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Eğitim Bilgileri

Doktora, University of Minnesota-Twin Cities, Amerika Birleşik Devletleri 1994 - 1999

Lisans, Orta Doğu Teknik Üniversitesi, Türkiye 1991 - 1994

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Nonperturbative aspects of quantum field theory, University Of Minnesota-Twin Cities, 1999

Araştırma Alanları

Fizik, Temel Parçacıklar ve Alanlar , Genel alan ve parçacık teorisi, Temel Bilimler

Yönetilen Tezler

TEKİN B., Conserved charges in various theories of gravity, Doktora, H.ÖZŞAHİN(Öğrenci), 2022

TEKİN B., A new approach to conserved charges in asymptotically anti-de sitter spacetimes, Yüksek Lisans, A.ŞAHİN(Öğrenci), 2022

TEKİN B., SOUND VELOCITY IN DENSE MATTER SUCH AS NEUTRON STARS, Yüksek Lisans, L.OĞUROL(Öğrenci), 2022

TEKİN B., Some aspects of black hole physics: Spherical null and timelike orbits, and event horizon detection, Yüksek Lisans, A.TAVLAYAN(Öğrenci), 2021

TEKİN B., Gravity theories at large number of dimensions, Doktora, G.DENİZ(Öğrenci), 2021

TEKİN B., Problems of massive gravity, Yüksek Lisans, T.DENİZ(Öğrenci), 2021

TEKİN B., Exact solutions of infinite derivative gravity, Yüksek Lisans, S.EYLÜL(Öğrenci), 2021

TEKİN B., Einstein kütleçekim teorisinde kerr-schild metrikleri, Yüksek Lisans, U.Can(Öğrenci), 2020

- TEKİN B., Yerçekimsel dalgalar ve 2.5 pn yerçekimsel dalga hafızası, Yüksek Lisans, O.Uçanok(Öğrenci), 2020
- TEKİN B., Üç boyutta Bachian kütle çekimi, Doktora, M.Tek(Öğrenci), 2019
- TEKİN B., Minimal extension of einstein's gravity at the quartic order, Doktora, E.KENAR(Öğrenci), 2018
- TEKİN B., ADM formulation of generic massless Spin-2 gravity, Yüksek Lisans, M.DOĞRU(Öğrenci), 2018
- TEKİN B., Gravitational waves and gravitational memory, Yüksek Lisans, A.KORKMAZ(Öğrenci), 2018
- TEKİN B., Einstein kütleçekiminin dördüncü dereceden minimal genişletilmesi, Doktora, E.Kenar(Öğrenci), 2018
- TEKİN B., Linearization instability in gravity theories, Doktora, E.ALTAŞ(Öğrenci), 2018
- TEKİN B., Causality in curved space, Yüksek Lisans, B.ALJASEM(Öğrenci), 2018
- TEKİN B., Topologically massive gravity: Anyon scattering, Weyl-gauging and causality, Doktora, E.KILIÇARSLAN(Öğrenci), 2017
- TEKİN B., Basics of massive spin-2 theories, Yüksek Lisans, Ş.KÜREKÇİ(Öğrenci), 2015
- TEKİN B., The firewall paradox, Yüksek Lisans, F.SEMİH(Öğrenci), 2014
- TEKİN B., Weyl-invariant higher curvature gravity theories, Doktora, S.DENGİZ(Öğrenci), 2014
- TEKİN B., Gravitomagnetism in general relativity and massive gravity, Yüksek Lisans, G.DENİZ(Öğrenci), 2014
- TEKİN B., Ricci and Cotton flows in three dimensions, Yüksek Lisans, K.TAŞSETEN(Öğrenci), 2013
- TEKİN B., Born-infeld gravity theories in D-dimensions, Doktora, T.ÇAĞRI(Öğrenci), 2012
- TEKİN B., Conformal symmetry in field theory, Yüksek Lisans, U.HUYAL(Öğrenci), 2011
- TEKİN B., Massive higher derivative gravity theories, Doktora, İ.GÜLLÜ(Öğrenci), 2011
- TEKİN B., 3+1 orthogonal and conformal decomposition of the Einstein equation and the adm formalism for general relativity, Yüksek Lisans, S.DENGİZ(Öğrenci), 2011
- TEKİN B., Geometrical phases and magnetic monopoles, Yüksek Lisans, S.DEĞER(Öğrenci), 2011
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- TEKİN B., Dynamics of extended objects in general relativity, Yüksek Lisans, İ.BURAK(Öğrenci), 2009
- TEKİN B., Viable higher derivative theories, Yüksek Lisans, Ş.ÖZÖNDER(Öğrenci), 2007
- TEKİN B., Kaluza-Klein monopole, Yüksek Lisans, E.SAKARYA(Öğrenci), 2007
- TEKİN B., Conserved charges in asymptotically (anti)-de sitter spacetime, Yüksek Lisans, İ.GÜLLÜ(Öğrenci), 2005

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Instability of a Kerr-type naked singularity due to light and matter accretion and its shadow**
TAVLAYAN A., TEKİN B.
Classical and Quantum Gravity, cilt.41, sa.6, 2024 (SCI-Expanded)
- II. **Mass formulas for individual black holes in merging binaries**
Ozkarsligil Z. T., TEKİN B.
EUROPEAN JOURNAL OF PHYSICS, cilt.45, sa.2, 2024 (SCI-Expanded)
- III. **Nonstationary energy of perfect fluid sources in general relativity**
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Physical Review D, cilt.109, sa.4, 2024 (SCI-Expanded)
- IV. **Kerr-Vaidya type radiating black holes in semiclassical gravity with conformal anomaly**
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Physical Review D, cilt.109, sa.2, 2024 (SCI-Expanded)
- V. **Systematic construction of Kastor-Traschen currents and their extensions to generic powers of curvature**
Ozkarsligil Z. T., TEKİN B.
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- VI. **A new geometric flow on 3-manifolds: the K-flow**
Tasseten K., TEKİN B.
Journal of High Energy Physics, cilt.2023, sa.10, 2023 (SCI-Expanded)
- VII. **Perturbative Solution of the Einstein Constraints with Spin and Momentum Far Away From a Binary Source in the Bowen-York Formalism**

- Altas E., Ertugrul E., TEKİN B.
FORTSCHRITTE DER PHYSIK-PROGRESS OF PHYSICS, cilt.71, sa.8-9, 2023 (SCI-Expanded)
- VIII. **Partition function of a volume of space in a higher curvature theory**
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- IX. **Israel-Wilson-Perjes metrics in a theory with a dilaton field**
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Physical Review D, cilt.108, sa.2, 2023 (SCI-Expanded)
- X. **Hawking temperature as the total Gauss-Bonnet invariant of the region outside a black hole**
Altas E., Tekin B.
European Physical Journal C, cilt.83, sa.5, 2023 (SCI-Expanded)
- XI. **Light rings around five dimensional stationary black holes and naked singularities**
Tavlayan A., Tekin B.
PHYSICAL REVIEW D, cilt.107, sa.2, 2023 (SCI-Expanded)
- XII. **Gauge invariant derivation of zeroth and first laws of black hole thermodynamics**
Hajian K., Sheikh-Jabbari M., TEKİN B.
Physical Review D, cilt.106, sa.10, 2022 (SCI-Expanded)
- XIII. **Anomalous dispersion in gravity theories**
Altas E., Kilicarslan E., TEKİN B.
PHYSICAL REVIEW D, cilt.105, sa.6, 2022 (SCI-Expanded)
- XIV. **Radii of spherical timelike orbits around Kerr black holes**
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PHYSICAL REVIEW D, cilt.104, sa.12, 2021 (SCI-Expanded)
- XV. **Hyperbolic metamaterials and massive Klein-Gordon equation in (2+1)-dimensional de Sitter spacetime**
TEKİN B.
PHYSICAL REVIEW D, cilt.104, sa.9, 2021 (SCI-Expanded)
- XVI. **First law of black hole thermodynamics and Smarr formula with a cosmological constant**
Hajian K., ÖZSAHİN H., TEKİN B.
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- XVII. **Einstein-Yang-Mills theory: gauge invariant charges and linearization instability**
Altas E., Kilicarslan E., TEKİN B.
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- XVIII. **Approximate analytical description of apparent horizons for initial data with momentum and spin**
Altas E., TEKİN B.
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- XIX. **Bowen-York model solution redux**
Altas E., Tekin B.
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- XX. **The three PHYSICISTS**
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- XXI. **Exact formulas for spherical photon orbits around Kerr black holes**
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- XXII. **Comment on "Einstein-Gauss-Bonnet Gravity in Four-Dimensional Spacetime"**
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- XXIII. **Is there a novel Einstein-Gauss-Bonnet theory in four dimensions?**
Gürses M., Sisman T. C., Tekin B.
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- XXIV. **Superposition of FLRW universes**
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JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, cilt.2020, sa.6, 2020 (SCI-Expanded)
- XXV. **Event horizon detecting invariants**
Tavlayan A., Tekin B.
PHYSICAL REVIEW D, cilt.101, 2020 (SCI-Expanded)
- XXVI. **Nonstationary energy in general relativity**
Altas E., Tekin B.
PHYSICAL REVIEW D, cilt.101, 2020 (SCI-Expanded)
- XXVII. **Conserved charges in extended theories of gravity**
Adami H., Setare M. R., Sisman T. C., TEKİN B.
PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, cilt.834, ss.1-85, 2019 (SCI-Expanded)
- XXVIII. **Non-Einsteinian black holes in generic 3D gravity theories**
GÜRSES M., Sisman T. C., TEKİN B.
PHYSICAL REVIEW D, cilt.100, sa.6, 2019 (SCI-Expanded)
- XXIX. **Exotic massive gravity: Causality and a Birkhoff-like theorem**
KILIÇARSLAN E., TEKİN B.
PHYSICAL REVIEW D, cilt.100, sa.4, 2019 (SCI-Expanded)
- XXX. **Second order perturbation theory in general relativity: Taub charges as integral constraints**
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PHYSICAL REVIEW D, cilt.99, sa.10, 2019 (SCI-Expanded)
- XXXI. **Conserved charges in AdS: A new formula**
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- XXXII. **New approach to conserved charges of generic gravity in AdS spacetimes**
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- XXXIII. **Graviton mass and memory**
Kılıçarslan E., Tekin B.
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- XXXIV. **Classical double copy: Kerr-Schild-Kundt metrics from Yang-Mills theory**
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- XXXV. **Bachian gravity in three dimensions**
Alkac G., TEKİN B.
PHYSICAL REVIEW D, cilt.98, sa.10, 2018 (SCI-Expanded)
- XXXVI. **Holographic c-theorem and Born-Infeld gravity theories**
Alkac G., TEKİN B.
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- XXXVII. **Linearization instability of chiral gravity**
Altas E., TEKİN B.
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- XXXVIII. **Linearization instability for generic gravity in AdS spacetime**
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PHYSICAL REVIEW D, cilt.97, sa.2, 2018 (SCI-Expanded)
- XXXIX. **Entropy in Born-Infeld gravity**
Alici G. D., Kürekci Ş., Tekin B.
PHYSICAL REVIEW D, cilt.96, sa.12, 2017 (SCI-Expanded)
- XL. **Unitarity problems in 3D gravity theories**
Alkac G., Basanisi L., Kilicarslan E., TEKİN B.
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- XLI. **Causality in 3D massive gravity theories**
Edelstein J. D., Giribet G., Gomez C., Kilicarslan E., Leoni M., TEKİN B.
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- XLII. **Kerr-Schild-Kundt metrics are universal**
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- XLIII. **From smooth curves to universal metrics**
GÜRSES M., Sisman T. C., TEKİN B.
PHYSICAL REVIEW D, cilt.94, sa.4, 2016 (SCI-Expanded)
- XLIV. **Particle content of quadratic and f (R-mu nu sigma rho) theories in (A)dS**
Tekin B.
PHYSICAL REVIEW D, cilt.93, 2016 (SCI-Expanded)
- XLV. **Stern-Gerlach experiment with higher spins**
TEKİN B.
EUROPEAN JOURNAL OF PHYSICS, cilt.37, sa.3, 2016 (SCI-Expanded)
- XLVI. **Minimal extension of Einstein's theory: The quartic gravity**
KARASU A., Kenar E., TEKİN B.
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- XLVII. **Asymptotically flat black holes in 2+1 dimensions**
Alkac G., Kilicarslan E., TEKİN B.
PHYSICAL REVIEW D, cilt.93, sa.8, 2016 (SCI-Expanded)
- XLVIII. **Gravitomagnetism in massive gravity**
TAŞSETEN ATA K., TEKİN B.
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- XLIX. **Holographically viable extensions of topologically massive and minimal massive gravity?**
Altas E., TEKİN B.
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- L. **Born-Infeld gravity with a unique vacuum and a massless graviton**
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- LI. **Gravity waves in three dimensions**
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- LII. **Exact solutions and the consistency of 3D minimal massive gravity**
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- LIII. **Bulk and boundary unitary gravity in 3D: MMG(2)**
TEKİN B.
PHYSICAL REVIEW D, cilt.92, sa.2, 2015 (SCI-Expanded)
- LIV. **More on Cotton flow**
Kilicarslan E., Dengiz S., TEKİN B.
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- LV. **Born-Infeld gravity with a massless graviton in four dimensions**
Guellue I., Sisman T. C., TEKİN B.
PHYSICAL REVIEW D, cilt.91, sa.4, 2015 (SCI-Expanded)
- LVI. **AdS-plane wave and pp-wave solutions of generic gravity theories**
GÜRSES M., Sisman T. C., TEKİN B.
PHYSICAL REVIEW D, cilt.90, sa.12, 2014 (SCI-Expanded)
- LVII. **Minimal massive gravity: Conserved charges, excitations, and the chiral gravity limit**
Tekin B.
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- LVIII. **Scattering in topologically massive gravity, chiral gravity, and the corresponding anyon-anyon potential energy**
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- LIX. **Spin-spin interactions in massive gravity and higher derivative gravity theories**
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- LX. **Anti-de Sitter-Wave Solutions of Higher Derivative Theories**
GÜRSES M., Hervik S., Sisman T. C., TEKİN B.
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- LXI. **Energy and angular momentum in generic F (Riemann) theories**
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- LXII. **Weyl gauging of topologically massive gravity**
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- LXIII. **Spectra, vacua, and the unitarity of Lovelock gravity in D-dimensional AdS spacetimes**
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- LXIV. **Some exact solutions of all f(R-mu nu) theories in three dimensions**
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- LXV. **New exact solutions of quadratic curvature gravity**
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- LXVI. **Sonochemical approach for rapid growth of zinc oxide nanowalls**
Nayak A. P., Katzenmeyer A. M., Gosho Y., TEKİN B., Islam M. S.
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- LXVII. **Weyl-invariant higher curvature gravity theories in n dimensions**
Tanhayi M. R., Dengiz S., TEKİN B.
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- LXVIII. **Unitarity of Weyl-invariant new massive gravity and generation of graviton mass via symmetry breaking**
Tanhayi M. R., Dengiz S., TEKİN B.
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- LXIX. **All unitary cubic curvature gravities in D dimensions**
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- LXX. **Higgs mechanism for new massive gravity and Weyl-invariant extensions of higher-derivative theories**
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- LXXI. **Covariant symplectic structure and conserved charges of topologically massive gravity**
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- LXXII. **AdS waves as exact solutions to quadratic gravity**
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- LXXIII. **Critical points of D-dimensional extended gravities**
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- LXXIV. **All bulk and boundary unitary cubic curvature theories in three dimensions**
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- LXXV. **Unitarity analysis of general Born-Infeld gravity theories**
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- LXXVI. **Born-Infeld extension of new massive gravity**
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- LXXVII. **c-functions in the Born-Infeld extended new massive gravity**
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- LXXVIII. **Canonical structure of higher derivative gravity in 3D**
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- LXXIX. **Born-Infeld-Horava gravity**
 Gullu I., Sisman T. C., TEKİN B.
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- LXXX. **Green's matrix for a second-order self-adjoint matrix differential operator**
 Sisman T. C., TEKİN B.
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- LXXXI. **Massive higher derivative gravity in D-dimensional anti-de Sitter spacetimes**
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- LXXXII. **Self-dual solutions of Yang-Mills theory on Euclidean AdS space**
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- LXXXIII. **Note on cosmological Levi-Civita spacetimes in higher dimensions**
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- LXXXIV. **Comment on 'A second anti-de Sitter universe'**
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- LXXXV. **Finite mass gravitating Yang monopoles**
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- LXXXVI. **Cotton flow**
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- LXXXVII. **Spherically symmetric solutions of Einstein plus non-polynomial gravities**
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- LXXXVIII. **Chern-Simons modified general relativity: Conserved charges**
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- LXXXIX. **New energy definition for higher-curvature gravities**
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- XC. **Conformal properties of charges in scalar-tensor gravities**
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- XCI. **Topologically massive gravity as a Pais-Uhlenbeck oscillator**
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- XCIII. **Negative mass solitons in gravity**
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- XCIV. **Mass and angular momentum of asymptotically AdS or flat solutions in the topologically massive gravity**
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 Deser S., Franklin J., Tekin B.
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