

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 1N01
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 77, NUMBER 24

CONTENTS

JUNE 2008-15(II)

RAPID COMMUNICATIONS

Semiconductors I: bulk

- Magnetic interactions of Cr-Cr and Co-Co impurity pairs in ZnO within a band-gap corrected density functional approach (*4 pages*) 241201(R)
Stephan Lany, Hannes Raebiger, and Alex Zunger

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

- Manipulation of exchange coupling energy in a few-electron double quantum dot (*4 pages*) 241301(R)
T. Hatano, S. Amaha, T. Kubo, Y. Tokura, Y. Nishi, Y. Hirayama, and S. Tarucha
- Coherent Aharonov-Bohm oscillations in type-II (Zn,Mn)Te/ZnSe quantum dots (*4 pages*) 241302(R)
I. R. Sellers, V. R. Whiteside, A. O. Govorov, W. C. Fan, W-C. Chou, I. Khan, A. Petrou, and B. D. McCombe
- Two-electron bunching in transport through a quantum dot induced by Kondo correlations (*4 pages*) 241303(R)
O. Zarchin, M. Zaffalon, M. Heiblum, D. Mahalu, and V. Umansky
- Excitonic Mott transition in type-II quantum dots (*4 pages*) 241304(R)
Bhavtosh Bansal, M. Hayne, M. Geller, D. Bimberg, and V. V. Moshchalkov
- Single-particle excitations in periodically modulated two-dimensional electron gas (*4 pages*) 241305(R)
Manvir S. Kushwaha
- Quantum Hall states at $\nu = \frac{2}{k+2}$: Analysis of the particle-hole conjugates of the general level- k Read-Rezayi states (*4 pages*) 241306(R)
Waheb Bishara, Gregory A. Fiete, and Chetan Nayak
- Electron g -factor distribution in self-assembled quantum dots (*4 pages*) 241307(R)
Weidong Sheng, S. J. Xu, and Pawel Hawrylak
- Formation of Pt-induced Ge atomic nanowires on Pt/Ge(001): A density functional theory study (*4 pages*) 241308(R)
Danny E. P. Vanpoucke and Geert Brocks

Surface physics, nanoscale physics, low-dimensional systems

- Gigantic optical Pockels effect in water within the electric double layer at the electrode-solution interface (*4 pages*) 241401(R)
Yugo Nosaka, Masashi Hirabayashi, Takayoshi Kobayashi, and Eiji Tokunaga



Copyright 2008 by The American Physical Society



1098-0121(20080615)77:24;1-C

(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, 150001 (2008).

Orientation dependence of the optical spectra in graphene at high frequencies (<i>4 pages</i>)	241402(R)
Chao Zhang, Lei Chen, and Zhongshui Ma	
Nature of the constant factor in the relation between radial breathing mode frequency and tube diameter for single-wall carbon nanotubes (<i>4 pages</i>)	241403(R)
P. T. Araujo, I. O. Maciel, P. B. C. Pesce, M. A. Pimenta, S. K. Doorn, H. Qian, A. Hartschuh, M. Steiner, L. Grigorian, K. Hata, and A. Jorio	
Pit formation during graphene synthesis on SiC(0001): <i>In situ</i> electron microscopy (<i>4 pages</i>)	241404(R)
J. B. Hannon and R. M. Tromp	

ARTICLES

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

Enhanced Raman scattering in colloidal photonic crystals: A theoretical analysis (<i>7 pages</i>)	245101
Tetsuyuki Ochiai, Kazuaki Sakoda, and Tsutomu Sawada	
Equivalence of dipole correction and Coulomb cutoff techniques in supercell calculations (<i>6 pages</i>)	245102
Liping Yu, V. Ranjan, W. Lu, J. Bernholc, and M. Buongiorno Nardelli	
Tight-binding theory of manganese and iron oxides (<i>7 pages</i>)	245103
Walter A. Harrison	
Irreversible evolution of many-electron systems coupled to a statistical environment (<i>19 pages</i>)	245104
A. Gliesche, K. Maschke, and F. A. Reuse	
Fulde-Ferrell-Larkin-Ovchinnikov pairing in one-dimensional optical lattices (<i>7 pages</i>)	245105
M. Rizzi, Marco Polini, M. A. Cazalilla, M. R. Bakhtiari, M. P. Tosi, and Rosario Fazio	
Exchange-correlation orbital functionals in current-density functional theory: Application to a quantum dot in magnetic fields (<i>6 pages</i>)	245106
N. Helbig, S. Kurth, S. Pittalis, E. Räsänen, and E. K. U. Gross	
Nonempirical density functionals investigated for jellium: Spin-polarized surfaces, spherical clusters, and bulk linear response (<i>14 pages</i>)	245107
Jianmin Tao, John P. Perdew, Luís Miguel Almeida, Carlos Fiolhais, and Stephan Kümmel	
Angle-dependent quasiparticle weights in correlated metals (<i>9 pages</i>)	245108
Pouyan Ghaemi, T. Senthil, and P. Coleman	
Fidelity susceptibility, scaling, and universality in quantum critical phenomena (<i>5 pages</i>)	245109
Shi-Jian Gu (顾世建), Ho-Man Kwok (郭灝民), Wen-Qiang Ning (宁文强), and Hai-Qing Lin (林海青)	
Density-density functionals and effective potentials in many-body electronic structure calculations (<i>9 pages</i>)	245110
F. A. Reboredo and P. R. C. Kent	
Physical properties of the uranium ternary compounds $U_3Bi_4M_3$ ($M=Ni,Rh$) (<i>6 pages</i>)	245111
T. Klimczuk, Han-oh Lee, F. Ronning, T. Durakiewicz, N. Kurita, H. Volz, E. D. Bauer, T. McQueen, R. Movshovich, R. J. Cava, and J. D. Thompson	
☞ Numerical renormalization group study of two-channel three-impurity triangular clusters (<i>12 pages</i>)	245112
Rok Žitko and Janez Bonča	
Delocalization effect of the Hubbard repulsion in exact terms and two dimensions (<i>10 pages</i>)	245113
Zsolt Gulácsi	

(Continued)

Role of dipolar correlations in the infrared spectra of water and ice (5 pages)	245114
Wei Chen, Manu Sharma, Raffaele Resta, Giulia Galli, and Roberto Car	
Gauge-invariant real-space method for density functional calculations in an external magnetic field (13 pages)	245115
S. Janecek and E. Krotscheck	
Phase diagram of the Anderson-Falicov-Kimball model at half filling (4 pages)	245116
M. A. Gusmão	
Critical parameters for the disorder-induced metal-insulator transition in fcc and bcc lattices (8 pages)	245117
Andrzej Eilmes, Andrea M. Fischer, and Rudolf A. Römer	
Aspects of metallic low-temperature transport in Mott-insulator/band-insulator superlattices: Optical conductivity and thermoelectricity (11 pages)	245118
Andreas Rüegg, Sebastian Pilgram, and Manfred Sigrist	
Rise and fall of hidden string order of lattice bosons (14 pages)	245119
Erez Berg, Emanuele G. Dalla Torre, Thierry Giamarchi, and Ehud Altman	
Direct evidence for hidden one-dimensional Fermi surface of hexagonal $K_{0.25}WO_3$ (5 pages)	245120
S. Raj, T. Sato, S. Souma, T. Takahashi, D. D. Sarma, Priya Mahadevan, J. C. Campuzano, M. Greenblatt, and W. H. McCarroll	
Density of states and nonmagnetic impurity effects in electron-doped cuprates (5 pages)	245121
Bin Liu and Ying Liang	
Lattice relaxation effects on the interface electron states in the perovskite oxide heterostructures: $LaTiO_3$ monolayer embedded in $SrTiO_3$ (5 pages)	245122
P. Larson, Z. S. Popović, and S. Satpathy	
Magnetoresistance scaling in the layered cobaltate $Ca_3Co_4O_9$ (5 pages)	245123
P. Limelette, J. C. Soret, H. Muguerra, and D. Grebille	
Probing the electronic structure of pure and doped $CeMIn_5$ ($M=Co, Rh, Ir$) crystals with nuclear quadrupolar resonance (10 pages)	245124
Ján Rusz, Peter M. Oppeneer, Nicholas J. Curro, Ricardo R. Urbano, Ben-Li Young, S. Lebègue, Pascoal G. Pagliuso, Long D. Pham, Eric D. Bauer, John L. Sarrao, and Zachary Fisk	
Optohydrodynamic theory of particles in a dual-beam optical trap (5 pages)	245125
R. Gordon, M. Kawano, J. T. Blakely, and D. Sinton	
Anderson localization on Falicov-Kimball model with next-nearest-neighbor hopping and long-range correlated disorder (6 pages)	245126
D. O. Maionchi, A. M. C. Souza, H. J. Herrmann, and R. N. da Costa Filho	
$Tm^{3+}:Y_2O_3$ investigated for a quantum light storage application (7 pages)	245127
T. Chanelière, J. Ruggiero, J.-L. Le Gouët, W. Tittel, J.-H. Mun, A. Jouini, A. Yoshikawa, G. Boulon, Y. Le Du, Ph. Goldner, F. Beaudoux, J. Vincent, E. Antic-Fidancev, and O. Guillot-Noël	
Sum-rules for Raman scattering off strongly correlated electron systems (10 pages)	245128
Luca de' Medici, Antoine Georges, and Gabriel Kotliar	
Selective Mott transition and heavy fermions (25 pages)	245129
C. Pépin	
Dynamical aspects of two-dimensional quantum percolation (5 pages)	245130
Gerald Schubert and Holger Fehske	

(Continued)

Signatures of diffusion and ballistic transport in the stiffness, dynamical correlation functions, and statistics of one-dimensional systems (7 pages)	245131
Subroto Mukerjee and B. Sriram Shastry	
Nonlinear refraction of hard x rays (7 pages)	245132
A. Fratalocchi, C. Conti, G. Ruocco, and F. Sette	
Interplay between spin-glass-like and non-Fermi-liquid behavior in $\text{CeNi}_{1-x}\text{Rh}_x\text{Sn}$ (9 pages)	245133
A. Ślebarski, M. B. Maple, R. E. Baumbach, and T. A. Sayles	
Semiconductors I: bulk	
Light-induced nuclear quadrupolar relaxation in semiconductors (12 pages)	245201
D. Paget, T. Amand, and J.-P. Korb	
Defect energetics in ZnO: A hybrid Hartree-Fock density functional study (6 pages)	245202
Fumiyasu Oba, Atsushi Togo, Isao Tanaka, Joachim Paier, and Georg Kresse	
First-principles study of the electronic, optical, and lattice vibrational properties of AgSbTe_2 (6 pages)	245203
Lin-Hui Ye, Khang Hoang, A. J. Freeman, S. D. Mahanti, Jian He, Terry M. Tritt, and M. G. Kanatzidis	
Measurements of the energy band gap and valence band structure of AgSbTe_2 (8 pages)	245204
V. Jovicic and J. P. Heremans	
Electron paramagnetic resonance studies of silicon-related defects in diamond (11 pages)	245205
A. M. Edmonds, M. E. Newton, P. M. Martineau, D. J. Twitchen, and S. D. Williams	
Effect of exchange coupling on coherently controlled spin-dependent transition rates (7 pages)	245206
A. Gliesche, C. Michel, V. Rajevac, K. Lips, S. D. Baranovskii, F. Gebhard, and C. Boehme	
Mahan excitons in degenerate wurtzite InN: Photoluminescence spectroscopy and reflectivity measurements (6 pages)	245207
Martin Feneberg, Jürgen Däubler, Klaus Thonke, Rolf Sauer, Pascal Schley, and Rüdiger Goldhahn	
Evidence of substitutional Co ion clusters in $\text{Zn}_{1-x}\text{Co}_x\text{O}$ dilute magnetic semiconductors (6 pages)	245208
Zhihu Sun, Wensheng Yan, Guobin Zhang, Hiroyuki Oyanagi, Ziyu Wu, Qinghua Liu, Wenqing Wu, Tongfei Shi, Zhiyun Pan, Pengshou Xu, and Shiqiang Wei	
Electronic structure and phase stability of MgO, ZnO, CdO, and related ternary alloys (7 pages)	245209
Y. Z. Zhu, G. D. Chen, Honggang Ye, Aron Walsh, C. Y. Moon, and Su-Huai Wei	
Magnetic coupling and electric conduction in oxide diluted magnetic semiconductors (6 pages)	245210
H. Chou, C. P. Lin, J. C. A. Huang, and H. S. Hsu	
Energetic stability, electronic structure, and magnetism in Mn-doped silicon dilute magnetic semiconductors (7 pages)	245211
Qinghua Liu, Wensheng Yan, He Wei, Zhihu Sun, Zhiyun Pan, A. V. Soldatov, Cong Mai, Congjian Pei, Xinfeng Zhang, Yong Jiang, and Shiqiang Wei	
Decoherence dynamics of a single spin versus spin ensemble (6 pages)	245212
V. V. Dobrovitski, A. E. Feiguin, D. D. Awschalom, and R. Hanson	
Lattice dynamics and Raman scattering from GaN:Mn crystals (7 pages)	245213
W. Gebicki, P. Dominik, and S. Podsiadlo	

(Continued)

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

Carrier spin polarization in digital Mn/GaAs ferromagnetic structures studied with hot electron photoluminescence (6 pages)	245301
V. F. Sapega, A. Trampert, and K. H. Ploog	
Calculation of surface core-level shifts within complete screening: Problems with pseudohydrogenated slabs (7 pages)	245302
M. P. J. Punkkinen, K. Kokko, L. Vitos, P. Laukkanen, E. Airiskallio, M. Ropo, M. Ahola-Tuomi, M. Kuzmin, I. J. Väyrynen, and B. Johansson	
Hydrogen-induced metallization of zinc oxide (2110) surface and nanowires: The effect of curvature (7 pages)	245303
Chenchen Wang, Gang Zhou, Jia Li, Binghai Yan, and Wenhui Duan	
Quantum ratchet effects induced by terahertz radiation in GaN-based two-dimensional structures (12 pages)	245304
W. Weber, L. E. Golub, S. N. Danilov, J. Karch, C. Reitmaier, B. Wittmann, V. V. Bel'kov, E. L. Ivchenko, Z. D. Kvon, N. Q. Vinh, A. F. G. van der Meer, B. Murdin, and S. D. Ganichev	
States of interacting composite fermions at the Landau level filling $\nu=2+3/8$ (6 pages)	245305
Csaba Töke, Chuntai Shi, and Jainendra K. Jain	
Single-spin optical read-out in CdTe/ZnTe quantum dot studied by photon correlation spectroscopy (8 pages)	245306
J. Suffczyński, K. Kowalik, T. Kazimierzczuk, A. Trajnerowicz, M. Goryca, P. Kossacki, A. Golnik, M. Nawrocki, J. A. Gaj, and G. Karczewski	
Hysteretic magnetotransport in p -type $\text{Al}_x\text{Ga}_{1-x}\text{As}$ heterostructures with In/Zn/Au Ohmic contacts (4 pages)	245307
B. Grbić, R. Leturcq, T. Ihn, K. Ensslin, G. Blatter, D. Reuter, and A. D. Wieck	
Interplay between the exchange and Coulomb interactions in a ferromagnetic semiconductor quantum dot (12 pages)	245308
N. Lebedeva, H. Holmberg, and P. Kuivalainen	
Charge relaxation resistance at atomic scale: An <i>ab initio</i> calculation (5 pages)	245309
Bin Wang and Jian Wang	
Green's function surface integral equation method for theoretical analysis of scatterers close to a metal interface (12 pages)	245310
Jesper Jung and Thomas Søndergaard	
Coulomb interactions in single charged self-assembled quantum dots: Radiative lifetime and recombination energy (8 pages)	245311
Paul A. Dalgarno, Jason M. Smith, Jamie McFarlane, Brian D. Gerardot, Kahled Karrai, Antonio Badolato, Pierre M. Petroff, and Richard J. Warburton	
Spontaneous spin polarization and electron localization in constrained geometries: The Wigner transition in nanowires (14 pages)	245312
D. Hughes and P. Ballone	
Transport through a double-quantum-dot system with noncollinearly polarized leads (18 pages)	245313
R. Hornberger, S. Koller, G. Begemann, A. Donarini, and M. Grifoni	

(Continued)

Nonresonant carrier transfer in single InGaAs/GaAs quantum dot molecules (5 pages)	245314
Wen-Hao Chang, Hsuan Lin, Sheng-Yun Wang, Chia-Hsien Lin, Shun-Jen Cheng, Ming-Chih Lee, Wen-Yen Chen, Tzu-Min Hsu, Tung-Po Hsieh, and Jen-Inn Chyi	
Spin dynamics in a double quantum dot: Exact diagonalization study (6 pages)	245315
J. Särkkä and A. Harju	
Cohesive and surface energies of π -conjugated organic molecular crystals: A first-principles study (4 pages)	245316
Dmitrii Nabok, Peter Puschnig, and Claudia Ambrosch-Draxl	
☞ Luminescence upconversion in GaAs quantum wells (7 pages)	245317
Soheyila Eshlaghi, Wieland Worthoff, A. D. Wieck, and Dieter Suter	
Electronic structure of $\text{In}_{1-x}\text{Ga}_x\text{As}$ quantum dots via finite difference time domain method (6 pages)	245318
G. B. Ren (任光宝) and J. M. Rorison	
Theory of resonant radiation force exerted on nanostructures by optical excitation of their quantum states: From microscopic to macroscopic descriptions (16 pages)	245319
Takuya Iida and Hajime Ishihara	
Valley splitting in finite barrier quantum wells (8 pages)	245320
Timothy B. Boykin, Neerav Kharche, and Gerhard Klimeck	
Spin and angular momentum transitions in few-electron quantum dots and rings (7 pages)	245321
Ning Yang, Zhensheng Dai, and Jia-Lin Zhu	
Theoretical strategy for self-assembly of quantum rings (7 pages)	245322
X. Tan, X. L. Li, and G. W. Yang	
Phase-sensitive Fourier space imaging of optical Bloch modes (6 pages)	245323
N. Le Thomas, R. Houdré, M. V. Kotlyar, and T. F. Krauss	
Theory of NMR in semiconductor quantum point contact devices (5 pages)	245324
N. R. Cooper and V. Tripathi	
Numerical study of the Coulomb blockade in an open quantum dot (5 pages)	245325
Yuji Hamamoto and Takeo Kato	
Spin nutation and polarization in ballistic semiconductor nanostructures (7 pages)	245326
Sam Young Cho	
Imaging a one-electron InAs quantum dot in an InAs/InP nanowire (4 pages)	245327
Ania C. Bleszynski-Jayich, Linus E. Fröberg, Mikael T. Björk, H. J. Trodahl, Lars Samuelson, and R. M. Westervelt	
Intrinsic lattice thermal conductivity of Si/Ge and GaAs/AlAs superlattices (7 pages)	245328
A. Ward and D. A. Broido	
Photovoltage dynamics of the hydroxylated Si(111) surface investigated by ultrafast electron diffraction (5 pages)	245329
Ryan A. Mardick, Ramani K. Raman, Yoshie Murooka, and Chong-Yu Ruan	
Surface physics, nanoscale physics, low-dimensional systems	
Magnetic barriers in graphene nanoribbons: Theoretical study of transport properties (10 pages)	245401
Hengyi Xu, T. Heinzl, M. Evaldsson, and I. V. Zozoulenko	

(Continued)

Surface exciton polaritons in individual Au nanoparticles in the far-ultraviolet spectral regime (9 pages)	245402
Ming-Wen Chu, Cheng-Hsuan Chen, F. Javier García de Abajo, Jin-Pei Deng, and Chung-Yuan Mou	
Intershell interaction in double walled carbon nanotubes: Charge transfer and orbital mixing (10 pages)	245403
V. Zólyomi, J. Koltai, Á. Rusznyák, J. Kürti, Á. Gali, F. Simon, H. Kuzmany, Á. Szabados, and P. R. Surján	
☞ Formation of collective excitations in quasi-one-dimensional metallic nanostructures: Size and density dependence (5 pages)	245404
Amy Cassidy, Ilya Grigorenko, and Stephan Haas	
Test of validity of the V-type approach for electron trajectories in reflection electron energy loss spectroscopy (11 pages)	245405
F. Yubero, N. Pauly, A. Dubus, and S. Tougaard	
Optical response of metal or dielectric nano-objects in strongly convergent light beams (13 pages)	245406
Jean Lermé, Christophe Bonnet, Michel Broyer, Emmanuel Cottancin, Salem Marhaba, and Michel Pellarin	
Effect of progressive oxidation on the optical properties of small silicon quantum dots: A computational study (7 pages)	245407
R. J. Eyre, J. P. Goss, and P. R. Briddon	
Geometrical approach for the study of G' band in the Raman spectrum of monolayer graphene, bilayer graphene, and bulk graphite (9 pages)	245408
L. G. Cançado, A. Reina, J. Kong, and M. S. Dresselhaus	
Pressure dependence of phonons in Rb_4C_{60} studied with Raman spectroscopy (6 pages)	245409
Ch. Bellin, J. C. Chervin, C. Hérold, and N. Bendiab	
Density functional study of oxygen vacancies at the SnO_2 surface and subsurface sites (8 pages)	245410
F. Trani, M. Causà, D. Ninno, G. Cantele, and V. Barone	
Atomic gold chain on hydrogen terminated $\text{Si}(001):1 \times 1$ surface: A density functional theory study (11 pages)	245411
Shyamal Konar, Bikash C. Gupta, and Inder P. Batra	
Theory of charge transport in a quantum dot tunnel junction with multiple energy levels (16 pages)	245412
Yia-Chung Chang and David M.-T. Kuo	
☞ Berry phase in graphene: Semiclassical perspective (10 pages)	245413
Pierre Carmier and Denis Ullmo	
☞ Reconstructions on the polar SrTiO_3 (110) surface: Analysis using STM, LEED, and AES (9 pages)	245414
Bruce C. Russell and Martin R. Castell	
Plasmon excitations of single-wall carbon nanotubes (6 pages)	245415
S. Dmitrović, T. Vuković, B. Nikolić, M. Damnjanović, and I. Milošević	
Stable elasticity of epitaxial Cu thin films on Si (6 pages)	245416
N. Nakamura, H. Ogi, and M. Hirao	
Electronic structure calculations of liquid-solid interfaces: Combination of density functional theory and modified Poisson-Boltzmann theory (18 pages)	245417
Ryosuke Jinnouchi and Alfred B. Anderson	
☞ Intrinsic dissipation in nanomechanical resonators due to phonon tunneling (31 pages)	245418
I. Wilson-Rae	

(Continued)

<i>Ab initio</i> molecular dynamics calculations of H ₂ O on BaO(001) (4 pages)	245419
Henrik Grönbeck and Itai Panas	
Plastic deformation of pentagonal silver nanowires: Comparison between AFM nanoindentation and atomistic simulations (4 pages)	245420
Marcel Lucas, Austin M. Leach, Matthew T. McDowell, Simona E. Hunyadi, Ken Gall, Catherine J. Murphy, and Elisa Riedo	
Three reversible states controlled on a gold monoatomic contact by the electrochemical potential (7 pages)	245421
Manabu Kiguchi, Tatsuya Konishi, Kouta Hasegawa, Satoshi Shidara, and Kei Murakoshi	
Electronic correlations and disorder in transport through one-dimensional nanoparticle arrays (24 pages)	245422
E. Bascones, V. Estévez, J. A. Trinidad, and A. H. MacDonald	
Generalized scattering matrix method for electrostatic calculations of nanoscale systems (7 pages)	245423
G. M. Sacha and J. J. Sáenz	
Stacking faults in homoepitaxy on Ir(111): Detection, evolution with film thickness, and associated defect patterns (10 pages)	245424
Sebastian Bleikamp, Arne Thoma, Celia Polop, and Thomas Michely	
Beyond the ensemble average: X-ray microdiffraction analysis of single SiGe islands (6 pages)	245425
C. Mocuta, J. Stangl, K. Mundboth, T. H. Metzger, G. Bauer, I. A. Vartanyants, M. Schmidbauer, and T. Boeck	
Electron localization in graphene quantum dots (8 pages)	245426
Prabath Hewageegana and Vadym Apalkov	
Crater formation via homoepitaxy of adatoms dislodged from reducing oxide islands on metal surfaces (5 pages)	245427
Guangwen Zhou, Weiying Dai, and Judith C. Yang	
Two-dimensional skew scattering in the vicinity of and away from the resonant scattering condition (9 pages)	245428
V. V. Mkhitarian and M. E. Raikh	
Ni(111) surface state observed with scanning tunneling microscopy (5 pages)	245429
K.-F. Braun and K.-H. Rieder	
Growth instabilities and adsorbed impurities: A case study (7 pages)	245430
A. Ben-Hamouda, N. Absi, P. E. Hoggan, and A. Pimpinelli	
Optical properties of graphene antidot lattices (6 pages)	245431
Thomas G. Pedersen, Christian Flindt, Jesper Pedersen, Antti-Pekka Jauho, Niels Asger Mortensen, and Kjeld Pedersen	
Potential electron emission induced by multiply charged ions in thin film tunnel junctions (11 pages)	245432
D. A. Kovacs, T. Peters, C. Haake, M. Schleberger, A. Wucher, A. Golczewski, F. Aumayr, and D. Diesing	
Observation of an ultrahigh-temperature ferromagnetic-like transition in iron-contaminated multiwalled carbon nanotube mats (6 pages)	245433
Guo-meng Zhao and Pieder Beeli	
Armchair graphene nanoribbons: Electronic structure and electric-field modulation (5 pages)	245434
Hassan Raza and Edwin C. Kan	

(Continued)

Azimuthal dispersion and energy mode condensation of grating-coupled surface plasmon polaritons (7 pages)	245435
Filippo Romanato, Lee Kwang Hong, Husen Kartasasmita Kang, Chee Cheong Wong, Zong Yun, and Wolfgang Knoll	
Band structure of $\text{Ti/Ge(111)-(3 \times 1)}$: Angle-resolved photoemission and first-principles prediction of giant Rashba effect (8 pages)	245436
Shinichiro Hatta, Tetsuya Aruga, Chihiro Kato, Shin Takahashi, Hiroshi Okuyama, Ayumi Harasawa, Taichi Okuda, and Toyohiko Kinoshita	
Polar distortion in ultrathin BaTiO_3 films studied by <i>in situ</i> LEED <i>I-V</i> (8 pages)	245437
Junsoo Shin, V. B. Nascimento, A. Y. Borisevich, E. W. Plummer, S. V. Kalinin, and A. P. Baddorf	
Quantum critical scaling in magnetic field near the Dirac point in graphene (5 pages)	245438
Igor F. Herbut and Bitan Roy	
Pauli spin blockade in carbon nanotube double quantum dots (6 pages)	245439
M. R. Buitelaar, J. Fransson, A. L. Cantone, C. G. Smith, D. Anderson, G. A. C. Jones, A. Ardavan, A. N. Khlobystov, A. A. R. Watt, K. Porfyrakis, and G. A. D. Briggs	
Quantum stirring in low-dimensional devices (5 pages)	245440
Itamar Sela and Doron Cohen	
Curvature-induced optical phonon frequency shift in metallic carbon nanotubes (8 pages)	245441
Ken-ichi Sasaki, Riichiro Saito, Gene Dresselhaus, Mildred S. Dresselhaus, Hootan Farhat, and Jing Kong	
Multiscale Green's function for the deflection of graphene lattice (5 pages)	245442
B. Yang and V. K. Tewary	
Band alignment in molecular devices: Influence of anchoring group and metal work function (8 pages)	245443
Jian-guo Wang, Emil Prodan, Roberto Car, and Annabella Selloni	
Modeling hot-electron generation induced by electron promotion in atomic collision cascades in metals (6 pages)	245444
Andreas Duvenbeck, Boris Weidtmann, Oliver Weingart, and Andreas Wucher	
Morphologies and kinetics of a dewetting ultrathin solid film (6 pages)	245445
M. Khenner	

ERRATA

Publisher's Note: Average density of states in disordered graphene systems [Phys. Rev. B 77 , 195411 (2008)] (1 page)	249901(E)
Shangduan Wu, Lei Jing, Qunxiang Li, Q. W. Shi, Jie Chen, Haibin Su, Xiaoping Wang, and Jinlong Yang	
Erratum: Comparison of vibrational and electronic contributions to the van der Waals interactions [Phys. Rev. B 73 , 205116 (2006)] (1 page)	249902(E)
Kyungwha Park, Mark R. Pederson, and Amy Y. Liu	
Erratum: Static polarizabilities and optical absorption spectra of gold clusters (Au_n , $n=2-14$ and 20) from first principles [Phys. Rev. B 76 , 205422 (2007)] (1 page)	249903(E)
Juan C. Idrobo, Weronika Walkosz, Shing Fan Yip, Serdar Ögüt, Jinlan Wang, and Julius Jellinek	

(Continued)

Erratum: Validity of Yubero-Tougaard theory to quantitatively determine the dielectric properties of surface nanofilms [Phys. Rev. B 77 , 155403 (2008)] (<i>3 pages</i>)	249904(E)
Shaaker Hajati, Oleksandr Romanyuk, Josef Zemek, and Sven Tougaard	
Erratum: Exciton spin decay in quantum dots to bright and dark states [Phys. Rev. B 76 , 195324 (2007)] (<i>1 page</i>)	249905(E)
K. Roszak, V. M. Axt, T. Kuhn, and P. Machnikowski	
Publisher's Note: Static versus dynamic fluctuations in the one-dimensional extended Hubbard model [Phys. Rev. B 76 , 125103 (2007)] (<i>1 page</i>)	249906(E)
H. A. Craig, C. N. Varney, W. E. Pickett, and R. T. Scalettar	
Publisher's Note: Entanglement between remote spin-qubits in one dimension by scattering in the real-space Anderson model [Phys. Rev. B 77 , 195308 (2008)] (<i>1 page</i>)	249907(E)
M. Habgood, J. H. Jefferson, and G. A. D. Briggs	
Erratum: Effect of chemical pressure on the charge density wave transition in rare-earth tritellurides $R\text{Te}_3$ [Phys. Rev. B 77 , 035114 (2008)] (<i>1 page</i>)	249908(E)
N. Ru, C. L. Condon, G. Y. Margulis, K. Y. Shin, J. Laverock, S. B. Dugdale, M. F. Toney, and I. R. Fisher	