

Prof. Abdurrahman Savaş Arapoğlu

Personal Information

Office Phone: [+90 212 285 7220](tel:+902122857220)

Fax Phone: [+90 212 285 3209](tel:+902122853209)

Email: arapoglu@itu.edu.tr

Web: <https://avesis.itu.edu.tr/arapoglu>

International Researcher IDs

ORCID: 0000-0003-3516-9597

Publons / Web Of Science ResearcherID: ABD-6054-2020

ScopusID: 56629641600

Yoksis Researcher ID: 118950

Education Information

Doctorate, Bogazici University, Institute Of Science, Fizik (Dr), Turkey 1998 - 2005

Postgraduate, Bogazici University, Institute Of Science, Fizik (Yl) (Tezli), Turkey 1997 - 1998

Undergraduate, Bogazici University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1993 - 1997

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 2022 - Continues

Associate Professor, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 2011 - Continues

Assistant Professor, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 2008 - 2011

Research Assistant, Bogazici University, Faculty Of Arts And Sciences, Department Of Physics, 1997 - 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Scalar and vector perturbations in a universe with nonlinear perfect fluid**
Canay E., Brilenkov R., Eingorn M., Arapoğlu A. S., Zhuk A.
EUROPEAN PHYSICAL JOURNAL C, vol.81, no.3, 2021 (SCI-Expanded)
- II. **Formalizing slow-roll inflation in scalar-tensor theories of gravitation**
Akin K., Arapoğlu A. S., Yükselci A. E.
PHYSICS OF THE DARK UNIVERSE, vol.30, 2020 (SCI-Expanded)
- III. **A neutron star with a strange quark star-like mass-radius relation**
Arapoğlu A. S., Yükselci A. E.
PHYSICS OF THE DARK UNIVERSE, vol.28, 2020 (SCI-Expanded)
- IV. **Dynamical system analysis of quintessence models with exponential potential - Revisited**
Arapoğlu A. S., Yükselci A. E.
MODERN PHYSICS LETTERS A, vol.34, no.9, 2019 (SCI-Expanded)

- V. **Neutron star structure in the presence of nonminimally coupled scalar fields**
Arapoglu A. S., Ekşi K. Y., Yükselci A. E.
PHYSICAL REVIEW D, vol.99, no.6, 2019 (SCI-Expanded)
- VI. **Dynamical system analysis of a five-dimensional cosmological model**
Arapoğlu A. S., Yalçınkaya E., Yükselci A. E.
ASTROPHYSICS AND SPACE SCIENCE, vol.363, no.10, 2018 (SCI-Expanded)
- VII. **Relativistic stars in Starobinsky gravity with the matched asymptotic expansions method**
ARAPOGLU S., Çıkıntıoğlu S., Ekşi K. Y.
PHYSICAL REVIEW D, vol.96, no.8, 2017 (SCI-Expanded)
- VIII. **Moment of inertia of neutron star crust in alternative and modified theories of gravity**
Staykov K. V., Eksi K. Y., YAZADJIEV S. S., TURKOGLU M. M., ARAPOGLU A. S.
PHYSICAL REVIEW D, vol.94, no.2, 2016 (SCI-Expanded)
- IX. **Constraints on perturbative f(R) gravity via neutron stars**
Arapoglu S., Deliduman C., Ekşi K. Y.
JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, no.7, 2011 (SCI-Expanded)
- X. **S duality in String Gas Cosmology**
Ata K., Arapoğlu A. S., KAYA A.
Phys.Lett. B, vol.0, 2007 (SSCI)
- XI. **A noncritical Ramond Neveu Schwarz string with one end fixed**
SAÇLIOĞLU C. K., Arapoğlu A. S.
Int.J.Mod.Phys. A, vol.0, 2006 (SSCI)
- XII. **D brane gases and stabilization of extra dimensions in dilaton gravity**
KAYA A., Arapoğlu A. S.
Phys.Lett. B, vol.0, 2004 (SSCI)
- XIII. **Multispin giants**
Ergin S., Arapoğlu A. S., KAYA A., DEĞER N. S., Per S.
Phys.Rev. D, vol.0, 2004 (SSCI)
- XIV. **A Note on supergravity solutions for partially localized intersecting branes**
Arapoğlu A. S., Deger N. S., KAYA A.
Phys. Lett.B, vol.0, 2004 (SSCI)

Supported Projects

Arapoğlu A. S., Ekşi K. Y., TUBITAK Project, Genel Görecelik ve Alternatif Gravitasyon Kuramlarının Astrofiziksel Sınanması, 2009 - 2012

Metrics

Publication: 17
Citation (WoS): 129
Citation (Scopus): 167
H-Index (WoS): 4
H-Index (Scopus): 4

Non Academic Experience

Bilgi Üniversitesi
Doğuş Üniversitesi

Kara Harp Okulu
Boğaziçi Üniversitesi