

Assoc. Prof. SEMRA GÜRTAŞ DOĞAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: LQJ-2124-2024
ScopusID: 57210357479
Yoksis Researcher ID: 336426

Education Information

Doctorate, Akdeniz University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2013 - 2019
Postgraduate, Akdeniz University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2009 - 2013
Undergraduate, Akdeniz University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 2004 - 2008

Dissertations

Doctorate, (2+1) boyutta gravitasyonel dalgalar, Akdeniz University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2019
Postgraduate, Spin-1 ve Spin-1/2 relativistik parçacıklarının çeşitli potansiyeller için (2+1) boyutta kuantum mekaniksel davranışlarının incelenmesi, Akdeniz University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2013

Research Areas

Natural Sciences

Academic Titles / Tasks

Assistant Professor, Hakkari University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü,
2021 - Continues

Academic and Administrative Experience

Head of Department, Hakkari University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü,
2021 - Continues

Courses

Postgraduate

Quantum Mechanics II, Postgraduate, 2023 - 2024

Associate Degree

İş Sağlığı ve Güvenliği, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022

Tıbbi Cihazlarda Kalite Yönetim Sisteminin Kurulması, Associate Degree, 2023 - 2024, 2022 - 2023

Matematik-I, Associate Degree, 2023 - 2024, 2022 - 2023

Meslek Etiği, Associate Degree, 2021 - 2022

Araştırma Yöntem ve Teknikleri, Associate Degree, 2021 - 2022

Matematik-II, Associate Degree, 2021 - 2022

Jury Memberships

Post Graduate, Post Graduate, Hakkari Üniversitesi, July, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Coupled fermion-antifermion pairs within a traversable wormhole**
Güvendi A., Mustafa Ö., Gürtaş Doğan S.
Physics Letters B, pp.1-6, 2025 (SCI-Expanded)
- II. **Photonic modes in twisted graphene nanoribbons**
Güvendi A., Gürtaş Doğan S., Mustafa O., Hasanırokh K.
PHYSICA E: LOW-DIMENSIONAL SYSTEMS AND NANOSTRUCTURES, pp.1, 2025 (SCI-Expanded)
- III. **Minimally coupled fermion-antifermion pairs via exponentially decaying potential**
Güvendi A., Gurtas Dogan S., Mustafa O.
EUROPEAN PHYSICAL JOURNAL C, vol.84, no.801, pp.1-7, 2024 (SCI-Expanded)
- IV. **Rotational influence on fermions within negative curvature wormholes**
Güvendi A., Gürtaş Doğan S., Vitória R. L. L.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.139, pp.1-8, 2024 (SCI-Expanded)
- V. **Magnetic flux-driven modulation of Weyl pair dynamics on catenoid bridge: A theoretical analysis**
Güvendi A., Gurtas Dogan S.
CHINESE JOURNAL OF PHYSICS, vol.89, pp.1538-1544, 2024 (SCI-Expanded)
- VI. **Relativistic fermions and vector bosons in magnetized three-dimensional space-time with a cosmological constant**
Güvendi A., Ahmet F., Gürtaş Doğan S.
NUCLEAR PHYSICS B, no.116569, pp.1-6, 2024 (SCI-Expanded)
- VII. **Real and damped modes for an interacting fermion-antifermion pair: exciton in monolayer medium**
Güvendi A., Gürtaş Doğan S., Yazıcı U.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.139, pp.1-7, 2024 (SCI-Expanded)
- VIII. **Vector bosons in the rotating frame of negative curvature wormholes**
Güvendi A., GÜRTAŞ DOĞAN S.
General Relativity and Gravitation, vol.56, no.2, 2024 (SCI-Expanded)
- IX. **Quasibound states for a scalar field under the influence of an external magnetic field in the near-horizon geometry of the BTZ black hole with torsion**
Güvendi A., Gürtaş Doğan S.
Indian Journal of Physics, vol.97, no.14, pp.4491-4496, 2023 (SCI-Expanded)
- X. **Fermion-Antifermion Pair Exposed to Magnetic Flux in an Optical Wormhole**
Güvendi A., Gürtaş Doğan S.
Few-Body Systems, vol.64, no.3, 2023 (SCI-Expanded)
- XI. **Dirac pair in magnetized elliptic wormhole**

- Gürtaş Doğan S.
Annals of Physics, vol.454, 2023 (SCI-Expanded)
- XII. **Effect of internal magnetic flux on a relativistic spin-1 oscillator in the spinning point source-generated spacetime**
Guvendi A., Gürtaş Doğan S.
Modern Physics Letters A, vol.38, no.14-15, 2023 (SCI-Expanded)
- XIII. **Weyl fermions in a 2+1 dimensional optical background of constant negative curvature**
Gürtaş Doğan S., Guvendi A.
European Physical Journal Plus, vol.138, no.5, 2023 (SCI-Expanded)
- XIV. **Vector boson oscillator in the near-horizon of the BTZ black hole**
Guvendi A., Gürtaş Doğan S.
Classical and Quantum Gravity, vol.40, no.2, 2023 (SCI-Expanded)
- XV. **Damped modes for a bosonic quantum oscillator in the near-horizon geometry of the BTZ black hole**
Guvendi A., GÜRTAŞ DOĞAN S.
General Relativity and Gravitation, vol.55, no.1, 2023 (SCI-Expanded)
- XVI. **Landau Quantization for Relativistic Vector Bosons in a Gödel-Type Geometric Background**
GÜRTAŞ DOĞAN S.
Few-Body Systems, vol.63, no.2, 2022 (SCI-Expanded)
- XVII. **Relativistic Dynamics of Oppositely Charged Two Fermions Interacting with External Uniform Magnetic Field**
Guvendi A., GÜRTAŞ DOĞAN S.
Few-Body Systems, vol.62, no.1, 2021 (SCI-Expanded)
- XVIII. **Quasinormal modes of Dirac field in 2 + 1 dimensional gravitational wave background**
Gürtaş Doğan S., Sucu Y.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.797, 2019 (SCI-Expanded)
- XIX. **Particle Production via Dirac Dipole Moments in the Magnetized and Nonmagnetized Exponentially Expanding Universe**
Gürtaş Doğan S., Geçim G., Sucu Y.
Advances in High Energy Physics, vol.2019, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **EFFECTS OF GRAVITY'S RAINBOW ON A RELATIVISTIC SPIN-1 OSCILLATOR**
Gurtas Doğan S.
Journal of scientific reports-A (Online), no.052, pp.1-18, 2023 (Peer-Reviewed Journal)
- II. **Two-Dimensional Vector Boson Oscillator**
Doğan S. G.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.25, no.5, pp.1210-1217, 2021 (Peer-Reviewed Journal)
- III. **Relativistic quantum mechanical spin-1 wave equation in 2 + 1 dimensional spacetime**
Dernek M., Gürtaş Doğan S., Sucu Y., Ünal N.
TURKISH JOURNAL OF PHYSICS, vol.42, no.5, pp.509-526, 2018 (Scopus)

Papers Published in Refereed Scientific Meetings

- I. **Vector Field Perturbations Of A Lifshitz Black Hole in (2+1) Dimensional**
GÜRTAŞ DOĞAN S.
Anatolian Congresses 8th International Applied Sciences Congress, Diyarbakır, Turkey, 25 - 26 December 2021, pp.316-320
- II. **Massive Scalar Field in the Near-Horizon Geometry of BTZ Blackhole**

GÜRTAŞ DOĞAN S.

3rd International Eurasian Conference On Science, Engineering And Technology (EURASIANSCIENTECH 2021),
Ankara, Turkey, 15 - 17 December 2021

III. **Dirac Quasnormal Modes Of Lifshitz Black Hole In (2+1) Dimensional (z=0)**

GÜRTAŞ DOĞAN S., SUCU Y.

Turkish Physical Society, 33rd International Physics Congress, Bodrum, Turkey, 6 - 10 September 2017

IV. **Dirac Alanında (2+1) Boyutta Lifshitz Karadeligi'nin Kuasinormal Modları (z=3)**

GÜRTAŞ DOĞAN S., SUCU Y.

Adım Fizik Günleri 6, Balıkesir, Turkey, 19 - 21 July 2017

V. **(2+1) Boyutta Robertson Walker (RW) İçin Dirac Denklemi'nin Çözümü**

GÜRTAŞ DOĞAN S., SUCU Y.

Turkish Physical Society, 31st International Physics Congress, Bodrum, Turkey, 21 - 24 September 2014

Student Project

R & D Project, Hakkari İli Toprak Örneklerinde Doğal Radyasyon Düzeyinin Belirlenmesi, Hakkari University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, Turkey, 2024 - Continues

Peer Reviews in Scientific Publications

INDIAN JOURNAL OF PHYSICS, Journal Indexed in SCI-E, May 2023

Middle East Journal of Science, National Scientific Refreed Journal, April 2023

Scientific Consultations

Hakkari Üniversitesi, Project Consultancy, Hakkari University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, Turkey, 2024 - Continues

Metrics

Publication: 27

Citation (Scopus): 127

H-Index (WoS): 1

H-Index (Scopus): 7

Awards

Gürtaş Doğan S., Science Academic Performance Award, Hakkari Üniversitesi, May 2024

Gürtaş Doğan S., Yayın Teşvik, Hakkari Üniversitesi, January 2023

Gürtaş Doğan S., Yayın Teşvik, Hakkari Üniversitesi, January 2022