PHYSICAL REVIEW D™

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

PERIODICALS

Postmaster send address changes to:

APS Subscription Services
P.O. Box 41
Annapolis Junction, MD 20701

THIRD SERIES, VOLUME 92, NUMBER 6 *CONTENTS* **D15 SEPTEMBER 2015**

The Table of Contents is a total listing of Parts A and B.
Part A consists of articles 060001–064016, and Part B articles 064017–069904(E)

PART A

EDITORIALS

Editorial: General Relativity Still Making Waves *(2 pages)* 060001
Clifford Will

RAPID COMMUNICATIONS

IceCube neutrinos, decaying dark matter, and the Hubble constant *(6 pages)* ..... 061301(R)
Luis A. Anchordoqui, Vernon Barger, Haim Goldberg, Xing Huang, Danny Marfatia, Luiz H. M. da Silva, and Thomas J. Weiler

Smooth quantum dynamics of the mixmaster universe *(5 pages)* ..... 061302(R)
Hervé Bergeron, Ewa Czuchry, Jean-Pierre Gazeau, Przemysław Małkiewicz, and Włodzimierz Piechocki

Reconciling Planck results with low redshift astronomical measurements *(5 pages)* ..... 061303(R)
Zurab Berezhiani, A. D. Dolgov, and I. I. Tkachev

Flow equation for $f(R)$ gravity and some of its exact solutions *(5 pages)* ..... 061501(R)
Nobuyoshi Ohta, Roberto Percacci, and Gian Paolo Vacca

Unimodular gravity redux *(4 pages)* ..... 061502(R)
E. Álvarez, S. González-Martín, M. Herrero-Valea, and C. P. Martín

ARTICLES

Ion-beam sputtered amorphous silicon films for cryogenic precision measurement systems *(11 pages)* 062001
Peter G. Murray, Iain W. Martin, Kieran Craig, James Hough, Raymond Robie, Sheila Rowan, Matt R. Abernathy, Teal Pershing, and Steven Penn

Sensing short range forces with a nanosphere matter-wave interferometer *(7 pages)* 062002
Andrew Geraci and Hart Goldman

Observation of photothermal feedback in a stable dual-carrier optical spring *(8 pages)* 062003
David Kelley, James Lough, Fabian Mangaña-Sandoval, Antonio Perreca, and Stefan W. Ballmer

Origin of the spectral upturn in the cosmic-ray C/Fe and O/Fe ratios *(5 pages)* 063001
Nicola Tomassetti

Mock data and science challenge for detecting an astrophysical stochastic gravitational-wave background with Advanced LIGO and Advanced Virgo *(15 pages)* 063002
Duncan Meacher, Michael Coughlin, Sean Morris, Tania Regimbau, Nelson Christensen, Shivaraj Kandhasamy, Vuk Mandic, Joseph D. Romano, and Eric Thrane

Copyright 2015 American Physical Society

(Continued)

1550-7998(20150915)92:6;1-G

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.
By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. D **90**, 020001 (2014).

PHYSICAL REVIEW D THIRD SERIES, VOLUME 92, NUMBER 6 D15 SEPTEMBER 2015

When dark matter interacts with cosmic rays or interstellar matter: A morphological study *(12 pages)* 063003
Eric Carlson and Stefano Profumo

Edgeworth streaming model for redshift space distortions *(26 pages)* 063004
Cora Uhlemann, Michael Kopp, and Thomas Haugg

Model of the stochastic gravitational-wave background due to core collapse to black holes *(11 pages)* 063005
K. Crocker, V. Mandic, T. Regimbau, K. Belczynski, W. Gladysz, K. Olive, T. Prestegard, and E. Vangioni

Using dark energy to suppress power at small scales *(13 pages)* 063006
Martin Kunz, Savvas Nesseris, and Ignacy Sawicki

Dark matter triggers of supernovae *(7 pages)* 063007
Peter W. Graham, Surjeet Rajendran, and Jaime Varela

Microwave background correlations from dipole anisotropy modulation *(10 pages)* 063008
Simone Aiola, Bingjie Wang, Arthur Kosowsky, Tina Kahniashvili, and Hassan Firouzjahi

Seismology of adolescent neutron stars: Accounting for thermal effects and crust elasticity *(22 pages)* 063009
C. J. Krüger, W. C. G. Ho, and N. Andersson

Detection of eccentric supermassive black hole binaries with pulsar timing arrays: Signal-to-noise ratio calculations *(17 pages)* 063010
E. A. Huerta, Sean T. McWilliams, Jonathan R. Gair, and Stephen R. Taylor

Indications of negative evolution for the sources of the highest energy cosmic rays *(10 pages)* 063011
Andrew M. Taylor, Markus Ahlers, and Dan Hooper

Detecting the cosmological neutrino background in the CMB *(10 pages)* 063012
Elena Sellentin and Ruth Durrer

Laser interferometer response to scalar massive gravitational waves *(11 pages)* 063013
Arkadiusz Błaut

Anisotropies of ultrahigh energy cosmic ray nuclei diffusing from extragalactic sources *(11 pages)* 063014
Diego Harari, Silvia Mollerach, and Esteban Roulet

Light propagation in the gravitational field of N arbitrarily moving bodies in 1PN approximation for high-precision astrometry *(34 pages)* 063015
Sven Zschocke

Effects of axions on nucleosynthesis in massive stars *(6 pages)* 063016
Shohei Aoyama and Takeru K. Suzuki

Static axisymmetric Einstein equations in vacuum: Symmetry, new solutions, and Ricci solitons *(9 pages)* 063017
M. M. Akbar and M. A. H. MacCallum

Compensated isocurvature perturbations in the curvaton model *(20 pages)* 063018
Chen He, Daniel Grin, and Wayne Hu

Examining the viability of phantom dark energy *(11 pages)* 063019
Kevin J. Ludwick

Constraints on massive neutrinos from the pairwise kinematic Sunyaev-Zel'dovich effect *(8 pages)* 063501
Eva-Maria Mueller, Francesco de Bernardis, Rachel Bean, and Michael D. Niemack

Small scale clustering of late forming dark matter *(13 pages)* 063502
S. Agarwal, P.-S. Corasaniti, S. Das, and Y. Rasera

Curvature singularity in $f(R)$ theories of gravity *(9 pages)* 063503
Koushik Dutta, Sukanta Panda, and Avani Patel

Majorana dark matter through the Higgs portal under the vacuum stability lamppost *(16 pages)* 063504
Luis A. Anchordoqui, Vernon Barger, Haim Goldberg, Xing Huang, Danny Marfatia, Luiz H. M. da Silva, and Thomas J. Weiler

Constraints on dark radiation from cosmological probes *(13 pages)* 063505
Graziano Rossi, Christophe Yèche, Nathalie Palanque-Delabrouille, and Julien Lesgourgues

Reheating phase diagram for single-field slow-roll inflationary models *(12 pages)* 063506
Rong-Gen Cai, Zong-Kuan Guo, and Shao-Jiang Wang

Stochastic quasiclassical wave function of the Universe from the third quantization procedure *(14 pages)* 063507
P. Ivanov and S. V. Chernov

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.
By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. D **90**, 020001 (2014).

PHYSICAL REVIEW D **THIRD SERIES, VOLUME 92, NUMBER 6** **D15 SEPTEMBER 2015**

Cosmological scalar field perturbations can grow *(9 pages)* 063508
Miguel Alcubierre, Axel de la Macorra, Alberto Diez-Tejedor, and José M. Torres

Quantum transitions between classical histories *(17 pages)* 063509
James Hartle and Thomas Hertog

Primordial power spectrum features and f_{NL} constraints *(12 pages)* 063510
Stefano Gariazzo, Laura Lopez-Honorez, and Olga Mena

Tensors, BICEP2 results, prior dependence, and dust *(10 pages)* 063511
Marina Cortês, Andrew R. Liddle, and David Parkinson

Domain wall formation from level crossing in the axiverse *(5 pages)* 063512
Ryuji Daido, Naoya Kitajima, and Fuminobu Takahashi

Thermally producing and weakly freezing out dark matter in a bouncing universe *(7 pages)* 063513
Changhong Li

Higgs inflation in Gauss-Bonnet braneworld *(12 pages)* 063514
Rong-Gen Cai, Zong-Kuan Guo, and Shao-Jiang Wang

General analysis of direct dark matter detection: From microphysics to observational signatures *(17 pages)* 063515
James B. Dent, Lawrence M. Krauss, Jayden L. Newstead, and Subir Sabharwal

Chromo-natural inflation in the axiverse *(9 pages)* 063516
Ippei Obata, Takashi Miura, and Jiro Soda (CLEO Collaboration)

Cross-correlation of Planck CMB lensing and CFHTLenS galaxy weak lensing maps *(12 pages)* 063517
Jia Liu and J. Colin Hill

Readout strategies for directional dark matter detection beyond the neutrino background *(16 pages)* 063518
Ciaran A. J. O'Hare, Anne M. Green, Julien Billard, Enectali Figueroa-Feliciano, and Louis E. Strigari

Cosmological attractors and initial conditions for inflation *(18 pages)* 063519
John Joseph M. Carrasco, Renata Kallosh, and Andrei Linde

Mirror moving in quantum vacuum of a massive scalar field *(7 pages)* 063520
Qingdi Wang and William G. Unruh

Charged Q-balls in gauge mediated SUSY breaking models *(13 pages)* 063521
Jeong-Pyong Hong, Masahiro Kawasaki, and Masaki Yamada

Nonlinear evolution of the baryon acoustic oscillation scale in alternative theories of gravity *(7 pages)* 063522
Emilio Bellini and Miguel Zumalacárregui

Consistency test on the cosmic evolution *(11 pages)* 063523
Yan Gong, Yin-Zhe Ma, Shuang-Nan Zhang, and Xuelei Chen

Scale-invariant perturbations in ekpyrotic cosmologies without fine-tuning of initial conditions *(11 pages)* 063524
Aaron M. Levy, Anna Ijjas, and Paul J. Steinhardt

Constraining ultralarge-scale cosmology with multiple tracers in optical and radio surveys *(20 pages)* 063525
D. Alonso and P. G. Ferreira

Asymmetric dark matter stars *(14 pages)* 063526
Chris Kouvaris and Niklas Grønlund Nielsen

Optimal CMB estimators for bispectra from excited states *(17 pages)* 063527
P. Daniel Meerburg and Moritz Münchmeyer

Cosmic string loop shapes *(10 pages)* 063528
Jose J. Blanco-Pillado, Ken D. Olum, and Benjamin Shlaer

Lindquist-Wheeler formulation of lattice universes *(38 pages)* 063529
Rex G. Liu

QCD equation of state and cosmological parameters in the early universe *(10 pages)* 063530
P. Castorina, V. Greco, and S. Plumari

Quantum field theory of relic nonequilibrium systems *(21 pages)* 063531
Nicolas G. Underwood and Antony Valentini

Evolution of cosmological perturbations and the production of non-Gaussianities through a nonsingular bounce: Indications for a no-go theorem in single field matter bounce cosmologies *(27 pages)* 063532
Jerome Quintin, Zeinab Sherkatghanad, Yi-Fu Cai, and Robert H. Brandenberger

(Continued)



Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.
By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. D **90**, 020001 (2014).

PHYSICAL REVIEW D THIRD SERIES, VOLUME 92, NUMBER 6 D15 SEPTEMBER 2015

Weak lensing induced by second-order vector mode *(15 pages)* 063533
Shohei Saga, Daisuke Yamauchi, and Kiyotomo Ichiki

Constraints on the early and late integrated Sachs-Wolfe effects from the Planck 2015 cosmic microwave background anisotropies in the angular power spectra *(9 pages)* 063534
Giovanni Cabass, Martina Gerbino, Elena Giusarma, Alessandro Melchiorri, Luca Pagano, and Laura Salvati

Effects of different eLISA-like configurations on massive black hole parameter estimation *(10 pages)* 064001
Edward K. Porter

Buchdahl-Bondi limit in modified gravity: Packing extra effective mass in relativistic compact stars *(8 pages)* 064002
Rituparno Goswami, Sunil D. Maharaj, and Anne Marie Nzioki

Possible golden events for ringdown gravitational waves *(7 pages)* 064003
Hiroyuki Nakano, Takahiro Tanaka, and Takashi Nakamura

Critical behavior in black hole scalar field interaction *(6 pages)* 064004
J. A. Crespo and H. P. de Oliveira

Vainshtein mechanism beyond the quasistatic approximation *(20 pages)* 064005
Hans A. Winther and Pedro G. Ferreira

Holographic entropy increases in quadratic curvature gravity *(6 pages)* 064006
Srijit Bhattacharjee, Sudipta Sarkar, and Aron C. Wall

Coupled intertwiner dynamics: A toy model for coupling matter to spin foam models *(37 pages)* 064007
Sebastian Steinhaus

Static and dynamic hairy planar black holes *(12 pages)* 064008
Zhong-Ying Fan and H. Lü

On extended symmetries for the Galileon *(5 pages)* 064009
Johannes Noller, Vishagan Sivanesan, and Mikael von Strauss

Note on the Gauss-Bonnet braneworld scenario *(8 pages)* 064010
D. Bazeia, A. Lobão, L. Losano, R. Menezes, and A. Yu. Petrov

Bayesian semiparametric power spectral density estimation with applications in gravitational wave data analysis *(15 pages)* 064011
Matthew C. Edwards, Renate Meyer, and Nelson Christensen

Thermodynamics of rotating thin shells in the BTZ spacetime *(13 pages)* 064012
José P. S. Lemos, Francisco J. Lopes, Masato Minamitsuji, and Jorge V. Rocha

Interior dynamics of neutral and charged black holes *(37 pages)* 064013
Jun-Qi Guo and Pankaj S. Joshi

Generalized Smarr formula and the viscosity bound for Einstein-Maxwell-dilaton black holes *(19 pages)* 064014
Hai-Shan Liu, H. Lü, and C. N. Pope

I-Q relations for rapidly rotating neutron stars in $f(R)$ gravity *(6 pages)* 064015
Daniela D. Doneva, Stoytcho S. Yazadjiev, and Kostas D. Kokkotas

Multi-timescale analysis of phase transitions in precessing black-hole binaries *(26 pages)* 064016
Davide Gerosa, Michael Kesden, Ulrich Sperhake, Emanuele Berti, and Richard O'Shaughnessy

PART B

Scaling exponents for lattice quantum gravity in four dimensions *(31 pages)* 064017
Herbert W. Hamber

Revision of the brick wall method for calculating the black hole thermodynamic quantities *(13 pages)* 064018
F. Lenz, K. Ohta, and K. Yazaki

Parametrized post-Newtonian limit of Horndeski's gravity theory *(20 pages)* 064019
Manuel Hohmann

Lovelock black holes with a nonconstant curvature horizon *(14 pages)* 064020
Seiju Ohashi and Masato Nozawa

Lorentzian fuzzy spheres *(7 pages)* 064021
A. Chaney, Lei Lu, and A. Stern

(Continued)



Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.
By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. D **90**, 020001 (2014).

PHYSICAL REVIEW D THIRD SERIES, VOLUME 92, NUMBER 6 D15 SEPTEMBER 2015

Bifurcation of the quasinormal spectrum and zero damped modes for rotating dilatonic black holes *(7 pages)* 064022
K. D. Kokkotas, R. A. Konoplya, and A. Zhidenko

Thermodynamics of Gauss-Bonnet-dilaton Lifshitz black branes *(9 pages)* 064023
M. Kord Zangeneh, M. H. Dehghani, and A. Sheykhi

Distinguishing general relativity and $f(R)$ gravity with the gravitational lensing Minkowski functionals *(10 pages)* 064024
Chenxiaoji Ling, Qiao Wang, Ran Li, Baojiu Li, Jie Wang, and Liang Gao

Metric perturbations produced by eccentric equatorial orbits around a Kerr black hole *(26 pages)* 064025
Maarten van de Meent and Abhay G. Shah

Near horizon hidden symmetry and entropy of Sultana-Dyer black hole: A time dependent case *(9 pages)* 064026
Bibhas Ranjan Majhi

Warped-AdS$_3$ black holes with scalar halo *(8 pages)* 064027
Gaston Giribet and Minas Tsoukalas

Phase transition and thermodynamic geometry of Einstein-Maxwell-dilaton black holes *(10 pages)* 064028
S. H. Hendi, A. Sheykhi, S. Panahiyan, and B. Eslam Panah

Particle on the innermost stable circular orbit of a rapidly spinning black hole *(15 pages)* 064029
Samuel E. Gralla, Achilleas P. Porfyriadis, and Niels Warburton

Analytical result for the vacuum polarization of subtracted rotating black holes *(6 pages)* 064030
Mirjam Cvetič, Zain H. Saleem, and Alejandro Satz

Scalar field as a time variable during gravitational evolution *(11 pages)* 064031
Anna Nakonieczna and Jerzy Lewandowski

Spinning particles in vacuum spacetimes of different curvature types *(22 pages)* 064032
O. Semerák and M. Šrámek

Solar System and stellar tests of a quantum-corrected gravity *(10 pages)* 064033
Shan-Shan Zhao and Yi Xie

High resolution magnetohydrodynamic simulation of black hole-neutron star merger: Mass ejection and short gamma ray bursts *(8 pages)* 064034
Kenta Kiuchi, Yuichiro Sekiguchi, Koutarou Kyutoku, Masaru Shibata, Keisuke Taniguchi, and Tomohide Wada

Dynamical system analysis of hybrid metric-Palatini cosmologies *(11 pages)* 064035
Sante Carloni, Tomi Koivisto, and Francisco S. N. Lobo

Comparison theorems for causal diamonds *(19 pages)* 064036
Clément Berthiere, Gary Gibbons, and Sergey N. Solodukhin

Hořava gravity with mixed derivative terms: Power counting renormalizability with lower order dispersions *(5 pages)* ... 064037
Mattia Colombo, A. Emir Gümrükçüoğlu, and Thomas P. Sotiriou

Loop quantum cosmology, non-Gaussianity, and CMB power asymmetry *(6 pages)* 064038
Ivan Agullo

Is motion under the conservative self-force in black hole spacetimes an integrable Hamiltonian system? *(7 pages)* 064039
Justin Vines and Éanna É. Flanagan

Gravitational self-force in nonvacuum spacetimes: An effective field theory derivation *(20 pages)* 064040
Peter Zimmerman

Gravitational instability in oscillating background *(18 pages)* 064041
E. V. Arbuzova, A. D. Dolgov, and L. Reverberi

Harvesting correlations from the quantum vacuum *(18 pages)* 064042
Alejandro Pozas-Kerstjens and Eduardo Martín-Martínez

Self-similar evaporation and collapse in the quantum portrait of black holes *(13 pages)* 064043
Valentino F. Foit and Nico Wintergerst

Hamiltonian formalism of minimal massive gravity *(9 pages)* 064044
Davood Mahdavian Yekta

Earth-moon Lagrangian points as a test bed for general relativity and effective field theories of gravity *(21 pages)* 064045
Emmanuele Battista, Simone Dell'Agnello, Giampiero Esposito, Luciano Di Fiore, Jules Simo, and Aniello Grado

Spectral indices in Eddington-inspired Born-Infeld inflation *(7 pages)* 064046
Inyong Cho and Jinn-Ouk Gong

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.
By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. D **90**, 020001 (2014).

PHYSICAL REVIEW D **THIRD SERIES, VOLUME 92, NUMBER 6** **D15 SEPTEMBER 2015**

Cosmological disformal transformations to the Einstein frame and gravitational couplings with matter perturbations *(23 pages)* 064047
Shinji Tsujikawa

Photon spheres in Einstein and Einstein-Gauss-Bonnet theories and circular null geodesics in axially-symmetric spacetimes *(12 pages)* 064048
Emanuel Gallo and J. R. Villanueva

Testing Lorentz symmetry with planetary orbital dynamics *(12 pages)* 064049
A. Hees, Q. G. Bailey, C. Le Poncin-Lafitte, A. Bourgoin, A. Rivoldini, B. Lamine, F. Meynadier, C. Guerlin, and P. Wolf

Electric fields and quantum wormholes *(10 pages)* 064050
Dalit Engelhardt, Ben Freivogel, and Nabil Iqbal

Gravitational self-force in scalar-tensor gravity *(13 pages)* 064051
Peter Zimmerman

Nonperturbative pair production in interpolating fields *(13 pages)* 065001
Anton Ilderton, Greger Torgrimsson, and Jonatan Wårdh

Covariance in models of loop quantum gravity: Gowdy systems *(12 pages)* 065002
Martin Bojowald and Suddhasattwa Brahma

QCD Kondo effect: Quark matter with heavy-flavor impurities *(12 pages)* 065003
Koichi Hattori, Kazunori Itakura, Sho Ozaki, and Shigehiro Yasui

Consistent type IIB reductions to maximal 5D supergravity *(23 pages)* 065004
Arnaud Baguet, Olaf Hohm, and Henning Samtleben

Asymptotic freedom in the front-form Hamiltonian for quantum chromodynamics of gluons *(19 pages)* 065005
María Gómez-Rocha and Stanisław D. Głazek

Nonrelativistic approximation of the Dirac equation for slow fermions coupled to the chameleon and torsion fields in the gravitational field of the Earth *(12 pages)* 065006
A. N. Ivanov and M. Wellenzohn

Sakharov's induced gravity on the AdS background: SM scale as inverse mass parameter of the Schwinger-DeWitt expansion *(11 pages)* 065007
Boris L. Altshuler

Relativistic hydrodynamics from quantum field theory on the basis of the generalized Gibbs ensemble method *(14 pages)* 065008
Tomoya Hayata, Yoshimasa Hidaka, Toshifumi Noumi, and Masaru Hongo

Dynamics of the electric current in an ideal electron gas: A sound mode inside the quasiparticles *(35 pages)* 065009
Sašo Grozdanov and Janos Polonyi

Entanglement constant for conformal families *(16 pages)* 065010
Paweł Caputa and Alvaro Veliz-Osorio

Magnetic and inverse magnetic catalysis in the Bose-Einstein condensation of neutral bound pairs *(13 pages)* 065011
Bo Feng, De-fu Hou, and Hai-cang Ren

Deformations of Yang-Mills theory *(29 pages)* 065012
Marco Cofano, Chih-Hao Fu, and Kirill Krasnov

Confined vortices in topologically massive $U(1) \times U(1)$ theory *(11 pages)* 065013
Mohamed M. Anber, Yannis Burnier, Eray Sabancilar, and Mikhail Shaposhnikov

Thermodynamics of asymptotically safe theories *(13 pages)* 065014
Dirk H. Rischke and Francesco Sannino

Schwinger effect and entanglement entropy in confining geometries *(21 pages)* 065015
Mahdis Ghodrati

Construction of the energy-momentum tensor for Wilson actions *(12 pages)* 065016
H. Sonoda

Analogy between the Schwarzschild solution in a noncommutative gauge theory and the Reissner-Nordström metric *(8 pages)* 065017
R. Bufalo and A. Tureanu

Nonminimally coupled Einstein-Maxwell model in a non-Riemann spacetime with torsion *(10 pages)* 065018
Ahmet Baykal and Tekin Dereli

(Continued)



Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.
By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. D **90**, 020001 (2014).

PHYSICAL REVIEW D THIRD SERIES, VOLUME 92, NUMBER 6 D15 SEPTEMBER 2015

Flavor instabilities in the multiangle neutrino line model *(8 pages)* 065019
Sajad Abbar, Huaiyu Duan (端怀宇), and Shashank Shalgar

Impact of axions on confinement in three and two dimensions *(10 pages)* 065020
M. M. Anber and M. Shifman

Dyson-Schwinger approach to Hamiltonian quantum chromodynamics *(21 pages)* 065021
Davide R. Campagnari and Hugo Reinhardt

More on soft theorems: Trees, loops, and strings *(25 pages)* 065022
Massimo Bianchi, Song He, Yu-tin Huang, and Congkao Wen

Early universe cosmology, effective supergravity, and invariants of algebraic forms *(17 pages)* 065023
Kuver Sinha

n-point amplitudes with a single negative-helicity graviton *(14 pages)* 065024
Sam D. Alston, David C. Dunbar, and Warren B. Perkins

Holographic CFTs on maximally symmetric spaces: Correlators, integral transforms, and applications *(24 pages)* 065025
Kurt Hinterbichler, James Stokes, and Mark Trodden

Hybrid Seiberg-Witten map, its θ-exact expansion, and the antifield formalism *(16 pages)* 065026
C. P. Martín and David G. Navarro

Ward identities and gauge flow for M-theory in $\mathcal{N} = 3$ superspace *(7 pages)* 065027
Sudhaker Upadhyay

One-loop corrections in the Horava-Lifshitz-like QED *(12 pages)* 065028
M. Gomes, T. Mariz, J. R. Nascimento, A. Yu. Petrov, J. M. Queiruga, and A. J. da Silva

Dark matter protohalos in a nine parameter MSSM and implications for direct and indirect detection *(19 pages)* 065029
Roberta Diamanti, Maria Eugenia Cabrera Catalan, and Shin'ichiro Ando

New double soft emission theorems *(8 pages)* 065030
Freddy Cachazo, Song He, and Ellis Ye Yuan

Solution to the nonlinear field equations of ten dimensional supersymmetric Yang-Mills theory *(7 pages)* 066001
Carlos R. Mafra and Oliver Schlotterer

Holographic Rényi entropy of single interval on Torus: With $\mathcal{W}$ symmetry *(11 pages)* 066002
Bin Chen, Jie-qiang Wu, and Ze-chuan Zheng

Schrödinger invariance from Lifshitz isometries in holography and field theory *(6 pages)* 066003
Jelle Hartong, Elias Kiritsis, and Niels A. Obers

Gauge transformation of double field theory for open string *(11 pages)* 066004
Chen-Te Ma

M-strings, monopole strings, and modular forms *(44 pages)* 066005
Stefan Hohenegger, Amer Iqbal, and Soo-Jong Rey

Nonminimal couplings in Randall-Sundrum scenarios *(5 pages)* 066006
G. Alencar, R. R. Landim, C. R. Muniz, and R. N. Costa Filho

String bits at finite temperature and the Hagedorn phase *(8 pages)* 066007
Charles B. Thorn

Analytic investigation of holographic phase transitions influenced by dark matter sector *(15 pages)* 066008
Łukasz Nakonieczny, Marek Rogatko, and Karol I. Wysokiński

Note on holographic nonrelativistic Goldstone bosons *(10 pages)* 066009
Riccardo Argurio, Andrea Marzolla, Andrea Mezzalira, and Daniel Naegels

Wilson loops on M2-branes and M5-branes *(7 pages)* 066010
Edward Quijada and Henrique Boschi-Filho

ERRATA

Erratum: Nonexistence of black holes with noncanonical scalar fields [Phys. Rev. D **89**, 084056 (2014)] *(1 pages)* 069901
Alexander A. H. Graham and Rahul Jha

Publisher's Note: Note on bunching of field lines in black hole magnetospheres [Phys. Rev. D **92**, 044053 (2015)] *(1 pages)* 069902
Samuel E. Gralla, Alexandru Lupsasca, and Maria J. Rodriguez

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.
By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. D **90**, 020001 (2014).

PHYSICAL REVIEW D **THIRD SERIES, VOLUME 92, NUMBER 6** **D15 SEPTEMBER 2015**

Erratum: Alternative formation model for antideuterons from dark matter [Phys. Rev. D **91**, 123536 (2015)] *(1 pages)* 069903
L. A. Dal and A. R. Raklev

Erratum: Studying the precision of ray tracing techniques with Szekeres models [Phys. Rev. D **92**, 023532 (2015)] *(3 pages)* 069904
S. M. Koksbang and S. Hannestad

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.
By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. D **90**, 020001 (2014).