Assoc. Prof. KOSTYANTYN ZHELTUKHIN

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International Researcher IDs

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Education Information

Postgraduate, Ihsan Dogramaci Bilkent University, Science Faculty, Department of Mathematics, Turkey 1998 - 2002

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2017 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2004 - 2017

Lecturer PhD, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, 2002 - 2004

Courses

Discrete Mathematics, Undergraduate, 2020 - 2021
Partial Differential Equations, Undergraduate, 2020 - 2021, 2019 - 2020
Special Functions of Applied Mathematics, Undergraduate, 2020 - 2021, 2019 - 2020
Applied Mathematics II, Undergraduate, 2019 - 2020, 2018 - 2019
Calculus of Functions of Several Variables, Undergraduate, 2018 - 2019
Lebesgue Integral, Undergraduate, 2019 - 2020

Advising Theses

ZHELTUKHIN K., On some classes of semi-discrete Darboux integrable equations, Doctorate, E.BİLEN(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

I. On the discretization of Darboux Integrable Systems

ZHELTUKHIN K., ZHELTUKHINA N.

JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, vol.27, no.4, pp.616-632, 2020 (SCI-Expanded)

II. Nonlocal hydrodynamic type of equations

Gürses M., Pekcan A., Zheltukhin K.

COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.85, 2020 (SCI-Expanded)

III. Discrete symmetries and nonlocal reductions

GÜRSES M., Pekcan A., ZHELTUKHIN K.

PHYSICS LETTERS A, vol.384, no.3, 2020 (SCI-Expanded)

IV. On the discretization of Laine equations

ZHELTUKHIN K., ZHELTUKHINA N.

JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, vol.25, no.1, pp.166-177, 2018 (SCI-Expanded)

V. On a class of Darboux-integrable semidiscrete equations

ZHELTUKHIN K., ZHELTUKHİNA N., Bilen E.

ADVANCES IN DIFFERENCE EQUATIONS, 2017 (SCI-Expanded)

VI. Semi-discrete hyperbolic equations admitting five dimensional characteristic x-ring

ZHELTUKHIN K., ZHELTUKHINA N.

JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, vol.23, no.3, pp.351-367, 2016 (SCI-Expanded)

VII. Cartan matrices and integrable lattice Toda field equations

Habibullin I., ZHELTUKHIN K., Yangubaeva M.

JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, vol.44, no.46, 2011 (SCI-Expanded)

VIII. Dynamical systems and Poisson structures

Guerses M., Guseinov G. S., ZHELTUKHIN K.

JOURNAL OF MATHEMATICAL PHYSICS, vol.50, no.11, 2009 (SCI-Expanded)

IX. Bi-presymplectic chains of co-rank 1 and related Liouville integrable systems

Blaszak M., Guerses M., ZHELTUKHIN K.

JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, vol.42, no.28, 2009 (SCI-Expanded)

X. Hydrodynamic type integrable equations on a segment and a half-line

Guerses M., Habibullin I., ZHELTUKHIN K.

JOURNAL OF MATHEMATICAL PHYSICS, vol.49, no.10, 2008 (SCI-Expanded)

XI. Integrable boundary value problems for elliptic type Toda lattice in a disk

Guerses M., Habibullin I., ZHELTUKHIN K.

JOURNAL OF MATHEMATICAL PHYSICS, vol.48, no.10, 2007 (SCI-Expanded)

XII. On a transformation between hierarchies of integrable equations

GÜRSES M., ZHELTUKHIN K.

PHYSICS LETTERS A, vol.351, pp.37-40, 2006 (SCI-Expanded)

XIII. Hamiltonian equations in R-3

Ay A., GÜRSES M., ZHELTUKHIN K.

JOURNAL OF MATHEMATICAL PHYSICS, vol.44, no.12, pp.5688-5705, 2003 (SCI-Expanded)

XIV. Recursion operator and dispersionless rational Lax representation

ZHELTUKHIN K.

Physics Letters A, vol.297, pp.402-407, 2002 (SCI-Expanded)

XV. Some remarks on vector-valued integration.

Kadets V., Shumyatskiy B., Shvidkoy R., ZHELTUKHIN K., Tseytlin L.

Journal of Mathematical Physics, Analysis, Geometry, 2002 (SCI-Expanded)

XVI. On the integrability of a class of Monge-Ampere equations

BRUNELLI J. C., GÜRSES M., ZHELTUKHIN K.

REVIEWS IN MATHEMATICAL PHYSICS, vol.13, no.4, pp.529-543, 2001 (SCI-Expanded)

XVII. Recursion operators of some equations of hydrodynamic type

GÜRSES M., ZHELTUKHIN K.

JOURNAL OF MATHEMATICAL PHYSICS, vol.42, no.3, pp.1309-1325, 2001 (SCI-Expanded)

XVIII. Some Remrks on Vector Measures Duality

ZHELTUKHIN K., Kadets V.

QUAESTIONES MATHEMATICAE, 2000 (SCI-Expanded)

XIX. A vector-valued measure as a basis of a Banach space.

ZHELTUKHIN K., Kadets V.

Journal of Mathematical Physics, Analysis, Geometry, 1998 (SCI-Expanded)

Articles Published in Other Journals

I. ON DISCRETIZATION OF DARBOUX INTEGRABLE SYSTEMS ADMITTING SECOND-ORDER INTEGRALS

Zheltukhin K., Zheltukhina N.

UFA MATHEMATICAL JOURNAL, vol.13, no.2, pp.170-186, 2021 (ESCI)

II. Recursion operator for a system with non-rational Lax representation

ZHELTUKHIN K.

Ufa Mathematical Journal, vol.8, no.2, pp.112-118, 2016 (Scopus)

III. A Banach space generated by the upper Darboux integral.

ZHELTUKHIN K.

Matematichnī Studīi, 1992 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. On existence of an x-integral for a semi-discrete chain of hyperbolic type

ZHELTUKHIN K., ZHELTUKHINA N.

23rd International Conference on Integrable Systems and Quantum Symmetries (ISQS), Prague, Czech Republic, 23

- 27 June 2015, vol.670

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