

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 91, NUMBER 4

JANUARY 2015-15(II)

Adsorption and STM imaging of polycyclic aromatic hydrocarbons on graphene (<i>8 pages</i>)	045427
Y. J. Dappe, M. Andersen, R. Balog, L. Hornekær, and X. Bouju	
Image potential states at chevron-shaped graphene nanoribbons /Au(111) interfaces (<i>7 pages</i>)	045428
Christopher Bronner, Anton Haase, and Petra Tegeder	
Electronic band dispersion of graphene nanoribbons via Fourier-transformed scanning tunneling spectroscopy (<i>6 pages</i>)	045429
Hajo Söde, Leopold Talirz, Oliver Gröning, Carlo Antonio Pignedoli, Reinhard Berger, Xinliang Feng, Klaus Müllen, Roman Fasel, and Pascal Ruffieux	
Thermopower of three-terminal topological superconducting systems (<i>9 pages</i>)	045430
Stefano Valentini, Rosario Fazio, Vittorio Giovannetti, and Fabio Taddei	
Shape-sensitive Pauli blockade in a bent carbon nanotube (<i>8 pages</i>)	045431
Gábor Széchenyi and András Pályi	
Spin-orbit interaction and Dirac cones in <i>d</i> -orbital noble metal surface states (<i>9 pages</i>)	045432
Ryan Requist, Polina M. Sheverdyaeva, Paolo Moras, Sanjoy K. Mahatha, Carlo Carbone, and Erio Tosatti	
Native point defects in few-layer phosphorene (<i>9 pages</i>)	045433
V. Wang, Y. Kawazoe, and W. T. Geng	
Origin of the moiré pattern in thin Bi films deposited on HOPG (<i>12 pages</i>)	045434
P. J. Kowalczyk, O. Mahapatra, D. Belić, S. A. Brown, G. Bian, and T.-C. Chiang	
Impurities and electronic localization in graphene bilayers (<i>7 pages</i>)	045435
H. P. Ojeda Collado, Gonzalo Usaj, and C. A. Balseiro	
Particle-resolved dynamics during multilayer growth of C ₆₀ (<i>10 pages</i>)	045436
Nicola Kleppmann and Sabine H. L. Klapp	
Photoresponse of a two-dimensional electron gas at the second harmonic of the cyclotron resonance (<i>5 pages</i>) . . .	045437
M. Białek, J. Łusakowski, M. Czapkiewicz, J. Wróbel, and V. Umansky	
Conditions for quantized anisotropic magnetoresistance (<i>5 pages</i>)	045438
Chen Hu, Jiao Teng, Guanghua Yu, Wengang Lu, and Wei Ji	
Graphene in ultrafast and superstrong laser fields (<i>8 pages</i>)	045439
Hamed Koochaki Kelardeh, Vadym Apalkov, and Mark I. Stockman	
Intramolecularly resolved Kondo resonance of high-spin Fe(II)-porphyrin adsorbed on Au(111) (<i>7 pages</i>)	045440
Weihua Wang, Rui Pang, Guowen Kuang, Xingqiang Shi, Xuesong Shang, Pei Nian Liu, and Nian Lin	
Shiba states and zero-bias anomalies in the hybrid normal-superconductor Anderson model (<i>18 pages</i>)	045441
Rok Žitko, Jong Soo Lim, Rosa López, and Ramón Aguado	
Hybrid quantum dot–superconducting systems: Josephson current and Kondo effect in the narrow-band limit (<i>11 pages</i>)	045442
R. Allub and C. R. Proetto	

Comparison of hydrodynamic model of graphene with recent experiment on measuring the Casimir interaction (5 pages)	045412
G. L. Klimchitskaya and V. M. Mostepanenko	
Graphene ripples as a realization of a two-dimensional Ising model: A scanning tunneling microscope study (6 pages)	045413
J. K. Schoelz, P. Xu, V. Meunier, P. Kumar, M. Neek-Amal, P. M. Thibado, and F. M. Peeters	
Raman scattering and electrical resistance of highly disordered graphene (4 pages)	045414
I. Shlimak, A. Haran, E. Zion, T. Havdala, Yu. Kaganovskii, A. V. Butenko, L. Wolfson, V. Richter, D. Naveh, A. Sharoni, E. Kogan, and M. Kaveh	
Melting temperature of graphene (6 pages)	045415
J. H. Los, K. V. Zakharchenko, M. I. Katsnelson, and Annalisa Fasolino	
Effective Hamiltonian for electron waves in artificial graphene: A first-principles derivation (16 pages)	045416
Sylvain Lannebère and Mário G. Silveirinha	
Diamond nanowires with nitrogen vacancy under a transverse electric field (7 pages)	045417
Jihua Zhang, J. X. Cao, Xiaoyuan Chen, J. W. Ding, Peihong Zhang, and Wei Ren	
 π -plasmon dispersion in free-standing graphene by momentum-resolved electron energy-loss spectroscopy (7 pages)	045418
S. C. Liou, C.-S. Shie, C. H. Chen, R. Breitwieser, W. W. Pai, G. Y. Guo, and M.-W. Chu	
Conductance of a finite Kitaev chain (9 pages)	045419
R. J. Doornenbal, G. Skantzaros, and H. T. C. Stoof	
Modeling Klein tunneling and caustics of electron waves in graphene (13 pages)	045420
R. Logemann, K. J. A. Reijnders, T. Tudorovskiy, M. I. Katsnelson, and Shengjun Yuan	
Spin-boson theory for charge photogeneration in organic molecules: Role of quantum coherence (8 pages)	045421
Yao Yao	
Magnetoconductance signatures of subband structure in semiconductor nanowires (7 pages)	045422
Gregory W. Holloway, Daryoush Shiri, Chris M. Haapamaki, Kyle Willick, Grant Watson, Ray R. LaPierre, and Jonathan Baugh	
Scanning tunneling spectroscopy study of quasiparticle interference on the dual topological insulator $\text{Bi}_{1-x}\text{Sb}_x$ (6 pages)	045423
Shunsuke Yoshizawa, Fumitaka Nakamura, Alexey A. Taskin, Takushi Iimori, Kan Nakatsuji, Iwao Matsuda, Yoichi Ando, and Fumio Komori	
Discrete solitons in graphene metamaterials (8 pages)	045424
Yu. V. Bludov, D. A. Smirnova, Yu. S. Kivshar, N. M. R. Peres, and M. I. Vasilevskiy	
Self-doping and magnetic ordering induced by extended line defects in graphene (7 pages)	045425
Ji-Chang Ren, Zejun Ding, Rui-Qin Zhang, and Michel A. Van Hove	
Cu_2S_3 complex on Cu(111) as a candidate for mass transport enhancement (7 pages)	045426
Holly Walen, Da-Jiang Liu, Junepyo Oh, Hyunseob Lim, J. W. Evans, Christine M. Aikens, Yousoo Kim, and P. A. Thiel	

(Continued)

Experimental verification of loss-induced field enhancement and collimation in anisotropic μ -near-zero metamaterials (5 pages)	045302
Haitao Jiang, Weiwei Liu, Kun Yu, Kai Fang, Yong Sun, Yunhui Li, and Hong Chen	
Sharp interface model for solid-state dewetting problems with weakly anisotropic surface energies (13 pages) . . .	045303
Yan Wang, Wei Jiang, Weizhu Bao, and David J. Srolovitz	
Transport and thermoelectric properties of the $\text{LaAlO}_3/\text{SrTiO}_3$ interface (6 pages)	045304
A. Jost, V. K. Guduru, S. Wiedmann, J. C. Maan, U. Zeitler, S. Wenderich, A. Brinkman, and H. Hilgenkamp	
Controllable structuring of exciton-polariton condensates in cylindrical pillar microcavities (9 pages)	045305
V. K. Kalevich, M. M. Afanasiev, V. A. Lukoshkin, D. D. Solnyshkov, G. Malpuech, K. V. Kavokin, S. I. Tsintzos, Z. Hatzopoulos, P. G. Savvidis, and A. V. Kavokin	
Optical spin orientation of an individual Mn^{2+} ion in a CdSe/ZnSe quantum dot (5 pages)	045306
T. Smoleński, W. Pacuski, M. Goryca, M. Nawrocki, A. Golnik, and P. Kossacki	
Surface physics, nanoscale physics, low-dimensional systems	
Quantum phase transition and Fermi liquid behavior in $\text{Pd}_{1-x}\text{Ni}_x$ nanoalloys (9 pages)	045401
P. Swain, Suneel K. Srivastava, and Sanjeev K. Srivastava	
Core-level spectra from graphene (9 pages)	045402
Bo E. Sernelius	
Detecting Majorana modes in one-dimensional wires by charge sensing (11 pages)	045403
Gilad Ben-Shach, Arbel Haim, Ian Appelbaum, Yuval Oreg, Amir Yacoby, and Bertrand I. Halperin	
Valley-polarized quantum anomalous Hall phase and disorder-induced valley-filtered chiral edge channels (10 pages)	045404
Hui Pan, Xin Li, Hua Jiang, Yugui Yao, and Shengyuan A. Yang	
Tracking electron pathways with magnetic field: Aperiodic Aharonov-Bohm oscillations in coherent transport through a periodic array of quantum dots (4 pages)	045405
L. S. Petrosyan and T. V. Shahbazyan	
Origin of coherent G -band phonon spectra in single-wall carbon nanotubes (6 pages)	045406
A. R. T. Nugraha, E. H. Hasdeo, G. D. Sanders, C. J. Stanton, and R. Saito	
Spin Hall effect by surface roughness (6 pages)	045407
Lingjun Zhou, Vahram L. Grigoryan, Sadamichi Maekawa, Xuhui Wang, and Jiang Xiao (萧江)	
Atomistic mechanisms for bilayer growth of graphene on metal substrates (6 pages)	045408
Wei Chen, Ping Cui, Wenguang Zhu, Efthimios Kaxiras, Yanfei Gao, and Zhenyu Zhang	
Resonant longitudinal <i>Zitterbewegung</i> in zigzag graphene nanoribbons (5 pages)	045409
S. Ghosh, U. Schwingenschlögl, and A. Manchon	
Thermoelectric transport through a quantum nanoelectromechanical system and its backaction (9 pages)	045410
Hangbo Zhou, Juzar Thingna, Jian-Sheng Wang, and Baowen Li	
Electromechanical response at polar zigzag boundaries in hybrid monolayers (6 pages)	045411
Rafael Martinez-Gordillo and Miguel Pruneda	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 91, NUMBER 4

JANUARY 2015-15(II)

Quantum quench in long-range field theories (<i>13 pages</i>)	045131
M. A. Rajabpour and S. Sotiriadis	
Prediction of phonon-mediated high-temperature superconductivity in $\text{Li}_3\text{B}_4\text{C}_2$ (<i>7 pages</i>)	045132
Miao Gao, Zhong-Yi Lu, and Tao Xiang	
Spin-orbit coupling, strong correlation, and insulator-metal transitions: The $J_{\text{eff}} = \frac{3}{2}$ ferromagnetic Dirac-Mott insulator $\text{Ba}_2\text{NaOsO}_6$ (<i>9 pages</i>)	045133
Shruba Gangopadhyay and Warren E. Pickett	
Walker-Wang models and axion electrodynamics (<i>23 pages</i>)	045134
C. W. von Keyserlingk and F. J. Burnell	
Multiconfiguration time-dependent Hartree impurity solver for nonequilibrium dynamical mean-field theory (<i>11 pages</i>)	045136
Karsten Balzer, Zheng Li, Oriol Vendrell, and Martin Eckstein	
Spin and charge dynamics of a quasi-one-dimensional antiferromagnetic metal (<i>14 pages</i>)	045137
Marcin Raczkowski, Fakher F. Assaad, and Lode Pollet	
Approximating Gibbs states of local Hamiltonians efficiently with projected entangled pair states (<i>11 pages</i>)	045138
Andras Molnar, Norbert Schuch, Frank Verstraete, and J. Ignacio Cirac	
Insights into the structure of many-electron wave functions of Mott-insulating antiferromagnets: The three-band Hubbard model in full configuration interaction quantum Monte Carlo (<i>5 pages</i>)	045139
Lauretta R. Schwarz, George H. Booth, and Ali Alavi	
Universal electric current of interacting resonant-level models with asymmetric interactions: An extension of the Landauer formula (<i>11 pages</i>)	045140
Akinori Nishino, Naomichi Hatano, and Gonzalo Ordóñez	
Semiconductors I: bulk	
⚡ Ultrafast scattering processes of hot electrons in InSb studied by time- and angle-resolved photoemission spectroscopy (<i>16 pages</i>)	045201
H. Tanimura, J. Kanasaki, and K. Tanimura	
Spin injection from a ferromagnet into a semiconductor in the case of a rough interface (<i>9 pages</i>)	045202
R. C. Roundy and M. E. Raikh	
Light-matter interaction and lasing in semiconductor nanowires: A combined finite-difference time-domain and semiconductor Bloch equation approach (<i>7 pages</i>)	045203
Robert Buschlinger, Michael Lorke, and Ulf Peschel	
Strain sensitivity of band gaps of Sn-containing semiconductors (<i>6 pages</i>)	045204
Hong Li, Ivano E. Castelli, Kristian S. Thygesen, and Karsten W. Jacobsen	
Nuclear relaxation measurements in organic semiconducting polymers for application to organic spintronics (<i>8 pages</i>)	045205
E. F. Thenell, M. E. Limes, E. G. Sorte, Z. V. Vardeny, and B. Saam	
Semiconductors II: surfaces, interfaces, microstructures, and related topics	
Temporal coherence of one-dimensional nonequilibrium quantum fluids (<i>6 pages</i>)	045301
Kai Ji, Vladimir N. Gladilin, and Michiel Wouters	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 91, NUMBER 4

JANUARY 2015-15(II)

Magnetic ordering at anomalously high temperatures in Dy at extreme pressures (<i>8 pages</i>)	045116
J. Lim, G. Fabbris, D. Haskell, and J. S. Schilling	
Resonating valence-bond state in an orbitally degenerate quantum magnet with dynamical Jahn-Teller effect (<i>8 pages</i>)	045117
Joji Nasu and Sumio Ishihara	
Microscopic electronic wave function and interactions between quasiparticles in empirical tight-binding theory (<i>9 pages</i>)	045118
R. Benchamekh, F. Raouafi, J. Even, F. Ben Cheikh Larbi, P. Voisin, and J.-M. Jancu	
First-order directional ordering transition in the three-dimensional compass model (<i>8 pages</i>)	045119
Max H. Gerlach and Wolfhard Janke	
Correlated starting points for the functional renormalization group (<i>11 pages</i>)	045120
N. Wentzell, C. Taranto, A. Katanin, A. Toschi, and S. Andergassen	
Comparative density-matrix renormalization group study of symmetry-protected topological phases in spin-1 chain and Bose-Hubbard models (<i>9 pages</i>)	045121
Satoshi Ejima and Holger Fehske	
Cellular dynamical mean-field theory study of an interacting topological honeycomb lattice model at finite temperature (<i>8 pages</i>)	045122
Yao-Hua Chen, Hsiang-Hsuan Hung, Guoxiong Su, Gregory A. Fiete, and C. S. Ting	
Nanophotonic hybridization of narrow atomic cesium resonances and photonic stop gaps of opaline nanostructures (<i>7 pages</i>)	045123
Philip J. Harding, Pepijn W. H. Pinkse, Allard P. Mosk, and Willem L. Vos	
Single-point kinetic energy density functionals: A pointwise kinetic energy density analysis and numerical convergence investigation (<i>15 pages</i>)	045124
Junchao Xia and Emily A. Carter	
Chemical tuning of electrical transport in $\text{Ti}_{1-x}\text{Pt}_x\text{Se}_{2-y}$ (<i>7 pages</i>)	045125
Justin S. Chen, Jiakui K. Wang, Scott V. Carr, Sven C. Vogel, Olivier Gourdon, Pengcheng Dai, and E. Morosan	
Characterization of quasiholes in fractional Chern insulators (<i>8 pages</i>)	045126
Zhao Liu, R. N. Bhatt, and Nicolas Regnault	
Photocurrent readout and electro-optical tuning of resonantly excited exciton polaritons in a trap (<i>5 pages</i>)	045127
K. Winkler, P. Gold, B. Bradel, S. Reitzenstein, V. D. Kulakovskii, M. Kamp, C. Schneider, and S. Höfling	
Interaction quench in the Holstein model: Thermalization crossover from electron- to phonon-dominated relaxation (<i>13 pages</i>)	045128
Yuta Murakami, Philipp Werner, Naoto Tsuji, and Hideo Aoki	
Experimental study of electron-phonon coupling and electron internal thermalization in epitaxially grown ultrathin copper films (<i>10 pages</i>)	045129
Xiaohan Shen, Yukta P. Timalisina, Toh-Ming Lu, and Masashi Yamaguchi	
Scattering of two-dimensional Dirac fermions on gate-defined oscillating quantum dots (<i>6 pages</i>)	045130
C. Schulz, R. L. Heinisch, and H. Fehske	

(Continued)

ARTICLES

Electronic structure and strongly correlated systems

- Striped critical spin liquid in a spin-orbital entangled RVB state in a projected entangled-pair state representation (*9 pages*) 045101
Piotr Czarnik and Jacek Dziarmaga
- Quasiparticle excitations in the photoemission spectrum of CuO from first principles: A *GW* study (*13 pages*) . . . 045102
Claudia Rödl, Francesco Sottile, and Lucia Reining
- First-principles simulations and shock Hugoniot calculations of warm dense neon (*8 pages*) 045103
K. P. Driver and B. Militzer
- Optical and transport measurement and first-principles determination of the ScN band gap (*12 pages*) 045104
Ruopeng Deng, B. D. Ozsdolay, P. Y. Zheng, S. V. Khare, and D. Gall
- Thermopower in the quadruple perovskite ruthenates (*5 pages*) 045106
S. Hébert, R. Daou, and A. Maignan
- First-principles study of magnetic frustration in FeSe epitaxial films on SrTiO₃ (*8 pages*) 045107
Kai Liu, Bing-Jing Zhang, and Zhong-Yi Lu
- Interplay between antiferrodistortive, ferroelectric, and superconducting instabilities in Sr_{1-x}Ca_xTiO_{3-δ} (*9 pages*) 045108
B. S. de Lima, M. S. da Luz, F. S. Oliveira, L. M. S. Alves, C. A. M. dos Santos, F. Jomard, Y. Sidis, P. Bourges, S. Harms, C. P. Grams, J. Hemberger, X. Lin, B. Fauqué, and K. Behnia
- Phase diagram of fractional quantum Hall effect of composite fermions in multicomponent systems (*25 pages*) 045109
Ajit C. Balram, Csaba Tóke, A. Wójs, and J. K. Jain
- Quantum criticality in two dimensions and marginal Fermi liquid (*8 pages*) 045110
K. B. Efetov
- Nonperiodic metallic gratings transparent for broadband terahertz waves (*9 pages*) 045111
Xiao-Ping Ren, Ren-Hao Fan, Ru-Wen Peng, Xian-Rong Huang, Di-Hu Xu, Yu Zhou, and Mu Wang
- Significant contribution of As 4*p* orbitals to the low-lying electronic structure of the 112-type iron-based superconductor Ca_{0.9}La_{0.1}FeAs₂ (*8 pages*) 045112
M. Y. Li, Z. T. Liu, W. Zhou, H. F. Yang, D. W. Shen, W. Li, J. Jiang, X. H. Niu, B. P. Xie, Y. Sun, C. C. Fan, Q. Yao, J. S. Liu, Z. X. Shi, and X. M. Xie
- $\nu = 1/2$ fractional quantum Hall effect in tilted magnetic fields (*5 pages*) 045113
S. Hasdemir, Yang Liu, H. Deng, M. Shayegan, L. N. Pfeiffer, K. W. West, K. W. Baldwin, and R. Winkler
- Probing two- and three-dimensional electrons in MgB₂ with soft x-ray angle-resolved photoemission (*6 pages*) 045114
Y. Sassa, M. Månsson, M. Kobayashi, O. Götberg, V. N. Strocov, T. Schmitt, N. D. Zhigadlo, O. Tjernberg, and B. Batlogg
-  Infinite density matrix renormalization group for multicomponent quantum Hall systems (*12 pages*) 045115
Michael P. Zaletel, Roger S. K. Mong, Frank Pollmann, and Edward H. Rezayi

(Continued)

Effectiveness of organic molecules for spin filtering in an organic spin valve: Reaction-induced spin polarization for Co atop Alq ₃ (7 pages)	041204(R)
Tu-Ngoc Lam, Yu-Ling Lai, Chih-Han Chen, Po-Hung Chen, Yuet-Loy Chan, Der-Hsin Wei, Hong-Ji Lin, C. T. Chen, Jeng-Han Wang, Jeng-Tzong Sheu, and Yao-Jane Hsu	
Semiconductors II: surfaces, interfaces, microstructures, and related topics	
Fractional quantum Hall effect at Landau level filling $\nu = 4/11$ (4 pages)	041301(R)
W. Pan, K. W. Baldwin, K. W. West, L. N. Pfeiffer, and D. C. Tsui	
 Probing the spatial electron distribution in InAs nanowires by anisotropic magnetoconductance fluctuations (5 pages)	041302(R)
T. S. Jespersen, J. R. Hauptmann, C. B. Sørensen, and J. Nygård	
Functionalized bismuth films: Giant gap quantum spin Hall and valley-polarized quantum anomalous Hall states (5 pages)	041303(R)
Chengwang Niu, Gustav Bihlmayer, Hongbin Zhang, Daniel Wortmann, Stefan Blügel, and Yuriy Mokrousov	
Surface physics, nanoscale physics, low-dimensional systems	
Experimental evidence and control of the bulk-mediated intersurface coupling in topological insulator Bi ₂ Te ₂ Se nanoribbons (6 pages)	041401(R)
Zhaoguo Li, Ion Garate, Jian Pan, Xiangang Wan, Taishi Chen, Wei Ning, Xiaou Zhang, Fengqi Song, Yuze Meng, Xiaochen Hong, Xuefeng Wang, Li Pi, Xinran Wang, Baigeng Wang, Shiyan Li, Mark A. Reed, Leonid Glazman, and Guanghou Wang	
Kaleidoscope of symmetry-protected topological phases in one-dimensional periodically modulated lattices (5 pages)	041402(R)
Huaiming Guo and Shu Chen	
Thermal hyperconductivity: Radiative energy transport in hyperbolic media (4 pages)	041403(R)
J. Liu and E. Narimanov	
Probing of valley polarization in graphene via optical second-harmonic generation (4 pages)	041404(R)
T. O. Wehling, A. Huber, A. I. Lichtenstein, and M. I. Katsnelson	
Highly unconventional surface reconstruction of Na ₂ IrO ₃ with persistent energy gap (4 pages)	041405(R)
F. Lüpke, S. Manni, S. C. Erwin, I. I. Mazin, P. Gegenwart, and M. Wenderoth	
Disorder and screening in decoupled graphene on a metallic substrate (5 pages)	041406(R)
S. C. Martin, S. Samaddar, B. Sacépé, A. Kimouche, J. Coraux, F. Fuchs, B. Grévin, H. Courtois, and C. B. Winkelmann	
 Layer-dependent electronic structure of an atomically heavy two-dimensional dichalcogenide (6 pages)	041407(R)
Po-Chun Yeh, Wencan Jin, Nader Zaki, Datong Zhang, Jonathan T. Liou, Jerzy T. Sadowski, Abdullah Al-Mahboob, Jerry I. Dadap, Irving P. Herman, Peter Sutter, and Richard M. Osgood, Jr.	
Creation and amplification of electromagnon solitons by electric field in nanostructured multiferroics (5 pages)	041408(R)
R. Khomeriki, L. Chotorlishvili, B. A. Malomed, and J. Berakdar	
Even-odd flux quanta effect in the Fraunhofer oscillations of an edge-channel Josephson junction (5 pages)	041409(R)
B. Baxevanis, V. P. Ostroukh, and C. W. J. Beenakker	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 91, NUMBER 4

JANUARY 2015-15(II)

Large anisotropic thermal conductivity of the intrinsically two-dimensional metallic oxide PdCoO_2 (5 pages)	041113(R)
Ramzy Daou, Raymond Frésard, Sylvie Hébert, and Antoine Maignan	
Lie algebraic similarity transformed Hamiltonians for lattice model systems (5 pages)	041114(R)
Jacob M. Wahlen-Strothman, Carlos A. Jiménez-Hoyos, Thomas M. Henderson, and Gustavo E. Scuseria	
Optimal suppression of defect generation during a passage across a quantum critical point (5 pages)	041115(R)
Ning Wu, Arun Nanduri, and Herschel Rabitz	
Unfolding spinor wave functions and expectation values of general operators: Introducing the unfolding-density operator (5 pages)	041116(R)
Paulo V. C. Medeiros, Stepan S. Tsirkin, Sven Stafström, and Jonas Björk	
Local Kondo temperatures in atomic chains (5 pages)	041117(R)
R. R. Agundez, J. Salfi, S. Rogge, and M. Blaauboer	
 Theory of lasing action in plasmonic crystals (5 pages)	041118(R)
J. Cuerda, F. Rüting, F. J. García-Vidal, and J. Bravo-Abad	
Fractional topological phases in generalized Hofstadter bands with arbitrary Chern numbers (5 pages)	041119(R)
Ying-Hai Wu, J. K. Jain, and Kai Sun	
Gradient-dependent upper bound for the exchange-correlation energy and application to density functional theory (6 pages)	041120(R)
Lucian A. Constantin, Aleksandrs Terentjevs, Fabio Della Sala, and Eduardo Fabiano	
Spin and orbital magnetic response on the surface of a topological insulator (5 pages)	041121(R)
Yaroslav Tserkovnyak, D. A. Pesin, and Daniel Loss	
Discretized topological Hall effect emerging from skyrmions in constricted geometry (5 pages)	041122(R)
N. Kanazawa, M. Kubota, A. Tsukazaki, Y. Kozuka, K. S. Takahashi, M. Kawasaki, M. Ichikawa, F. Kagawa, and Y. Tokura	
Mott transition in granular aluminum (5 pages)	041123(R)
N. Bachar, S. Lerer, A. Levy, S. Hacoen-Gourgy, B. Almog, H. Saadaoui, Z. Salman, E. Morenzoni, and G. Deutscher	
Variational Monte Carlo study of a chiral spin liquid in the extended Heisenberg model on the kagome lattice (5 pages)	041124(R)
Wen-Jun Hu, Wei Zhu, Yi Zhang, Shoushu Gong, Federico Becca, and D. N. Sheng	
Semiconductors I: bulk	
From two-dimensional electron gas to localized charge: Dynamics of polaron formation in organic semiconductors (5 pages)	041201(R)
Ti Wang, Claudiu Caraiiani, G. William Burg, and Wai-Lun Chan	
Parametric relaxation in whispering gallery mode exciton-polariton condensates (6 pages)	041202(R)
C. P. Dietrich, R. John, T. Michalsky, C. Sturm, P. Eastham, H. Franke, M. Lange, M. Grundmann, and R. Schmidt-Grund	
Large linear magnetoresistance in the Dirac semimetal TlBiSSe (5 pages)	041203(R)
Mario Novak, Satoshi Sasaki, Kouji Segawa, and Yoichi Ando	

(Continued)

RAPID COMMUNICATIONS

Electronic structure and strongly correlated systems

- ☞ Phase-change memory function of correlated electrons in organic conductors (*4 pages*) 041101(R)
H. Oike, F. Kagawa, N. Ogawa, A. Ueda, H. Mori, M. Kawasaki, and Y. Tokura
- Flat-band conductivity properties at long-range Coulomb interactions (*5 pages*) 041102(R)
Wolfgang Häusler
- Projective symmetry of partons in the Kitaev honeycomb model (*4 pages*) 041103(R)
Paula Mellado, Olga Petrova, and Oleg Tchernyshyov
- Optical gyrotropy in quadrupolar Kondo systems (*5 pages*) 041104(R)
SungBin Lee, Arun Paramakanti, and Yong Baek Kim
- Optical evidence for bonding-antibonding splitting in IrTe₂ (*5 pages*) 041105(R)
D. Mazumdar, K. Haule, J. J. Yang, G. L. Pascut, B. S. Holinsworth, K. R. O'Neal, V. Kiryukhin,
Sang-Wook Cheong, and J. L. Musfeldt
- Anyon braiding in semianalytical fractional quantum Hall lattice models (*5 pages*) 041106(R)
Anne E. B. Nielsen
- Impact of quantized vibrations on the efficiency of interfacial charge separation in photovoltaic devices (*5 pages*) 041107(R)
Soumya Bera, Nicolas Gheeraert, Simone Fratini, Sergio Ciuchi, and Serge Florens
- Elastic constants and ultrasound attenuation in the spin-liquid phase of Cs₂CuCl₄ (*5 pages*) 041108(R)
S. Streib, P. Kopietz, P. T. Cong, B. Wolf, M. Lang, N. van Well, F. Ritter, and W. Assmus
- Tunnel magnetoresistance scan of a pristine three-dimensional topological insulator (*4 pages*) 041109(R)
Sthitadhi Roy, Abhiram Soori, and Sourin Das
- Analytic theory of Hund's metals: A renormalization group perspective (*5 pages*) 041110(R)
Camille Aron and Gabriel Kotliar
- Emergent topological mirror insulator in *t*_{2g}-orbital systems (*5 pages*) 041111(R)
Yuan-Yen Tai, C.-C. Joseph Wang, Matthias J. Graf, Jian-Xin Zhu, and C. S. Ting
- Unified picture of the doping dependence of superconducting transition temperatures in alkali metal/ammonia
intercalated FeSe (*5 pages*) 041112(R)
Daniel Guterding, Harald O. Jeschke, P. J. Hirschfeld, and Roser Valentí

