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Personal Information

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Education Information

Doctorate, University Of Minnesota-Twin Cities, United States Of America 1994 - 1999

Under Graduate, Middle East Technical University, Turkey 1991 - 1994

Foreign Languages

English, C1 Advanced

Dissertations

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

Research Areas

Physics, Basic Particles and Areas, General Theory of Particles and Fields, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2011 - Continues

Advising Theses

TEKİN B., Minimal extension of einstein's gravity at the quartic order, Doctorate, E.KENAR(Student), 2018

TEKİN B., ADM formulation of generic massless Spin-2 gravity, Post Graduate, M.DOĞRU(Student), 2018

TEKİN B., Gravitational waves and gravitational memory, Post Graduate, A.KORKMAZ(Student), 2018

TEKİN B., Causality in curved space, Post Graduate, B.ALJASEM(Student), 2018

TEKİN B., Linearization instability in gravity theories, Doctorate, E.ALTAŞ(Student), 2018

TEKİN B., Topologically massive gravity: Anyon scattering, Weyl-gauging and causality, Doctorate, E.KILIÇARSLAN(Student), 2017

TEKİN B., Basics of massive spin-2 theories, Post Graduate, Ş.KÜREKÇİ(Student), 2015

TEKİN B., The firewall paradox, Post Graduate, F.SEMİH(Student), 2014

TEKİN B., Weyl-invariant higher curvature gravity theories, Doctorate, S.DENGİZ(Student), 2014

TEKİN B., Gravitomagnetism in general relativity and massive gravity, Post Graduate, G.DENİZ(Student), 2014

TEKİN B., Ricci and Cotton flows in three dimensions, Post Graduate, K.TAŞSETEN(Student), 2013

TEKİN B., Born-infeld gravity theories in D-dimensions, Doctorate, T.ÇAĞRI(Student), 2012

TEKİN B., Geometrical phases and magnetic monopoles, Post Graduate, S.DEĞER(Student), 2011
TEKİN B., Massive higher derivative gravity theories, Doctorate, İ.GÜLLÜ(Student), 2011
TEKİN B., 3+1 orthogonal and conformal decomposition of the Einstein equation and the adm formalism for general relativity, Post Graduate, S.DENGİZ(Student), 2011
TEKİN B., Conformal symmetry in field theory, Post Graduate, U.HUYAL(Student), 2011
TEKİN B., Quantum mechanics on curved hypersurfaces, Post Graduate, M.ALİ(Student), 2010
TEKİN B., Dynamics of extended objects in general relativity, Post Graduate, İ.BURAK(Student), 2009
TEKİN B., Viable higher derivative theories, Post Graduate, Ş.ÖZÖNDER(Student), 2007
TEKİN B., Kaluza-Klein monopole, Post Graduate, E.SAKARYA(Student), 2007
TEKİN B., Conserved charges in asymptotically (anti)-de sitter spacetime, Post Graduate, İ.GÜLLÜ(Student), 2005

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Comment on "Einstein-Gauss-Bonnet Gravity in Four-Dimensional Spacetime"**
GÜRSES M., Sisman T. C. , TEKİN B.
PHYSICAL REVIEW LETTERS, vol.125, 2020 (Journal Indexed in SCI)
- **Is there a novel Einstein-Gauss-Bonnet theory in four dimensions?**
GÜRSES M., Sisman T. C. , TEKİN B.
EUROPEAN PHYSICAL JOURNAL C, vol.80, 2020 (Journal Indexed in SCI)
- **Superposition of FLRW universes**
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JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, 2020 (Journal Indexed in SCI)
- **Event horizon detecting invariants**
TAVLAYAN A., TEKİN B.
PHYSICAL REVIEW D, vol.101, 2020 (Journal Indexed in SCI)
- **Nonstationary energy in general relativity**
Altas E., TEKİN B.
PHYSICAL REVIEW D, vol.101, 2020 (Journal Indexed in SCI)
- **Conserved charges in extended theories of gravity**
Adami H., Setare M. R. , Sisman T. C. , TEKİN B.
PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, vol.834, pp.1-85, 2019 (Journal Indexed in SCI)
- **Non-Einsteinian black holes in generic 3D gravity theories**
GÜRSES M., Sisman T. C. , TEKİN B.
PHYSICAL REVIEW D, vol.100, 2019 (Journal Indexed in SCI)
- **Exotic massive gravity: Causality and a Birkhoff-like theorem**
KILIÇARSLAN E., TEKİN B.
PHYSICAL REVIEW D, vol.100, 2019 (Journal Indexed in SCI)
- **Second order perturbation theory in general relativity: Taub charges as integral constraints**
Altas E., TEKİN B.
PHYSICAL REVIEW D, vol.99, 2019 (Journal Indexed in SCI)
- **Conserved charges in AdS: A new formula**
Altas E., TEKİN B.
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- **New approach to conserved charges of generic gravity in AdS spacetimes**
Altas E., TEKİN B.
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- **Graviton mass and memory**
KILIÇARSLAN E., TEKİN B.
EUROPEAN PHYSICAL JOURNAL C, vol.79, 2019 (Journal Indexed in SCI)
- **Classical double copy: Kerr-Schild-Kundt metrics from Yang-Mills theory**

GÜRSES M., TEKİN B.

PHYSICAL REVIEW D, vol.98, 2018 (Journal Indexed in SCI)

Bachian gravity in three dimensions

Alkac G., TEK M., TEKİN B.

PHYSICAL REVIEW D, vol.98, 2018 (Journal Indexed in SCI)

Holographic c-theorem and Born-Infeld gravity theories

Alkac G., TEKİN B.

PHYSICAL REVIEW D, vol.98, 2018 (Journal Indexed in SCI)

Linearization instability of chiral gravity

Altas E., TEKİN B.

PHYSICAL REVIEW D, vol.97, 2018 (Journal Indexed in SCI)

Linearization instability for generic gravity in AdS spacetime

Altas E., TEKİN B.

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Entropy in Born-Infeld gravity

ALICI G. D. , KÜREKÇİ Ş., TEKİN B.

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Unitarity problems in 3D gravity theories

Alkac G., Basanisi L., Kilicarslan E., TEKİN B.

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Causality in 3D massive gravity theories

Edelstein J. D. , Giribet G., Gomez C., Kilicarslan E., Leoni M., TEKİN B.

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Kerr-Schild-Kundt metrics are universal

GÜRSES M., Sisman T. C. , TEKİN B.

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From smooth curves to universal metrics

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Particle content of quadratic and $f(R-\mu\nu\sigma\rho)$ theories in (A)dS

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PHYSICAL REVIEW D, vol.93, 2016 (Journal Indexed in SCI)

Stern-Gerlach experiment with higher spins

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EUROPEAN JOURNAL OF PHYSICS, vol.37, 2016 (Journal Indexed in SCI)

Minimal extension of Einstein's theory: The quartic gravity

KARASU A., Kenar E., TEKİN B.

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Asymptotically flat black holes in 2+1 dimensions

Alkac G., Kilicarslan E., TEKİN B.

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Gravitomagnetism in massive gravity

TAŞSETEN ATA K., TEKİN B.

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Holographically viable extensions of topologically massive and minimal massive gravity?

Altas E., TEKİN B.

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Born-Infeld gravity with a unique vacuum and a massless graviton

Gullu I., Sisman T. C. , TEKİN B.

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Gravity waves in three dimensions

GÜRSES M., Sisman T. C. , TEKİN B.

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● **Exact solutions and the consistency of 3D minimal massive gravity**

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● PHYSICAL REVIEW D, vol.92, 2015 (Journal Indexed in SCI)

● **Bulk and boundary unitary gravity in 3D: MMG(2)**

TEKİN B.

● PHYSICAL REVIEW D, vol.92, 2015 (Journal Indexed in SCI)

● **More on Cotton flow**

Kilicarslan E., Dengiz S., TEKİN B.

● JOURNAL OF HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)

● **Born-Infeld gravity with a massless graviton in four dimensions**

Guellue I., Sisman T. C. , TEKİN B.

● PHYSICAL REVIEW D, vol.91, 2015 (Journal Indexed in SCI)

● **AdS-plane wave and pp-wave solutions of generic gravity theories**

GÜRSES M., Sisman T. C. , TEKİN B.

● PHYSICAL REVIEW D, vol.90, 2014 (Journal Indexed in SCI)

● **Minimal massive gravity: Conserved charges, excitations, and the chiral gravity limit**

Tekin B.

● PHYSICAL REVIEW D, vol.90, 2014 (Journal Indexed in SCI)

● **Scattering in topologically massive gravity, chiral gravity, and the corresponding anyon-anyon potential energy**

Dengiz S., Kilicarslan E., TEKİN B.

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● **Spin-spin interactions in massive gravity and higher derivative gravity theories**

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GÜRSES M., Hervik S., Sisman T. C. , TEKİN B.

● PHYSICAL REVIEW LETTERS, vol.111, 2013 (Journal Indexed in SCI)

● **Energy and angular momentum in generic F (Riemann) theories**

Senturk C., Sisman T. C. , TEKİN B.

● PHYSICAL REVIEW D, vol.86, 2012 (Journal Indexed in SCI)

● **Weyl gauging of topologically massive gravity**

Dengiz S., Kilicarslan E., TEKİN B.

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● **Spectra, vacua, and the unitarity of Lovelock gravity in D-dimensional AdS spacetimes**

Sisman T. C. , Gullu I., TEKİN B.

● PHYSICAL REVIEW D, vol.86, 2012 (Journal Indexed in SCI)

● **Some exact solutions of all f(R- μ ν) theories in three dimensions**

GÜRSES M., Sisman T. C. , TEKİN B.

● PHYSICAL REVIEW D, vol.86, 2012 (Journal Indexed in SCI)

● **New exact solutions of quadratic curvature gravity**

GÜRSES M., Sisman T. C. , TEKİN B.

● PHYSICAL REVIEW D, vol.86, 2012 (Journal Indexed in SCI)

● **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, vol.107, pp.661-667, 2012 (Journal Indexed in SCI)

● **Weyl-invariant higher curvature gravity theories in n dimensions**

Tanhayi M. R. , Dengiz S., TEKİN B.

● PHYSICAL REVIEW D, vol.85, 2012 (Journal Indexed in SCI)

- **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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- **All unitary cubic curvature gravities in D dimensions**
Sisman T. C. , Gullu I., TEKİN B.
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- **Higgs mechanism for new massive gravity and Weyl-invariant extensions of higher-derivative theories**
Dengiz S., TEKİN B.
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- **Covariant symplectic structure and conserved charges of topologically massive gravity**
Nazaroglu C., Nutku Y., TEKİN B.
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- **AdS waves as exact solutions to quadratic gravity**
Gullu I., GÜRSES M., Sisman T. C. , TEKİN B.
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- **All bulk and boundary unitary cubic curvature theories in three dimensions**
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- **Unitarity analysis of general Born-Infeld gravity theories**
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- **c-functions in the Born-Infeld extended new massive gravity**
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- **Canonical structure of higher derivative gravity in 3D**
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- **Born-Infeld-Horava gravity**
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Sisman T. C. , TEKİN B.
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- **Massive higher derivative gravity in D-dimensional anti-de Sitter spacetimes**
Guellue I., TEKİN B.
PHYSICAL REVIEW D, vol.80, 2009 (Journal Indexed in SCI)
- **Self-dual solutions of Yang-Mills theory on Euclidean AdS space**
SARIOĞLU B. Ö. , TEKİN B.
PHYSICAL REVIEW D, vol.79, 2009 (Journal Indexed in SCI)
- **Note on cosmological Levi-Civita spacetimes in higher dimensions**
SARIOĞLU B. Ö. , TEKİN B.
PHYSICAL REVIEW D, vol.79, 2009 (Journal Indexed in SCI)
- **Comment on 'A second anti-de Sitter universe'**

SARIOĞLU B. Ö., TEKİN B.

CLASSICAL AND QUANTUM GRAVITY, vol.26, 2009 (Journal Indexed in SCI)

● **Finite mass gravitating Yang monopoles**

CEBECİ H., SARIOĞLU O., TEKİN B.

● PHYSICAL REVIEW D, vol.78, 2008 (Journal Indexed in SCI)

● **Cotton flow**

KISSEL A. U. O., SARIOĞLU O., TEKİN B.

● CLASSICAL AND QUANTUM GRAVITY, vol.25, 2008 (Journal Indexed in SCI)

● **Spherically symmetric solutions of Einstein plus non-polynomial gravities**

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● GENERAL RELATIVITY AND GRAVITATION, vol.40, pp.1-7, 2008 (Journal Indexed in SCI)

● **Chern-Simons modified general relativity: Conserved charges**

TEKİN B.

● PHYSICAL REVIEW D, vol.77, 2008 (Journal Indexed in SCI)

● **New energy definition for higher-curvature gravities**

DESER S., TEKİN B.

● PHYSICAL REVIEW D, vol.75, 2007 (Journal Indexed in SCI)

● **Topologically massive gravity as a Pais-Uhlenbeck oscillator**

SARIOĞLU O., TEKİN B.

● CLASSICAL AND QUANTUM GRAVITY, vol.23, pp.7541-7549, 2006 (Journal Indexed in SCI)

● **Conformal properties of charges in scalar-tensor gravities**

DESER S., TEKİN B.

● CLASSICAL AND QUANTUM GRAVITY, vol.23, pp.7479-7482, 2006 (Journal Indexed in SCI)

● **Gravitational charges of transverse asymptotically AdS spacetimes**

CEBECİ H., SARIOĞLU O., TEKİN B.

● PHYSICAL REVIEW D, vol.74, 2006 (Journal Indexed in SCI)

● **Negative mass solitons in gravity**

CEBECİ H., SARIOĞLU O., TEKİN B.

● PHYSICAL REVIEW D, vol.73, 2006 (Journal Indexed in SCI)

● **Mass and angular momentum of asymptotically AdS or flat solutions in the topologically massive gravity**

OLMEZ S., SARIOĞLU O., TEKİN B.

● CLASSICAL AND QUANTUM GRAVITY, vol.22, pp.4355-4361, 2005 (Journal Indexed in SCI)

● **Conserved charges of higher D Kerr-AdS spacetimes**

DESER S., KANIK I., TEKİN B.

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● **Shortcuts to spherically symmetric solutions: a cautionary note**

DESER S., FRANKLIN J., TEKİN B.

● CLASSICAL AND QUANTUM GRAVITY, vol.21, pp.5295-5296, 2004 (Journal Indexed in SCI)

● **Shortcuts to high symmetry solutions in gravitational theories**

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● CLASSICAL AND QUANTUM GRAVITY, vol.20, pp.4877-4883, 2003 (Journal Indexed in SCI)

● **Energy in topologically massive gravity**

DESER S., TEKİN B.

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● **Kaluza-Klein monopole in AdS spacetime**

ONEMLI V., TEKİN B.

● PHYSICAL REVIEW D, vol.68, 2003 (Journal Indexed in SCI)

● **Energy in generic higher curvature gravity theories**

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● PHYSICAL REVIEW D, vol.67, 2003 (Journal Indexed in SCI)

- **Gravitational energy in quadratic-curvature gravities**
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- **Massive, topologically massive, models**
Deser S., Tekin B.
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- **Yang-Mills solutions on Euclidean Schwarzschild space**
Tekin B.
PHYSICAL REVIEW D, vol.65, 2002 (Journal Indexed in SCI)
- **Newtonian counterparts of spin 2 massless discontinuities**
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- **Phase transition in compact QED3 and the Josephson junction**
Onemli V., Tas M., Tekin B.
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- **Chicken or the egg; or who ordered the chiral phase transition?**
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- **Calorons in the Weyl gauge**
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- **Instanton molecules at high temperature - the Georgi-Glashow model and beyond**
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- **Deconfining phase transition in 2+1 D: the Georgi-Glashow model**
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- **Gravitating instantons in 3 dimensions**
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Books & Book Chapters

- **Metric Theories of Gravity Perturbations and Conservation Laws**
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- **Impact of Casimir Force in Molecular Electronic Switching Junctions**
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Supported Projects

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Citations

Total Citations (WOS):2040

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