

2024

## Cover and Contents

Follow this and additional works at: <https://journals.tubitak.gov.tr/physics>

### Recommended Citation

(2024) "Cover and Contents," *Turkish Journal of Physics*: Vol. 48: No. 3, Article 1. <https://doi.org/10.55730/1300-0101.2757>

Available at: <https://journals.tubitak.gov.tr/physics/vol48/iss3/1>

This Cover and Contents is brought to you for free and open access by TÜBİTAK Academic Journals. It has been accepted for inclusion in Turkish Journal of Physics by an authorized editor of TÜBİTAK Academic Journals. For more information, please contact [pinar.dundar@tubitak.gov.tr](mailto:pinar.dundar@tubitak.gov.tr).

VOLUME | ISSUE | YEAR  
48 | 3 | 2024  
ISSN 1300-0101 • E-ISSN 1303-6122

# TURKISH JOURNAL OF PHYSICS

<http://journals.tubitak.gov.tr/physics/>



Published by the Scientific and  
Technological Research Council of Türkiye

**TÜBİTAK**

# TURKISH JOURNAL OF PHYSICS

Editor-in-Chief

Oğuz GÜLSEREN  
Bilkent University, Türkiye

VOLUME 48 • ISSUE 3 • 2024

ISSN 1300-0101 • E-ISSN 1303-6122

## SCOPE

- The Turkish Journal of Physics is published electronically 6 times a year by the Scientific and Technological Research Council of Turkey (TÜBİTAK).
- The Journal accepts English-language manuscripts and contribution is open to researchers of all nationalities.
- The Journal covers experimental and theoretical results in various branches of physics and astronomy such as atomic and molecular physics, optics, condensed matter physics, nuclear physics, particle physics, statistical physics, astrophysics, mathematical physics, field theory, gravity, cosmology as well as interdisciplinary topics related to physics.
- The Journal welcomes publications of the following types: research articles, review articles (by invitation only), focus issue articles devoted to advances in frontier areas of physics as well as special issues with high-quality conference proceedings.

## EDITORIAL BOARD

- Abdulmecit TURUT, İstanbul Medeniyet University, Türkiye
- Adem TEKİN, İstanbul Technical University, Türkiye
- Ali COŞKUN, University of Fribourg, Switzerland
- Ali MOSTAFAZADEH, Koç University, Türkiye
- Cevdet COŞKUN, Giresun University, Türkiye
- Ceyhun BULUTAY, Bilkent University, Türkiye
- Emre ERDEM, Sabancı University, Türkiye
- Emre GÜR, Eskişehir Osmangazi University, Türkiye
- Isao TANAKA, Kyoto University, Japan
- Kazem AZİZİ, Doğuş University, Türkiye
- Kemal ÖZDOĞAN, Yıldız Technical University, Türkiye
- Nihat BERKER, Kadir Has University, Türkiye
- Özgür MÜSTEÇAPLIOĞLU, Koç University, Türkiye
- Samir MATHUR, Ohio State University, U.S.A.
- Savaş BERBER, Gebze Technical University, Türkiye
- Subir SARKAR, University of Oxford, United Kingdom
- Tansu DAYLAN, Massachusetts Institute of Technology, U.S.A.
- Uğur SERİNCAN, Eskişehir Technical University, Türkiye
- Vahid KARIMIPOUR, Sharif University of Technology, Iran

## ABSTRACTED

- Emerging Sources Citation Index
- Scopus
- Academic Search Complete
- Inspec

# CONTENTS

Axion dark matter with not quite black hole domination .....	50
<b>Ufuk AYDEMİR</b>	
Weyl tensor decomposition to the formation of black hole .....	75
<b>Gauree SHANKER, Zakia Issa NDIDI</b>	
Comparative study of $\alpha$ - $\alpha$ interaction potentials constructed using various phenomenological models .....	102
<b>Ayushi AWASTHI, O. S. K. S. SASTRI</b>	
Mechanical calculations on atomically thin membranes .....	115
<b>Burak ASLAN</b>	