

Doç.Dr. Özgür Akarsu

Kişisel Bilgiler

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Eğitim Bilgileri

Post Doktora, Koç Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 2010 - 2015

Doktora, Ege Üniversitesi, Fen Fakültesi, Astronomi ve Uzay Bilimleri, Türkiye 2005 - 2010

Yüksek Lisans, Ege Üniversitesi, Fen Fakültesi, Astronomi ve Uzay Bilimleri, Türkiye 2003 - 2005

Lisans, Ege Üniversitesi, Fen Fakültesi, Astronomi ve Uzay Bilimleri, Türkiye 1998 - 2003

Araştırma Alanları

Fizik, Astronomi ve Astrofizik

Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat, Fizik Mühendisliği, 2015 - Devam Ediyor

Araştırmacı, The Abdus Salam International Centre for Theoretical Physics, High Energy, Cosmology and Astroparticle Physics, 2019 - 2019

Araştırmacı, The Abdus Salam International Centre for Theoretical Physics, High Energy, Cosmology and Astroparticle Physics, 2016 - 2016

Araştırmacı, Koç Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2010 - 2015

Araştırmacı, The Abdus Salam International Centre for Theoretical Physics, High Energy, Cosmology and Astroparticle Physics, 2014 - 2014

Araştırmacı, The Abdus Salam International Centre for Theoretical Physics, High Energy, Cosmology and Astroparticle Physics, 2012 - 2012

Araştırmacı, University of Cambridge, Centre For Mathematical Sciences, Department Of Applied Mathematics And Theoretical Physics, 2008 - 2009

Verdiği Dersler

Kozmoloji II, Doktora, 2018 - 2019, 2020 - 2021, 2021 - 2022

Kozmoloji I, Doktora, 2018 - 2019, 2020 - 2021, 2021 - 2022

Yönetilen Tezler

Akarsu Ö., Rastall's theory of gravity extension of the standard Lambda-CDM model, Yüksek Lisans, B.ÖZTÜRK(Öğrenci), 2021

Turgut O. T. , Akarsu Ö., Some new cosmological applications of the energy-momentum squared gravity, Doktora, N.MERVE(Öğrenci), 2021

- I. **Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies**
Abdalla E., Abellán G. F., Aboubrahim A., Agnello A., Akarsu Ö., Akrami Y., Alestas G., Aloni D., Amendola L., Anchordoqui L. A., et al.
JOURNAL OF HIGH ENERGY ASTROPHYSICS, cilt.34, ss.49-211, 2022 (SCI İndekslerine Giren Dergi)
- II. **Relaxing cosmological tensions with a sign switching cosmological constant**
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- III. **Snowmass2021-Letter of interest cosmology intertwined I: Perspectives for the next decade**
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- IV. **Snowmass2021-Letter of interest cosmology intertwined II: The hubble constant tension**
Di Valentino E., Anchordoqui L. A., Akarsu Ö., Ali-Haimoud Y., Amendola L., Arendse N., Asgari M., Ballardini M., Basilakos S., Battistelli E., et al.
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- V. **Cosmology intertwined III: $f\sigma_8$ and S-8**
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- VI. **Snowmass2021-Letter of interest cosmology intertwined IV: The age of the universe and its curvature**
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- VII. **Simple-graduated dark energy and spatial curvature**
Acquaviva G., Akarsu Ö., Katirci N., Vazquez J. A.
PHYSICAL REVIEW D, cilt.104, sa.2, 2021 (SCI İndekslerine Giren Dergi)
- VIII. **Screening anisotropy via energy-momentum squared gravity: Λ CDM model with hidden anisotropy**
Akarsu Ö., Barrow J. D., Uzun N. M.
PHYSICAL REVIEW D, cilt.102, sa.12, 2020 (SCI İndekslerine Giren Dergi)
- IX. **Rastall gravity extension of the standard Λ CDM model: theoretical features and observational constraints**
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- X. **Graduated dark energy: Observational hints of a spontaneous sign switch in the cosmological constant**
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- XI. **Weak field limit of higher dimensional massive Brans-Dicke gravity: Observational constraints**
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PHYSICAL REVIEW D, cilt.101, sa.2, 2020 (SCI İndekslerine Giren Dergi)
- XII. **Anisotropic massive Brans-Dicke gravity extension of the standard Λ CDM model**
Akarsu Ö., Katirci N., Özdemir N., Vazquez J. A.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI İndekslerine Giren Dergi)
- XIII. **Screening Λ in a new modified gravity model**
Akarsu Ö., Barrow J. D., Board C. V. R., Uzun N. M., Vazquez J. A.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.10, 2019 (SCI İndekslerine Giren Dergi)
- XIV. **Constraints on a Bianchi type I spacetime extension of the standard Λ CDM model**
Akarsu Ö., Kumar S., Sharma S., Tedesco L.
PHYSICAL REVIEW D, cilt.100, sa.2, 2019 (SCI İndekslerine Giren Dergi)

- XV. **Cosmological implications of scale-independent energy-momentum squared gravity: Pseudo nonminimal interactions in dark matter and relativistic relics**
Akarsu Ö., Katirci N., KUMAR S., NUNES R. C. , SAMI M.
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- XVI. **Scalar perturbations in cosmological f (R) models: the cosmic screening approach**
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- XVII. **Constraint on energy-momentum squared gravity from neutron stars and its cosmological implications**
Akarsu Ö., Barrow J. D. , Çıkıntoğlu S., Ekşi K. Y. , Katirci N.
PHYSICAL REVIEW D, cilt.97, sa.12, 2018 (SCI İndekslerine Giren Dergi)
- XVIII. **Black branes and black strings in the astrophysical and cosmological context**
Akarsu Ö., CHOPOVSKY A., Zhuk A.
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- XIX. **Brane world models with bulk perfect fluid and broken 4D Poincare invariance**
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- XX. **Cosmic acceleration in a dust only universe via energy-momentum powered gravity**
Akarsu Ö., Katirci N., KUMAR S.
PHYSICAL REVIEW D, cilt.97, sa.2, 2018 (SCI İndekslerine Giren Dergi)
- XXI. **Anisotropic inflation with a non-minimally coupled electromagnetic field to gravity**
Adak M., Akarsu Ö., Dereli T., Sert O.
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- XXII. **Inflation and Late Time Acceleration Designed by Stueckelberg Massive Photon**
Akarsu Ö., Arik M., Katirci N.
FOUNDATIONS OF PHYSICS, cilt.47, sa.6, ss.769-796, 2017 (SCI İndekslerine Giren Dergi)
- XXIII. **Broken scale invariance, alpha-attractors and vector impurity**
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- XXIV. **Accelerated expansion of the Universe in a higher dimensional modified gravity with Euler-Poincare terms**
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- XXV. **Are dark energy models with variable EoS parameter w compatible with the late inhomogeneous Universe?**
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- XXVI. **A divergence-free parametrization for dynamical dark energy**
Akarsu O., Dereli T., VAZQUEZ J. A.
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- XXVII. **General solution of a cosmological model induced from higher dimensions using a kinematical constraint**
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- XXVIII. **Accelerated expansion of the universe a la the Stueckelberg mechanism**
Akarsu O., Arik M., Katirci N., Kavuk M.
JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, sa.7, 2014 (SCI İndekslerine Giren Dergi)
- XXIX. **Probing kinematics and fate of the Universe with linearly time-varying deceleration parameter**
Akarsu O., Dereli T., KUMAR S., XU L.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.129, sa.2, 2014 (SCI İndekslerine Giren Dergi)
- XXX. **Accelerating anisotropic cosmologies in Brans-Dicke gravity coupled to a mass-varying vector field**

- Akarsu O., Dereli T., Oflaz N.
CLASSICAL AND QUANTUM GRAVITY, cilt.31, sa.4, 2014 (SCI İndekslerine Giren Dergi)
- XXXI. **Cosmology with hybrid expansion law: scalar field reconstruction of cosmic history and observational constraints**
Akarsu O., KUMAR S., MYRZAKULOV R., SAMI M., XU L.
JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, sa.1, 2014 (SCI İndekslerine Giren Dergi)
- XXXII. **A four-dimensional lambda CDM-type cosmological model induced from higher dimensions using a kinematical constraint**
Akarsu O., Dereli T.
GENERAL RELATIVITY AND GRAVITATION, cilt.45, sa.6, ss.1211-1226, 2013 (SCI İndekslerine Giren Dergi)
- XXXIII. **The dynamical evolution of 3-space in a higher dimensional steady state universe**
Akarsu O., Dereli T.
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- XXXIV. **Late time acceleration of the 3-space in a higher dimensional steady state universe in dilaton gravity**
Akarsu O., Dereli T.
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- XXXV. **A Comparison of the LVDP and Lambda CDM Cosmological Models**
Akarsu O., Dereli T.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, cilt.51, sa.10, ss.2995-3000, 2012 (SCI İndekslerine Giren Dergi)
- XXXVI. **Bianchi type-II models in the presence of perfect fluid and anisotropic dark energy**
KUMAR S., Akarsu O.
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- XXXVII. **Cosmological Models with Linearly Varying Deceleration Parameter**
Akarsu O., Dereli T.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, cilt.51, sa.2, ss.612-621, 2012 (SCI İndekslerine Giren Dergi)
- XXXVIII. **Some Anisotropic Universes in the Presence of Imperfect Fluid Coupling with Spatial Curvature**
Akarsu O., Kilinc C. B.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, cilt.50, sa.6, ss.1962-1977, 2011 (SCI İndekslerine Giren Dergi)
- XXXIX. **de Sitter expansion with anisotropic fluid in Bianchi type-I space-time**
Akarsu O., Kilinc C. B.
ASTROPHYSICS AND SPACE SCIENCE, cilt.326, sa.2, ss.315-322, 2010 (SCI İndekslerine Giren Dergi)
- XL. **Bianchi type III models with anisotropic dark energy**
Akarsu O., Kilinc C. B.
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- XLI. **LRS Bianchi type I models with anisotropic dark energy and constant deceleration parameter**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **ACDM cosmology with a quiescent anisotropy in a higher dimensional steady state universe**
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Atıflar

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Ödüller

Akarsu Ö., Üstün Başarılı Genç Bilim İnsanı (GEBİP) Ödülü, Türkiye Bilimler Akademisi (Tüba), Aralık 2018

Akarsu Ö., Bilim Akademisi Genç Bilim İnsanları (BAGEP) Ödülü, Bilim Akademisi, Nisan 2016