

CONTENTS - Continued

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 100, NUMBER 6

DECEMBER 2019

Model reduction of rigid-body molecular dynamics via generalized multipole potentials (<i>13 pages</i>)	063302
Paul N. Patrone, Andrew Dienstfrey, and G. B. McFadden	
 Acceptance rate is a thermodynamic function in local Monte Carlo algorithms (<i>8 pages</i>)	063303
Evgeni Burovski, Wolfhard Janke, Maria Guskova, and Lev Shchur	
Equilibrium microcanonical annealing for first-order phase transitions (<i>12 pages</i>)	063304
Nathan Rose and Jonathan Machta	
Computational nanoplasmonics in the quasistatic limit for biosensing applications (<i>12 pages</i>)	063305
Natalia C. Clementi, Christopher D. Cooper, and Lorena A. Barba	
Multicomponent flow on curved surfaces: A vielbein lattice Boltzmann approach (<i>26 pages</i>)	063306
Victor E. Ambruş, Sergiu Busuioc, Alexander J. Wagner, Fabien Paillusson, and Halim Kusumaatmaja	
Unbiased on-lattice domain growth (<i>15 pages</i>)	063307
Cameron A. Smith, Cécile Mailler, and Christian A. Yates	
High-order least-square-based finite-difference–finite-volume method for simulation of incompressible thermal flows on arbitrary grids (<i>20 pages</i>)	063308
Y. Y. Liu, H. W. Zhang, L. M. Yang, and C. Shu	
Multisector parabolic-equation approach to compute acoustic scattering by noncanonically shaped impenetrable objects (<i>15 pages</i>)	063309
Adith Ramamurti and David C. Calvo	
Arbitrary Lagrangian-Eulerian-type discrete unified gas kinetic scheme for low-speed continuum and rarefied flow simulations with moving boundaries (<i>22 pages</i>)	063310
Yong Wang (王勇), Chengwen Zhong (钟诚文), and Sha Liu (刘沙)	
Lattice Boltzmann modeling of fluid-particle interaction based on a two-phase mixture representation (<i>11 pages</i>)	063311
Chrysovalantis Tsigginos, Jianping Meng (孟剑平), Xiao-Jun Gu, and David R. Emerson	

ERRATA

Erratum: Chimera patterns in two-dimensional networks of coupled neurons [Phys. Rev. E 95 , 032224 (2017)] (<i>1 page</i>)	069901(E)
Alexander Schmidt, Theodoros Kasimatis, Johanne Hizanidis, Astero Provata, and Philipp Hövel	

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 100, NUMBER 6

DECEMBER 2019

Flow-induced buckling dynamics of sperm flagella (<i>12 pages</i>)	063107
Manish Kumar, Derek M. Walkama, Jeffrey S. Guasto, and Arezoo M. Ardekani	
Clustering of floating tracers in weakly divergent velocity fields (<i>15 pages</i>)	063108
Konstantin V. Koshel, Dmitry V. Stepanov, Eugene A. Ryzhov, Pavel Berloff, and V. I. Klyatskin	
Upper bound on angular momentum transport in Taylor-Couette flow (<i>15 pages</i>)	063109
Zijing Ding and Elena Marensi	
Solute transport in porous media studied by lattice Boltzmann simulations at pore scale and x-ray tomography experiments (<i>15 pages</i>)	063110
Chunwei Zhang, Tetsuya Suekane, Kosuke Minokawa, Yingxue Hu, and Anindityo Patmonojati	
Numerical study on electrohydrodynamic multiple droplet interactions (<i>17 pages</i>)	063111
P. S. Casas, M. Garzon, L. J. Gray, and J. A. Sethian	
Flagellated bacteria swim in circles near a rigid wall (<i>18 pages</i>)	063112
Yunyoung Park, Yongsam Kim, and Sookkyung Lim	

Plasma Physics

Formation of kagome-white-eye-honeycomb hexagonal superlattice pattern in dielectric barrier discharge (<i>8 pages</i>)	063201
Lifang Dong, Binbin Liu, Caixia Li, and Yuyang Pan	
Dust-acoustic soliton breaking and the associated acceleration of charged particles (<i>8 pages</i>)	063202
F. M. Trukhachev, M. M. Vasiliev, O. F. Petrov, and E. V. Vasilieva	
Deflection of a reflected intense circularly polarized light beam induced by asymmetric radiation pressure (<i>7 pages</i>)	063203
Y. H. Tang, Z. Gong, J. Q. Yu, Y. R. Shou, and X. Q. Yan	
Direct-drive double-shell implosion: A platform for burning-plasma physics studies (<i>12 pages</i>)	063204
S. X. Hu, R. Epstein, W. Theobald, H. Xu, H. Huang, V. N. Goncharov, S. P. Regan, P. W. McKenty, R. Betti, E. M. Campbell, and D. S. Montgomery	
Sudden diffusion of turbulent mixing layers in weakly coupled plasmas under compression (<i>20 pages</i>)	063205
Giovanni Viciconte, Benoît-Joseph Gréa, Fabien S. Godeferd, Philippe Arnault, and Jean Clérouin	
Sound speed in Yukawa one-component plasmas across coupling regimes (<i>14 pages</i>)	063206
Luciano G. Silvestri, Gabor J. Kalman, Zoltán Donkó, Peter Hartmann, Marlene Rosenberg, Kenneth I. Golden, and Stamatios Kyrkos	
Hall magnetohydrodynamic turbulence with a magnetic Prandtl number larger than unity (<i>6 pages</i>)	063207
Hideaki Miura, Jiguan Yang, and Toshiyuki Gotoh	
Laser and electron deflection from transverse asymmetries in laser-plasma accelerators (<i>9 pages</i>)	063208
Daniel E. Mittelberger, Maxence Thévenet, Kei Nakamura, Anthony J. Gonsalves, Carlo Benedetti, Joost Daniels, Sven Steinke, Rémi Lehe, Jean-Luc Vay, Carl B. Schroeder, Eric Esarey, and Wim P. Leemans	

Computational Physics

Extensive analysis of the lattice Boltzmann method on shifted stencils (<i>15 pages</i>)	063301
S. A. Hosseini, C. Coreixas, N. Darabiha, and D. Thévenin	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 100, NUMBER 6

DECEMBER 2019

Multiple minimum-energy paths and scenarios of unwinding transitions in chiral nematic liquid crystals (<i>11 pages</i>)	062704
--	--------

Semen S. Tenishchev, Alexei D. Kiselev, Aleksei V. Ivanov, and Valery M. Uzdin

Films and Interfaces

Elastic properties of symmetric liquid-liquid interfaces (<i>5 pages</i>)	062801
---	--------

Ramanathan Varadharajan and Frans A. M. Leermakers

Symmetry-breaking morphological transitions at chemically nanopatterned walls (<i>12 pages</i>)	062802
---	--------

Martin Pospíšil, Martin Láska, and Alexandr Malijevský

Localization in liquid phase separation: Coarsening and stable structures (<i>15 pages</i>)	062803
---	--------

Avanish Kumar, Chaitanya Narayanam, Rajesh Khanna, and Sanjay Puri

Granular Materials

Saturated random packing built of arbitrary polygons under random sequential adsorption protocol (<i>7 pages</i>)	062901
---	--------

Michał Cieřła, Piotr Kubala, and Ge Zhang

 Hard convex lens-shaped particles: Characterization of dense disordered packings (<i>13 pages</i>)	062902
---	--------

Giorgio Cinacchi and Salvatore Torquato

Solid Mechanics

Equilibria and bifurcations of a foldable paper-based spring inspired by Kresling-pattern origami (<i>17 pages</i>)	063001
---	--------

Ravindra Masana and Mohammed F. Daqaq

Seismic phononic crystals by elastodynamic Navier equation (<i>8 pages</i>)	063002
---	--------

Dongwoo Lee, Joo Hwan Oh, In Seok Kang, and Junsuk Rho

Self-diffusion in plastic flow of amorphous solids (<i>8 pages</i>)	063003
---	--------

Kamran Karimi

Fluid Dynamics

Generation of a large-scale vorticity in a fast-rotating density-stratified turbulence or turbulent convection (<i>12 pages</i>)	063101
--	--------

Igor Rogachevskii and Nathan Kleeorin

Effects of phase lag on the hovering flight of damselfly and dragonfly (<i>14 pages</i>)	063102
--	--------

Pei-Yi Zou, Yu-Hsiang Lai, and Jing-Tang Yang

Vibroequilibria in microgravity: Comparison of experiments and theory (<i>13 pages</i>)	063103
---	--------

P. Salgado Sánchez, J. Fernández, I. Tinao, and J. Porter

Stability boundaries for the Rayleigh-Taylor instability in accelerated elastic-plastic solid slabs (<i>12 pages</i>)	063104
---	--------

A. R. Piriz, S. A. Piriz, and N. A. Tahir

Jet direction in bubble collapse within rectangular and triangular channels (<i>9 pages</i>)	063105
--	--------

Lebo Molefe and Ivo R. Peters

Active pitching of short splitters past a cylinder: Drag increase and wake (<i>8 pages</i>)	063106
---	--------

Yaqing Jin, Shyuan Cheng, and Leonardo P. Chamorro

(Continued)

Assembly of heteropolymers via a network of reaction coordinates (<i>11 pages</i>)	062502
Davide Chiuchiù, James Ferrare, and Simone Pigolotti	
Nanoscale viscosity of confined polyethylene oxide (<i>8 pages</i>)	062503
Zheng Zhang, Junjun Ding, Benjamin M. Ocko, Andrei Fluerașu, Lutz Wiegart, Yugang Zhang, Mark Kobrak, Ye Tian, Honghu Zhang, Julien Lhermitte, Chang-Hwan Choi, Frank T. Fisher, Kevin G. Yager, and Charles T. Black	
Adsorption of two-dimensional polymers with two- and three-body self-interactions (<i>11 pages</i>)	062504
Nathann T. Rodrigues, Tiago J. Oliveira, Thomas Prellberg, and Aleksander L. Owczarek	
Colloids, Complex Fluids, and Active Matter	
Influence of dielectric layers on estimates of diffusion coefficients and concentrations of ions from impedance spectroscopy (<i>15 pages</i>)	062601
Maxim V. Khazimullin and Yuriy A. Lebedev	
Breakdown of effective temperature, power law interactions, and self-propulsion in a momentum-conserving active fluid (<i>10 pages</i>)	062602
Amit Singh Vishen, Jacques Prost, and Madan Rao	
Nonmonotonic behavior in dense assemblies of active colloids (<i>9 pages</i>)	062603
Natsuda Klongvessa, Félix Ginot, Christophe Ybert, Cécile Cottin-Bizonne, and Mathieu Leocmach	
Highly confined mixtures of parallel hard squares: A density-functional-theory study (<i>14 pages</i>)	062604
Yuri Martínez-Ratón and Enrique Velasco	
Hydrodynamic attraction of bacteria to gas and liquid interfaces (<i>9 pages</i>)	062605
Adib Ahmadzadegan, Shiyang Wang, Pavlos P. Vlachos, and Arezoo M. Ardekani	
Accurate determination of the translational correlation function of two-dimensional solids (<i>6 pages</i>)	062606
Yan-Wei Li and Massimo Pica Ciamarra	
Mesosopic theory for systems with competing interactions near a confining wall (<i>13 pages</i>)	062607
A. Ciach	
Molecular dynamics study of a solvation motor in a Lennard-Jones solvent (<i>8 pages</i>)	062608
Ken Tokunaga and Ryo Akiyama	
Tuning the torque-speed characteristics of the bacterial flagellar motor to enhance swimming speed (<i>8 pages</i>)	062609
Praneet Prakash, Amith Z. Abdulla, Varsha Singh, and Manoj Varma	
Liquid Crystals	
Thermotropic liquid crystal (5CB) on two-dimensional materials (<i>7 pages</i>)	062701
Paul A. Brown, Sean A. Fischer, Jakub Kołacz, Christopher Spillmann, and Daniel Gunlycke	
☞ Temperature control of nematic trajectories (<i>7 pages</i>)	062702
Gaetano Assanto, Cassandra Khan, Armando Piccardi, and Noel F. Smyth	
Generalized van der Waals theory for phase behavior of two-dimensional nematic liquid crystals: Phase ordering and the equation of state (<i>8 pages</i>)	062703
María Virginia Zonta and Ezequiel Rodolfo Soulé	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 100, NUMBER 6

DECEMBER 2019

Active gel segment behaving as an active particle (<i>15 pages</i>)	062403
P. Recho, T. Putelat, and L. Truskinovsky	
RNA substructure as a random matrix ensemble (<i>7 pages</i>)	062404
Sang Kwan Choi, Chaiho Rim, and Hwajin Um	
Origin of lipid tilt in flat monolayers and bilayers (<i>10 pages</i>)	062405
Boris Kheyfets, Sergei Mukhin, and Timur Galimzyanov	
Unified mechanism of local drivers in a percolation model of atrial fibrillation (<i>18 pages</i>)	062406
Max Falkenberg, Andrew J. Ford, Anthony C. Li, Robert Lawrence, Alberto Ciacchi, Nicholas S. Peters, and Kim Christensen	
Cooperativity transitions driven by higher-order oligomer formations in ligand-induced receptor dimerization (<i>5 pages</i>)	062407
Masaki Watabe, Satya N. V. Arjunan, Wei Xiang Chew, Kazunari Kaizu, and Koichi Takahashi	
Importance of being cross-linked for the bacterial cell wall (<i>13 pages</i>)	062408
Garima Rani and Issan Patri	
Effect of heterogeneity and spatial correlations on the structure of a tumor invasion front in cellular environments (<i>10 pages</i>)	062409
Youness Azimzade, Abbas Ali Saberi, and Muhammad Sahimi	
Resonance-driven ion transport and selectivity in prokaryotic ion channels (<i>32 pages</i>)	062410
Ronald L. Westra	
Dynamic signature of ligand binding over a protein surface (<i>8 pages</i>)	062411
Sutapa Dutta, Mahua Ghosh, Rahul Karmakar, and J. Chakrabarti	
Response to perturbations as a built-in feature in a mathematical model for paced finger tapping (<i>12 pages</i>)	062412
Claudia R. González, M. Luz Bavassi, and Rodrigo Laje	
State-dependent mean-field formalism to model different activity states in conductance-based networks of spiking neurons (<i>10 pages</i>)	062413
Cristiano Capone, Matteo di Volo, Alberto Romagnoni, Maurizio Mattia, and Alain Destexhe	
Pattern formation induced by intraspecific interactions in a predator-prey system (<i>12 pages</i>)	062414
Luciano Stucchi, Javier Galeano, and Desiderio A. Vasquez	
Effect of visual and auditory sensing cues on collective behavior in Vicsek models (<i>8 pages</i>)	062415
Subhradeep Roy, Masoud Jahromi Shirazi, Benjamin Jantzen, and Nicole Abaid	
Oscillations and collective excitability in a model of stochastic neurons under excitatory and inhibitory coupling (<i>8 pages</i>)	062416
Italo'Ivo Lima Dias Pinto and Mauro Copelli	
Mechanical bidomain model of cardiac muscle with unequal anisotropy ratios (<i>11 pages</i>)	062417
Dilmini Wijesinghe and Bradley J. Roth	
Polymers	
Theoretical prediction of morphological selection in amphiphilic systems (<i>17 pages</i>)	062501
Karl Glasner	

(Continued)

Networks and Complex Systems

Rare-event properties of the Nagel-Schreckenberg model (<i>10 pages</i>)	062301
Wiebke Staffeldt and Alexander K. Hartmann	
Discrimination emerging through spontaneous symmetry breaking in a spatial prisoner's dilemma model with multiple labels (<i>8 pages</i>)	062302
Gorm Gruner Jensen, Frederik Tischel, and Stefan Bornholdt	
Markov chain approach to model intertemporal choices and coverages in air transport markets (<i>11 pages</i>)	062303
Daniel O. Cajueiro, Felipe N. Mundim, João I. F. Martins, Patricia A. M. Sakowski, and Roberto F. S. Andrade	
Customer mobility and congestion in supermarkets (<i>18 pages</i>)	062304
Fabian Ying, Alisdair O. G. Wallis, Mariano Beguerisse-Díaz, Mason A. Porter, and Sam D. Howison	
Concurrency and reachability in treelike temporal networks (<i>12 pages</i>)	062305
Eun Lee, Scott Emmons, Ryan Gibson, James Moody, and Peter J. Mucha	
Enhancing power grid synchronization and stability through time-delayed feedback control (<i>15 pages</i>)	062306
Halgurd Taher, Simona Olmi, and Eckehard Schöll	
Markov modeling via ordinal partitions: An alternative paradigm for network-based time-series analysis (<i>28 pages</i>)	062307
Konstantinos Sakellariou, Thomas Stemler, and Michael Small	
Markovian approach to tackle the interaction of simultaneous diseases (<i>10 pages</i>)	062308
D. Soriano-Paños, F. Ghanbarnejad, S. Meloni, and J. Gómez-Gardeñes	
Geometrical and spectral study of β -skeleton graphs (<i>8 pages</i>)	062309
L. Alonso, J. A. Méndez-Bermúdez, and Ernesto Estrada	
First encounters on combs (<i>8 pages</i>)	062310
Junhao Peng and Elena Agliari	
⌘ Percolation on branching simplicial and cell complexes and its relation to interdependent percolation (<i>15 pages</i>)	062311
Ginestra Bianconi, Ivan Kryven, and Robert M. Ziff	
Optimal short-term memory before the edge of chaos in driven random recurrent networks (<i>11 pages</i>)	062312
Taichi Haruna and Kohei Nakajima	
⌘ Lorentzian-geometry-based analysis of airplane boarding policies highlights “slow passengers first” as better (<i>22 pages</i>)	062313
Sveinung Erland, Jevgenijs Kaupužs, Vidar Frette, Rami Pugatch, and Eitan Bachmat	

PART B

Biological Physics

Control strategies for the timing of intracellular events (<i>12 pages</i>)	062401
Mengfang Cao, Baohua Qiu, Tianshou Zhou, and Jiajun Zhang	
Behavioral incentives in a vaccination-dilemma setting with optional treatment (<i>13 pages</i>)	062402
K. M. Ariful Kabir, Marko Jusup, and Jun Tanimoto	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 100, NUMBER 6

DECEMBER 2019

Langevin picture of Lévy walk in a constant force field (<i>10 pages</i>)	062141
Yao Chen, Xudong Wang, and Weihua Deng	
Estimation of parameters from time traces originating from an Ornstein-Uhlenbeck process (<i>11 pages</i>)	062142
Helmut H. Strey	
Kardar-Parisi-Zhang equation with temporally correlated noise: A nonperturbative renormalization group approach (<i>18 pages</i>)	062143
Davide Squizzato and Léonie Canet	
Analytical representation of Gaussian processes in the $\mathcal{A}$ - $\mathcal{T}$ plane (<i>12 pages</i>)	062144
Mariusz Tarnopolski	
Nonlinear Dynamics and Chaos	
Super-regular breathers in nonlinear systems with self-steepening effect (<i>8 pages</i>)	062201
Chong Liu and Nail Akhmediev	
Spontaneous and engineered transformations of topological structures in nonlinear media with gain and loss (<i>7 pages</i>)	062202
B. A. Kochetov, O. G. Chelpanova, V. R. Tuz, and A. I. Yakimenko	
Proper spatial heterogeneities expand the regime of scale-free behavior in a lattice of excitable elements (<i>11 pages</i>)	062203
Urban Marhl and Marko Gosak	
Synchronization route to weak chimera in four candle-flame oscillators (<i>6 pages</i>)	062204
Krishna Manoj, Samadhan A. Pawar, Suraj Dange, Sirshendu Mondal, R. I. Sujith, Elena Surovyatkina, and Jürgen Kurths	
Long-range donor-acceptor electron transport mediated by α helices (<i>13 pages</i>)	062205
L. S. Brizhik, J. Luo, B. M. A. G. Piette, and W. J. Zakrzewski	
Nonlinear dynamics of coupled transverse-rotational waves in granular chains (<i>17 pages</i>)	062206
Qicheng Zhang, Olga Umnova, and Rodolfo Venegas	
Chaotic advection and mixing by a pair of microrotors in a circular domain (<i>9 pages</i>)	062207
Phanindra Tallapragada and Senbagaraman Sudarsanam	
Statistical properties of the localization measure of chaotic eigenstates and the spectral statistics in a mixed-type billiard (<i>13 pages</i>)	062208
Benjamin Batistić, Črt Lozej, and Marko Robnik	
Propagation of modulated waves in narrow-bandpass one-dimensional lattices (<i>11 pages</i>)	062209
Serge Bruno Yamgoué, Bonaventure Nana, Guy Roger Deffo, and François Beceau Pelap	
Low-dimensional dynamics for higher-order harmonic, globally coupled phase-oscillator ensembles (<i>10 pages</i>)	062210
Chen Chris Gong and Arkady Pikovsky	
Two scenarios for the onset and suppression of collective oscillations in heterogeneous populations of active rotators (<i>12 pages</i>)	062211
Vladimir Klinshov and Igor Franović	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 100, NUMBER 6

DECEMBER 2019

Stochastic resonance for nonequilibrium systems (<i>8 pages</i>)	062124
Valerio Lucarini	
Statistical method for modeling Knudsen diffusion in nanopores (<i>7 pages</i>)	062125
Fenner Colson and D. A. Barlow	
Many-body correlations from integral geometry (<i>9 pages</i>)	062126
Joshua F. Robinson, Francesco Turci, Roland Roth, and C. Patrick Royall	
Analysis and data-driven reconstruction of bivariate jump-diffusion processes (<i>12 pages</i>)	062127
Leonardo Rydin Gorjão, Jan Heysel, Klaus Lehnertz, and M. Reza Rahimi Tabar	
Optimization induced by stability and the role of limited control near a steady state (<i>18 pages</i>)	062128
J. Gonzalez-Ayala, J. Guo, A. Medina, J. M. M. Roco, and A. Calvo Hernández	
Unusual geometric percolation of hard nanorods in the uniaxial nematic liquid crystalline phase (<i>13 pages</i>)	062129
Shari P. Finner, Arshia Atashpendar, Tanja Schilling, and Paul van der Schoot	
Renormalization group crossover in the critical dynamics of field theories with mode coupling terms (<i>29 pages</i>)	062130
Andrea Cavagna, Luca Di Carlo, Irene Giardina, Luca Grandinetti, Tomas S. Grigera, and Giulia Pisegna	
Vibrational density of states and specific heat in glasses from random matrix theory (<i>7 pages</i>)	062131
M. Baggioli, R. Milkus, and A. Zaccone	
Thermodynamic uncertainty relation for underdamped Langevin systems driven by a velocity-dependent force (<i>10 pages</i>)	062132
Jae Sung Lee, Jong-Min Park, and Hyunggyu Park	
Discrete hydrodynamics near solid walls: Non-Markovian effects and the slip boundary condition (<i>24 pages</i>)	062133
D. Duque-Zumajo, J. A. de la Torre, Diego Camargo, and Pep Español	
Entanglement and matrix elements of observables in interacting integrable systems (<i>11 pages</i>)	062134
Tyler LeBlond, Krishnanand Mallayya, Lev Vidmar, and Marcos Rigol	
Equivalence between four versions of thermostatics based on strongly pseudoadditive entropies (<i>10 pages</i>)	062135
Velimir M. Ilić, Antonio Maria Scarfone, and Tatsuaki Wada	
Approaching the Kosterlitz-Thouless transition for the classical XY model with tensor networks (<i>14 pages</i>)	062136
Laurens Vanderstraeten, Bram Vanhecke, Andreas M. Läuchli, and Frank Verstraete	
Thermal state entanglement entropy on a quantum graph (<i>7 pages</i>)	062137
Alberto D. Verga and Ricardo Gabriel Elías	
Divergence of the Floquet-Magnus expansion in a periodically driven one-body system with energy localization (<i>12 pages</i>)	062138
Taiki Haga	
Incompatibility probability of random quantum measurements (<i>7 pages</i>)	062139
Lin Zhang, Hua Xiang, Xianqing Li-Jost, and Shao-Ming Fei	
Achieve higher efficiency at maximum power with finite-time quantum Otto cycle (<i>11 pages</i>)	062140
Jin-Fu Chen, Chang-Pu Sun, and Hui Dong	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 100, NUMBER 6

DECEMBER 2019

Symmetry and its breaking in a path-integral approach to quantum Brownian motion (<i>16 pages</i>)	062107
Joonhyun Yeo	
Dipole-assisted thermotics: Experimental demonstration of dipole-driven thermal invisibility (<i>9 pages</i>)	062108
Liujun Xu, Shuai Yang, and Jiping Huang	
Redefinition of site percolation in light of entropy and the second law of thermodynamics (<i>7 pages</i>)	062109
M. S. Rahman and M. K. Hassan	
Probability distribution of the boundary local time of reflected Brownian motion in Euclidean domains (<i>14 pages</i>)	062110
Denis S. Grebenkov	
Density dependence of the dynamical processes governing the velocity autocorrelation function of a quantum fluid (<i>9 pages</i>)	062111
Eleonora Guarini, Martin Neumann, Stefano Bellissima, Daniele Colognesi, and Ubaldo Bafle	
Cooling condition for multilevel quantum absorption refrigerators (<i>11 pages</i>)	062112
Hava Meira Friedman and Dvira Segal	
Advection improves homogenized models of continuum diffusion in one-dimensional heterogeneous media (<i>7 pages</i>)	062113
Elliot J. Carr	
Linear impurity modes in an electrical lattice: Theory and experiment (<i>9 pages</i>)	062114
M. I. Molina, L. Q. English, Ming-Hua Chang, and P. G. Kevrekidis	
Influence of the number of orientational domains on avalanche criticality in ferroelastic transitions (<i>14 pages</i>)	062115
Marcel Porta, Teresa Castán, Avadh Saxena, and Antoni Planes	
Long-time position distribution of an active Brownian particle in two dimensions (<i>15 pages</i>)	062116
Urna Basu, Satya N. Majumdar, Alberto Rosso, and Grégory Schehr	
Computation of the dynamic critical exponent of the three-dimensional Heisenberg model (<i>9 pages</i>)	062117
A. Astillero and J. J. Ruiz-Lorenzo	
Universality of continuous phase transitions on random Voronoi graphs (<i>10 pages</i>)	062118
Manuel Schrauth and Jefferson S. E. Portela	
Computing characteristic functions of quantum work in phase space (<i>10 pages</i>)	062119
Yixiao Qian and Fei Liu	
Shock waves from the inhomogeneous Boltzmann equation (<i>4 pages</i>)	062120
Yves Pomeau and Minh-Binh Tran	
Diffusion-controlled coalescence, fragmentation, and collapse of d -dimensional A -particle islands in the B -particle sea (<i>21 pages</i>)	062121
Boris M. Shipilevsky	
Transverse temperature interfaces in the Katz-Lebowitz-Spohn driven lattice gas (<i>13 pages</i>)	062122
Ruslan I. Mukhamadiarov, Priyanka, and Uwe C. Täuber	
Oscillations in feedback-driven systems: Thermodynamics and noise (<i>10 pages</i>)	062123
Daniele De Martino and Andre C. Barato	

(Continued)

Colloids, Complex Fluids, and Active Matter

- Translational and rotational dynamics of colloidal particles interacting through reacting linkers (*6 pages*) 060601(R)
 Pritam Kumar Jana and Bortolo Matteo Mognetti
- Elementary plastic events in amorphous silica (*5 pages*) 060602(R)
 Silvia Bonfanti, Roberto Guerra, Chandana Mondal, Itamar Procaccia, and Stefano Zapperi

Fluid Dynamics

- Application of the stochastic closure theory to the Townsend-Perry constants (*5 pages*) 061101(R)
 John Kaminsky, Joe Klewicki, and Björn Birnir
- Acoustic radiation force acting on a heavy particle in a standing wave can be dominated by the acoustic microstreaming (*5 pages*) 061102(R)
 Thierry Baasch, Alen Pavlic, and Jürg Dual

Plasma Physics

- Nonlinear dynamics of laser-generated ion-plasma gratings: A unified description (*5 pages*) 061201(R)
 H. Peng, C. Riconda, M. Grech, J.-Q. Su, and S. Weber

Computational Physics

- From early nucleation past the percolation threshold: Status of the Kolmogorov-Avrami theory on a cold Ising lattice (*5 pages*) 061301(R)
 Vitaly A. Shneidman
- Spontaneous shrinkage of droplet on a wetting surface in the phase-field model (*6 pages*) 061302(R)
 Chunhua Zhang and Zhaoli Guo

ARTICLES

Statistical Physics

- Statistical mechanics of the minimum vertex cover problem in stochastic block models (*9 pages*) 062101
 Masato Suzuki and Yoshiyuki Kabashima
- Non-Markovian harmonic oscillator across a magnetic field and time-dependent force fields (*16 pages*) 062102
 J. C. Hidalgo-Gonzalez and J. I. Jiménez-Aquino
- Instabilities of time-averaged configurations in thermal glasses (*7 pages*) 062103
 Prasenjit Das, Valery Ilyin, and Itamar Procaccia
- Energy and spin diffusion in the one-dimensional classical Heisenberg spin chain at finite and infinite temperatures (*6 pages*) 062104
 Nianbei Li
- Discrete Eulerian model for population genetics and dynamics under flow (*8 pages*) 062105
 Giorgia Guccione, Roberto Benzi, Abigail Plummer, and Federico Toschi
- Universality of power-law exponents by means of maximum-likelihood estimation (*14 pages*) 062106
 Víctor Navas-Portella, Álvaro González, Isabel Serra, Eduard Vives, and Álvaro Corral

(Continued)

*The Table of Contents is a total listing of Parts A and B.
Part A consists of pages 060101(R)–062313, and Part B pages 062401–069901(E).*

PART A

RAPID COMMUNICATIONS

Statistical Physics

- Two-dimensional super-roughening in the three-dimensional Ising model (*5 pages*) 060101(R)
Hor Dashti-Naserabadi, Abbas Ali Saberi, S. H. E. Rahbari, and Hyunggyu Park
- Hyperaccurate currents in stochastic thermodynamics (*5 pages*) 060102(R)
Daniel Maria Busiello and Simone Pigolotti
- Microscopic reweighting for nonequilibrium steady-state dynamics (*6 pages*) 060103(R)
Marius Bause, Timon Wittenstein, Kurt Kremer, and Tristan Bereau
- Vortex-loop calculation of the specific heat of superfluid ^4He under pressure (*6 pages*) 060104(R)
Andrew Forrester and Gary A. Williams
- Classical stochastic discrete time crystals (*6 pages*) 060105(R)
F. M. Gambetta, F. Carollo, A. Lazarides, I. Lesanovsky, and J. P. Garrahan

Nonlinear Dynamics and Chaos

- Nonmonotonic diffusion rates in an atom-optics Lévy kicked rotor (*5 pages*) 060201(R)
Sanku Paul, Sumit Sarkar, Chetan Vishwakarma, Jay Mangaonkar, M. S. Santhanam, and Umakant Rapol
- Stochastic resonance via parametric adaptation: Experiments and numerics (*5 pages*) 060202(R)
Ishant Tiwari, J. M. Cruz, P. Parmananda, and M. Rivera

Biological Physics

- Chromatin state switching in a polymer model with mark-conformation coupling (*6 pages*) 060401(R)
Kyosuke Adachi and Kyogo Kawaguchi
- Fredholm theory for the mean first-passage time of integrate-and-fire oscillators with colored noise input (*5 pages*) 060402(R)
Carl van Vreeswijk and Farzad Farkhooi

