

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 84, NUMBER 11

SEPTEMBER 2011-15(I)

Publisher's Note: General approach to quantum dynamics using a variational master equation: Application to phonon-damped Rabi rotations in quantum dots [Phys. Rev. B 84 , 081305(R) (2011)] (<i>1 page</i>)	119903(E)
Dara P. S. McCutcheon, Nikesh S. Dattani, Erik M. Gauger, Brendon W. Lovett, and Ahsan Nazir	
Erratum: Impurity effects on semiconductor quantum bits in coupled quantum dots [Phys. Rev. B 83 , 235322 (2011)] (<i>1 page</i>)	119904(E)
Nga T. T. Nguyen and S. Das Sarma	
Publisher's Note: Low-temperature dependence of the thermomagnetic transport properties of the SrTiO ₃ /LaAlO ₃ interface [Phys. Rev. B 84 , 075423 (2011)] (<i>1 page</i>)	119905(E)
S. Lerer, M. Ben Shalom, G. Deutscher, and Y. Dagan	
Erratum: Transfer doping of a metallic carbon nanotube and graphene on metal surfaces [Phys. Rev. B 83 , 155435 (2011)] (<i>1 page</i>)	119906(E)
Masayuki Hasegawa and Kazume Nishidate	
Erratum: Spontaneous magnetization and electron momentum density in three-dimensional quantum dots [Phys. Rev. B 68 , 165326 (2003)] (<i>1 page</i>)	119907(E)
R. Saniz, B. Barbiellini, A. B. Denison, and A. Bansil	
Publisher's Note: Localized interface states in coherent isovalent semiconductor heterojunctions [Phys. Rev. B 84 , 125315 (2011)] (<i>1 page</i>)	119908(E)
Voicu Popescu and Alex Zunger	
Publisher's Note: RKKY interaction in graphene [Phys. Rev. B 84 , 115119 (2011)] (<i>1 page</i>)	119909(E)
E. Kogan	
Erratum: Quantum critical paraelectrics and the Casimir effect in time [Phys. Rev. B 79 , 075101 (2009)] (<i>1 page</i>)	119910(E)
L. Pálová, P. Chandra, and P. Coleman	
Publisher's Note: Attosecond nanoplasmonic streaking of localized fields near metal nanospheres [Phys. Rev. B 84 , 121406(R) (2011)] (<i>1 page</i>)	119911(E)
Frederik Sußmann and Matthias F. Kling	

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 84, NUMBER 11

SEPTEMBER 2011-15(I)

Inelastic electron-electron scattering for surface states on Cu(110) and Ag(110) (9 pages)	115451
S. S. Tsirkin, S. V. Ereameev, and E. V. Chulkov	
Standard hydrogen electrode and potential of zero charge in density functional calculations (11 pages)	115452
Vladimir Tripkovic, Mårten E. Björketun, Egill Skúlason, and Jan Rossmeisl	
Coherent control of sub-terahertz confined acoustic nanowaves: Theory and experiments (6 pages)	115453
N. D. Lanzillotti-Kimura, A. Fainstein, A. Lemaitre, B. Jusserand, and B. Perrin	
Ordering and growth of Xe films on the 10-fold quasicrystalline approximant Al ₁₃ Co ₄ (100) surface (10 pages)	115454
Heekun Shin, M. Karimi, W. Setyawan, S. Curtarolo, and R. D. Diehl	
Photonic surface states in plasmonic crystals of metallic nanoshells (5 pages)	115455
C. Tserkezis, N. Stefanou, G. Gantzounis, and N. Papanikolaou	
Work function engineering via LaAlO ₃ /SrTiO ₃ polar interfaces (5 pages)	115456
Tomofumi Susaki, Asahi Makishima, and Hideo Hosono	
Image charge effects in single-molecule junctions: Breaking of symmetries and negative-differential resistance in a benzene single-electron transistor (15 pages)	115457
K. Kaasbjerg and K. Flensberg	
Carrier transport mechanism in graphene on SiC(0001) (5 pages)	115458
Shinichi Tanabe, Yoshiaki Sekine, Hiroyuki Kageshima, Masao Nagase, and Hiroki Hibino	
Model for the epitaxial growth of graphene on 6H-SiC(0001) (6 pages)	115459
Fan Ming and Andrew Zangwill	
Thermal transport in graphene and effects of vacancy defects (5 pages)	115460
Hengji Zhang, Geunsik Lee, and Kyeongjae Cho	
Local hydroxyl adsorption geometry on TiO ₂ (110) (7 pages)	115461
W. Unterberger, T. J. Lerotholi, E. A. Kröger, M. J. Knight, D. A. Duncan, D. Kreikemeyer-Lorenzo, K. A. Hogan, D. C. Jackson, R. Włodarczyk, M. Sierka, J. Sauer, and D. P. Woodruff	
Self-organized pattern formation at organic-inorganic interfaces during deposition: Experiment versus modeling (7 pages)	115462
F. Szillat and S. G. Mayr	
Phonon-induced dephasing in single-wall carbon nanotubes (4 pages)	115463
D. T. Nguyen, C. Voisin, Ph. Roussignol, C. Roquelet, J. S. Lauret, and G. Cassabois	

ERRATA

Erratum: Enhanced electron correlations, local moments, and Curie temperature in strained MnAs nanocrystals embedded in GaAs [Phys. Rev. B 82 , 045117 (2010)] (2 pages)	119901(E)
M. Moreno, J. I. Cerdá, K. H. Ploog, and K. Horn	
Publisher's Note: Hall viscosity, orbital spin, and geometry: Paired superfluids and quantum Hall systems [Phys. Rev. B 84 , 085316 (2011)] (1 page)	119902(E)
N. Read and E. H. Rezayi	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 84, NUMBER 11

SEPTEMBER 2011-15(I)

Zigzag graphene nanoribbons without inversion symmetry (6 pages)	115434
Lihua Pan, Jin An, Yong-Jun Liu, and Chang-De Gong	
Perturbative approach to the Kondo effect in magnetic atoms on nonmagnetic substrates (8 pages)	115435
Aaron Hurley, Nadjib Baadji, and Stefano Sanvito	
Electron correlation enhancement of the diode property of asymmetric molecules (5 pages)	115436
Yoshihiro Asai, Hisao Nakamura, Joshua Hihath, Christopher Bruot, and Nongjian Tao	
Strains and pseudomagnetic fields in circular graphene rings (8 pages)	115437
Nima Abedpour, Reza Asgari, and F. Guinea	
Nonlocal effective medium model for multilayered metal-dielectric metamaterials (9 pages)	115438
A. V. Chebykin, A. A. Orlov, A. V. Vozianova, S. I. Maslovski, Yu. S. Kivshar, and P. A. Belov	
Doping of fluorographene by surface adsorbates (6 pages)	115439
A. Markevich, R. Jones, and P. R. Briddon	
Resonant scattering in graphene with a gate-defined chaotic quantum dot (10 pages)	115440
Martin Schneider and Piet W. Brouwer	
Self-limited oxide formation in Ni(111) oxidation (10 pages)	115441
J. Ingo Flege, Axel Meyer, Jens Falta, and Eugene E. Krasovskii	
Disorder-induced temperature-dependent transport in graphene: Puddles, impurities, activation, and diffusion (16 pages)	115442
Qiuzi Li, E. H. Hwang, and S. Das Sarma	
Stabilized scattering wave-function calculations using the Lippmann-Schwinger equation for long conductor systems (8 pages)	115443
Shigeru Tsukamoto, Yoshiyuki Egami, Kikuji Hirose, and Stefan Blügel	
☞ Transport measurements on carbon nanotubes structurally characterized by electron diffraction (5 pages)	115444
C. S. Allen, M. D. Elkin, G. Burnell, B. J. Hickey, C. Zhang, S. Hofmann, and J. Robertson	
Spin exchange interaction with tunable range between graphene quantum dots (7 pages)	115445
Matthias Braun, P. R. Struck, and Guido Burkard	
Metamorphosis of ultrathin Ni oxide nanostructures on Ag(100) (8 pages)	115446
W. Steurer, F. Allegretti, S. Surnev, G. Barcaro, L. Sementa, F. Negreiros, A. Fortunelli, and F. P. Netzer	
Interaction effects on thermal transport in quantum wires (12 pages)	115447
Alex Levchenko, Tobias Micklitz, Zoran Ristivojevic, and K. A. Matveev	
Microscopic theory of Cooper pair beam splitters based on carbon nanotubes (6 pages)	115448
P. Burset, W. J. Herrera, and A. Levy Yeyati	
Dynamical bistability of single-molecule junctions: A combined experimental and theoretical study of PTCDA on Ag(111) (9 pages)	115449
T. Brumme, O. A. Neucheva, C. Toher, R. Gutiérrez, C. Weiss, R. Temirov, A. Greuling, M. Kaczmariski, M. Rohlfing, F. S. Tautz, and G. Cuniberti	
Room-temperature phonon boundary scattering below the Casimir limit (6 pages)	115450
Jyothi Sadhu and Sanjiv Sinha	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 84, NUMBER 11

SEPTEMBER 2011-15(I)

Two distinct ballistic processes in graphene at the Dirac point (<i>14 pages</i>)	115419
M. Lewkowicz, B. Rosenstein, and D. Nghiem	
Resonant nonlocal Andreev reflection in a narrow quantum spin Hall system (<i>6 pages</i>)	115420
Wei Chen, R. Shen, L. Sheng, B. G. Wang, and D. Y. Xing	
 Efficient terahertz emission from InAs nanowires (<i>7 pages</i>)	115421
Denis V. Seletskiy, Michael P. Hasselbeck, Jeffrey G. Cederberg, Aaron Katzenmeyer, Maria E. Toimil-Molares, François Léonard, A. Alec Talin, and Mansoor Sheik-Bahae	
Theoretical study of constant current scanning tunneling spectroscopy in Pb overlayers (<i>14 pages</i>)	115422
A. Zugarramurdi, N. Zabala, A. G. Borisov, and E. V. Chulkov	
Atomistic calculation of the thermal conductance of large scale bulk-nanowire junctions (<i>6 pages</i>)	115423
Ivan Duchemin and Davide Donadio	
Tight-binding study of the magneto-optical properties of gapped graphene (<i>9 pages</i>)	115424
Jesper Goor Pedersen and Thomas Garm Pedersen	
Carrier transfer effect on transport in <i>p-i-n</i> structures with Ge quantum dots (<i>9 pages</i>)	115425
V. S. Lysenko, Yu. V. Gomeniuk, V. V. Strelchuk, A. S. Nikolenko, S. V. Kondratenko, Yu. N. Kozyrev, M. Yu. Rubezhanska, and C. Teichert	
Spin orientation and sign of the Rashba splitting in Bi/Cu(111) (<i>6 pages</i>)	115426
Hendrik Bentmann, Takuya Kuzumaki, Gustav Bihlmayer, Stefan Blügel, Eugene V. Chulkov, Friedrich Reinert, and Kazuyuki Sakamoto	
Screening and band structure effects on quasi-one-dimensional transport in periodically modulated graphene (<i>5 pages</i>)	115427
Lars Matthes, Karsten Hannewald, Jürgen Furthmüller, and Friedhelm Bechstedt	
Electric field reduced charging energies and two-electron bound excited states of single donors in silicon (<i>7 pages</i>)	115428
R. Rahman, G. P. Lansbergen, J. Verduijn, G. C. Tettamanzi, S. H. Park, N. Collaert, S. Biesemans, G. Klimeck, L. C. L. Hollenberg, and S. Rogge	
Shubnikov-de Haas oscillations of a single layer graphene under dc current bias (<i>4 pages</i>)	115429
Zhenbing Tan, Changling Tan, Li Ma, G. T. Liu, L. Lu, and C. L. Yang	
Carbonate formation on <i>p</i> (4 × 4)-O/Ag(111) (<i>6 pages</i>)	115430
J. Knudsen, N. M. Martin, E. Grånäs, S. Blomberg, J. Gustafson, J. N. Andersen, E. Lundgren, S. Klacar, A. Hellman, and H. Grönbeck	
Helical BN and ZnO nanotubes with intrinsic twisting: An objective molecular dynamics study (<i>8 pages</i>)	115431
D.-B. Zhang, E. Akatyeva, and T. Dumitrică	
Dynamical symmetry breaking in vibration-assisted transport through nanostructures (<i>10 pages</i>)	115432
Abdullah Yar, Andrea Donarini, Sonja Koller, and Milena Grifoni	
Time-dependent magnetotransport in a driven graphene spin valve (<i>6 pages</i>)	115433
Kai-He Ding, Zhen-Gang Zhu, and Jamal Berakdar	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 84, NUMBER 11

SEPTEMBER 2011-15(I)

Reducing entanglement with symmetries: Application to persistent currents in impurity problems (5 pages)	115403
A. E. Feiguin and C. A. Büsser	
Theoretical analysis of the density of states of graphene at high magnetic fields using Haldane pseudopotentials (8 pages)	115404
Lih-King Lim, M. O. Goerbig, and Cristina Bena	
Mimicking electromagnetically induced transparency by spoof surface plasmons (11 pages)	115405
Kazufumi Ooi, Takanori Okada, and Koichiro Tanaka	
Theory of magnetic edge states in chiral graphene nanoribbons (5 pages)	115406
Oleg V. Yazyev, Rodrigo B. Capaz, and Steven G. Louie	
Surface energy and excess charge in (1×2)-reconstructed rutile TiO ₂ (110) from DFT + <i>U</i> calculations (5 pages)	115407
Hatice Ünal, Ersen Mete, and Şinasi Ellialtıoğlu	
Fragmentation pathways of nanofractal structures on surfaces (14 pages)	115408
Veronika V. Dick, Ilia A. Solov'yov, and Andrey V. Solov'yov	
Conductivity and scattering in graphene bilayers: Numerically exact results versus Boltzmann approach (7 pages)	115409
Hengyi Xu, T. Heinzl, and I. V. Zozoulenko	
Surface structures of complex intermetallic compounds: An <i>ab initio</i> DFT study for the (100) surface of o-Al ₁₃ Co ₄ (14 pages)	115410
M. Krajčí and J. Hafner	
Shape of metallic band at single-domain Au-adsorbed Ge(001) surface studied by angle-resolved photoemission spectroscopy (4 pages)	115411
Kan Nakatsuji, Yuya Motomura, Ryota Niikura, and Fumio Komori	
First-principles calculation of current density in molecular devices (7 pages)	115412
Lei Zhang, Bin Wang, and Jian Wang	
Tight-binding model for topological insulators: Analysis of helical surface modes over the whole Brillouin zone (14 pages)	115413
Shijun Mao, Ai Yamakage, and Yoshio Kuramoto	
Quantum magneto-optics of graphite with trigonal warping (6 pages)	115414
L. A. Falkovsky	
Atomic-scale dissipation processes in dynamic force spectroscopy (9 pages)	115415
Shigeki Kawai, Filippo Federici Canova, Thilo Glatzel, Adam S. Foster, and Ernst Meyer	
Influence of Na adsorption on the quantum conductance and metal-insulator transition of the In-Si(111)(4 × 1)–(8 × 2) nanowire array (6 pages)	115416
W. G. Schmidt, M. Babilon, C. Thierfelder, S. Sanna, and S. Wippermann	
Unexpected temperature and velocity dependencies of atomic-scale stick-slip friction (7 pages)	115417
I. Barel, M. Urbakh, L. Jansen, and A. Schirmeisen	
Current fluctuations in composite conductors: Beyond the second cumulant (6 pages)	115418
Artem V. Galaktionov and Andrei D. Zaikin	

(Continued)

Tailoring the light-matter coupling in anisotropic microcavities: Redistribution of oscillator strength in strained m -plane GaN/AlGaIn quantum wells (8 pages)	115315
G. Rossbach, J. Levrat, A. Dussaigne, G. Cosendey, M. Glauser, M. Cobet, R. Butté, N. Grandjean, H. Teisseyre, M. Bockowski, I. Grzegory, and T. Suski	
Dynamics of elastic and inelastic energy transfer between quantum dots in a microcavity (8 pages)	115316
K. J. Xu and C. Piermarocchi	
Electronic structure of Si(110)-(16 × 2) studied by scanning tunneling spectroscopy and density functional theory (8 pages)	115317
Martin Setvín, Veronika Brázdová, David R. Bowler, Kota Tomatsu, Kan Nakatsuji, Fumio Komori, and Kazushi Miki	
Dimer-vacancy reconstructions of the GaN and ZnO(10 $\bar{1}$ 1) surfaces: Density functional theory calculations (5 pages)	115318
Woo-Jin Lee and Yong-Sung Kim	
Large-deviation analysis for counting statistics in mesoscopic transport (7 pages)	115319
Jun Li, Yu Liu, Jing Ping, Shu-Shen Li, Xin-Qi Li, and YiJing Yan	
Role of Coulomb correlations for femtosecond pump-probe signals obtained from a single quantum dot (11 pages)	115320
J. Huneke, I. D'Amico, P. Machnikowski, T. Thomay, R. Bratschitsch, A. Leitenstorfer, and T. Kuhn	
Experimental and atomistic theoretical study of degree of polarization from multilayer InAs/GaAs quantum dot stacks (11 pages)	115321
Muhammad Usman, Tomoya Inoue, Yukihiro Harda, Gerhard Klimeck, and Takashi Kita	
Enhanced photon-assisted spin transport in a quantum dot attached to ferromagnetic leads (9 pages)	115322
Fabrício M. Souza, Thiago L. Carrara, and E. Vernek	
Schottky barrier height modulation by atomic dipoles at the silicide/silicon interface (6 pages)	115323
Yoshifumi Nishi, Takashi Yamauchi, Takao Marukame, Atsuhiko Kinoshita, Junji Koga, and Koichi Kato	
Magnetic field modulated Josephson oscillations in a semiconductor microcavity (6 pages)	115324
Chuanyi Zhang and Guojun Jin	
Single-photon emission from the natural quantum dots in the InAs/GaAs wetting layer (5 pages)	115325
T. Kazimierczuk, A. Golnik, P. Kossacki, J. A. Gaj, Z. R. Wasilewski, and A. Babiński	
Lattice dynamics and thermal properties of phononic semiconductors (13 pages)	115326
S. P. Hepplestone and G. P. Srivastava	
Surface physics, nanoscale physics, low-dimensional systems	
 Making angle-resolved photoemission measurements on corrugated monolayer crystals: Suspended exfoliated single-crystal graphene (12 pages)	115401
Kevin R. Knox, Andrea Locatelli, Mehmet B. Yilmaz, Dean Cvetko, Tevfik Onur Menteş, Miguel Ángel Niño, Philip Kim, Alberto Morgante, and Richard M. Osgood Jr.	
Advantages and limitations of transition voltage spectroscopy: A theoretical analysis (8 pages)	115402
F. Mirjani, J. M. Thijssen, and S. J. van der Molen	

(Continued)

 Origin of the different transport properties of electron and hole polarons in an ambipolar polyselenophene-based conjugated polymer (<i>14 pages</i>)	115211
Zhuoying Chen, Matthew Bird, Vincent Lemaure, Guillaume Radtke, Jérôme Cornil, Martin Heeney, Iain McCulloch, and Henning Sirringhaus	
Magnetic field effects on electron-hole recombination in disordered organic semiconductors (<i>12 pages</i>)	115212
A. I. Shushin	
Semiconductors II: surfaces, interfaces, microstructures, and related topics	
Quantum theory of the charge-stability diagram of semiconductor double-quantum-dot systems (<i>18 pages</i>)	115301
Xin Wang, Shuo Yang, and S. Das Sarma	
<i>Ab initio</i> computation of the energies of circular quantum dots (<i>15 pages</i>)	115302
M. Pedersen Lohne, G. Hagen, M. Hjorth-Jensen, S. Kvaal, and F. Pederiva	
Spin orientation by electric current in (110) quantum wells (<i>8 pages</i>)	115303
L. E. Golub and E. L. Ivchenko	
Coexistence of super-Poissonian mechanisms in quantum dots with ferromagnetic leads (<i>5 pages</i>)	115304
Rui-Qiang Wang, Li Sheng, Liang-Bin Hu, Baigeng Wang, and D. Y. Xing	
Symmetry breaking and Si-based molecular flip-flop motion (<i>6 pages</i>)	115305
Jinwoo Lee, Jinhee Park, Woojin Jung, and In-Wan Lyo	
Mechanism behind the switching of current induced by a gate field in a semiconducting nanowire junction (<i>5 pages</i>)	115306
Subhasish Mandal and Ranjit Pati	
Magnetic field effects in few-level quantum dots: Theory and application to experiment (<i>14 pages</i>)	115308
Christopher J. Wright, Martin R. Galpin, and David E. Logan	
Generation and detection of mode-locked spin coherence in (In,Ga)As/GaAs quantum dots by laser pulses of long duration (<i>13 pages</i>)	115309
S. Spatzek, S. Varwig, M. M. Glazov, I. A. Yugova, A. Schwan, D. R. Yakovlev, D. Reuter, A. D. Wieck, and M. Bayer	
Bulk and surface nucleation processes in Ag ₂ S conductance switches (<i>7 pages</i>)	115310
M. Morales-Masis, S. J. van der Molen, T. Hasegawa, and J. M. van Ruitenbeek	
Electronic charge and spin density distribution in a quantum ring with spin-orbit and Coulomb interactions (<i>6 pages</i>)	115311
Csaba Daday, Andrei Manolescu, D. C. Marinescu, and Vidar Gudmundsson	
Presence of asymmetric noise in multiterminal chaotic cavities (<i>7 pages</i>)	115312
A. L. R. Barbosa, J. G. G. S. Ramos, and D. Bazeia	
Charge fractionalization on quantum Hall edges (<i>11 pages</i>)	115313
Mats Horsdal, Marianne Rypestøl, Hans Hansson, and Jon Magne Leinaas	
Coexistence of electron and hole transport in graphene (<i>5 pages</i>)	115314
S. Wiedmann, H. J. van Elferen, E. V. Kurganova, M. I. Katsnelson, A. J. M. Giesbers, A. Veligura, B. J. van Wees, R. V. Gorbachev, K. S. Novoselov, J. C. Maan, and U. Zeitler	

(Continued)

Conduction-band electronic states of YbInCu ₄ studied by photoemission and soft x-ray absorption spectroscopies (7 pages)	115143
Yuki Utsumi, Hitoshi Sato, Hidenao Kurihara, Hiroyuki Maso, Koichi Hiraoka, Kenichi Kojima, Komei Tobimatsu, Takuo Ohkochi, Shin-ichi Fujimori, Yukiharu Takeda, Yuji Saitoh, Kojiro Mimura, Shigenori Ueda, Yoshiyuki Yamashita, Hideki Yoshikawa, Keisuke Kobayashi, Tamio Oguchi, Kenya Shimada, Hirofumi Namatame, and Masaki Taniguchi	
First-principles quasiparticle damping rates in bulk lead (9 pages)	115144
X. Zubizarreta, V. M. Silkin, and E. V. Chulkov	
Nonequilibrium steady state for strongly correlated many-body systems: Variational cluster approach (11 pages)	115145
Michael Knap, Wolfgang von der Linden, and Enrico Arrigoni	
Site dilution in the Kitaev honeycomb model (16 pages)	115146
A. J. Willans, J. T. Chalker, and R. Moessner	
Semiconductors I: bulk	
Group-VII point defects in ZnSe (6 pages)	115201
L. S. dos Santos, W. G. Schmidt, and E. Rauls	
Self-compensation in semiconductors: The Zn vacancy in Ga-doped ZnO (6 pages)	115202
D. C. Look, K. D. Leedy, L. Vines, B. G. Svensson, A. Zubiaga, F. Tuomisto, D. R. Doughty, and L. J. Brillson	
H passivation of Li on Zn-site in ZnO: Positron annihilation spectroscopy and secondary ion mass spectrometry (4 pages)	115203
K. M. Johansen, A. Zubiaga, F. Tuomisto, E. V. Monakhov, A. Yu. Kuznetsov, and B. G. Svensson	
Optical properties of triplet states of excitons bound to interstitial-carbon interstitial-oxygen defects in silicon (4 pages)	115204
T. Ishikawa, K. Koga, T. Itahashi, K. M. Itoh, and L. S. Vlasenko	
Electronic structure of oxygen-vacancy defects in amorphous In-Ga-Zn-O semiconductors (8 pages)	115205
Hyeon-Kyun Noh, K. J. Chang, Byungki Ryu, and Woo-Jin Lee	
 Observation of superfluorescence from a quantum ensemble of coherent excitons in a ZnTe crystal: Evidence for spontaneous Bose-Einstein condensation of excitons (8 pages)	115206
D. C. Dai and A. P. Monkman	
First-principles study of polyacetylene derivatives bearing nitroxide radicals (9 pages)	115207
Beyza Bilgiç, Çetin Kılıç, and Burak Esat	
 Organic light-emitting diodes under high currents explored by transient electroluminescence on the nanosecond scale (8 pages)	115208
D. Kasemann, R. Brückner, H. Fröb, and K. Leo	
Quantum kinetic equation in phase-space textured multiband systems (16 pages)	115209
Clement H. Wong and Yaroslav Tserkovnyak	
Spin torque and charge resistance of ferromagnetic semiconductor 2π and π domain walls (9 pages)	115210
E. A. Golovatski and M. E. Flatté	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 84, NUMBER 11

SEPTEMBER 2011-15(I)

Electronic structure and localized lanthanide character of $\text{LnT}_2\text{Al}_{10}$ ($T = \text{Ru, Os}$) (8 pages)	115128
H. Tanida, D. Tanaka, M. Sera, S. Tanimoto, T. Nishioka, M. Matsumura, M. Ogawa, C. Moriyoshi, Y. Kuroiwa, J. E. Kim, N. Tsuji, and M. Takata	
Extended quantum $U(1)$ -liquid phase in a three-dimensional quantum dimer model (20 pages)	115129
Olga Sikora, Nic Shannon, Frank Pollmann, Karlo Penc, and Peter Fulde	
Otto coupling to a transverse-electric-polarized mode on a metamaterial surface (5 pages)	115130
Alastair P. Hibbins, Matthew J. Lockyear, and J. Roy Sambles	
Valence change of praseodymium in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{CoO}_3$ investigated by x-ray absorption spectroscopy (6 pages)	115131
J. Herrero-Martín, J. L. García-Muñoz, S. Valencia, C. Frontera, J. Blasco, A. J. Barón-González, G. Subías, R. Abrudan, F. Radu, E. Dudzik, and R. Feyerherm	
Optical spectroscopy of the carrier dynamics in $\text{LaVO}_3/\text{SrVO}_3$ superlattices (6 pages)	115132
D. W. Jeong, Woo Seok Choi, T. D. Kang, C. H. Sohn, A. David, H. Rotella, A. A. Sirenko, Cheol Hyeok Lee, Jae H. Kim, U. Lüders, W. Prellier, Y.-J. Kim, Yun Sang Lee, and T. W. Noh	
Quantum Hall effect in a one-dimensional dynamical system (8 pages)	115133
J. P. Dahlhaus, J. M. Edge, J. Tworzydło, and C. W. J. Beenakker	
Evaluation of compensated magnetism in La_2VCuO_6 : Exploration of charge states (4 pages)	115134
Victor Pardo and Warren E. Pickett	
Phase diagram of the half-filled one-dimensional t - V - V' model (7 pages)	115135
Tapan Mishra, Juan Carrasquilla, and Marcos Rigol	
Barrier transmission of Dirac-like pseudospin-one particles (9 pages)	115136
Daniel F. Urban, Dario Bercioux, Michael Wimmer, and Wolfgang Häusler	
Angle-resolved Landau spectrum of electrons and holes in bismuth (12 pages)	115137
Zengwei Zhu, Benoît Fauqué, Yuki Fuseya, and Kamran Behnia	
Electronic structure of V_4O_7 : Charge ordering, metal-insulator transition, and magnetism (8 pages)	115138
A. S. Botana, V. Pardo, D. Baldomir, A. V. Ushakov, and D. I. Khomskii	
Static and dynamic properties of type-II composite fermion Wigner crystals (13 pages)	115139
Alexander C. Archer and Jainendra K. Jain	
^{13}C NMR study of the magnetic properties of the quasi-one-dimensional conductor $(\text{TMTTF})_2\text{SbF}_6$ (7 pages) . . .	115140
F. Iwase, K. Sugiura, K. Furukawa, and T. Nakamura	
Electronic structures of silver oxides (14 pages)	115141
Jeremy P. Allen, David O. Scanlon, and Graeme W. Watson	
Reflection and transmission of light at periodic layered metamaterial films (10 pages)	115142
Thomas Paul, Christoph Menzel, Wojciech Śmigaj, Carsten Rockstuhl, Philippe Lalanne, and Falk Lederer	

(Continued)

Anderson-Hubbard model with box disorder: Statistical dynamical mean-field theory investigation (12 pages) . . .	115113
D. Semmler, K. Byczuk, and W. Hofstetter	
Exchange interactions and magnetic phases of transition metal oxides: Benchmarking advanced <i>ab initio</i> methods (14 pages)	115114
T. Archer, C. D. Pemmaraju, S. Sanvito, C. Franchini, J. He, A. Filippetti, P. Delugas, D. Puggioni, V. Fiorentini, R. Tiwari, and P. Majumdar	
Hartree-Fock phase diagram of the two-dimensional electron gas (7 pages)	115115
B. Bernu, F. Delyon, M. Holzmann, and L. Baguet	
Boundary effects in the density-matrix renormalization group calculation (9 pages)	115116
Naokazu Shibata and Chisa Hotta	
Modulated superconductivity due to vacancy and magnetic order in $A_y\text{Fe}_{2-x/2}\text{Se}_2$ [$A = \text{Cs, K, (Tl,Rb), (Tl,K)}$] iron-selenide superconductors (6 pages)	115117
Tanmoy Das and A. V. Balatsky	
Two distinct Mott-insulator to Bose-glass transitions and breakdown of self-averaging in the disordered Bose-Hubbard model (7 pages)	115118
Frank Krüger, Seungmin Hong, and Philip Phillips	
RKKY interaction in graphene (6 pages)	115119
E. Kogan	
Real-space renormalization group flow in quantum impurity systems: Local moment formation and the Kondo screening cloud (5 pages)	115120
Andrew K. Mitchell, Michael Becker, and Ralf Bulla	
Bilayer quantum Hall phase transitions and the orbifold non-Abelian fractional quantum Hall states (22 pages)	115121
Maissam Barkeshli and Xiao-Gang Wen	
Modeling of the cubic and antiferrodistortive phases of SrTiO_3 with screened hybrid density functional theory (12 pages)	115122
Fedwa El-Mellouhi, Edward N. Brothers, Melissa J. Lucero, and Gustavo E. Scuseria	
<i>Ab initio</i> investigation of the noncollinear magnetic structure of CeFeAsO (10 pages)	115123
Juan Liu, Bo Luo, ZhaoYu Sun, Huahua Fu, and Kailun Yao	
Exact ground states of a staggered supersymmetric model for lattice fermions (15 pages)	115124
L. Huijse, N. Moran, J. Vala, and K. Schoutens	
Combined analytical and numerical approach to study magnetization plateaux in doped quasi-one-dimensional antiferromagnets (11 pages)	115125
C. A. Lamas, S. Capponi, and P. Pujol	
Pseudospin-dependent scattering in carbon nanotubes (5 pages)	115126
Leonhard Mayrhofer and Dario Bercioux	
Pressure-induced metal-insulator transition in the spin-orbit Mott insulator Ba_2IrO_4 (6 pages)	115127
H. Okabe, N. Takeshita, M. Isobe, E. Takayama-Muromachi, T. Muranaka, and J. Akimitsu	

(Continued)

Energy gap of Kronig-Penney-type hydrogenated graphene superlattices (<i>4 pages</i>)	113413
Joo-Hyoung Lee and Jeffrey C. Grossman	
Far-from-equilibrium film growth on alloy surfaces: Ni and Al on NiAl(110) (<i>4 pages</i>)	113414
Yong Han, Dapeng Jing, Barış Ünal, P. A. Thiel, and J. W. Evans	
Increasing thermoelectric performance using coherent transport (<i>4 pages</i>)	113415
O. Karlström, H. Linke, G. Karlström, and A. Wacker	

ARTICLES

Electronic structure and strongly correlated systems

Spectral weight transfer in multiorbital Mott systems (<i>9 pages</i>)	115101
Wei-Cheng Lee and Philip W. Phillips	
Many-body effects in x-ray absorption and magnetic circular dichroism spectra within the LSDA+DMFT framework (<i>9 pages</i>)	115102
O. Šipr, J. Minár, A. Scherz, H. Wende, and H. Ebert	
Comparative study of many-body perturbation theory and time-dependent density functional theory in the out-of-equilibrium Anderson model (<i>10 pages</i>)	115103
A.-M. Uimonen, E. Khosravi, A. Stan, G. Stefanucci, S. Kurth, R. van Leeuwen, and E. K. U. Gross	
Electromagnetic properties of hollandite $K_2V_8O_{16}$ under pressure (<i>6 pages</i>)	115104
Touiru Yamauchi, Hiroaki Ueda, Masahiko Isobe, and Yutaka Ueda	
Phase diagram, energy scales, and nonlocal correlations in the Anderson lattice model (<i>10 pages</i>)	115105
D. Tanasković, K. Haule, G. Kotliar, and V. Dobrosavljević	
Understanding Ti intermediate-band formation in partially inverse thiospinel $MgIn_2S_4$ through many-body approaches (<i>6 pages</i>)	115106
I. Aguilera, Pablo Palacios, and P. Wahnón	
Mapping the energy surface of $PbTiO_3$ in multidimensional electric-displacement space (<i>6 pages</i>)	115107
Jiawang Hong and David Vanderbilt	
First-principles study of electronic and structural properties of CuO (<i>8 pages</i>)	115108
Burak Himmetoglu, Renata M. Wentzcovitch, and Matteo Cococcioni	
Electronic band structure of epitaxial $CuInSe_2$ films (<i>8 pages</i>)	115109
Andreas Hofmann and Christian Pettenkofer	
Quantum criticality in Ce_2PdIn_8 : A thermoelectric study (<i>5 pages</i>)	115110
Marcin Matusiak, Daniel Gnida, and Dariusz Kaczorowski	
Two-channel Kondo physics in tunnel-coupled double quantum dots (<i>9 pages</i>)	115111
Frederic W. Jayatilaka, Martin R. Galpin, and David E. Logan	
First-principles study of boron oxygen hole centers in crystals: Electronic structures and nuclear hyperfine and quadrupole parameters (<i>12 pages</i>)	115112
Zucheng Li(李祖成) and Yuanming Pan	

(Continued)

Statistical fluxes and the Curie-Weiss metal state (<i>5 pages</i>)	113113
Kai Wu, Zheng-Yu Weng, and Jan Zaanen	
Semiconductors I: bulk	
Vacancy induced half-metallicity in half-Heusler semiconductors (<i>4 pages</i>)	113201
Zhiyong Zhu, Yingchun Cheng, and Udo Schwingenschlögl	
Semiconductors II: surfaces, interfaces, microstructures, and related topics	
$1/(N - 1)$ expansion based on a perturbation theory in U for the Anderson model with N -fold degeneracy (<i>4 pages</i>)	113301
A. Oguri, R. Sakano, and T. Fujii	
Surface physics, nanoscale physics, low-dimensional systems	
Low-temperature caloric behavior of a free sodium nanoparticle (<i>4 pages</i>)	113401
C. Hock, M. Schmidt, and B. v. Issendorff	
Chiral symmetry restoration in monolayer graphene induced by Kekulé distortion (<i>4 pages</i>)	113402
Yasufumi Araki	
Fe adatoms on graphene/Ru(0001): Adsorption site and local electronic properties (<i>4 pages</i>)	113403
M. Gyamfi, T. Eelbo, M. Waśniowska, and R. Wiesendanger	
Multicritical behavior of $\mathbb{Z}_2 \times O(2)$ Gross-Neveu-Yukawa theory in graphene (<i>4 pages</i>)	113404
Bitan Roy	
Optical transmission through two-dimensional arrays of β -Sn nanoparticles (<i>4 pages</i>)	113405
Britta Johansen, Christian Uhrenfeldt, Arne Nylandsted Larsen, Thomas Garm Pedersen, Hans Ulrik Ulriksen, Peter Kjær Kristensen, Jesper Jung, Thomas Søndergaard, and Kjeld Pedersen	
Multiphonon Raman scattering in graphene (<i>4 pages</i>)	113406
Rahul Rao, Derek Tishler, Jyoti Katoch, and Masa Ishigami	
Current-induced magnetization reversal on the surface of a topological insulator (<i>4 pages</i>)	113407
Takehito Yokoyama	
Conductance of a photochromic molecular switch with graphene leads (<i>5 pages</i>)	113408
C. Motta, M. I. Trioni, G. P. Brivio, and K. L. Sebastian	
Exact dispersion relation for nonlinear plasmonic waveguides (<i>4 pages</i>)	113409
Ivan D. Rukhlenko, Asanka Pannipitiya, Malin Premaratne, and Govind P. Agrawal	
Ultrabroadband electromagnetically indefinite medium formed by aligned carbon nanotubes (<i>4 pages</i>)	113410
Igor Nefedov and Sergei Tretyakov	
Wide-band idler generation in a GaAs electromechanical resonator (<i>4 pages</i>)	113411
I. Mahboob, Q. Wilmart, K. Nishiguchi, A. Fujiwara, and H. Yamaguchi	
Bilayer graphene dual-gate nanodevice: An <i>ab initio</i> simulation (<i>4 pages</i>)	113412
J. E. Padilha, Matheus P. Lima, Antônio J. R. da Silva, and A. Fazzio	

(Continued)

BRIEF REPORTS

Electronic structure and strongly correlated systems

- Unfolding of plasmon-polariton modes in one-dimensional layered systems containing anisotropic left-handed materials (*5 pages*) 113101
A. Bruno-Alfonso, E. Reyes-Gómez, S. B. Cavalcanti, and L. E. Oliveira
- Analysis of numerical methods for evaluating the Fock exchange integral in a plane-wave basis (*4 pages*) 113102
N. A. W. Holzwarth and Xiao Xu
- Metamaterial-based model of the Alcubierre warp drive (*4 pages*) 113103
Igor I. Smolyaninov
- First-principles calculation of the structural stability of 6d transition metals (*4 pages*) 113104
A. Östlin and L. Vitos
- Localization in shuffled-lattice random-fill structures (*4 pages*) 113105
D. Mogilevtsev and A. Maloshtan
- Unoccupied electronic structure of graphite probed by angle-resolved photoemission spectroscopy (*4 pages*) 113106
S. K. Mahatha, Krishnakumar S. R. Menon, and T. Balasubramanian
- Nonequilibrium phonon backaction on the current noise in atomic-sized junctions (*4 pages*) 113107
Tomáš Novotný, Federica Haupt, and Wolfgang Belzig
- Volume contraction in CeB₄ induced by delocalized Ce 4*f* electrons (*4 pages*) 113108
Junwon Kim, Kyoo Kim, Hong Chul Choi, and B. I. Min
- Nonpercolative metal-insulator transition in VO₂ single crystals (*4 pages*) 113109
Bongjin Simon Mun, Kai Chen, Joonseok Yoon, Catherine Dejoie, Nobumichi Tamura, Martin Kunz, Zhi Liu, Michael E. Grass, Sung-Kwan Mo, Changwoo Park, Y. Yvette Lee, and Honglyoul Ju
- Transient photoluminescence enhancement as a probe of the structure of impurity-trapped excitons in CaF₂:Yb²⁺ (*4 pages*) 113110
Michael F. Reid, Pubudu S. Senanayake, Jon-Paul R. Wells, Giel Berden, Andries Meijerink, Alexander J. Salkeld, Chang-Kui Duan, and Roger J. Reeves
- Static electric field in one-dimensional insulators without boundaries (*4 pages*) 113111
Kuang-Ting Chen and Patrick A. Lee
- Orbital magnetic moment and extrinsic spin Hall effect for iron impurities in gold (*4 pages*) 113112
Alexander B. Shick, Jindřich Kolorenč, Václav Janiš, and Alexander I. Lichtenstein

