

ПИ
P59/рол

PHYSICAL REVIEW **D**TM

PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY

Articles Published in FEBRUARY 2013

PART A

D15

Published by
AMERICAN PHYSICAL SOCIETYTM

Volume 87

Third Series

Number 4

The Table of Contents is a total listing of Parts A and B.

Part A consists of articles 041301–044029, and Part B articles 044030–049902(E)

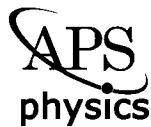
PART A

RAPID COMMUNICATIONS

Observing the multiverse with cosmic wakes (<i>6 pages</i>)	041301(R)
Matthew Kleban, Thomas S. Levi, and Kris Sigurdson	
Self-force as a cosmic censor (<i>6 pages</i>)	041501(R)
Peter Zimmerman, Ian Vega, Eric Poisson, and Roland Haas	
Branching of quasinormal modes for nearly extremal Kerr black holes (<i>6 pages</i>)	041502(R)
Huan Yang, Fan Zhang, Aaron Zimmerman, David A. Nichols, Emanuele Berti, and Yanbei Chen	
Ultraviolet complete model of large N thermal QCD (<i>5 pages</i>)	041901(R)
Fang Chen, Long Chen, Keshav Dasgupta, Mohammed Mia, and Olivier Trottier	
A Lorentz invariant doubled world-sheet theory (<i>5 pages</i>)	041902(R)
Stefan Groot Nibbelink and Peter Patalong	

ARTICLES

Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data (<i>29 pages</i>)	042001
J. Aasi <i>et al.</i> (The LIGO Scientific Collaboration and the Virgo Collaboration)	
Accessibility of the stochastic gravitational wave background from magnetars to the interferometric gravitational wave detectors (<i>8 pages</i>)	042002
Cheng-Jian Wu, Vuk Mandic, and Tania Regimbau	
Using the standard solar model to constrain solar composition and nuclear reaction S factors (<i>9 pages</i>)	043001
Aldo Serenelli, Carlos Peña-Garay, and W.C. Haxton	
Global 21 cm signal experiments: A designer's guide (<i>31 pages</i>)	043002
Adrian Liu, Jonathan R. Pritchard, Max Tegmark, and Abraham Loeb	
Weak lensing B modes on all scales as a probe of local isotropy (<i>9 pages</i>)	043003
Cyril Pitrou, Jean-Philippe Uzan, and Thiago S. Pereira	
Observing complete gravitational wave signals from dynamical capture binaries (<i>17 pages</i>)	043004
William E. East, Sean T. McWilliams, Janna Levin, and Frans Pretorius	
A fast method for power spectrum and foreground analysis for 21 cm cosmology (<i>30 pages</i>)	043005
Joshua S. Dillon, Adrian Liu, and Max Tegmark	
Influence of pions and hyperons on stellar black hole formation (<i>21 pages</i>)	043006
Bruno Peres, Micaela Oertel, and Jérôme Novak	
Tracker coupled quintessence (<i>8 pages</i>)	043007
F. Shojai, R. Moti, and F. Najdat	



CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 87, NUMBER 4

D15 FEBRUARY 2013

Fast diffusion of magnetic field in turbulence and origin of cosmic magnetism (<i>6 pages</i>) Jungyeon Cho	043008
Measuring the non-Gaussian stochastic gravitational-wave background: A method for realistic interferometer data (<i>9 pages</i>) Eric Thrane	043009
Can the standard model Higgs boson seed the formation of structures in our Universe? (<i>6 pages</i>) Ki-Young Choi and Qing-Guo Huang	043501
Re-examining the role of curvature in the slowing down acceleration scenario (<i>7 pages</i>) Jianmang Lin, Puxun Wu, and Hongwei Yu	043502
Unified dark fluid with constant adiabatic sound speed: Including entropic perturbations (<i>6 pages</i>) Lixin Xu	043503
Wigner-Eckart theorem in cosmology: Bispectra for total-angular-momentum waves (<i>16 pages</i>) Liang Dai, Donghui Jeong, and Marc Kamionkowski	043504
Local bias approach to the clustering of discrete density peaks (<i>14 pages</i>) Vincent Desjacques	043505
Cosmological equivalence between the Finsler-Randers space-time and the DGP gravity model (<i>6 pages</i>) Spyros Basilakos and Panayiotis Stavrinos	043506
Extension of the quantum theory of cosmological perturbations to the Planck era (<i>31 pages</i>) Ivan Agullo, Abhay Ashtekar, and William Nelson	043507
Moduli dark matter and the search for its decay line using Suzaku x-ray telescope (<i>8 pages</i>) Alexander Kusenko, Michael Loewenstein, and Tsutomu T. Yanagida	043508
Accounting for baryons in cosmological constraints from cosmic shear (<i>15 pages</i>) Andrew R. Zentner, Elisabetta Sembolini, Scott Dodelson, Tim Eifler, Elisabeth Krause, and Andrew P. Hearin	043509
Thermal dark matter from a confining sector (<i>12 pages</i>) Matthew R. Buckley and Ethan T. Neil	043510
CMB maximum temperature asymmetry axis: Alignment with other cosmic asymmetries (<i>8 pages</i>) Antonio Mariano and Leandros Perivolaropoulos	043511
Loop corrections and a new test of inflation (<i>6 pages</i>) Gianmassimo Tasinato, Christian T. Byrnes, Sami Nurmi, and David Wands	043512
Superradiant instabilities in astrophysical systems (<i>25 pages</i>) Helvi Witek, Vitor Cardoso, Akihiro Ishibashi, and Ulrich Sperhake	043513
Quantum phase of inflation (<i>13 pages</i>) Arjun Berera and Raghavan Ranganathan	043514
Testing standard and nonstandard neutrino physics with cosmological data (<i>9 pages</i>) Elena Giusarma, Roland de Putter, and Olga Mena	043515
Galactic Center radio constraints on gamma-ray lines from dark matter annihilation (<i>15 pages</i>) Ranjan Laha, Kenny Chun Ng, Basudeb Dasgupta, and Shunsaku Horiuchi	043516
Nonadiabatic pressure perturbation and noncanonical kinetic terms in multifield inflation (<i>9 pages</i>) Carsten van de Bruck and Susan Vu	043517
Backreaction: Gauge and frame dependences (<i>15 pages</i>) Iain A. Brown, Joey Latta, and Alan Coley	043518
Neutrino lump fluid in growing neutrino quintessence (<i>11 pages</i>) Youcef Ayaita, Maik Weber, and Christof Wetterich	043519
Dark radiation in LARGE volume models (<i>6 pages</i>) Michele Cicoli, Joseph P. Conlon, and Fernando Quevedo	043520
Topological implications of inhomogeneity (<i>12 pages</i>) Boudewijn F. Roukema, Vincent Blanlœil, and Jan J. Ostrowski	043521
Warm inflation in loop quantum cosmology: A model with a general dissipative coefficient (<i>12 pages</i>) Xiao-Min Zhang and Jian-Yang Zhu	043522
Isotropy theorem for cosmological Yang-Mills theories (<i>9 pages</i>) J. A. Cembranos, A. L. Maroto, and S. J. Jareño	043523

(Continued)

CONTENTS -Continued

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 87, NUMBER 4

D15 FEBRUARY 2013

Mixed perturbations from an inflaton and two curvatons: Towards understanding non-Gaussianity in more complicated curvaton scenarios (<i>13 pages</i>)	043524
Maria Sueiro and Malcolm Fairbairn	
Constraints on the holographic dark energy model from type Ia supernovae, WMAP7, baryon acoustic oscillation, and redshift-space distortion (<i>8 pages</i>)	043525
Lixin Xu	
Pseudoconformal universe: Late-time contraction and generation of tensor modes (<i>6 pages</i>)	043526
S. Mironov	
Shear and rotation in Chaplygin cosmology (<i>10 pages</i>)	043527
A. Del Popolo, F. Pace, S.P. Maydanyuk, J.A. Lima, and J.F. Jesus	
Bouncing model in brane world theory (<i>7 pages</i>)	043528
Rodrigo Maier, Nelson Pinto-Neto, and Ivano Damião Soares	
Cosmologically designed modified gravity theories (<i>12 pages</i>)	043529
Jai-chan Hwang, Hyerim Noh, and Chan-Gyung Park	
Power spectra in the eikonal approximation with adiabatic and nonadiabatic modes (<i>16 pages</i>)	043530
Francis Bernardeau, Nicolas Van de Rijt, and Filippo Vernizzi	
Non-adiabatic-like accelerated expansion of the late universe in entropic cosmology (<i>15 pages</i>)	043531
Nobuyoshi Komatsu and Shigeo Kimura	
Exploring tidal effects of coalescing binary neutron stars in numerical relativity (<i>15 pages</i>)	044001
Kenta Hotokezaka, Koutarou Kyutoku, and Masaru Shibata	
Thermodynamic quantities of a black hole with an $f(R)$ global monopole (<i>6 pages</i>)	044002
Jingyun Man and Hongbo Cheng	
Supersymmetric Q -balls and boson stars in ($d+1$) dimensions (<i>12 pages</i>)	044003
Betti Hartmann and Jürgen Riedel	
Modified gravity and the radiation dominated epoch (<i>9 pages</i>)	044004
Carsten van de Bruck and Gregory I. Sculthorpe	
Test particle motion in modified gravity theories (<i>9 pages</i>)	044005
Mahmood Roshan	
Towards experimentally testing the paradox of black hole information loss (<i>6 pages</i>)	044006
Baocheng Zhang, Qing-yu Cai, Ming-sheng Zhan, and Li You	
Bondi accretion onto cosmological black holes (<i>7 pages</i>)	044007
Janusz Karkowski and Edward Malec	
Interpolation in waveform space: Enhancing the accuracy of gravitational waveform families using numerical relativity (<i>10 pages</i>)	044008
Kipp Cannon, J.D. Emberson, Chad Hanna, Drew Keppel, and Harald P. Pfeiffer	
Spin effects on gravitational waves from inspiraling compact binaries at second post-Newtonian order (<i>14 pages</i>)	044009
Alessandra Buonanno, Guillaume Faye, and Tanja Hinderer	
Conformastatic disk-halo in Einstein-Maxwell gravity (<i>12 pages</i>)	044010
Antonio C. Gutiérrez-Piñeres, Guillermo A. González, and Hernando Quevedo	
Hawking radiation for a Proca field in D dimensions. II. Charged field in a brane charged black hole (<i>11 pages</i>)	044011
Mengjie Wang, Marco O. Sampaio, and Carlos Herdeiro	
Updated constraints on $f(\mathcal{R})$ gravity from cosmography (<i>11 pages</i>)	044012
Alejandro Aviles, Alessandro Bravetti, Salvatore Capozziello, and Orlando Luongo	
Uniqueness of the Fock quantization of scalar fields under mode preserving canonical transformations varying in time (<i>12 pages</i>)	044013
Jerónimo Cortez, Lucía Fonseca, Daniel Martín-de Blas, and Guillermo A. Mena Marugán	
Critical phenomena and thermodynamic geometry of charged Gauss-Bonnet AdS black holes (<i>14 pages</i>)	044014
Shao-Wen Wei and Yu-Xiao Liu	
Linear perturbations of self-gravitating spherically symmetric configurations (<i>24 pages</i>)	044015
Eliana Chaverra, Néstor Ortiz, and Olivier Sarbach	
de Sitter QED in Coulomb gauge: First order transition amplitudes (<i>22 pages</i>)	044016
Ion I. Cotăescu and Cosmin Crcean	

(Continued)

CONTENTS - *Continued***PHYSICAL REVIEW D****THIRD SERIES, VOLUME 87, NUMBER 4****D15 FEBRUARY 2013**

Bardeen variables and hidden gauge symmetries in linearized massive gravity (<i>23 pages</i>) Maud Jaccard, Michele Maggiore, and Ermis Mitsou	044017
Irreversible thermodynamic description of interacting dark energy-dark matter cosmological models (<i>12 pages</i>) Tiberiu Harko and Francisco S. Lobo	044018
Highly relativistic circular orbits of spinning particle in the Kerr field (<i>10 pages</i>) Roman Plyatsko and Mykola Fenyk	044019
Pentahedral volume, chaos, and quantum gravity (<i>9 pages</i>) Hal M. Haggard	044020
Neutrino generated dynamical dark energy with no dark energy field (<i>19 pages</i>) E.I. Guendelman and A.B. Kaganovich	044021
Tidal heating and torquing of a Kerr black hole to next-to-leading order in the tidal coupling (<i>16 pages</i>) Katerina Chatzioannou, Eric Poisson, and Nicolás Yunes	044022
Issue of zeroth law for Killing horizons in Lanczos-Lovelock gravity (<i>5 pages</i>) Sudipta Sarkar and Swastik Bhattacharya	044023
Vorticity, gyroscopic precession, and spin-curvature force (<i>11 pages</i>) Wei Chieh Liang and Si Chen Lee	044024
Vainshtein mechanism in binary pulsars (<i>11 pages</i>) Claudia de Rham, Andrew J. Tolley, and Daniel H. Wesley	044025
Numerical relativity in spherical polar coordinates: Evolution calculations with the BSSN formulation (<i>14 pages</i>) Thomas W. Baumgarte, Pedro J. Montero, Isabel Cordero-Carrión, and Ewald Müller	044026
One-loop Euclidean Einstein-Weyl gravity in the de Sitter universe (<i>8 pages</i>) Guido Cognola, Emilio Elizalde, and Sergio Zerbini	044027
Destroying extremal Kerr-Newman black holes with test particles (<i>5 pages</i>) Sijie Gao and Yuan Zhang	044028
Post-Newtonian celestial dynamics in cosmology: Field equations (<i>46 pages</i>) Sergei M. Kopeikin and Alexander N. Petrov	044029