest:

embeddings of functional spaces; interpolation spaces; maximal functions and singular operators; approximation theory.

Scientific grants (participation in the implementation of scientific projects):

2013-2015 – «Direct and inverse problems of the spectral theory of differential equations, applications in the control of a laser heat source»

2018-2020 - AR 05133397 "Qualitative and quantitative characteristics of singular differential operators. Multiplicators in the theory of differential operators»

2020-2022-AP08856104 "Differential operators with singular coefficients. Approximative characteristics. Spectrum. Inverse problems.»

More than 120 scientific articles, the main results of which are published in scientific publications and in the materials of international scientific conferences.

Scientific works (favorites):

Professional experience:

Total experience- 45 years

Experience in the field of education and science:

1972-2006 - teacher, senior lecturer, Junior researcher, Associate Professor of E. A. Buketov Karaganda State University, Institute of Mathematics and Mechanics of the Academy of Sciences of the Republic of Kazakhstan.

1994-2006-Head of the laboratory of differential equations of the Institute of applied mathematics MES RK, Karaganda.

1999-2004 - Head of the Department of differential equations of E. A. Buketov Karaganda State University

2004-2005 - Head of the Department of mathematical analysis of E. A.

1. L.K. Kussainova, Y.T. Sultanayev, A.Kh.Myrzagaliyeva. On the boundedness of the Schrodinger operator in weighted Sobolev spaces // Mathematical notes, 2016, Vol. 99, No 5, pp. 948 – 953. (IF 0,425).

2. L.K. Kussainova, Y.T. Sultanayev. G. Murat. Approximate Estimates for a Differential Operator in a Weighted Hilbert Space // Differential Equations, 2019, Vol. 55, No.12, pp. 1589– 1597.

3. Kassym A. S., Kussainova L. K. On the Separation Property of the Sturm-Liouville Operator in Weighted Spaces of Multiplicators. // Journal of Mathematical Sciences, Vol. 241, No. 5, September, 2019. ISSN 1072-3374. (Springer US)

4. L.K. Kussainova, A.Kh.Myrzagaliyeva On multipliers in weighted Sobolev spaces to Lebesgue spaces // Functional Analysis in Interdisciplinary Applications. Springer International Publishing AG 2017. 2017 (Scopus)

5. L.K. Kussainova, B. S. Koshkarova. Oscillatory and Nonoscillatory Conditions for a Second-Order Half-Linear Differential Equation // Journal of Mathematical Sciences (IF 0,48). – September 2019. – Vol. 241, Issue 3. – P. 285–289. – ISSN 1072-3374.

6. A. C. Касым, Л. К. Кусаинова, “О разделимости оператора Штурма—Лиувилля в весовых пространствах

<p>Buketov Karaganda State University.</p> <p>From 2006 to the present -</p> <p>Professor of the Department of fundamental mathematics at the L. N. Gumilyov Eurasian National University.</p>	<p>мультiplикаторов”, <i>Итоги науки и техн. Сер. Соврем. мат. и ее прил. Темат. обз.</i>, 141 (2017), 86–94</p> <p>7. Л. К. Кусаинова, А. Ж. Монашова, А. А. Шкаликов, “Асимптотика собственных значений несамосопряженного дифференциального оператора второго порядка на оси”, <i>Матем. заметки</i>, 93:4 (2013), 630–633</p> <p>8. L. K. Kussainova, “On oscillation of two terms linear differential equation with alternating potential”, <i>Eurasian Math. J.</i>, 3:2 (2012), 135–140</p> <p>9. Л. К. Кусаинова, “О мультiplикаторах в весовых пространствах Соболева”, <i>Матем. сб.</i>, 196:8 (2005), 21–48</p> <p>10. Л. К. Кусаинова, “О вложении весового пространства Соболева $W^{1,p}(\Omega; v)$ в пространство $L^p(\Omega; \omega)$”, <i>Матем. сб.</i>, 191:2 (2000), 132–148.</p>
<p>Awards:</p> <p>Breastplate of the MES RK "Honorary worker of education of the Republic of Kazakhstan" (2005)</p>	<p>Author's courses:</p> <p>“Multiplicators in weight spaces of smooth functions”</p> <p>“Elements of the theory of generalized functions”</p> <p>“Weight spaces of smooth functions”</p> <p>“Weight spaces of whole and non-whole smoothness”</p> <p>“s-numbers of linear operators in Banach spaces”</p> <p>“General theory of interpolation of Sobolev spaces”</p> <p>“Advanced course in measure theory”</p> <p>“Metric spaces and operator theory”</p> <p>“General theory of functional spaces”</p>
<p>Membership in professional organizations:</p> <p>Member of the editorial Board of the journal “Vestnik KarSU”. Ser. Mathematics.</p> <p>Member of the editorial Board of the Eurasian Mathematical Journal (L. N. Gumilyov Eurasian National University)</p>	<p>Readable courses</p> <p>“Multiplicators in weight spaces of smooth functions”</p> <p>“Elements of the theory of generalized functions”</p> <p>“Weight spaces of smooth functions”</p> <p>“Weight spaces of whole and non-whole smoothness”</p> <p>“s-numbers of linear operators in Banach spaces”</p> <p>“General theory of interpolation of Sobolev spaces”</p> <p>“Advanced course in measure theory”</p> <p>“Metric spaces and operator theory”</p> <p>“General theory of functional spaces”</p>