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 79, NUMBER 20 *CONTENTS* **MAY 2009-15(II)**

RAPID COMMUNICATIONS

Electronic structure: wide-band, narrow-band, and strongly correlated systems

Pressure-induced quenching of the charge-density-wave state in rare-earth tritellurides observed by x-ray diffraction *(4 pages)* . . . . . 201101(R)
A. Sacchetti, C. L. Condron, S. N. Gvasaliya, F. Pfuner, M. Lavagnini, M. Baldini, M. F. Toney, M. Merlini, M. Hanfland, J. Mesot, J.-H. Chu, I. R. Fisher, P. Postorino, and L. Degiorgi

Critical reexamination of resonant soft x-ray Bragg forbidden reflections in magnetite *(4 pages)* . . . . . 201102(R)
S. B. Wilkins, S. Di Matteo, T. A. W. Beale, Y. Joly, C. Mazzoli, P. D. Hatton, P. Bencok, F. Yakhou, and V. A. M. Brabers

Subwavelength dynamic focusing in plasmonic nanostructures using time reversal *(4 pages)* . . . . . 201103(R)
Guy Bartal, Geoffroy Lerosey, and Xiang Zhang

Optimal representation of the polarization propagator for large-scale *GW* calculations *(4 pages)* . . . . . 201104(R)
P. Umari, Geoffrey Stenuit, and Stefano Baroni

Linear-scaling self-consistent implementation of the van der Waals density functional *(4 pages)* . . . . . 201105(R)
Andris Gulans, Martti J. Puska, and Risto M. Nieminen

Gradient-dependent density functionals of the Perdew-Burke-Ernzerhof type for atoms, molecules, and solids *(4 pages)* . . . . . 201106(R)
Luana S. Pedroza, Antonio J. R. da Silva, and K. Capelle

Semiconductors I: bulk

Unraveling the Jahn-Teller effect in Mn-doped GaN using the Heyd-Scuseria-Ernzerhof hybrid functional *(4 pages)* . . . . . 201201(R)
A. Stroppa and G. Kresse

Role of electron-hole pair formation in organic magnetoresistance *(4 pages)* . . . . . 201202(R)
Sayani Majumdar, Himadri S. Majumdar, Harri Aarnio, Dirk Vanderzande, Reino Laiho, and Ronald Österbacka

Low-temperature transport in highly boron-doped nanocrystalline diamond *(4 pages)* . . . . . 201203(R)
P. Achatz, W. Gajewski, E. Bustarret, C. Marcenat, R. Piquerel, C. Chapelier, T. Dubouchet, O. A. Williams, K. Haenen, J. A. Garrido, and M. Stutzmann

Origin of the anatase to rutile conversion of metal-doped TiO_2 *(4 pages)* . . . . . 201204(R)
Sa Li and P. Jena

Copyright 2009 by The American Physical Society

(Continued)

1098-0121(20090515)79:20;1-A

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 79, NUMBER 20 MAY 2009-15(II)

When to trust photoelectron spectra from Kohn-Sham eigenvalues: The case of organic semiconductors *(4 pages)* . . . . . 201205(R)
T. Körzdörfer, S. Kümmel, N. Marom, and L. Kronik

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

Nonmonotonic size dependence of the dark/bright exciton splitting in GaAs nanocrystals *(4 pages)* . . . . . 201301(R)
J. W. Luo, A. Franceschetti, and A. Zunger

Reduced quantum confinement effect and electron-hole separation in SiGe nanowires *(4 pages)* . . . . . 201302(R)
Michele Amato, Maurizia Palummo, and Stefano Ossicini

Signatures of the ultrastrong light-matter coupling regime *(4 pages)* . . . . . 201303(R)
Aji A. Anappara, Simone De Liberato, Alessandro Tredicucci, Cristiano Ciuti, Giorgio Biasiol, Lucia Sorba, and Fabio Beltram

Observation of three-dimensional behavior in surface states of bismuth nanowires and the evidence for bulk-Bi surface quasiparticles *(4 pages)* . . . . . 201304(R)
T. E. Huber, A. Nikolaeva, L. Konopko, and M. J. Graf

Collective single-mode precession of electron spins in an ensemble of singly charged (In,Ga)As/GaAs quantum dots *(4 pages)* . . . . . 201305(R)
A. Greilich, S. Spatzek, I. A. Yugova, I. A. Akimov, D. R. Yakovlev, Al. L. Efros, D. Reuter, A. D. Wieck, and M. Bayer

Ultrafast nonlinear optical response of photoexcited Ge/SiGe quantum wells: Evidence for a femtosecond transient population inversion *(4 pages)* . . . . . 201306(R)
C. Lange, N. S. Köster, S. Chatterjee, H. Sigg, D. Chrastina, G. Isella, H. von Känel, M. Schäfer, M. Kira, and S. W. Koch

Confined longitudinal acoustic phonon modes in free-standing Si membranes coherently excited by femtosecond laser pulses *(4 pages)* . . . . . 201307(R)
Florian Hudert, Axel Bruchhausen, Daniel Issenmann, Olivier Schecker, Reimar Waitz, Artur Erbe, Elke Scheer, Thomas Dekorsy, Adnen Mlayah, and Jean-Roch Huntzinger

Conductance anomaly and Fano factor reduction in quantum point contacts *(4 pages)* . . . . . 201308(R)
Shuji Nakamura, Masayuki Hashisaka, Yoshiaki Yamauchi, Shinya Kasai, Teruo Ono, and Kensuke Kobayashi

Quantum Monte Carlo calculations of the energy-level alignment at hybrid interfaces: Role of many-body effects *(4 pages)* . . . . . 201309(R)
Zhigang Wu, Yosuke Kanai, and Jeffrey C. Grossman

Scattering processes between bipolaron and exciton in conjugated polymers *(4 pages)* . . . . . 201310(R)
Z. Sun, Y. Li, S. J. Xie, Z. An, and D. S. Liu

Surface physics, nanoscale physics, low-dimensional systems

Geometry-driven shift in the Tomonaga-Luttinger exponent of deformed cylinders *(4 pages)* . . . . . 201401(R)
Hiroyuki Shima, Hideo Yoshioka, and Jun Onoe

High-order vibration modes of bimetallic Ag-Au nanoparticles embedded in glass *(4 pages)* . . . . . 201402(R)
S. Adichtchev, S. Sirotkin, G. Bachelier, L. Saviot, S. Etienne, B. Stephanidis, E. Duval, and A. Mermet

(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 79, NUMBER 20 MAY 2009-15(II)

Rigorous construction of ground state correlations in graphene: Renormalization of the velocities and Ward identities *(4 pages)* . . . . . 201403(R)
Alessandro Giuliani and Vieri Mastropietro

Crossover from quantum to Boltzmann transport in graphene *(4 pages)* . . . . . 201404(R)
Shaffique Adam, Piet W. Brouwer, and S. Das Sarma

Interactions between Fermi surfaces and Brillouin zone boundaries and phase stability of embedded metallic nanoparticles *(4 pages)* . . . . . 201405(R)
Y. Nagai, T. Toyama, Z. Tang, K. Inoue, T. Chiba, M. Hasegawa, S. Hirosawa, and T. Sato

Chirality induced by surface strain studied using scanning tunneling microscopy *(4 pages)* . . . . . 201406(R)
Laurent Guillemot and Kirill Bobrov

ARTICLES

Electronic structure: wide-band, narrow-band, and strongly correlated systems

Negative effective-mass transition and anomalous transport in power-law hopping bands *(6 pages)* 205101
Shimul Akhanjee

Creation and manipulation of anyons in a layered superconductor–two-dimensional electron gas system *(17 pages)* 205102
G. Rosenberg, B. Seradjeh, C. Weeks, and M. Franz

Hybrid density functional theory applied to magnetite: Crystal structure, charge order, and phonons *(18 pages)* 205103
Andrew D. Rowan, Charles H. Patterson, and L. V. Gasparov

Thermal and electronic properties of $CePd_3In_2$ *(5 pages)* 205104
H. Kaldarar, E. Royanian, H. Michor, G. Hilscher, E. Bauer, A. Gribanov, D. Shtepa, P. Rogl, A. Grytsiv, Y. Seropegin, and S. Nesterenko

Effects of Coulomb interaction on the electronic structure and lattice dynamics of the Mott insulator Fe_2SiO_4 spinel *(10 pages)* 205105
Mariana Derzsi, Przemysław Piekarz, Paweł T. Jochym, Jan Łażewski, Małgorzata Sternik, Andrzej M. Oleś, and Krzysztof Parlinski

Electronic structure and electron-phonon coupling of doped graphene layers in KC_8 *(9 pages)* 205106
A. Grüneis, C. Attaccalite, A. Rubio, D. V. Vyalikh, S. L. Molodtsov, J. Fink, R. Follath, W. Eberhardt, B. Büchner, and T. Pichler

Edge states of a spin-$\frac{1}{2}$ two-leg ladder with four-spin ring exchange *(5 pages)* 205107
Mitsuhiro Arikawa, Shou Tanaya, Isao Maruyama, and Yasuhiro Hatsugai

Correlations of the local density of states in quasi-one-dimensional wires *(15 pages)* 205108
D. A. Ivanov, P. M. Ostrovsky, and M. A. Skvortsov

Metal-insulator transition in cluster dynamical mean field theory: Intersite correlation, cluster size, interaction strength, and the location of the transition line *(13 pages)* 205109
Chungwei Lin and Andrew J. Millis

Validity of the equation-of-motion approach to the Kondo problem in the large-N limit *(5 pages)* 205110
Yunong Qi, Jian-Xin Zhu, and C. S. Ting

(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 79, NUMBER 20 MAY 2009-15(II)

Lehmann-Symanzik-Zimmermann reduction approach to multiphoton scattering in coupled-resonator arrays *(14 pages)* 205111
T. Shi and C. P. Sun

Spin Bose-metal phase in a spin-$\frac{1}{2}$ model with ring exchange on a two-leg triangular strip *(29 pages)* 205112
D. N. Sheng, Olexei I. Motrunich, and Matthew P. A. Fisher

Theory of the color change of Na_xWO_3 as a function of Na-charge doping *(4 pages)* 205113
Yu Xue, Yong Zhang, and Peihong Zhang

Efficient calculation of exact exchange and RPA correlation energies in the adiabatic-connection fluctuation-dissipation theory *(12 pages)* 205114
Huy-Viet Nguyen and Stefano de Gironcoli

Current-current correlations in the three-band model for two-leg CuO ladders: Density-matrix renormalization group study *(5 pages)* 205115
S. Nishimoto, E. Jeckelmann, and D. J. Scalapino

Photoemission study of electronic structure of the half-metallic ferromagnet $Co_3Sn_2S_2$ *(7 pages)* 205116
M. Holder, Yu. S. Dedkov, A. Kade, H. Rosner, W. Schnelle, A. Leithe-Jasper, R. Weihrich, and S. L. Molodtsov

Density functional theory and quantum computation *(7 pages)* 205117
Frank Gaitan and Franco Nori

Large system asymptotics of persistent currents in mesoscopic quantum rings *(11 pages)* 205118
A. Gendiar, R. Krcmar, and M. Weyrauch

Non-d^0 Mn-driven ferroelectricity in antiferromagnetic $BaMnO_3$ *(6 pages)* 205119
James M. Rondinelli, Aaron S. Eidelson, and Nicola A. Spaldin

Statistics of the two-point transmission at Anderson localization transitions *(9 pages)* 205120
Cécile Monthus and Thomas Garel

Localization properties of one-dimensional Frenkel excitons: Gaussian versus Lorentzian diagonal disorder *(8 pages)* 205121
S. M. Vlaming, V. A. Malyshev, and J. Knoester

Semiconductors I: bulk

Hydrogen in anion vacancies of semiconductors *(6 pages)* 205201
Mao-Hua Du and David J. Singh

High-density amorphous phase of GeS_2 glass under pressure *(7 pages)* 205202
Murat Durandurdu

Hybridization between the conduction band and 3*d* orbitals in the oxide-based diluted magnetic semiconductor $In_{2-x}V_xO_3$ *(5 pages)* 205203
M. Kobayashi, Y. Ishida, J. I. Hwang, G. S. Song, M. Takizawa, A. Fujimori, Y. Takeda, T. Ohkochi, T. Okane, Y. Saitoh, H. Yamagami, Amita Gupta, H. T. Cao, and K. V. Rao

Chemical trend of exchange coupling in diluted magnetic II-VI semiconductors: *Ab initio* calculations *(8 pages)* 205204
T. Chanier, F. Virot, and R. Hayn

(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 79, NUMBER 20 MAY 2009-15(II)

Valence-band electronic structure of CdO, ZnO, and MgO from x-ray photoemission spectroscopy and quasi-particle-corrected density-functional theory calculations *(6 pages)* 205205
P. D. C. King, T. D. Veal, A. Schleife, J. Zúñiga-Pérez, B. Martel, P. H. Jefferson, F. Fuchs, V. Muñoz-Sanjosé, F. Bechstedt, and C. F. McConville

Magnetization study of nanograined pure and Mn-doped ZnO films: Formation of a ferromagnetic grain-boundary foam *(6 pages)* 205206
Boris B. Straumal, Andrei A. Mazilkin, Svetlana G. Protasova, Ata A. Myatiev, Petr B. Straumal, Gisela Schütz, Peter A. van Aken, Eberhard Goering, and Brigitte Baretzky

Nitrogen-pair paramagnetic defects in diamond: A density functional study *(11 pages)* 205207
K. M. Etmimi, M. E. Ahmed, P. R. Briddon, J. P. Goss, and A. M. Gsiea

Analytical model for photoluminescence quenching via Förster resonant energy transfer in a conjugated polymer doped by energy acceptors *(10 pages)* 205208
S. A. Zapunidi, Yu. V. Krylova, and D. Yu. Paraschuk

Giant magnetoresistance of magnetic semiconductor heterojunctions *(5 pages)* 205209
N. Rangaraju, Pengcheng Li, and B. W. Wessels

Shallow impurity absorption spectroscopy in isotopically enriched silicon *(7 pages)* 205210
M. Steger, A. Yang, D. Karaiskaj, M. L. W. Thewalt, E. E. Haller, J. W. Ager, III, M. Cardona, H. Riemann, N. V. Abrosimov, A. V. Gusev, A. D. Bulanov, A. K. Kaliteevskii, O. N. Godisov, P. Becker, and H.-J. Pohl

Band gap, electronic structure, and surface electron accumulation of cubic and rhombohedral In_2O_3 *(10 pages)* 205211
P. D. C. King, T. D. Veal, F. Fuchs, Ch. Y. Wang, D. J. Payne, A. Bourlange, H. Zhang, G. R. Bell, V. Cimalla, O. Ambacher, R. G. Egdell, F. Bechstedt, and C. F. McConville

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

Collective states of non-Abelian quasiparticles in a magnetic field *(11 pages)* 205301
Michael Levin and Bertrand I. Halperin

Model of transport properties of thermoelectric nanocomposite materials *(7 pages)* 205302
A. Popescu, L. M. Woods, J. Martin, and G. S. Nolas

Transport in molecular states language: Generalized quantum master equation approach *(12 pages)* 205303
Massimiliano Esposito and Michael Galperin

Modeling of dark current in midinfrared quantum well infrared photodetectors *(10 pages)* 205304
Fabrizio Castellano, Fausto Rossi, Jerome Faist, Emmanuel Lhuillier, and Vincent Berger

Anisotropic plasmons in a two-dimensional electron gas with spin-orbit interaction *(5 pages)* 205305
S. M. Badalyan, A. Matos-Abiague, G. Vignale, and J. Fabian

Quantum phase transitions in an array of coupled nanocavity quantum dots *(9 pages)* 205306
Michal Grochol

Inversion of hysteresis in quantum dot controlled quantum-wire transistor *(6 pages)* 205307
C. R. Müller, L. Worschech, and A. Forchel

Theoretical investigation of how edge states are destroyed in disordered mesoscopic samples *(5 pages)* 205308
Zhenhua Qiao, Jian Wang, Qingfeng Sun, and Hong Guo

Fano resonances in quantum wires with impurities and a transverse electric field *(14 pages)* 205309
Vassilios Vargiamidis and Vassilios Fessatidis

(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 79, NUMBER 20 MAY 2009-15(II)

Large magnetoresistance of a dilute *p*-Si/SiGe/Si quantum well in a parallel magnetic field *(5 pages)* 205310
I. L. Drichko, I. Yu. Smirnov, A. V. Suslov, O. A. Mironov, and D. R. Leadley

Charged-impurity-induced dephasing of a voltage-controlled coded qubit based on electron spin in a triple quantum dot *(8 pages)* 205311
Irene Puerto Gimenez, Chang-Yu Hsieh, Marek Korkusinski, and Pawel Hawrylak

Reactive epitaxial growth of MnSi ultrathin films on Si(111) by Mn deposition *(7 pages)* 205312
Shougo Higashi, Pavel Kocán, and Hiroshi Tochihara

Formation and control of a correlated exciton two-qubit system in a coupled quantum dot *(7 pages)* 205313
Keishiro Goshima, Kazuhiro Komori, Takeyoshi Sugaya, and Toshihide Takagahara

Spin susceptibility and polarization field in a dilute two-dimensional electron system in (111) silicon *(4 pages)* 205314
A. A. Kapustin, A. A. Shashkin, V. T. Dolgopolov, M. Goiran, H. Rakoto, and Z. D. Kvon

Factorization of quantum charge transport for noninteracting fermions *(9 pages)* 205315
Alexander G. Abanov and D. A. Ivanov

Gibbs-Thomson and diffusion-induced contributions to the growth rate of Si, InP, and GaAs nanowires *(7 pages)* 205316
V. G. Dubrovskii, N. V. Sibirev, G. E. Cirlin, I. P. Soshnikov, W. H. Chen, R. Larde, E. Cadel, P. Pareige, T. Xu, B. Grandidier, J.-P. Nys, D. Stievenard, M. Moewe, L. C. Chuang, and C. Chang-Hasnain

Nitrogen 1*s* NEXAFS and XPS spectroscopy of NH_3-saturated Si(001)-2×1: Theoretical predictions and experimental observations at 300 K *(13 pages)* 205317
C. Mathieu, Xuxu Bai, F. Bournel, J.-J. Gallet, S. Carniato, F. Rochet, F. Sirotti, M. G. Silly, C. Chauvet, D. Krizmancic, and F. Hennies

Epitaxial and layer-by-layer growth of EuO thin films on yttria-stabilized cubic zirconia (001) using MBE distillation *(9 pages)* 205318
R. Sutarto, S. G. Altendorf, B. Coloru, M. Moretti Sala, T. Haupricht, C. F. Chang, Z. Hu, C. Schüßler-Langeheine, N. Hollmann, H. Kierspel, H. H. Hsieh, H.-J. Lin, C. T. Chen, and L. H. Tjeng

Nonmonotonic magnetoresistance of two-dimensional electron systems in the ballistic regime *(4 pages)* 205319
A. Yu. Kuntsevich, G. M. Minkov, A. A. Sherstobitov, and V. M. Pudalov

Phase study of oscillatory resistances in microwave-irradiated- and dark-GaAs/AlGaAs devices: Indications of an unfamiliar class of the integral quantum Hall effect *(10 pages)* 205320
R. G. Mani, W. B. Johnson, V. Umansky, V. Narayanamurti, and K. Ploog

Spectroscopic access to single-hole energies in InAs/GaAs quantum dots *(7 pages)* 205321
E. Siebert, T. Warming, A. Schliwa, E. Stock, M. Winkelnkemper, S. Rodt, and D. Bimberg

Efficient wave-function matching approach for quantum transport calculations *(10 pages)* 205322
Hans Henrik B. Sørensen, Per Christian Hansen, Dan Erik Petersen, Stig Skelboe, and Kurt Stokbro

Field-driven geometrical phases in a time-periodic quantum system *(6 pages)* 205323
P. Brusheim and H. Q. Xu

Surface physics, nanoscale physics, low-dimensional systems

Electric-field induced spin textures in a superlattice with Rashba and Dresselhaus spin-orbit coupling *(8 pages)* 205401
D. V. Khomitsky

(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 79, NUMBER 20 MAY 2009-15(II)

Optoelectronic sensitization of carbon nanotubes by CdTe nanocrystals *(7 pages)* 205402
B. Zebli, H. A. Vieyra, I. Carmeli, A. Hartschuh, J. P. Kotthaus, and A. W. Holleitner

Pattern evolution on previously rippled Au(001) by crossing-ion-beam sputtering *(8 pages)* 205403
J.-H. Kim, M. Joe, S.-P. Kim, N.-B. Ha, K.-R. Lee, B. Kahng, and J.-S. Kim

Gate coupling to nanoscale electronics *(9 pages)* 205404
Sujit S. Datta, Douglas R. Strachan, and A. T. Charlie Johnson

Dynamical charge and structural strain in inorganic fullerenelike MoS_2 nanoparticles *(6 pages)* 205405
Q.-C. Sun, X. S. Xu, L. I. Vergara, R. Rosentsveig, and J. L. Musfeldt

Quasienergy spectra of graphene dots in intense ac fields: Field anisotropy and photon-dressed quantum rings *(5 pages)* 205406
P. H. Rivera, A. L. C. Pereira, and P. A. Schulz

Diffusion-limited exciton-exciton annihilation in single-walled carbon nanotubes: A time-dependent analysis *(7 pages)* 205407
Ajit Srivastava and Junichiro Kono

Phonon-phonon interactions and phonon damping in carbon nanotubes *(14 pages)* 205408
Alessandro De Martino, Reinhold Egger, and Alexander O. Gogolin

Facets of nanotube synthesis: High-resolution transmission electron microscopy study and density functional theory calculations *(6 pages)* 205409
Gavi E. Begtrup, Will Gannett, Jannik C. Meyer, Thomas D. Yuzvinsky, Elif Ertekin, Jeffrey C. Grossman, and Alex Zettl

Electronic structure of Ge(111)$c(2\times8)$: STM, angle-resolved photoemission, and theory *(8 pages)* 205410
I. Razado-Colambo, Jiangping He, H. M. Zhang, G. V. Hansson, and R. I. G. Uhrberg

Spatially resolved spectroscopy of monolayer graphene on SiO_2 *(6 pages)* 205411
A. Deshpande, W. Bao, F. Miao, C. N. Lau, and B. J. LeRoy

Correlations in coverage-dependent atomic adsorption energies on Pd(111) *(6 pages)* 205412
John R. Kitchin

Density functional theory study of the energetics, electronic structure, and core-level shifts of NO adsorption on the Pt(111) surface *(13 pages)* 205413
Zhen-Hua Zeng, Juarez L. F. Da Silva, Hui-Qiu Deng, and Wei-Xue Li

Thin film evolution: Dewetting dynamics of a bimodal molecular system *(6 pages)* 205414
J. M. Topple, S. A. Burke, S. Fostner, and P. Grütter

Geometric and electronic structures of hydrogenated transition metal (Sc, Ti, Zr) clusters *(11 pages)* 205415
T. J. Dhilip Kumar, P. Tarakeshwar, and N. Balakrishnan

Generation of entangled photon pairs from a single quantum dot embedded in a planar photonic-crystal cavity *(6 pages)* 205416
P. K. Pathak and S. Hughes

Low temperature electrical transport in ferromagnetic Ni nanowires *(8 pages)* 205417
M. Venkata Kamalakar and A. K. Raychaudhuri

Thermal conductance of graphene and dimerite *(6 pages)* 205418
Jin-Wu Jiang, Jian-Sheng Wang, and Baowen Li

Faceting at the step flow threshold in epitaxial growth on patterned surfaces *(5 pages)* 205419
Aleksy K. Jones, Anders Ballestad, Tian Li, Michael Whitwick, Jörg Rottler, and T. Tiedje

(Continued)

Spatially resolved spectroscopy of monolayer graphene on SiO_2 *(6 pages)* 205411
A. Deshpande, W. Bao, F. Miao, C. N. Lau, and B. J. LeRoy

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 79, NUMBER 20 MAY 2009-15(II)

Quantum chaos in weakly disordered graphene *(6 pages)* 205420
I. Amanatidis and S. N. Evangelou

Transverse-field-induced effects in carbon nanotubes *(15 pages)* 205421
Wade DeGottardi, Tzu-Chieh Wei, and Smitha Vishveshwara

Electron transport across carbon nanotube junctions decorated with Au nanoparticles: Density functional calculations *(6 pages)* 205422
K. H. Khoo and James R. Chelikowsky

Surface phonon dispersion curves of thin Pb films on Cu(111) *(13 pages)* 205423
Jens Braun, Paolo Ruggerone, Ge Zhang, J. Peter Toennies, and Giorgio Benedek

Effect of thermally induced surface defects on the optical anisotropy of Ag(110) *(7 pages)* 205424
G. E. Isted, P. D. Lane, and R. J. Cole

Neutral triplet collective mode as a decay channel in graphite *(6 pages)* 205425
M. Ebrahimkhas and S. A. Jafari

Quantum confinement on nanoislands as a tool for tailoring exchange interaction: An *ab initio* study *(5 pages)* 205426
O. O. Brovko, W. Hergert, and V. S. Stepanyuk

Simulating STM transport in alkanes from first principles *(10 pages)* 205427
C. Toher, I. Rungger, and S. Sanvito

Boundary problems for Dirac electrons and edge-assisted Raman scattering in graphene *(22 pages)* 205428
D. M. Basko

Interaction and excitonic insulating transition in graphene *(7 pages)* 205429
Guo-Zhu Liu, Wei Li, and Geng Cheng

I-V curve signatures of nonequilibrium-driven band gap collapse in magnetically ordered zigzag graphene nanoribbon two-terminal devices *(16 pages)* 205430
Denis A. Areshkin and Branislav K. Nikolić

First-principles calculation and scanning tunneling microscopy study of highly oriented pyrolytic graphite (0001) *(5 pages)* 205431
E. Cisternas, F. Stavale, M. Flores, C. A. Achete, and P. Vargas

Low-energy theory and RKKY interaction for interacting quantum wires with Rashba spin-orbit coupling *(10 pages)* 205432
Andreas Schulz, Alessandro De Martino, Philip Ingenhoven, and Reinhold Egger

Uniaxial strain in graphene by Raman spectroscopy: *G* peak splitting, Grüneisen parameters, and sample orientation *(8 pages)* 205433
T. M. G. Mohiuddin, A. Lombardo, R. R. Nair, A. Bonetti, G. Savini, R. Jalil, N. Bonini, D. M. Basko, C. Galiotis, N. Marzari, K. S. Novoselov, A. K. Geim, and A. C. Ferrari

Resonant coherent phonon spectroscopy of single-walled carbon nanotubes *(19 pages)* 205434
G. D. Sanders, C. J. Stanton, J.-H. Kim, K.-J. Yee, Y.-S. Lim, E. H. Hároz, L. G. Booshehri, J. Kono, and R. Saito

Tunable band gap in graphene with a noncentrosymmetric superlattice potential *(5 pages)* 205435
Rakesh P. Tiwari and D. Stroud

(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 79, NUMBER 20 MAY 2009-15(II)

COMMENTS

Comment on "Stability and quality factor of a one-dimensional subwavelength cavity resonator containing a left-handed material" *(4 pages)* 207101
Jingjing Li, Lars Thylen, and Shih-Yuan Wang

Reply to ''Comment on 'Stability and quality factor of a one-dimensional subwavelength cavity resonator containing a left-handed material' '' *(2 pages)* 207102
Linfang Shen and Sanshui Xiao

ERRATA

Publisher's Note: Modeling and analysis of the three-dimensional current density in sandwich-type single-carrier devices of disordered organic semiconductors [Phys. Rev. B **79**, 085203 (2009)] *(1 page)* . . . . . 209901(E)
J. J. M. van der Holst, M. A. Uijttewaal, B. Ramachandhran, R. Coehoorn, P. A. Bobbert, G. A. de Wijs, and R. A. de Groot

Erratum: Calculation of the lattice constant of solids with semilocal functionals [Phys. Rev. B **79**, 085104 (2009)] *(1 page)* . . . . . 209902(E)
Philipp Haas, Fabien Tran, and Peter Blaha

Erratum: Effect of inelastic collisions on multiphonon Raman scattering in graphene [Phys. Rev. B **76**, 081405(R) (2007)] *(1 page)* . . . . . 209903(E)
D. M. Basko

Erratum: Electron-stimulated positive-ion desorption caused by charge transfer from adsorbate to substrate: Oxygen adsorbed on TiO_2(110) [Phys. Rev. B **79**, 081408 (2009)] *(1 page)* . . . . . 209904(E)
Junseok Lee, Zhen Zhang, and John T. Yates, Jr.

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).