PHYSICAL REVIEW B™

For editorial and subscription correspondence, please see inside front cover
(ISSN: 1098-0121)

PERIODICALS
Postmaster send address changes to:
APS Subscription Services
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 86, NUMBER 23 *CONTENTS* **DECEMBER 2012-15(I)**

EDITORIALS AND ANNOUNCEMENTS

Editorial: The End of PRB Brief Reports *(1 page)* 230001

ARTICLES

Electronic structure and strongly correlated systems

Magnon gap formation and charge density wave effect on thermoelectric properties in the $SmNiC_2$ compound *(6 pages)* 235101
Jin Hee Kim, Jong-Soo Rhyee, and Yong Seung Kwon

Accurate computation of low-temperature thermodynamics for quantum spin chains *(6 pages)* 235102
Yu-Kun Huang (黃玉坤), Pochung Chen (陳柏中), and Ying-Jer Kao (高英哲)

VO_2: Orbital competition, magnetism, and phase stability *(7 pages)* 235103
Xun Yuan, Yubo Zhang, Tesfaye A. Abtew, Peihong Zhang, and Wenqing Zhang

Neutron scattering study of $URu_{2-x}Re_xSi_2$ ($x = 0.10$): Driving order towards quantum criticality *(5 pages)* 235104
T. J. Williams, Z. Yamani, N. P. Butch, G. M. Luke, M. B. Maple, and W. J. L. Buyers

Vanishing of the metal-insulator Peierls transition in pressurized $BaVS_3$ *(7 pages)* 235105
S. Bernu, P. Fertey, J.-P. Itié, H. Berger, P. Foury-Leylekian, and J.-P. Pouget

Probing two topological surface bands of Sb_2Te_3 by spin-polarized photoemission spectroscopy *(8 pages)* 235106
C. Pauly, G. Bihlmayer, M. Liebmann, M. Grob, A. Georgi, D. Subramaniam, M. R. Scholz, J. Sánchez-Barriga, A. Varykhalov, S. Blügel, O. Rader, and M. Morgenstern

One-particle spectral function and analytic continuation for many-body implementation in the exact muffin-tin orbitals method *(9 pages)* 235107
A. Östlin, L. Chioncel, and L. Vitos

Itinerant nature of U 5*f* states in uranium mononitride revealed by angle-resolved photoelectron spectroscopy *(8 pages)* 235108
Shin-ichi Fujimori, Takuo Ohkochi, Tetsuo Okane, Yuji Saitoh, Atsushi Fujimori, Hiroshi Yamagami, Yoshinori Haga, Etsuji Yamamoto, and Yoshichika Ōnuki

Density-decomposed orbital-free density functional theory for covalently bonded molecules and materials *(15 pages)* 235109
Junchao Xia and Emily A. Carter

Copyright 2012 by American Physical Society

1098-0121(20121215)86:23;1-J

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 86, NUMBER 23** **DECEMBER 2012-15(I)**

Light wave states in quasiperiodic metallic structures *(9 pages)* 235110
Kang Wang

Different doping from apical and planar oxygen vacancies in $Ba_2CuO_{4-\delta}$ and $La_2CuO_{4-\delta}$: First-principles band structure calculations *(5 pages)* 235111
T. Jarlborg, B. Barbiellini, R. S. Markiewicz, and A. Bansil

Generalized correlation functions for conductance fluctuations and the mesoscopic spin Hall effect *(7 pages)* 235112
J. G. G. S. Ramos, A. L. R. Barbosa, D. Bazeia, M. S. Hussein, and C. H. Lewenkopf

Angle-resolved photoemission and quasiparticle calculation of ZnO: The need for *d* band shift in oxide semiconductors *(6 pages)* 235113
Linda Y. Lim, Stephan Lany, Young Jun Chang, Eli Rotenberg, Alex Zunger, and Michael F. Toney

Orbital polaron in double-exchange ferromagnets *(9 pages)* 235114
T. L. van den Berg, P. Lombardo, R. O. Kuzian, and R. Hayn

Quasinormal modes of quantum criticality *(21 pages)* 235115
William Witczak-Krempa and Subir Sachdev

Quantum Monte Carlo calculation of entanglement Rényi entropies for generic quantum systems *(8 pages)* 235116
Stephan Humeniuk and Tommaso Roscilde

Screened hybrid functional applied to $3d^0 \rightarrow 3d^8$ transition-metal perovskites $LaMO_3$ (M = Sc–Cu): Influence of the exchange mixing parameter on the structural, electronic, and magnetic properties *(29 pages)* 235117
Jiangang He and Cesare Franchini

Fractional Chern insulator on a triangular lattice of strongly correlated t_{2g} electrons *(14 pages)* 235118
Stefanos Kourtis, Jörn W. F. Venderbos, and Maria Daghofer

Spherical topological insulator *(12 pages)* 235119
Ken-Ichiro Imura, Yukinori Yoshimura, Yositake Takane, and Takahiro Fukui

Interplay between potential and spin-flip scattering in systems with depleted density of states *(6 pages)* 235120
R. G. Dias, Lídia del Rio, and A. V. Goltsev

Nonequilibrium noise correlations in a point contact of helical edge states *(9 pages)* 235121
Yu-Wen Lee, Yu-Li Lee, and Chung-Hou Chung

Optical and energy-loss spectra of the antiferromagnetic transition metal oxides MnO, FeO, CoO, and NiO including quasiparticle and excitonic effects *(11 pages)* 235122
Claudia Rödl and Friedhelm Bechstedt

Stability of the Fe electronic structure through temperature-, doping-, and pressure-induced transitions in the $BaFe_2As_2$ superconductors *(4 pages)* 235123
V. Balédent, F. Rullier-Albenque, D. Colson, G. Monaco, and J.-P. Rueff

Effects of 3*d* and 4*d* transition metal substitutional impurities on the electronic properties of CrO_2 *(10 pages)* . . . 235124
M. E. Williams, H. Sims, D. Mazumdar, and W. H. Butler

Study of strain effect on in-plane polarization in epitaxial $BiFeO_3$ thin films using planar electrodes *(7 pages)* 235125
Zuhuang Chen, Xi Zou, Wei Ren, Lu You, Chuanwei Huang, Yurong Yang, Ping Yang, Junling Wang, Thirumany Sritharan, L. Bellaiche, and Lang Chen

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 86, NUMBER 23** **DECEMBER 2012-15(I)**

Possible broken inversion and time-reversal symmetry state of electrons in bilayer graphene *(4 pages)* 235126
Xin-Zhong Yan and C. S. Ting

Core level and valence band spectroscopy of $SrRuO_3$: Electron correlation and covalence effects *(8 pages)* 235127
E. B. Guedes, M. Abbate, K. Ishigami, A. Fujimori, K. Yoshimatsu, H. Kumigashira, M. Oshima, F. C. Vicentin, P. T. Fonseca, and R. J. O. Mossanek

Models of three-dimensional fractional topological insulators *(19 pages)* 235128
Joseph Maciejko, Xiao-Liang Qi, Andreas Karch, and Shou-Cheng Zhang

Magnetic orders and topological phases from f-d exchange in pyrochlore iridates *(7 pages)* 235129
Gang Chen and Michael Hermele

Magnetic domain wall propagation under ferroelectric control *(6 pages)* 235130
E. Mikheev, I. Stolichnov, E. De Ranieri, J. Wunderlich, H. J. Trodahl, A. W. Rushforth, S. W. E. Riester, R. P. Campion, K. W. Edmonds, B. L. Gallagher, and N. Setter

Electronic transitions in $CePd_2Si_2$ studied by resonant x-ray emission spectroscopy at high pressures and low temperatures *(8 pages)* 235131
Hitoshi Yamaoka, Yumiko Zekko, Akio Kotani, Ignace Jarrige, Naohito Tsujii, Jung-Fu Lin, Jun'ichiro Mizuki, Hideki Abe, Hideaki Kitazawa, Nozomu Hiraoka, Hirofumi Ishii, and Ku-Ding Tsuei

String-net models with Z_N fusion algebra *(14 pages)* 235132
Ling-Yan Hung and Yidun Wan

Giant plateau in the terahertz Faraday angle in gated Bi_2Se_3 *(5 pages)* 235133
Gregory S. Jenkins, Andrei B. Sushkov, Don C. Schmadel, M.-H. Kim, Matthew Brahlek, Namrata Bansal, Seongshik Oh, and H. Dennis Drew

Analysis of two-photon photoemission from Si(001) *(16 pages)* 235134
H. Husser and E. Pehlke

Chiral symmetry on the edge of two-dimensional symmetry protected topological phases *(8 pages)* 235135
Xie Chen and Xiao-Gang Wen

Transport, thermal, and magnetic properties of the narrow-gap semiconductor $CrSb_2$ *(7 pages)* 235136
Brian C. Sales, Andrew F. May, Michael A. McGuire, Matthew B. Stone, David J. Singh, and David Mandrus

Transport criticality at the Mott transition in a triangular-lattice Hubbard model *(13 pages)* 235137
Toshihiro Sato, Kazumasa Hattori, and Hirokazu Tsunetsugu

$YbPtGe_2$: A multivalent charge-ordered system with an unusual spin pseudogap *(12 pages)* 235138
Roman Gumeniuk, Rajib Sarkar, Christoph Geibel, Walter Schnelle, Carsten Paulmann, Michael Baenitz, Alexander A. Tsirlin, Violeta Guritanu, Jörg Sichelschmidt, Yuri Grin, and Andreas Leithe-Jasper

Lattice density functional theory at finite temperature with strongly density-dependent exchange-correlation potentials *(13 pages)* 235139
Gao Xianlong, A-Hai Chen, I. V. Tokatly, and S. Kurth

Self-energy feedback and frequency-dependent interactions in the functional renormalization group flow for the two-dimensional Hubbard model *(10 pages)* 235140
Stefan Uebelacker and Carsten Honerkamp

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 86, NUMBER 23** **DECEMBER 2012-15(I)**

☙ Topological phases in layered pyrochlore oxide thin films along the [111] direction *(11 pages)* 235141
Xiang Hu, Andreas Rüegg, and Gregory A. Fiete

Discriminating string order parameter for topological phases of gapped $SU(N)$ spin chains *(13 pages)* 235142
Kasper Duivenvoorden and Thomas Quella

Conductance of a quantum dot in the Kondo regime connected to dirty wires *(6 pages)* 235143
Alberto Camjayi and Liliana Arrachea

Spectroscopy of terahertz radiation using high-Q photonic crystal microcavities *(4 pages)* 235144
V. M. Muravev, P. A. Gusikhin, G. E. Tsydynzhapov, A. A. Fortunatov, and I. V. Kukushkin

Delayed formation of coherent LO phonon-plasmon coupled modes in n- and p-type GaAs measured using a femtosecond coherent control technique *(6 pages)* 235145
Jianbo Hu, Oleg V. Misochko, Arihiro Goto, and Kazutaka G. Nakamura

Ferromagnetism and antiferromagnetism of a correlated topological insulator with a flat band *(10 pages)* 235146
Jing He, Bo Wang, and Su-Peng Kou

Optical dielectric function of gold *(9 pages)* 235147
Robert L. Olmon, Brian Slovick, Timothy W. Johnson, David Shelton, Sang-Hyun Oh, Glenn D. Boreman, and Markus B. Raschke

Semiconductors I: bulk

Investigation of trap states and mobility in organic semiconductor devices by dielectric spectroscopy: Oxygen-doped P3HT:PCBM solar cells *(7 pages)* 235201
Oskar Armbruster, Christoph Lungenschmied, and Siegfried Bauer

Pressure-induced metal-insulator transition and absence of magnetic order in $FeGa_3$ from a first-principles study *(6 pages)* 235202
J. M. Osorio-Guillén, Y. D. Larrauri-Pizarro, and G. M. Dalpian

Ab initio study on optoelectronic properties of interstitially versus substitutionally doped titania *(13 pages)* 235203
Sankha Ghosh and Niall J. English

Density functional theory study of the structural and electronic properties of amorphous silicon nitrides: Si_3N_{4-x}:H *(13 pages)* 235204
L. E. Hintzsche, C. M. Fang, T. Watts, M. Marsman, G. Jordan, M. W. P. E. Lamers, A. W. Weeber, and G. Kresse

Zeeman splitting and dynamics of an isoelectronic bound exciton near the band edge of ZnO *(7 pages)* 235205
S. L. Chen, W. M. Chen, and I. A. Buyanova

Mesoscopic kinetic Monte Carlo modeling of organic photovoltaic device characteristics *(9 pages)* 235206
Robin G. E. Kimber, Edward N. Wright, Simon E. J. O'Kane, Alison B. Walker, and James C. Blakesley

Optical properties of Bi_2Te_2Se at ambient and high pressures *(8 pages)* 235207
Ana Akrap, Michaël Tran, Alberto Ubaldini, Jérémie Teyssier, Enrico Giannini, Dirk van der Marel, Philippe Lerch, and Christopher C. Homes

Observation of a dynamical mixing process of exciton-polaritons in a ZnSe epitaxial layer using four-wave mixing spectroscopy *(6 pages)* 235208
H. Tahara, M. Bamba, Y. Ogawa, and F. Minami

(Continued)

☙ The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 86, NUMBER 23** **DECEMBER 2012-15(I)**

Characteristic local association of In impurities dispersed in ZnO *(5 pages)* 235209
W. Sato, S. Komatsuda, and Y. Ohkubo

Semiconductors II: surfaces, interfaces, microstructures, and related topics

Dephasing in the adiabatic rapid passage in quantum dots: Role of phonon-assisted biexciton generation *(6 pages)* 235301
Krzysztof Gawarecki, Sebastian Lüker, Doris E. Reiter, Tilmann Kuhn, Martin Glässl, Vollrath Martin Axt, Anna Grodecka–Grad, and Paweł Machnikowski

Cu dimer formation mechanism on the ZnO($10\bar{1}0$) surface *(8 pages)* 235302
Matti Hellström, Daniel Spångberg, Kersti Hermansson, and Peter Broqvist

Dissecting biexciton wave functions of self-assembled quantum dots by double-quantum-coherence optical spectroscopy *(10 pages)* 235303
Benjamin P. Fingerhut, Marten Richter, Jun-Wei Luo, Alex Zunger, and Shaul Mukamel

Enhancing phonon transmission across a Si/Ge interface by atomic roughness: First-principles study with the Green's function method *(7 pages)* 235304
Zhiting Tian, Keivan Esfarjani, and Gang Chen

Microwave-induced resistance oscillations in tilted magnetic fields *(4 pages)* 235305
A. Bogan, A. T. Hatke, S. A. Studenikin, A. Sachrajda, M. A. Zudov, L. N. Pfeiffer, and K. W. West

Microscopic density matrix model for optical gain of terahertz quantum cascade lasers: Many-body, nonparabolicity, and resonant tunneling effects *(10 pages)* 235306
Tao Liu, Kenneth E. Lee, and Qi Jie Wang

Cotunneling in the $\nu = 5/2$ fractional quantum Hall regime *(5 pages)* 235307
Robert Zielke, Bernd Braunecker, and Daniel Loss

Geometrical pumping in quantum transport: Quantum master equation approach *(10 pages)* 235308
Tatsuro Yuge, Takahiro Sagawa, Ayumu Sugita, and Hisao Hayakawa

Fractional quantum Hall interferometers in a strong tunneling regime: The role of compactness in edge fields *(5 pages)* 235309
Sriram Ganeshan, Alexander G. Abanov, and Dmitri V. Averin

Resonant regimes in the Fock-space coherence of multilevel quantum dots *(6 pages)* 235310
Eduardo Vaz and Jordan Kyriakidis

$\mathbf{k} \cdot \mathbf{p}$ model for the energy dispersions and absorption spectra of InAs/GaSb type-II superlattices *(16 pages)* 235311
Y. Livneh, P. C. Klipstein, O. Klin, N. Snapi, S. Grossman, A. Glozman, and E. Weiss

Transforming Fabry-Pérot resonances into a Tamm mode *(6 pages)* 235312
Maxim Durach and Anastasia Rusina

Kinetic Monte Carlo simulation of heteroepitaxial growth: Wetting layers, quantum dots, capping, and nanorings *(15 pages)* 235313
T. P. Schulze and P. Smereka

Holographic arrays based on semiconductor microstructures *(5 pages)* 235314
T. C. H. Liew

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 86, NUMBER 23** **DECEMBER 2012-15(I)**

Geometric resonances in the magnetoresistance of hexagonal lateral superlattices *(10 pages)* 235315
Yuto Kato, Akira Endo, Shingo Katsumoto, and Yasuhiro Iye

Transmission line theory of collective plasma excitations in periodic two-dimensional electron systems: Finite plasmonic crystals and Tamm states *(11 pages)* 235316
Gregory R. Aizin and Gregory C. Dyer

Structural and electronic properties of the Pb/Ge(111)-$\beta(\sqrt{3} \times \sqrt{3})R30^{\circ}$ surface studied by photoelectron spectroscopy and first-principles calculations *(6 pages)* 235317
Koichiro Yaji, Shinichiro Hatta, Tetsuya Aruga, and Hiroshi Okuyama

Surface physics, nanoscale physics, low-dimensional systems

Diffraction imaging: The limits of partial coherence *(6 pages)* 235401
Bo Chen, Brian Abbey, Ruben Dilanian, Eugeniu Balaur, Grant van Riessen, Mark Junker, Chanh Q. Tran, Michael W. M. Jones, Andrew G. Peele, Ian McNulty, David J. Vine, Corey T. Putkunz, Harry M. Quiney, and Keith A. Nugent

Tuning surface plasmon-exciton coupling via thickness dependent plasmon damping *(6 pages)* 235402
Sinan Balci, Coskun Kocabas, Simge Ates, Ertugrul Karademir, Omer Salihoglu, and Atilla Aydinli

Manipulation of organic polyradicals in a single-molecule transistor *(5 pages)* 235403
J. Fock, M. Leijnse, K. Jennum, A. S. Zyazin, J. Paaske, P. Hedegård, M. Brøndsted Nielsen, and H. S. J. van der Zant

Superfluidity and collective properties of excitonic polaritons in gapped graphene in a microcavity *(9 pages)* 235404
Oleg L. Berman, Roman Ya. Kezerashvili, and Klaus Ziegler

Stress-induced patterns in ion-irradiated silicon: Model based on anisotropic plastic flow *(11 pages)* 235405
Scott A. Norris

Rings and Coulomb boxes in dissipative environments *(18 pages)* 235406
Yoav Etzioni, Baruch Horovitz, and Pierre Le Doussal

Incommensurate Moiré overlayer with strong local binding: CoO(111) bilayer on Ir(100) *(9 pages)* 235407
C. Tröppner, T. Schmitt, M. Reuschl, L. Hammer, M. A. Schneider, F. Mittendorfer, J. Redinger, R. Podloucky, and M. Weinert

Contact-induced spin relaxation in Hanle spin precession measurements *(8 pages)* 235408
T. Maassen, I. J. Vera-Marun, M. H. D. Guimarães, and B. J. van Wees

Spin-dependent Smoluchowski effect *(4 pages)* 235409
O. P. Polyakov, M. Corbetta, O. V. Stepanyuk, H. Oka, A. M. Saletsky, D. Sander, V. S. Stepanyuk, and J. Kirschner

Impalement dynamics and Brownian motion of solid islands on nanopillars *(12 pages)* 235410
M. Ignacio and O. Pierre-Louis

Self-similar occurrence of massless Dirac particles in graphene under a magnetic field *(15 pages)* 235411
Jun-Won Rhim and Kwon Park

Four-wave mixing microscopy with electronic contrast of individual carbon nanotubes *(13 pages)* 235412
Tatyana Sheps, Jordan Brocious, Brad L. Corso, O. Tolga Gül, Desiré Whitmore, Göksel Durkaya, Eric O. Potma, and Philip G. Collins

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 86, NUMBER 23** **DECEMBER 2012-15(I)**

Argon-assisted growth of epitaxial graphene on Cu(111) *(7 pages)* 235413
Zachary R. Robinson, Parul Tyagi, Tyler R. Mowll, Carl A. Ventrice Jr., and James B. Hannon

Ion beam induced surface patterns due to mass redistribution and curvature-dependent sputtering *(9 pages)* 235414
Omar Bobes, Kun Zhang, and Hans Hofsäss

Orbital-dependent electron tunneling within the atom superposition approach: Theory and application to W(110) *(11 pages)* 235415
Krisztián Palotás, Gábor Mándi, and László Szunyogh

Helical states in curved bilayer graphene *(4 pages)* 235416
Jelena Klinovaja, Gerson J. Ferreira, and Daniel Loss

Ab initio transport fingerprints for resonant scattering in graphene *(7 pages)* 235417
Karri Saloriutta, Andreas Uppstu, Ari Harju, and Martti J. Puska

Spatial inhomogeneities at the $LaAlO_3/SrTiO_3$ interface: Evidence from second harmonic generation *(5 pages)* 235418
T. Günter, A. Rubano, D. Paparo, M. Lilienblum, L. Marrucci, F. Miletto Granozio, U. Scotti di Uccio, R. Jany, C. Richter, J. Mannhart, and M. Fiebig

Decoherence effects on weak value measurements in double quantum dots *(15 pages)* 235419
Mark Thomas and Alessandro Romito

Controlled energy transfer between isolated donor-acceptor molecules intercalated in thermally self-ensemble two-dimensional hydrogen bonding cages *(7 pages)* 235420
Hameed A. Al Attar and Andrew P. Monkman

Electronic transport at monolayer-bilayer junctions in epitaxial graphene on SiC *(7 pages)* 235422
F. Giannazzo, I. Deretzis, A. La Magna, F. Roccaforte, and R. Yakimova

Efros-Shklovskii variable-range hopping in reduced graphene oxide sheets of varying carbon sp^2 fraction *(8 pages)* 235423
Daeha Joung and Saiful I. Khondaker

Interplay of intra- and interband absorption in a disordered graphene *(7 pages)* 235424
F. T. Vasko, V. V. Mitin, V. Ryzhii, and T. Otsuji

Tamm plasmon polaritons in multilayered cylindrical structures *(9 pages)* 235425
C. E. Little, R. Anufriev, I. Iorsh, M. A. Kaliteevski, R. A. Abram, and S. Brand

ac Josephson transport through interacting quantum dots *(8 pages)* 235427
Bastian Hiltscher, Michele Governale, and Jürgen König

Superemitters in hybrid photonic systems: A simple lumping rule for the local density of optical states and its breakdown at the unitary limit *(6 pages)* 235428
Martin Frimmer and A. Femius Koenderink

Majorana zero modes in semiconductor nanowires in contact with higher-T_c superconductors *(12 pages)* 235429
Younghyun Kim, Jennifer Cano, and Chetan Nayak

Strong magnetic anisotropy of chemically bound Co dimers in a graphene sheet *(7 pages)* 235430
Hem C. Kandpal, Klaus Koepernik, and Manuel Richter

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 86, NUMBER 23** **DECEMBER 2012-15(I)**

Role of functional groups in surface bonding of planar π-conjugated molecules *(11 pages)* 235431
Oliver Bauer, Giuseppe Mercurio, Martin Willenbockel, Werner Reckien, Christoph Heinrich Schmitz, Benjamin Fiedler, Serguei Soubatch, Thomas Bredow, Frank Stefan Tautz, and Moritz Sokolowski

Fermionic superoperators for zero-temperature nonlinear transport: Real-time perturbation theory and renormalization group for Anderson quantum dots *(41 pages)* 235432
R. B. Saptsov and M. R. Wegewijs

Enhancement of electron-nuclear hyperfine interaction at lattice defects in semiconducting single-walled carbon nanotubes studied by *ab initio* density functional theory calculations *(5 pages)* 235433
V. Zólyomi, V. Ivády, and A. Gali

Nonlinear damping in graphene resonators *(9 pages)* 235435
Alexander Croy, Daniel Midtvedt, Andreas Isacsson, and Jari M. Kinaret

Tuning substrate-mediated magnetic interactions by external surface charging: Co and Fe impurities on Cu(111) *(8 pages)* 235436
L. Juárez-Reyes, G. M. Pastor, and V. S. Stepanyuk

Role of hybridization in the Rashba splitting of noble metal monolayers on W(110) *(7 pages)* 235437
M. Hortamani and R. Wiesendanger

Optical Hall conductivity in bulk and nanostructured graphene beyond the Dirac approximation *(7 pages)* 235438
Jesper Goor Pedersen, Mikkel H. Brynildsen, Horia D. Cornean, and Thomas Garm Pedersen

Local deformations and incommensurability of high-quality epitaxial graphene on a weakly interacting transition metal *(8 pages)* 235439
Nils Blanc, Johann Coraux, Chi Vo-Van, Alpha T. N'Diaye, Olivier Geaymond, and Gilles Renaud

Excitation of terahertz surface plasmons on graphene surfaces by an elementary dipole and quantum emitter: Strong electrodynamic effect of dielectric support *(9 pages)* 235440
George W. Hanson, Ebrahim Forati, Whitney Linz, and Alexander B. Yakovlev

Weak localization scattering lengths in epitaxial, and CVD graphene *(5 pages)* 235441
A. M. R. Baker, J. A. Alexander-Webber, T. Altebaeumer, T. J. B. M. Janssen, A. Tzalenchuk, S. Lara-Avila, S. Kubatkin, R. Yakimova, C.-T. Lin, L.-J. Li, and R. J. Nicholas

Extremely strong room-temperature transient photocurrent-detected magnetic resonance in organic devices *(7 pages)* 235442
Ying Chen, Rui Liu, Min Cai, Ruth Shinar, and Joseph Shinar

Two-dimensional electronic transport on the surface of three-dimensional topological insulators *(12 pages)* 235443
Qiuzi Li, E. Rossi, and S. Das Sarma

Visibility recovery by strong interaction in an electronic Mach-Zehnder interferometer *(8 pages)* 235444
Soo-Yong Lee, Hyun-Woo Lee, and H.-S. Sim

Faraday rotation and circular dichroism spectra of gold and silver nanoparticle aggregates *(10 pages)* 235445
Sahar Pakdel and MirFaez Miri

Terahertz optical properties of multilayer graphene: Experimental observation of strong dependence on stacking arrangements and misorientation angles *(6 pages)* 235446
I-Tan Lin, Jia-Ming Liu, Kai-Yao Shi, Pei-Shan Tseng, Kuang-Hsiung Wu, Chih-Wei Luo, and Lain-Jong Li

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 86, NUMBER 23** **DECEMBER 2012-15(I)**

Leggett-Garg inequality in electron interferometers *(10 pages)* 235447
Clive Emary, Neill Lambert, and Franco Nori

Symmetry-dependent transport properties and bipolar spin filtering in zigzag α-graphyne nanoribbons *(8 pages)* 235448
Qu Yue, Shengli Chang, Jichun Tan, Shiqiao Qin, Jun Kang, and Jingbo Li

Multiple light-coupling modes of confined excitons observable in photoluminescence spectra of high-quality CuCl thin films *(5 pages)* 235449
L. Q. Phuong, M. Ichimiya, H. Ishihara, and M. Ashida

ERRATA

Erratum: Strong enhancement of Rashba spin-orbit coupling with increasing anisotropy in the Fock-Darwin states of a quantum dot [Phys. Rev. B **85**, 153301 (2012)] *(1 page)* . . . . . 239901(E)
Siranush Avetisyan, Pekka Pietiläinen, and Tapash Chakraborty

Publisher's Note: Using gate-modulated Raman scattering and electron-phonon interactions to probe single-layer graphene: A different approach to assign phonon combination modes [Phys. Rev. B **86**, 195434 (2012)] *(1 page)* . . . . . 239902(E)
D. L. Mafra, J. Kong, K. Sato, R. Saito, M. S. Dresselhaus, and P. T. Araujo

Erratum: Structure and electronic properties of cerium orthophosphate: Theory and experiment [Phys. Rev. B **83**, 205104 (2011)] *(1 page)* . . . . . 239903(E)
Nicole Adelstein, B. Simon Mun, Hannah L. Ray, Philip N. Ross, Jr., Jeffrey B. Neaton, and Lutgard C. De Jonghe

Publisher's Note: Fractional power-law behavior and its origin in iron-chalcogenide and ruthenate superconductors: Insights from first-principles calculations [Phys. Rev. B **86**, 195141 (2012)] *(1 page)* . . . . . 239904(E)
Z. P. Yin, K. Haule, and G. Kotliar

Erratum: Effective mass modeling of excitons in type-II quantum dot heterostructures [Phys. Rev. B **84**, 165328 (2011)] *(1 page)* . . . . . 239905(E)
E. J. Tyrrell and J. M. Smith