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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, Nonpertubative 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.OĞUROĞLU(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., Gravitomagnetizm 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. **Membrane paradigm approach to the Johannsen-Psaltis black hole**
AĞCA Ç. U., TEKİN B.
Physical Review D, cilt.109, sa.10, 2024 (SCI-Expanded)
- II. **Coupling Constants as Conserved Charges in Black Hole Thermodynamics**
Hajian K., TEKİN B.
Physical Review Letters, cilt.132, sa.19, 2024 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **Nonstationary energy of perfect fluid sources in general relativity**
Altas E., TEKİN B.
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- VI. **Kerr-Vaidya type radiating black holes in semiclassical gravity with conformal anomaly**
Gürses M., TEKİN B.
Physical Review D, cilt.109, sa.2, 2024 (SCI-Expanded)
- VII. **Systematic construction of Kastor-Traschen currents and their extensions to generic powers of curvature**
Ozkarsligil Z. T., TEKİN B.

- Physical Review D, cilt.108, sa.8, 2023 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **Partition function of a volume of space in a higher curvature theory**
TAVLAYAN A., TEKİN B.
Physical Review D, cilt.108, sa.4, 2023 (SCI-Expanded)
- XI. **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)
- XII. **Hawking temperature as the total Gauss-Bonnet invariant of the region outside a black hole**
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European Physical Journal C, cilt.83, sa.5, 2023 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. **Anomalous dispersion in gravity theories**
Altas E., Kilicarslan E., TEKİN B.
PHYSICAL REVIEW D, cilt.105, sa.6, 2022 (SCI-Expanded)
- XVI. **Radii of spherical timelike orbits around Kerr black holes**
TAVLAYAN A., TEKİN B.
PHYSICAL REVIEW D, cilt.104, sa.12, 2021 (SCI-Expanded)
- XVII. **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)
- XVIII. **First law of black hole thermodynamics and Smarr formula with a cosmological constant**
Hajian K., ÖZŞAHİN H., TEKİN B.
PHYSICAL REVIEW D, cilt.104, sa.4, 2021 (SCI-Expanded)
- XIX. **Einstein-Yang-Mills theory: gauge invariant charges and linearization instability**
Altas E., Kilicarslan E., TEKİN B.
European Physical Journal C, cilt.81, sa.7, 2021 (SCI-Expanded)
- XX. **Approximate analytical description of apparent horizons for initial data with momentum and spin**
Altas E., TEKİN B.
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- XXI. **Bowen-York model solution redux**
Altas E., Tekin B.
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- XXII. **The three PHYSICISTS**
Dewitt C., Edelman J., Tekin B.
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- XXIII. **Exact formulas for spherical photon orbits around Kerr black holes**
Tavlayan A., Tekin B.
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- XXIV. **Comment on "Einstein-Gauss-Bonnet Gravity in Four-Dimensional Spacetime"**
Gürses M., Sisman T. C., Tekin B.
PHYSICAL REVIEW LETTERS, cilt.125, 2020 (SCI-Expanded)
- XXV. **Is there a novel Einstein-Gauss-Bonnet theory in four dimensions?**
Gürses M., Sisman T. C., Tekin B.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, 2020 (SCI-Expanded)
- XXVI. **Superposition of FLRW universes**
Gürses M., Heydarzade Y., Tekin B.
JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, cilt.2020, sa.6, 2020 (SCI-Expanded)
- XXVII. **Event horizon detecting invariants**
Tavlayan A., Tekin B.
PHYSICAL REVIEW D, cilt.101, 2020 (SCI-Expanded)
- XXVIII. **Nonstationary energy in general relativity**
Altas E., Tekin B.
PHYSICAL REVIEW D, cilt.101, 2020 (SCI-Expanded)
- XXIX. **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)
- XXX. **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)
- XXXI. **Exotic massive gravity: Causality and a Birkhoff-like theorem**
KILIÇARSLAN E., TEKİN B.
PHYSICAL REVIEW D, cilt.100, sa.4, 2019 (SCI-Expanded)
- XXXII. **Second order perturbation theory in general relativity: Taub charges as integral constraints**
Altas E., TEKİN B.
PHYSICAL REVIEW D, cilt.99, sa.10, 2019 (SCI-Expanded)
- XXXIII. **Conserved charges in AdS: A new formula**
Altas E., TEKİN B.
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- XXXIV. **New approach to conserved charges of generic gravity in AdS spacetimes**
Altas E., TEKİN B.
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- XXXV. **Graviton mass and memory**
Kılıçarslan E., Tekin B.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, 2019 (SCI-Expanded)
- XXXVI. **Classical double copy: Kerr-Schild-Kundt metrics from Yang-Mills theory**
Gürses M., Tekin B.
PHYSICAL REVIEW D, cilt.98, 2018 (SCI-Expanded)
- XXXVII. **Bachian gravity in three dimensions**
Alkac G., TEK M., TEKİN B.
PHYSICAL REVIEW D, cilt.98, sa.10, 2018 (SCI-Expanded)
- XXXVIII. **Holographic c-theorem and Born-Infeld gravity theories**
Alkac G., TEKİN B.
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- XXXIX. **Linearization instability of chiral gravity**
Altas E., TEKİN B.
PHYSICAL REVIEW D, cilt.97, sa.12, 2018 (SCI-Expanded)
- XL. **Linearization instability for generic gravity in AdS spacetime**
Altas E., TEKİN B.
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- XLI. Entropy in Born-Infeld gravity**
Alcı G. D., Kürekci Ş., Tekin B.
PHYSICAL REVIEW D, cilt.96, sa.12, 2017 (SCI-Expanded)
- XLII. Unitarity problems in 3D gravity theories**
Alkac G., Basanisi L., Kilicarslan E., TEKİN B.
PHYSICAL REVIEW D, cilt.96, sa.2, 2017 (SCI-Expanded)
- XLIII. Causality in 3D massive gravity theories**
Edelstein J. D., Giribet G., Gomez C., Kilicarslan E., Leoni M., TEKİN B.
PHYSICAL REVIEW D, cilt.95, sa.10, 2017 (SCI-Expanded)
- XLIV. Kerr-Schild-Kundt metrics are universal**
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- XLV. From smooth curves to universal metrics**
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PHYSICAL REVIEW D, cilt.94, sa.4, 2016 (SCI-Expanded)
- XLVI. Particle content of quadratic and $f(R-\mu \nu \sigma \rho)$ theories in (A)dS**
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PHYSICAL REVIEW D, cilt.93, 2016 (SCI-Expanded)
- XLVII. Stern-Gerlach experiment with higher spins**
TEKİN B.
EUROPEAN JOURNAL OF PHYSICS, cilt.37, sa.3, 2016 (SCI-Expanded)
- XLVIII. Minimal extension of Einstein's theory: The quartic gravity**
KARASU A., Kenar E., TEKİN B.
PHYSICAL REVIEW D, cilt.93, sa.8, 2016 (SCI-Expanded)
- XLIX. Asymptotically flat black holes in 2+1 dimensions**
Alkac G., Kilicarslan E., TEKİN B.
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- L. Gravitomagnetism in massive gravity**
TAŞSETEN ATA K., TEKİN B.
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- LI. Holographically viable extensions of topologically massive and minimal massive gravity?**
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PHYSICAL REVIEW D, cilt.93, sa.2, 2016 (SCI-Expanded)
- LII. Born-Infeld gravity with a unique vacuum and a massless graviton**
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PHYSICAL REVIEW D, cilt.92, sa.10, 2015 (SCI-Expanded)
- LIII. Gravity waves in three dimensions**
GÜRSES M., Sisman T. C., TEKİN B.
PHYSICAL REVIEW D, cilt.92, sa.8, 2015 (SCI-Expanded)
- LIV. Exact solutions and the consistency of 3D minimal massive gravity**
Altas E., TEKİN B.
PHYSICAL REVIEW D, cilt.92, sa.2, 2015 (SCI-Expanded)
- LV. Bulk and boundary unitary gravity in 3D: MMG(2)**
TEKİN B.
PHYSICAL REVIEW D, cilt.92, sa.2, 2015 (SCI-Expanded)
- LVI. More on Cotton flow**
Kilicarslan E., Dengiz S., TEKİN B.
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- LVII. Born-Infeld gravity with a massless graviton in four dimensions**
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- LVIII. **AdS-plane wave and pp-wave solutions of generic gravity theories**
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PHYSICAL REVIEW D, cilt.90, sa.12, 2014 (SCI-Expanded)
- LIX. **Minimal massive gravity: Conserved charges, excitations, and the chiral gravity limit**
Tekin B.
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- LX. **Scattering in topologically massive gravity, chiral gravity, and the corresponding anyon-anyon potential energy**
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- LXI. **Spin-spin interactions in massive gravity and higher derivative gravity theories**
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- LXII. **Anti-de Sitter-Wave Solutions of Higher Derivative Theories**
GÜRSES M., Hervik S., Sisman T. C., TEKİN B.
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- LXIII. **Energy and angular momentum in generic F (Riemann) theories**
Senturk C., Sisman T. C., Tekin B.
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- LXIV. **Weyl gauging of topologically massive gravity**
Dengiz S., Kilicarslan E., TEKİN B.
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- LXV. **Spectra, vacua, and the unitarity of Lovelock gravity in D-dimensional AdS spacetimes**
Sisman T. C., Gullu I., TEKİN B.
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- LXVI. **New exact solutions of quadratic curvature gravity**
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PHYSICAL REVIEW D, cilt.86, sa.2, 2012 (SCI-Expanded)
- LXVII. **Some exact solutions of all f(R-mu nu) theories in three dimensions**
GÜRSES M., Sisman T. C., TEKİN B.
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- LXVIII. **Sonochemical approach for rapid growth of zinc oxide nanowalls**
Nayak A. P., Katzenmeyer A. M., Goshu Y., TEKİN B., Islam M. S.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.107, sa.3, ss.661-667, 2012 (SCI-Expanded)
- LXIX. **Weyl-invariant higher curvature gravity theories in n dimensions**
Tanhayi M. R., Dengiz S., TEKİN B.
PHYSICAL REVIEW D, cilt.85, sa.6, 2012 (SCI-Expanded)
- LXX. **Unitarity of Weyl-invariant new massive gravity and generation of graviton mass via symmetry breaking**
Tanhayi M. R., Dengiz S., TEKİN B.
PHYSICAL REVIEW D, cilt.85, sa.6, 2012 (SCI-Expanded)
- LXXI. **All unitary cubic curvature gravities in D dimensions**
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- LXXII. **Higgs mechanism for new massive gravity and Weyl-invariant extensions of higher-derivative theories**
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PHYSICAL REVIEW D, cilt.84, sa.2, 2011 (SCI-Expanded)
- LXXIII. **Covariant symplectic structure and conserved charges of topologically massive gravity**
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PHYSICAL REVIEW D, cilt.83, sa.12, 2011 (SCI-Expanded)

- LXXIV. **AdS waves as exact solutions to quadratic gravity**
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PHYSICAL REVIEW D, cilt.83, sa.8, 2011 (SCI-Expanded)
- LXXV. **Critical points of D-dimensional extended gravities**
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- LXXVI. **All bulk and boundary unitary cubic curvature theories in three dimensions**
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- LXXVII. **Unitarity analysis of general Born-Infeld gravity theories**
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- LXXVIII. **Born-Infeld extension of new massive gravity**
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- LXXIX. **c-functions in the Born-Infeld extended new massive gravity**
Gullu I., Sisman T. C., TEKİN B.
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- LXXX. **Canonical structure of higher derivative gravity in 3D**
Gullu I., Sisman T. C., TEKİN B.
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- LXXXI. **Born-Infeld-Horava gravity**
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- LXXXII. **Green's matrix for a second-order self-adjoint matrix differential operator**
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- LXXXIII. **Massive higher derivative gravity in D-dimensional anti-de Sitter spacetimes**
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- LXXXIV. **Self-dual solutions of Yang-Mills theory on Euclidean AdS space**
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- LXXXV. **Note on cosmological Levi-Civita spacetimes in higher dimensions**
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- LXXXVI. **Comment on 'A second anti-de Sitter universe'**
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- LXXXVII. **Finite mass gravitating Yang monopoles**
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- LXXXVIII. **Cotton flow**
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- LXXXIX. **Chern-Simons modified general relativity: Conserved charges**
TEKİN B.
PHYSICAL REVIEW D, cilt.77, sa.2, 2008 (SCI-Expanded)
- XC. **Spherically symmetric solutions of Einstein plus non-polynomial gravities**
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- XCI. **New energy definition for higher-curvature gravities**
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- XCII. **Conformal properties of charges in scalar-tensor gravities**
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- XCIII. **Topologically massive gravity as a Pais-Uhlenbeck oscillator**
Sarioglu O., Tekin B.
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- XCIV. **Gravitational charges of transverse asymptotically AdS spacetimes**
Cebeci H., Sarioglu O., Tekin B.
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- XCV. **Negative mass solitons in gravity**
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- XCVI. **Mass and angular momentum of asymptotically AdS or flat solutions in the topologically massive gravity**
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- XCVIII. **Shortcuts to spherically symmetric solutions: a cautionary note**
Deser S., Franklin J., Tekin B.
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