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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-5490-2019

ScopusID: 6603312271 Yoksis Researcher ID: 1899

Education Information

Doctorate, Brandeis University, United States Of America 1994 - 2000

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Matematik (Yl) (Tezli), Turkey 1991 - 1993

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1987 - 1991

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Duality/Propagation Properties of Gauge Theories and Attempts at Supersymmetry Breaking in N=4 SYM, Brandeis University, 2000

Postgraduate, An Integrable Family of Monge-Ampere Equations and Their Multi-Hamiltonian Structure, Bilkent Üniversitesi, 1993

Research Areas

Differential Equations, Differential Geometry, Physics, Mathematical Methods in Physics, Relativity and Gravitation, Quantum Mechanics, Fields Theory and Relativity, Basic Particles and Areas

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2010 - Continues Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2006 - 2010 Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2001 - 2006 Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2000 - 2001 Research Assistant, Brandeis University, Fizik Bölümü, 1994 - 1999

Research Assistant, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, 1991 - 1994

Advising Theses

SARIOĞLU B. Ö., On the finite perimeter sets of Sub-Lorentzian metric spaces, Postgraduate, G.ÇETİN(Student), 2022

SARIOĞLU B. Ö., 3D Chern-Simons-like gravity models for N=2,3,4, Postgraduate, B.DEDEOĞLU(Student), 2022

SARIOĞLU B. Ö., Killing family of tensors and hidden symmetries, Postgraduate, O.GÜNEL(Student), 2022

SARIOĞLU B. Ö., Knotted solutions of maxwell equations, Postgraduate, S.Eren.(Student), 2019

SARIOĞLU B. Ö., Second-order scalar-tensor field theories, Postgraduate, E.SİNAN(Student), 2017

SARIOĞLU B. Ö., Anisotropic solutions for generalised holography, Doctorate, D.OLGU(Student), 2016

SARIOĞLU B. Ö., Killing family of tensors in classical gravitational theories, Postgraduate, Ç.MENEKAY(Student), 2013

SARIOĞLU B. Ö., Covariant symplectic structure and conserved charges of new massive gravity, Postgraduate,

G.ALKAÇ(Student), 2012

SARIOĞLU B. Ö., Conserved charges of quadratic curvature gravity theories in arbitrary backgrounds, Postgraduate, D.OLGU(Student), 2010

SARIOĞLU B. Ö., Gödel spacetime, Postgraduate, M.KAVUK(Student), 2005

SARIOĞLU B. Ö., Dualisation of supergravity theories, Doctorate, N.TEVFİK(Student), 2004

SARIOĞLU B. Ö., Tunnelling time models and 'superluminality', Postgraduate, H.SEVİNÇLİ(Student), 2002

Jury Memberships

Award, TÜBA GEBİP, Middle East Technical University, July, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, May, 2021

Associate Professor Exam, Associate Professor Exam, Ege Üniversitesi, May, 2021

Doctorate, Doctorate, Eskişehir Teknik Üniversitesi, January, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

 I. Chern-Simons-like formulation of exotic massive 3D gravity models DEDEOĞLU B., Özkan M., SARIOĞLU B. Ö.

European Physical Journal C, vol.84, no.11, 2024 (SCI-Expanded)

II. Rotating AdS3× S3 and dyonic strings from 3-dimensions

Deger N. S., Deral C. A., Saha A., SARIOĞLU B. Ö.

Journal of High Energy Physics, vol.2024, no.10, 2024 (SCI-Expanded)

III. Conserved charges of the Kerr black hole revisited

Günel O., Sarıoğlu B. Ö.

EUROPEAN PHYSICAL JOURNAL C, vol.83, no.9, 2023 (SCI-Expanded)

IV. Geometry, conformal Killing-Yano tensors and conserved "currents" Lindström U., Sarioğlu B. Ö.

Journal of High Energy Physics, vol.2023, no.5, 2023 (SCI-Expanded)

V. Killing-Yano charges of asymptotically maximally symmetric black holes Günel O., Lindström U., Sarioğlu B. Ö.

PHYSICS LETTERS B, vol.839, 2023 (SCI-Expanded)

VI. Gravitational duality, Palatini variation and boundary terms: a synopsis

Lindström U., Sarıoğlu B. Ö.

CLASSICAL AND QUANTUM GRAVITY, vol.40, no.8, 2023 (SCI-Expanded)

VII. A comment on metric vs metric-affine gravity

Lındström U. G., Sarıoğlu B. Ö.

PHYSICS LETTERS B, vol.836, 2023 (SCI-Expanded)

VIII. Tensionless strings and Killing(-Yano) tensors

Lindström U., SARIOĞLU B. Ö.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.829, 2022 (SCI-Expanded)

IX. Killing-Yano Cotton currents

Lindstrom U., Sarioglu O.

JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.3, 2022 (SCI-Expanded)

X. New currents with Killing-Yano tensors

Lindstrom U., Sarioglu O.

CLASSICAL AND QUANTUM GRAVITY, vol.38, no.19, 2021 (SCI-Expanded)

XI. Consistent S-3 reductions of six-dimensional supergravity

Samtleben H., Sarioglu O.

PHYSICAL REVIEW D, vol.100, no.8, 2019 (SCI-Expanded)

XII. Circularly symmetric solutions of minimal massive gravity at its merger point

SARIOĞLU B. Ö.

CLASSICAL AND QUANTUM GRAVITY, vol.36, no.14, 2019 (SCI-Expanded)

XIII. Stationary Lifshitz black hole of New Massive Gravity

SARIOĞLU B. Ö.

CLASSICAL AND QUANTUM GRAVITY, vol.36, no.1, 2019 (SCI-Expanded)

XIV. Supersymmetric solutions of N = (1,1) general massive supergravity

DEĞER N. S., Nazari Z., SARIOĞLU B. Ö.

PHYSICAL REVIEW D, vol.97, no.10, 2018 (SCI-Expanded)

XV. Kundt solutions of minimal massive 3D gravity

DEĞER N. S., SARIOĞLU B. Ö.

PHYSICAL REVIEW D, vol.92, no.10, 2015 (SCI-Expanded)

XVI. All timelike supersymmetric solutions of three-dimensional half-maximal supergravity

DEĞER N. S., Moutsopoulos G., Samtleben H., SARIOĞLU B. Ö.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2015 (SCI-Expanded)

XVII. A supersymmetric reduction on the three-sphere

DEĞER N. S., Samtleben H., SARIOĞLU B. Ö., Van den Bleeken D.

NUCLEAR PHYSICS B, vol.890, pp.350-362, 2015 (SCI-Expanded)

XVIII. Stationary Lifshitz black holes of R-2-corrected gravity theory

SARIOĞLU B. Ö.

PHYSICAL REVIEW D, vol.84, no.12, 2011 (SCI-Expanded)

XIX. Thermodynamics of Lifshitz black holes

Devecioglu D. O., SARIOĞLU B. Ö.

PHYSICAL REVIEW D, vol.83, no.12, 2011 (SCI-Expanded)

XX. Conserved Killing charges of quadratic curvature gravity theories in arbitrary backgrounds

Devecioglu D. O., SARIOĞLU B. Ö.

PHYSICAL REVIEW D, vol.83, no.2, 2011 (SCI-Expanded)

XXI. On the supersymmetric solutions of D=3 half-maximal supergravities

DEĞER N. S., Samtleben H., SARIOĞLU B. Ö.

NUCLEAR PHYSICS B, vol.840, pp.29-53, 2010 (SCI-Expanded)

XXII. Self-dual solutions of Yang-Mills theory on Euclidean AdS space

SARIOĞLU B. Ö., TEKİN B.

PHYSICAL REVIEW D, vol.79, no.10, 2009 (SCI-Expanded)

XXIII. Note on cosmological Levi-Civita spacetimes in higher dimensions

SARIOĞLU B. Ö., TEKİN B.

PHYSICAL REVIEW D, vol.79, no.8, 2009 (SCI-Expanded)

XXIV. Comment on 'A second anti-de Sitter universe'

SARIOĞLU B. Ö., TEKİN B.

CLASSICAL AND QUANTUM GRAVITY, vol.26, no.4, 2009 (SCI-Expanded)

XXV. Finite mass gravitating Yang monopoles

CEBECİ H., Sarioglu O., TEKİN B.

PHYSICAL REVIEW D, vol.78, no.12, 2008 (SCI-Expanded)

XXVI. Cotton flow

Kisisel A. U. O., Sarioglu O., TEKİN B.

CLASSICAL AND QUANTUM GRAVITY, vol.25, no.16, 2008 (SCI-Expanded)

XXVII. Spherically symmetric solutions of Einstein plus non-polynomial gravities

Deser S., Sarioglu O., TEKİN B.

GENERAL RELATIVITY AND GRAVITATION, vol.40, no.1, pp.1-7, 2008 (SCI-Expanded)

XXVIII. Topologically massive gravity as a Pais-Uhlenbeck oscillator

Sarioglu O., Tekin B.

CLASSICAL AND QUANTUM GRAVITY, vol.23, no.24, pp.7541-7549, 2006 (SCI-Expanded)

XXIX. Gravitational charges of transverse asymptotically AdS spacetimes

Cebeci H., Sarioglu O., Tekin B.

PHYSICAL REVIEW D, vol.74, no.12, 2006 (SCI-Expanded)

XXX. New supersymmetric solutions in N=2 matter coupled AdS(3) supergravities

Deger N. S., Sarioglu O. r.

JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2006 (SCI-Expanded)

XXXI. Closed timelike curves and geodesics of Godel-type metrics

Gleiser R., Gurses M., Karasu A., Sarioglu O.

CLASSICAL AND QUANTUM GRAVITY, vol.23, no.7, pp.2653-2663, 2006 (SCI-Expanded)

XXXII. Negative mass solitons in gravity

Cebeci H., Sarioglu O., Tekin B.

PHYSICAL REVIEW D, vol.73, no.6, 2006 (SCI-Expanded)

 $XXXIII. \quad Accelerated \ Levi-Civita-Bertotti-Robinson \ metric \ in \ D \ dimensions$

Gurses M., Sarioglu O.

GENERAL RELATIVITY AND GRAVITATION, vol.37, no.12, pp.2015-2022, 2005 (SCI-Expanded)

XXXIV. Godel-type metrics in various dimensions: II. Inclusion of a dilaton field

Gurses M., Sarioglu O.

CLASSICAL AND QUANTUM GRAVITY, vol.22, no.22, pp.4699-4713, 2005 (SCI-Expanded)

XXXV. Mass and angular momentum of asymptotically AdS or flat solutions in the topologically massive gravity

Olmez S., Sarioglu O., Tekin B.

CLASSICAL AND QUANTUM GRAVITY, vol.22, no.20, pp.4355-4361, 2005 (SCI-Expanded)

XXXVI. Godel-type metrics in various dimensions

Gurses M., Karasu A., Sarioglu O.

CLASSICAL AND QUANTUM GRAVITY, vol.22, no.9, pp.1527-1543, 2005 (SCI-Expanded)

XXXVII. Suppersymmetric strings and waves in D=3, N=2 matter coupled gauged supergravities

Deger N., Sarioglu O.

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2004 (SCI-Expanded)

XXXVIII. Some further properties of the accelerated Kerr-Schild metrics

Gurses M., Sarioglu O.

GENERAL RELATIVITY AND GRAVITATION, vol.36, no.2, pp.403-410, 2004 (SCI-Expanded)

XXXIX. Lienard-Wiechert potentials in even dimensions

Gurses M., Sarioglu O.

JOURNAL OF MATHEMATICAL PHYSICS, vol.44, no.10, pp.4672-4680, 2003 (SCI-Expanded)

XL. Accelerated Born-Infeld metrics in Kerr-Schild geometry

GÜRSES M., SARIOĞLU B. Ö.

CLASSICAL AND QUANTUM GRAVITY, vol.20, no.2, pp.351-358, 2003 (SCI-Expanded)

XLI. Lienard-Wiechert potentials of a non-Abelian Yang-Mills charge

Sarioglu O.

PHYSICAL REVIEW D, vol.66, no.8, 2002 (SCI-Expanded)

XLII. Accelerated charge Kerr-Schild metrics in D dimensions

GÜRSES M., SARIOĞLU B. Ö.

CLASSICAL AND QUANTUM GRAVITY, vol.19, no.16, pp.4249-4261, 2002 (SCI-Expanded)

XLIII. Supersymmetric solutions to topologically massive gravity and black holes in three dimensions Dereli T., Sarioglu O.

PHYSICAL REVIEW D, vol.64, no.2, 2001 (SCI-Expanded)

XLIV. "Self dual" solutions of topologically massive gravity coupled with the Maxwell-Chem-Simons theory Dereli T., Sarioglu O.

PHYSICS LETTERS B, vol.492, pp.339-343, 2000 (SCI-Expanded)

XLV. Shock-free wave propagation in gauge theories

McCarthy J., SARIOĞLU B. Ö.

INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.39, no.1, pp.159-182, 2000 (SCI-Expanded)

XLVI. 'Good propagation' and duality invariance constraints on scalar, gauge vector and gravity actions
Deser S., McCarthy J., SARIOĞLU B. Ö.

CLASSICAL AND QUANTUM GRAVITY, vol.16, no.3, pp.841-847, 1999 (SCI-Expanded)

XLVII. Hamiltonian electric/magnetic duality and Lorentz invariance

Deser S., SARIOĞLU B. Ö.

Physics Letters B, vol.423, pp.369-372, 1998 (SCI-Expanded)

XLVIII. AN INTEGRABLE FAMILY OF MONGE-AMPERE EQUATIONS AND THEIR MULTI-HAMILTONIAN STRUCTURE

NUTKU Y., SARIOĞLU B. Ö.

Physics Letters A, vol.173, pp.270-274, 1993 (SCI-Expanded)

Books & Book Chapters

I. Philosophical Concepts in Physics, The Historical Relation between Philoso- phy and Scientific Theories

Sarıoğlu B. Ö.

Sabancı Üniversitesi Yayınevi, İstanbul, 2006

II. Philosophical Concepts in Physics, The Historical Relation between Philosophy and Scientific Theories

Sarıoğlu B. Ö.

Sabancı Üniversitesi Yayınevi, İstanbul, 2003

Refereed Congress / Symposium Publications in Proceedings

I. Uses of Killing and Killing-Yano Tensors

Lindström U., SARIOĞLU B. Ö.

20th Hellenic School and Workshops on Elementary Particle Physics and Gravity, CORFU 2021, Corfu, Greece, 29 August - 09 October 2021, vol.406

II. Closed timelike curves and geodesics of gödel-type metrics

SARIOĞLU B. Ö.

11th Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity,

Scientific Refereeing

JOURNAL OF HIGH ENERGY PHYSICS, SCI Journal, August 2023

Special Functions: Comprehensive Rejuvenated Approach and Applications, Scientific / Professional Book Published by Renowned Publishing Houses, May 2023

PHYSICAL REVIEW D - PARTICLES, FIELDS, GRAVITATION AND COSMOLOGY, SCI Journal, April 2022

TUBITAK Project, 2247 - A National Leading Researchers Program, Istanbul Technical University, Turkey, November 2021

PHYSICAL REVIEW D - PARTICLES, FIELDS, GRAVITATION AND COSMOLOGY, SCI Journal, October 2021 PHYSICAL REVIEW D, SCI Journal, April 2021

Metrics

Publication: 52 Citation (WoS): 533 Citation (Scopus): 532 H-Index (WoS): 14 H-Index (Scopus): 15

Awards

Sarıoğlu B. Ö., TUBA University Textbooks Award Program - Best Translation Award in Natural Sciences, Tüba, December 2009

Sarıoğlu B. Ö., TU'BI'TAK-TWAS Incentive Award, Tübitak, December 2007

Non Academic Experience

Orta Doğu Teknik Üniversitesi Fizik Bölümü Orta Doğu Teknik Üniversitesi Fizik Bölümü Brandeis University Dept. of Physics Bilkent Üniversitesi Matematik Bölümü