

## Doç. Dr. KOSTYANTYN ZHELTUKHIN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAZ-6715-2020

ScopusID: 6603497099

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### Eğitim Bilgileri

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Science Faculty, Department of Mathematics, Türkiye 1998 - 2002

### Araştırma Alanları

Temel Bilimler

### Akademik Unvanlar / Görevler

Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 2017 - Devam Ediyor

Dr. Öğr. Üyesi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 2004 - 2017

Öğretim Görevlisi Dr., İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2002 - 2004

### Verdiği Dersler

Discrete Mathematics, Lisans, 2020 - 2021

Partial Differential Equations, Lisans, 2020 - 2021, 2019 - 2020

Special Functions of Applied Mathematics, Lisans, 2020 - 2021, 2019 - 2020

Applied Mathematics II, Lisans, 2019 - 2020, 2018 - 2019

Calculus of Functions of Several Variables, Lisans, 2018 - 2019

Lebesgue Integral, Lisans, 2019 - 2020

### Yönetilen Tezler

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

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. ON CONSTRUCTION OF DARBOUX INTEGRABLE DISCRETE MODELS

- ZHELTUKHIN K., Zheltukhina N.  
REPORTS ON MATHEMATICAL PHYSICS, cilt.92, sa.3, ss.279-289, 2023 (SCI-Expanded)
- II. **On the discretization of Darboux Integrable Systems**  
ZHELTUKHIN K., ZHELTUKHINA N.  
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, cilt.27, sa.4, ss.616-632, 2020 (SCI-Expanded)
- III. **Nonlocal hydrodynamic type of equations**  
Gürses M., Pekcan A., Zheltukhin K.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, cilt.85, 2020 (SCI-Expanded)
- IV. **Discrete symmetries and nonlocal reductions**  
GÜRSES M., Pekcan A., ZHELTUKHIN K.  
PHYSICS LETTERS A, cilt.384, sa.3, 2020 (SCI-Expanded)
- V. **On the discretization of Laine equations**  
ZHELTUKHIN K., ZHELTUKHINA N.  
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, cilt.25, sa.1, ss.166-177, 2018 (SCI-Expanded)
- VI. **On a class of Darboux-integrable semidiscrete equations**  
ZHELTUKHIN K., ZHELTUKHINA N., Bilen E.  
ADVANCES IN DIFFERENCE EQUATIONS, 2017 (SCI-Expanded)
- VII. **Semi-discrete hyperbolic equations admitting five dimensional characteristic x-ring**  
ZHELTUKHIN K., ZHELTUKHINA N.  
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, cilt.23, sa.3, ss.351-367, 2016 (SCI-Expanded)
- VIII. **Cartan matrices and integrable lattice Toda field equations**  
Habibullin I., ZHELTUKHIN K., Yangubaeva M.  
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, cilt.44, sa.46, 2011 (SCI-Expanded)
- IX. **Dynamical systems and Poisson structures**  
Guerses M., Guseinov G. S., ZHELTUKHIN K.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.50, sa.11, 2009 (SCI-Expanded)
- X. **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, cilt.42, sa.28, 2009 (SCI-Expanded)
- XI. **Hydrodynamic type integrable equations on a segment and a half-line**  
Guerses M., Habibullin I., ZHELTUKHIN K.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.49, sa.10, 2008 (SCI-Expanded)
- XII. **Integrable boundary value problems for elliptic type Toda lattice in a disk**  
Guerses M., Habibullin I., ZHELTUKHIN K.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.48, sa.10, 2007 (SCI-Expanded)
- XIII. **On a transformation between hierarchies of integrable equations**  
GÜRSES M., ZHELTUKHIN K.  
PHYSICS LETTERS A, cilt.351, ss.37-40, 2006 (SCI-Expanded)
- XIV. **Hamiltonian equations in R-3**  
Ay A., GÜRSES M., ZHELTUKHIN K.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.44, sa.12, ss.5688-5705, 2003 (SCI-Expanded)
- XV. **Recursion operator and dispersionless rational Lax representation**  
ZHELTUKHIN K.  
Physics Letters A, cilt.297, ss.402-407, 2002 (SCI-Expanded)
- XVI. **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)
- XVII. **On the integrability of a class of Monge-Ampere equations**  
BRUNELLI J. C., GÜRSES M., ZHELTUKHIN K.  
REVIEWS IN MATHEMATICAL PHYSICS, cilt.13, sa.4, ss.529-543, 2001 (SCI-Expanded)
- XVIII. **Recursion operators of some equations of hydrodynamic type**

GÜRSES M., ZHELTUKHIN K.

JOURNAL OF MATHEMATICAL PHYSICS, cilt.42, sa.3, ss.1309-1325, 2001 (SCI-Expanded)

**XIX. Some Remrks on Vector Measures Duality**

ZHELTUKHIN K., Kadets V.

QUAESTIONES MATHEMATICAE, 2000 (SCI-Expanded)

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

ZHELTUKHIN K., Kadets V.

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

## **Diğer Dergilerde Yayınlanan Makaleler**

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

Zheltukhin K., Zheltukhina N.

UFA MATHEMATICAL JOURNAL, cilt.13, sa.2, ss.170-186, 2021 (ESCI)

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

ZHELTUKHIN K.

Ufa Mathematical Journal, cilt.8, sa.2, ss.112-118, 2016 (Scopus)

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

ZHELTUKHIN K.

Matematichnī Studīi, 1992 (Hakemli Dergi)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

**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, Çek Cumhuriyeti,

23 - 27 Haziran 2015, cilt.670

## **Metrikler**

Yayın: 24

Atf (WoS): 115

Atf (Scopus): 119

H-İndeks (WoS): 6

H-İndeks (Scopus): 7