

PHYSICAL REVIEW D

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 1550-7998)

PERIODICALS
Postmaster send address changes to:
PHYSICAL REVIEW D
APS Subscription Services
Suite 1N01
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 77, NUMBER 2

CONTENTS

D15 JANUARY 2008

Physical Review D Editorial Policies and Practices	iii
Physical Review D Information for Contributors	vii

RAPID COMMUNICATIONS

Time drift of cosmological redshifts and its variance (5 pages)	021301(R)
Jean-Philippe Uzan, Francis Bernardeau, and Yannick Mellier	
Brane-world inflation: Slow-roll corrections to the spectral index (5 pages)	021501(R)
Kazuya Koyama, Andrew Mennim, and David Wands	
Constraining neutron-star tidal Love numbers with gravitational-wave detectors (5 pages)	021502(R)
Éanna É. Flanagan and Tanja Hinderer	
Static potential in $\mathcal{N} = 4$ supersymmetric Yang-Mills theory at weak coupling (5 pages)	021701(R)
Antonio Pineda	

ARTICLES

All-sky search for periodic gravitational waves in LIGO S4 data (38 pages)	022001
B. Abbott <i>et al.</i> (LIGO Scientific Collaboration)	
Laser-interferometric detectors for gravitational wave backgrounds at 100 MHz: Detector design and sensitivity (9 pages)	022002
Atsushi Nishizawa, Seiji Kawamura, Tomotada Akutsu, Koji Arai, Kazuhiro Yamamoto, Daisuke Tatsumi, Erina Nishida, Masa-aki Sakagami, Takeshi Chiba, Ryuichi Takahashi, and Naoshi Sugiyama	
Determination of the upper and lower bound of the mass limit of degenerate fermionic dark matter objects (5 pages)	023001
Gábor Kúpi	
LISACode: A scientific simulator of LISA (11 pages)	023002
Antoine Petiteau, Gérard Auger, Hubert Halloin, Olivier Jeannin, Eric Plagnol, Sophie Pireaux, Tania Regimbau, and Jean-Yves Vinet	
Light-cone averages in a Swiss-cheese universe (13 pages)	023003
Valerio Marra, Edward W. Kolb, and Sabino Matarrese	
Equilibrium sequences of nonrotating and rapidly rotating crystalline color-superconducting hybrid stars (9 pages)	023004
Nicola D. Ippolito, Marco Ruggieri, Dirk H. Rischke, Armen Sedrakian, and Fridolin Weber	
Inhomogeneous extragalactic magnetic fields and the second knee in the cosmic ray spectrum (15 pages)	023005
Kumiko Kotera and Martin Lemoine	
WIMP annihilation and cooling of neutron stars (9 pages)	023006
Chris Kouvaris	
High energy neutrino yields from astrophysical sources. II. Magnetized sources (13 pages)	023007
M. Kachelrieß, S. Ostapchenko, and R. Tomàs	
Tkachenko modes as sources of quasiperiodic pulsar spin variations (6 pages)	023008
Jorge Noronha and Armen Sedrakian	



Copyright 2008 by The American Physical Society

(Continued)



1550-7998(20080115)77:2;1-0

CONTENTS - Continued

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 77, NUMBER 2

D15 JANUARY 2008

Hunting long-lived gluinos at the Pierre Auger Observatory (12 pages)	023009
Luis A. Anchordoqui, Antonio Delgado, Carlos A. García Canal, and Sergio J. Sciutto	
Role of charged gauge fields in generating magnetic seed fields in bubble collisions during the cosmological electroweak phase transition (13 pages)	023501
Trevor Stevens, Mikkel B. Johnson, Leonard S. Kisslinger, Ernest M. Henley, W.-Y. Pauchy Hwang, and Matthias Burkardt	
Thermodynamical properties of dark energy with the equation of state $\omega = \omega_0 + \omega_1 z$ (6 pages)	023502
Yongping Zhang, Zelong Yi, Tong-Jie Zhang, and Wenbiao Liu	
Pattern of growth in viable $f(R)$ cosmologies (15 pages)	023503
Levon Pogosian and Alessandra Silvestri	
Testing Λ CDM with the growth function $\delta(a)$: Current constraints (7 pages)	023504
S. Nesseris and L. Perivolaropoulos	
Non-Gaussianity in the modulated reheating scenario (8 pages)	023505
Teruaki Suyama and Masahide Yamaguchi	
Investigating electron interacting dark matter (9 pages)	023506
R. Bernabei, P. Belli, F. Montecchia, F. Nozzoli, F. Cappella, A. Incicchitti, D. Prosperi, R. Cerulli, C.J. Dai, H.L. He, H.H. Kuang, J.M. Ma, X.H. Ma, X.D. Sheng, Z.P. Ye, R.G. Wang, and Y.J. Zhang	
Observational signatures of $f(R)$ dark energy models that satisfy cosmological and local gravity constraints (13 pages)	023507
Shinji Tsujikawa	
Loop quantum gravity corrections to gravitational wave dispersion (14 pages)	023508
Martin Bojowald and Golam Mortuza Hossain	
Impact of going beyond the Maxwell distribution in direct dark matter detection rates (10 pages)	023509
J.D. Vergados, S.H. Hansen, and O. Host	
Superinflation in loop quantum cosmology (11 pages)	023510
E.J. Copeland, D.J. Mulryne, N.J. Nunes, and M. Shaeri	
Multifield Dirac-Born-Infeld inflation and non-Gaussianities (7 pages)	023511
Min-xin Huang, Gary Shiu, and Bret Underwood	
Lensing corrections to features in the angular two-point correlation function and power spectrum (9 pages)	023512
Marilena LoVerde, Lam Hui, and Enrique Gaztañaga	
Bubbling the false vacuum away (12 pages)	023513
M. Gleiser, B. Rogers, and J. Thorarinson	
New universal local feature in the inflationary perturbation spectrum (10 pages)	023514
Minu Joy, Varun Sahni, and Alexei A. Starobinsky	
Big bang nucleosynthesis constraints on the self-gravity of pressure (5 pages)	023515
Saul Rappaport, Josiah Schwab, Scott Burles, and Gary Steigman	
Bouncing negative-tension branes (9 pages)	023516
Jean-Luc Lehnars and Neil Turok	
Inflation in minimal left-right symmetric model with spontaneous D -parity breaking (5 pages)	023517
Jinn-Ouk Gong and Narendra Sahu	
Quantum dynamics of the Taub universe in a generalized uncertainty principle framework (8 pages)	023518
Marco Valerio Battisti and Giovanni Montani	
Constraining the dark energy and smoothness parameter with supernovae (6 pages)	023519
R.C. Santos, J.V. Cunha, and J.A. Lima	
Nonlinear preheating with scalar metric perturbations (14 pages)	023520
Mar Bastero-Gil, M. Tristram, J. Macias-Pérez, and D. Santos	
Thermodynamic interpretation of time for superstring rolling tachyons (5 pages)	023521
Jimmy A. Hutasoit and Niko Jokela	
Stability of multifield cosmological solutions (6 pages)	023522
Gianluca Calcagni and Andrew R. Liddle	
Timelike boundary sine-Gordon theory and two-component plasma (6 pages)	023523
Niko Jokela, Esko Keski-Vakkuri, and Jaydeep Majumder	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 77, NUMBER 2

D15 JANUARY 2008

Generalized Israel junction conditions for a fourth-order brane world (7 pages)	023524
Adam Balcerzak and Mariusz P. Dąbrowski	
Detectability of nontrivial topologies (10 pages)	023525
M. Kunz, N. Aghanim, A. Riazuelo, and O. Forni	
Circular polarization of primordial gravitational waves in string-inspired inflationary cosmology (9 pages)	023526
Masaki Satoh, Sugumi Kanno, and Jiro Soda	
Comparing infrared Dirac-Born-Infeld brane inflation to observations (28 pages)	023527
Rachel Bean, Xingang Chen, Hiranya Peiris, and Jiajun Xu	
Free streaming in mixed dark matter (15 pages)	023528
Daniel Boyanovsky	
Physical and geometrical interpretation of the $\epsilon \leq 0$ Szekeres models (21 pages)	023529
Charles Hellaby and Andrzej Krasiński	
Primordial magnetic fields and nonlinear electrodynamics (12 pages)	023530
Kerstin E. Kunze	
Interacting tachyon: Cosmological evolution for a tachyon and a scalar field (11 pages)	023531
A. de la Macorra and U. Filobello	
Energy radiation by cosmic superstrings in brane inflation (8 pages)	023532
Hassan Firouzjahi	
Nonlinear evolution of baryon acoustic oscillations (20 pages)	023533
Martín Crocce and Román Scoccimarro	
Anisotropic cosmological constant and the CMB quadrupole anomaly (7 pages)	023534
Davi C. Rodrigues	
Couplings and spectra in modular inflation (6 pages)	023535
Wan-Il Park and Ewan D. Stewart	
Massive gravity in Minkowski space via the gravitational Higgs mechanism (10 pages)	024001
Zurab Kakushadze	
Black holes, parallelizable horizons, and half-BPS states for the Einstein-Gauss-Bonnet theory in five dimensions (6 pages)	024002
Fabrizio Canfora, Alex Giacomini, and Ricardo Troncoso	
Gravitational dynamics in $s + 1 + 1$ dimensions II. Hamiltonian theory (13 pages)	024003
Zoltán Kovács and László Á. Gergely	
Nonperturbative instability of $\text{AdS}_5 \times \text{S}^5/\mathbb{Z}_k$ (9 pages)	024004
Gary T. Horowitz, Jacopo Orgera, and Joe Polchinski	
Chern-Simons modified general relativity: Conserved charges (5 pages)	024005
Bayram Tekin	
Simulating binary neutron stars: Dynamics and gravitational waves (14 pages)	024006
Matthew Anderson, Eric W. Hirschmann, Luis Lehner, Steven L. Liebling, Patrick M. Motl, David Neilsen, Carlos Palenzuela, and Joel E. Tohline	
Renormalized stress tensor in Kerr space-time: Numerical results for the Hartle-Hawking vacuum (10 pages)	024007
Gavin Duffy and Adrian C. Ottewill	
Vacuum polarization for lukewarm black holes (18 pages)	024008
Elizabeth Winstanley and Phil M. Young	
Spin foam model from canonical quantization (15 pages)	024009
Sergei Alexandrov	
Black holes in the tensor-vector-scalar theory of gravity and their thermodynamics (12 pages)	024010
Eva Sagi and Jacob D. Bekenstein	
Physical process first law for bifurcate Killing horizons (9 pages)	024011
Aaron J. Amsel, Donald Marolf, and Amitabh Virmani	
Extraordinary vacuum black string solutions (12 pages)	024012
Hyeong-Chan Kim and Jungjai Lee	
Cosmological density fluctuations in stochastic gravity: Formalism and linear analysis (14 pages)	024013
Yuko Urakawa and Kei-ichi Maeda	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 77, NUMBER 2

D15 JANUARY 2008

Data-analysis driven comparison of analytic and numerical coalescing binary waveforms: Nonspinning case (19 pages)	024014
Yi Pan, Alessandra Buonanno, John G. Baker, Joan Centrella, Bernard J. Kelly, Sean T. McWilliams, Frans Pretorius, and James R. van Meter	
Effects of Chern-Simons gravity on bodies orbiting the Earth (9 pages)	024015
Tristan L. Smith, Adrienne L. Erickcek, Robert R. Caldwell, and Marc Kamionkowski	
Bound on viscosity and the generalized second law of thermodynamics (11 pages)	024016
Itzhak Fouxon, Gerold Betschart, and Jacob D. Bekenstein	
Observational bounds on modified gravity models (11 pages)	024017
Antonio De Felice, Pia Mukherjee, and Yun Wang	
Hawking radiation and covariant anomalies (5 pages)	024018
Rabin Banerjee and Shailesh Kulkarni	
Post-Newtonian diagnosis of quasiequilibrium configurations of neutron star–neutron star and neutron star–black hole binaries (15 pages)	024019
Emanuele Berti, Sai Iyer, and Clifford M. Will	
Hawking radiation from black rings (7 pages)	024020
Umpei Miyamoto and Keiju Murata	
Can infrared gravitons screen Λ ? (9 pages)	024021
Jaume Garriga and Takahiro Tanaka	
Self-similar cosmological solutions with dark energy. I. Formulation and asymptotic analysis (13 pages)	024022
Tomohiro Harada, Hideki Maeda, and B.J. Carr	
Self-similar cosmological solutions with dark energy. II. Black holes, naked singularities, and wormholes (12 pages)	024023
Hideki Maeda, Tomohiro Harada, and B.J. Carr	
Evolution of density perturbations in $f(R)$ gravity (17 pages)	024024
S. Carloni, P.K. Dunsby, and A. Troisi	
Static axisymmetric equilibria in general relativistic magnetohydrodynamics (6 pages)	024025
Manuel Núñez	
Generic features of Einstein-Aether black holes (10 pages)	024026
Takashi Tamaki and Umpei Miyamoto	
Calibration of moving puncture simulations (25 pages)	024027
Bernd Brügmann, José A. González, Mark Hannam, Sascha Husa, Ulrich Sperhake, and Wolfgang Tichy	
Numerical simulations of oscillating soliton stars: Excited states in spherical symmetry and ground state evolutions in 3D (12 pages)	024028
Jayashree Balakrishna, Ruxandra Bondarescu, Gregory Daues, and Mihai Bondarescu	
Nonaxisymmetric oscillations of differentially rotating relativistic stars (14 pages)	024029
Andrea Passamonti, Adamantios Stavridis, and Kostas D. Kokkotas	
LISA observations of supermassive black holes: Parameter estimation using full post-Newtonian inspiral waveforms (19 pages)	024030
Miquel Trias and Alicia M. Sintes	
Understanding Hawking radiation in the framework of open quantum systems (7 pages)	024031
Hongwei Yu and Jialin Zhang	
Detecting a Lorentz-violating field in cosmology (13 pages)	024032
Baojiu Li, David F. Mota, and John D. Barrow	
Evolution of cosmological gravitational waves in $f(R)$ gravity (14 pages)	024033
K.N. Ananda, S. Carloni, and P.K. Dunsby	
Foundations of multiple-black-hole evolutions (13 pages)	024034
Carlos O. Lousto and Yosef Zlochower	
Observable properties of orbits in exact bumpy spacetimes (23 pages)	024035
Jonathan R. Gair, Chao Li, and Ilya Mandel	
From the Einstein-Cartan to the Ashtekar-Barbero canonical constraints, passing through the Nieh-Yan functional (5 pages)	024036
Simone Mercuri	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 77, NUMBER 2

D15 JANUARY 2008

Generalized Einstein-Aether theories and the Solar System (<i>16 pages</i>)	024037
Camille Bonvin, Ruth Durrer, Pedro G. Ferreira, Glenn Starkman, and Tom G. Zlosnik	
Hawking radiation from Garfinkle-Horowitz-Strominger and nonextremal D1-D5 black holes via covariant anomalies (<i>5 pages</i>)	024038
Sunandan Gangopadhyay and Shailesh Kulkarni	
Hawking radiation in a rotating Kaluza-Klein black hole with squashed horizons (<i>10 pages</i>)	024039
Songbai Chen, Bin Wang, and Rukeng Su	
Stellar configurations in $f(R)$ theories of gravity (<i>8 pages</i>)	024040
K. Henttunen, T. Multamäki, and I. Vilja	
Parametrized post-Newtonian limit of fourth-order theories of gravity (<i>11 pages</i>)	024041
Timothy Clifton	
Scalar wormholes in a cosmological setting and their instability (<i>8 pages</i>)	024042
Sergey V. Sushkov and Yuan-Zhong Zhang	
Comparing effective-one-body gravitational waveforms to accurate numerical data (<i>15 pages</i>)	024043
Thibault Damour and Alessandro Nagar	
Vacuum polarization of massive spinor fields in static black-string backgrounds (<i>8 pages</i>)	024044
Owen Pavel Piedra and Alejandro Cabo de Oca	
Slowly rotating charged Gauss-Bonnet black holes in AdS spaces (<i>6 pages</i>)	024045
Hyeong-Chan Kim and Rong-Gen Cai	
Robustness of key features of loop quantum cosmology (<i>17 pages</i>)	024046
Abhay Ashtekar, Alejandro Corichi, and Parampreet Singh	
Thermodynamical properties of hairy black holes in n spacetime dimensions (<i>13 pages</i>)	024047
Mario Nadalini, Luciano Vanzo, and Sergio Zerbini	
Nonlinear growth in modified gravity theories of dark energy (<i>14 pages</i>)	024048
Istvan Laszlo and Rachel Bean	
Shells around black holes: The effect of freely specifiable quantities in Einstein's constraint equations (<i>9 pages</i>)	024049
Keith Matera, Thomas W. Baumgarte, and Ericourgoulhon	
Harmonic generation of gravitational wave induced Alfvén waves (<i>6 pages</i>)	024050
Mats Forsberg and Gert Brodin	
Electric field of a pointlike charge in a strong magnetic field and ground state of a hydrogenlike atom (<i>20 pages</i>)	025001
A.E. Shabad and V.V. Usov	
Finiteness of the noncommutative supersymmetric Maxwell-Chern-Simons theory (<i>6 pages</i>)	025002
A.F. Ferrari, M. Gomes, J.R. Nascimento, A.Yu. Petrov, A.J. da Silva, and E.O. Silva	
CPT and lepton number violation in the neutrino sector: Modified mass matrix and oscillation due to gravity (<i>12 pages</i>)	025003
Monika Sinha and Banibrata Mukhopadhyay	
Hydrodynamic fluctuations in relativistic superfluids (<i>7 pages</i>)	025004
Manuel A. Valle	
Casimir forces between compact objects: The scalar case (<i>23 pages</i>)	025005
T. Emig, N. Graham, R.L. Jaffe, and M. Kardar	
Fermions on one or fewer kinks (<i>7 pages</i>)	025006
Yi-Zen Chu and Tanmay Vachaspati	
Signatures of the transition from galactic to extragalactic cosmic rays (<i>14 pages</i>)	025007
Roberto Aloisio, Veniamin Berezhinsky, Pasquale Blasi, and Sergey Ostapchenko	
Integrating out the Dirac sea: Effective field theory approach to exactly solvable four-fermion models (<i>13 pages</i>)	025008
Felix Karbstein and Michael Thies	
Geometric phase in supersymmetric quantum mechanics (<i>13 pages</i>)	025009
Chris Pedder, Julian Sonner, and David Tong	
Unexpected cancellations in gravity theories (<i>18 pages</i>)	025010
Z. Bern, J.J. Carrasco, D. Forde, H. Ita, and H. Johansson	
Massive quark-gluon scattering amplitudes at tree level (<i>12 pages</i>)	025011
Anthony Hall	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 77, NUMBER 2

D15 JANUARY 2008

The Lee-Wick standard model (9 pages)	025012
Benjamín Grinstein, Donal O'Connell, and Mark B. Wise	
Quantum fields, nonlocality and quantum group symmetries (5 pages)	025013
Michele Arzano	
Robustness of the vacuum wave function and other matters for Yang-Mills theory (9 pages)	025014
Dimitra Karabali and V.P. Nair	
Leading order QED electrical conductivity from the three-particle irreducible effective action (7 pages)	025015
M.E. Carrington and E. Kovalchuk	
Hidden in the light: Magnetically induced afterglow from trapped chameleon fields (15 pages)	025016
Holger Gies, David F. Mota, and Douglas J. Shaw	
Bosonized supersymmetry from the Majorana-Dirac-Staunton theory and massive higher-spin fields (12 pages)	025017
Peter A. Horváthy, Mikhail S. Plyushchay, and Mauricio Valenzuela	
New dual conformally invariant off-shell integrals (10 pages)	025018
Dung Nguyen, Marcus Spradlin, and Anastasia Volovich	
Numerical investigation of highly excited magnetic monopoles in $SU(2)$ Yang-Mills-Higgs theory (31 pages)	025019
Gyula Fodor and István Rácz	
S matrix on the Moyal plane: Locality versus Lorentz invariance (8 pages)	025020
A.P. Balachandran, A. Pinzul, B.A. Qureshi, and S. Vaidya	
Twisted Poincaré invariant quantum field theories (9 pages)	025021
A.P. Balachandran, A. Pinzul, and B.A. Qureshi	
Classification of dimension-5 Lorentz-violating interactions in the standard model (12 pages)	025022
Pavel A. Bolokhov and Maxim Pospelov	
Radion stabilization from the vacuum on flat extra dimensions (12 pages)	025023
Elí Santos, A. Pérez-Lorenzana, and Luis O. Pimentel	
Two-particle Green's functions in the diffusive approximation (9 pages)	025024
A.V. Koshelkin	
Testing MeV dark matter with neutrino detectors (9 pages)	025025
Sergio Palomares-Ruiz and Silvia Pascoli	
Generalized universality in the massive sine-Gordon model (10 pages)	025026
S. Nagy, I. Nándori, J. Polonyi, and K. Sailer	
Comparison of Boltzmann kinetics with quantum dynamics for a chiral Yukawa model far from equilibrium (15 pages)	025027
Manfred Lindner and Markus Michael Müller	
Bootstrap and the physical values of πN resonance parameters (20 pages)	025028
K. Semenov-Tian-Shansky, Alexander V. Vereshagin, and Vladimir V. Vereshagin	
Existence and stability of nontrivial scalar field configurations in orbifolded extra dimensions (10 pages)	025029
Manuel Toharia and Mark Trodden	
Two-point functions of Coulomb gauge Yang-Mills theory (11 pages)	025030
P. Watson and H. Reinhardt	
Dynamical electron mass in a strong magnetic field (5 pages)	025031
Shang-Yung Wang	
Gravitational and higher-derivative interactions of a massive spin 5/2 field in (A)dS space (30 pages)	025032
R.R. Metsaev	
Violation of the Appelquist-Carazzone decoupling in a nonsupersymmetric grand unified theory (10 pages)	025033
Piotr H. Chankowski and Jakub Wagner	
Gravitational corrections to standard model vacuum decay (6 pages)	025034
Gino Isidori, Vyacheslav S. Rychkov, Alessandro Strumia, and Nikolaos Tetradis	
Composite strings in $(2+1)$ -dimensional anisotropic weakly coupled Yang-Mills theory (7 pages)	025035
Peter Orland	
Metastable supersymmetry breaking and supergravity at finite temperature (19 pages)	025036
Lilia Anguelova, Steven Thomas, and Riccardo Ricci	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 77, NUMBER 2

D15 JANUARY 2008

Twisting all the way: From classical mechanics to quantum fields (16 pages)	025037
Paolo Aschieri, Fedele Lizzi, and Patrizia Vitale	
Dynamical supersymmetry breaking from simple quivers (4 pages)	026001
Yaron E. Antebi and Tomer Volansky	
Toric resolutions of heterotic orbifolds (19 pages)	026002
Stefan Groot Nibbelink, Tae-Won Ha, and Michele Trapletti	
New boundary conditions for the $c = -2$ ghost system (4 pages)	026003
Thomas Creutzig, Thomas Quella, and Volker Schomerus	
Estimating the final spin of a binary black hole coalescence (9 pages)	026004
Alessandra Buonanno, Lawrence E. Kidder, and Luis Lehner	
Giant magnon bound states from strongly coupled $\mathcal{N} = 4$ super Yang-Mills theory (9 pages)	026005
David Berenstein and Samuel E. Vazquez	
Resolved conifolds in supergravity solutions (6 pages)	026006
A.M. Ghezelbash	
Modified $f(R)$ gravity unifying R^m inflation with the Λ CDM epoch (7 pages)	026007
Shin'ichi Nojiri and Sergei D. Odintsov	
New mechanism for nonlocality from string theory: UV-IR quantum entanglement and its imprints on the CMB (17 pages)	026008
Gregory Minton and Vatche Sahakian	
Green-Schwarz superstring from type IIB matrix model (4 pages)	026009
Yoshihisa Kitazawa and Satoshi Nagaoka	
Winding tachyons on a Banados-Teitelboim-Zanelli spacetime (19 pages)	026010
Mukund Rangamani and Simon F. Ross	
Banados-Teitelboim-Zanelli black hole with gravitational Chern-Simons term: Thermodynamics and statistical entropy (20 pages)	026011
Mu-In Park	
Conformal blocks related to the R-R states in the $\hat{c} = 1$ superconformal field theories (8 pages)	026012
Leszek Hadasz, Zbigniew Jaskólski, and Paulina Suchanek	

BRIEF REPORTS

Statefinder diagnostic for cosmology with the abnormally weighting energy hypothesis (4 pages)	027301
Dao-jun Liu and Wei-zhong Liu	
Coupling constant constraints in a nonminimally coupled phantom cosmology (4 pages)	027302
Marek Szydlowski, Orest Hrycyna, and Aleksandra Kurek	
Consequences of statistical sense determination for WIMP directional detection (4 pages)	027303
Anne M. Green and Ben Morgan	
Is the accelerated expansion evidence of a forthcoming change of signature on the brane? (4 pages)	027501
Marc Mars, José M. Senovilla, and Raül Vera	
All static spherically symmetric anisotropic solutions of Einstein's equations (3 pages)	027502
L. Herrera, J. Ospino, and A. Di Prisco	
Low shear viscosity due to Anderson localization (4 pages)	027701
Ioannis Giannakis, Defu Hou, Jia-rong Li, and Hai-cang Ren	
Confinement from gluodynamics in curved space-time (4 pages)	027702
Patricio Gaete and Euro Spallucci	
Spontaneous breaking of translational invariance in noncommutative $\lambda\phi^4$ theory in two dimensions (4 pages)	027703
P. Castorina and D. Zappalà	
Born series and unitarity in noncommutative quantum mechanics (4 pages)	027704
F.S. Bemfica and H.O. Girotti	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 77, NUMBER 2

D15 JANUARY 2008

ERRATA

Retraction: Domain wall solutions in the nonstatic and stationary Gödel universes with a cosmological constant [Phys. Rev. D 71 , 103503 (2005)] (<i>1 page</i>)	029901(E)
Ihsan Yilmaz	
Publisher's Note: Temperature and polarization CMB maps from primordial non-Gaussianities of the local type [Phys. Rev. D 76 , 105016 (2007)] (<i>1 page</i>)	029902(E)
Michele Liguori, Amit Yadav, Frode K. Hansen, Eiichiro Komatsu, Sabino Matarrese, and Benjamin Wandelt	
Erratum: Self-induced spectral splits in supernova neutrino fluxes [Phys. Rev. D 76 , 081301 (2007)] (<i>1 page</i>)	029903(E)
Georg G. Raffelt and Alexei Yu. Smirnov	
Publisher's Note: Understanding Hawking radiation in the framework of open quantum systems [Phys. Rev. D 77 , 024031 (2008)] (<i>1 page</i>)	029904(E)
Hongwei Yu and Jialin Zhang	