

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 79, NUMBER 8

FEBRUARY 2009-15(II)

dc four-point resistance of a double-barrier quantum pump (<i>6 pages</i>)	085430
Federico Foieri, Liliana Arrachea, and María José Sánchez	
Laser absorption and third-harmonic generation in free-electron nanofilms (<i>21 pages</i>)	085431
Sergey V. Fomichev, David F. Zaretsky, and Wilhelm Becker	
Mixed <i>ab initio</i> quantum mechanical and Monte Carlo calculations of secondary emission from SiO ₂ nanoclusters (<i>8 pages</i>)	085432
Simone Taioli, Stefano Simonucci, Lucia Calliari, Massimiliano Filippi, and Maurizio Dapor	

ERRATA

Publisher's Note: Vacuum space-charge effects in solid-state photoemission [Phys. Rev. B 79 , 035402 (2009)] (<i>1 page</i>)	089901(E)
S. Hellmann, K. Rossnagel, M. Marczynski-Bühlow, and L. Kipp	
Erratum: Quantitative vectorial spin analysis in angle-resolved photoemission: Bi/Ag(111) and Pb/Ag(111) [Phys. Rev. B 77 , 165431 (2008)] (<i>1 page</i>)	089902(E)
Fabian Meier, Hugo Dil, Jorge Lobo-Checa, Luc Patthey, and Jürg Osterwalder	
Erratum: Chiral tunneling through a time-periodic potential in monolayer graphene [Phys. Rev. B 78 , 165420 (2008)] (<i>1 page</i>)	089903(E)
M. Ahsan Zeb, K. Sabeeh, and M. Tahir	

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 79, NUMBER 8

FEBRUARY 2009-15(II)

Assessing the efficiency of first-principles basin-hopping sampling (10 pages)	085412
Ralf Gehrke and Karsten Reuter	
Elastic and chemical contributions to the stability of magnetic surface alloys on Ru(0001) (9 pages)	085413
Madhura Marathe, Mighfar Imam, and Shobhana Narasimhan	
Quantum Monte Carlo study of the ground state of the two-dimensional Fermi fluid (8 pages)	085414
N. D. Drummond and R. J. Needs	
☞ Slow imbalance relaxation and thermoelectric transport in graphene (14 pages)	085415
Matthew S. Foster and Igor L. Aleiner	
Optical Tamm states above the bulk plasma frequency at a Bragg stack/metal interface (4 pages)	085416
S. Brand, M. A. Kaliteevski, and R. A. Abram	
Morphology of the interfaces between transition metals and their native oxides: Role of interdiffusion processes (6 pages)	085417
Sebastien Couet, Kai Schlage, Karel Saksl, and Ralf Röhlsberger	
Raman <i>G</i> and <i>D</i> band in strongly photoexcited carbon nanotubes (4 pages)	085418
Pascal Puech, Abdul Waheed Anwar, Emmanuel Flahaut, David J. Dunstan, Ayman Bassil, and Wolfgang Bacsa	
Experimental evaluation of the twofold electromagnetic enhancement theory of surface-enhanced resonance Raman scattering (6 pages)	085419
Ken-ichi Yoshida, Tamitake Itoh, Vasudevanpillai Biju, Mitsuru Ishikawa, and Yukihiro Ozaki	
Spin-polarized currents through interacting quantum wires with nonmagnetic leads (10 pages)	085420
J. E. Birkholz and V. Meden	
Water-driven structural evolution of the polar MgO (111) surface: An integrated experimental and theoretical approach (13 pages)	085421
J. Ciston, A. Subramanian, and L. D. Marks	
Scanning tunneling microscopy study of the CeTe ₃ charge density wave (7 pages)	085422
A. Tomic, Zs. Rak, J. P. Veazey, C. D. Malliakas, S. D. Mahanti, M. G. Kanatzidis, and S. H. Tessmer	
Coating of a layer of Au on Al ₁₃ : The findings of icosahedral Al@Al ₁₂ Au ₂₀ ⁻ and Al ₁₂ Au ₂₀ ²⁻ fullerenes using <i>ab initio</i> pseudopotential calculations (5 pages)	085423
Vijay Kumar	
Lattice vibrations of a single-wall boron nitride nanotube (7 pages)	085424
Gun Sang Jeon and G. D. Mahan	
Surface-plasmon-enhanced photoelectron emission from nanostructure-covered periodic grooves on metals (4 pages)	085425
Taek Yong Hwang, A. Y. Vorobyev, and Chunlei Guo	
Partial melting mechanisms of embedded nanocrystals (7 pages)	085426
J. A. Pakarinen, M. Backman, F. Djurabekova, and K. Nordlund	
Boron and nitrogen impurities in SiC nanowires (9 pages)	085427
I. S. Santos de Oliveira and R. H. Miwa	
Segregation and interdiffusion in (Fe,Co)/Pt superlattices (8 pages)	085428
M. Björck, G. Andersson, B. Sanyal, M. Hedlund, and A. Wildes	
Bending and wrinkling as competing relaxation pathways for strained free-hanging films (4 pages)	085429
P. Cendula, S. Kiravittaya, Y. F. Mei, Ch. Deneke, and O. G. Schmidt	

(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).

Effect of nuclear polarization on spin dynamics in a double quantum dot (<i>5 pages</i>)	085313
J. Särkkä and A. Harju	
Hydrogen adsorption and etching on the Si-rich 3C-SiC(001) 3×2 surface: First-principles molecular dynamics calculations (<i>9 pages</i>)	085314
Peter Deák, Bálint Aradi, Jan M. Knaup, and Thomas Frauenheim	
Microwave-induced zero-resistance states are not necessarily static (<i>13 pages</i>)	085315
Ilya G. Finkler and Bertrand I. Halperin	
Correlation energy of finite two-dimensional systems: Toward nonempirical and universal modeling (<i>6 pages</i>)	085316
S. Pittalis, E. Räsänen, C. R. Proetto, and E. K. U. Gross	
Localization and hopping conduction in glass and crystal phases of monatomic Au layers on a silicon surface (<i>5 pages</i>)	085317
Shiro Yamazaki, Iwao Matsuda, Hiroyuki Okino, Harumo Morikawa, and Shuji Hasegawa	
Surface physics, nanoscale physics, low-dimensional systems	
Crystallographic dependence of visible-light photoactivity in epitaxial $\text{TiO}_{2-x}\text{N}_x$ anatase and rutile (<i>7 pages</i>)	085401
T. Ohsawa, I. Lyubnitsky, Y. Du, M. A. Henderson, V. Shutthanandan, and S. A. Chambers	
Electronic properties of a carbon nanotube in a field-effect transistor structure: A first-principles study (<i>5 pages</i>)	085402
Kazuyuki Uchida and Susumu Okada	
Second random phase approximation studies in metallic clusters (<i>11 pages</i>)	085403
D. Gambacurta and F. Catara	
Role of aperiodic order in the spectral, localization, and scaling properties of plasmon modes for the design of nanoparticle arrays (<i>16 pages</i>)	085404
Carlo Forestiere, Giovanni Miano, Guglielmo Rubinacci, and Luca Dal Negro	
Transport and noise in organic field-effect devices (<i>12 pages</i>)	085405
K. Morawetz, S. Gemming, R. Luschtinetz, T. Kunze, P. Lipavský, L. M. Eng, G. Seifert, V. Pankoke, and P. Milde	
Growth and structural transition of Fe ultrathin films on Ni(111) investigated by LEED and STM (<i>7 pages</i>)	085406
Bai An, Lin Zhang, Seiji Fukuyama, and Kiyoshi Yokogawa	
Bound states and magnetic field induced valley splitting in gate-tunable graphene quantum dots (<i>11 pages</i>)	085407
Patrik Recher, Johan Nilsson, Guido Burkard, and Björn Trauzettel	
Effects of coadsorbed O_2 on hydrogen ortho-para conversion on Ag surfaces (<i>5 pages</i>)	085408
K. Niki, S. Ogura, M. Matsumoto, T. Okano, and K. Fukutani	
Reconstruction of the second layer of Ag on Pt(111): Extended Frenkel-Kontorova model (<i>6 pages</i>)	085409
Raghani Pushpa, Javier Rodríguez-Laguna, and Silvia N. Santalla	
Effect of contact induced states on minimum conductivity in graphene (<i>5 pages</i>)	085410
Roksana Golizadeh-Mojarad and Supriyo Datta	
First-principles study of Au nanostructures on rutile $\text{TiO}_2(110)$ (<i>10 pages</i>)	085411
Tomasz Pabisiak and Adam Kiejna	

(Continued)

Calculated phonon band structure and density of states and interpretation of the Raman spectrum in rocksalt ScN (<i>4 pages</i>)	085205
Tula R. Paudel and Walter R. L. Lambrecht	
Origin of the codopant-induced enhancement of ferromagnetism in (Zn,Mn)O: Density functional calculations (<i>5 pages</i>)	085206
Y. Zhu, J. X. Cao, Z. Q. Yang, and R. Q. Wu	
Metallicity in crystals of the quasi-one-dimensional rhodate Ba _{1.2} Rh ₈ O ₁₆ (<i>6 pages</i>)	085207
W. Kobayashi, S. Hébert, O. Pérez, D. Pelloquin, and A. Maignan	
Semiconductors II: surfaces, interfaces, microstructures, and related topics	
Energy level spectroscopy of InSb quantum wells using quantum-well LED emission (<i>14 pages</i>)	085301
T. G. Tenev, A. Palyi, B. I. Mirza, G. R. Nash, M. Fearn, S. J. Smith, L. Buckle, M. T. Emeny, T. Ashley, J. H. Jefferson, and C. J. Lambert	
Terahertz intersubband absorption and conduction band alignment in <i>n</i> -type Si/SiGe multiple quantum wells (<i>7 pages</i>)	085302
G. Ciasca, M. De Seta, G. Capellini, F. Evangelisti, M. Ortolani, M. Virgilio, G. Grosso, A. Nucara, and P. Calvani	
Controlling Fano profiles via conical intersections (<i>10 pages</i>)	085303
Yoav Berlatzky and Shachar Klaiman	
Ultrafast laser-induced coherent spin dynamics in ferromagnetic Ga _{1-x} Mn _x As/GaAs structures (<i>8 pages</i>)	085304
J. Qi, Y. Xu, A. Steigerwald, X. Liu, J. K. Furdyna, I. E. Perakis, and N. H. Tolk	
Pinning of electron densities in quantum rings by defects: Symmetry constraints and distribution of persistent currents (<i>14 pages</i>)	085305
T. Chwiej and B. Szafran	
Dielectric mismatch effect on coupled shallow impurity states in a semiconductor nanowire (<i>7 pages</i>)	085306
Bin Li, B. Partoens, F. M. Peeters, and W. Magnus	
Nonperturbative phenomena in semiconductor four-wave mixing spectra (<i>7 pages</i>)	085307
Mikhail Erementchouk, Michael N. Leuenberger, and L. J. Sham	
Photon antibunching in double quantum ring structures (<i>5 pages</i>)	085308
M. Abbarchi, C. A. Mastrandrea, A. Vinattieri, S. Sanguinetti, T. Mano, T. Kuroda, N. Koguchi, K. Sakoda, and M. Gurioli	
Antilocalization of hole carriers in Pb _{1-x} Eu _x Te alloys in the metallic regime (<i>5 pages</i>)	085309
Marcelos L. Peres, V. A. Chitta, Nei F. Oliveira, Jr., D. K. Maude, P. H. O. Rappl, A. Y. Ueta, and E. Abramof	
Experimental study of weak antilocalization effects in a two-dimensional system: Anomalous dephasing rate (<i>6 pages</i>)	085310
K. H. Gao, G. Yu, Y. M. Zhou, W. Z. Zhou, T. Lin, J. H. Chu, N. Dai, D. G. Austing, Y. Gu, and Y. G. Zhang	
Effect of an in-plane magnetic field on the spin transport through a Rashba superlattice (<i>5 pages</i>)	085311
Ya Zhang and Feng Zhai	
Tunneling magnetoresistance anomalies in a Coulomb blockaded quantum dot (<i>9 pages</i>)	085312
Piotr Stefański	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 79, NUMBER 8

FEBRUARY 2009-15(II)

Thermal canting of spin-bond order (5 pages)	085113
V. W. Scarola, K. B. Whaley, and M. Troyer	
Spin-selective localization due to intrinsic spin-orbit coupling (7 pages)	085114
Yaroslav Tserkovnyak and Shimul Akhanjee	
Positron annihilation study of the electronic structure of URu ₂ Si ₂ : Fermi surface and hidden order parameter (10 pages)	085115
M. Biasini, J. Ruzs, and A. P. Mills, Jr.	
Theory of interacting electrons on the honeycomb lattice (14 pages)	085116
Igor F. Herbut, Vladimir Juričić, and Bitan Roy	
Atomic-resolution imaging of oxidation states in manganites (14 pages)	085117
M. Varela, M. P. Oxley, W. Luo, J. Tao, M. Watanabe, A. R. Lupini, S. T. Pantelides, and S. J. Pennycook	
Tensor-product representations for string-net condensed states (10 pages)	085118
Zheng-Cheng Gu, Michael Levin, Brian Swingle, and Xiao-Gang Wen	
Explicit tensor network representation for the ground states of string-net models (5 pages)	085119
Oliver Buerschaper, Miguel Aguado, and Guifré Vidal	
Exploring the limits of the self-consistent Born approximation for inelastic electronic transport (13 pages) . . .	085120
William Lee, Nicola Jean, and Stefano Sanvito	
Optical excitations in Sr ₂ CuO ₃ (5 pages)	085121
K. W. Kim and G. D. Gu	
Junctions of anyonic Luttinger wires (15 pages)	085122
Brando Bellazzini, Pasquale Calabrese, and Mihail Mintchev	
Mott-Hubbard and filling-controlled electronic transitions in the layered cuprate oxides (5 pages)	085123
L. Craco	
Quantum phase transition in quantum dot trimers (5 pages)	085124
Andrew K. Mitchell, Thomas F. Jarrold, and David E. Logan	
Spin-crossover-induced Mott transition and the other scenarios of metallization in 3d ⁿ metal compounds (7 pages)	085125
I. S. Lyubutin, S. G. Ovchinnikov, A. G. Gavriliuk, and V. V. Struzhkin	
Semiconductors I: bulk	
Density functional study of the magnetic coupling in V(TCNE) ₂ (8 pages)	085201
Giulia C. De Fusco, Leonardo Pisani, Barbara Montanari, and Nicholas M. Harrison	
Rapid ion-implantation-induced amorphization of In _x Ga _{1-x} As relative to InAs and GaAs (6 pages)	085202
Z. S. Hussain, E. Wendler, W. Wesch, G. J. Foran, C. S. Schnohr, D. J. Llewellyn, and M. C. Ridgway	
Modeling and analysis of the three-dimensional current density in sandwich-type single-carrier devices of disordered organic semiconductors (11 pages)	085203
J. J. M. van der Holst, M. A. Uijtewaai, R. Balasubramanian, R. Coehoorn, P. A. Bobbert, G. A. de Wijs, and R. A. de Groot	
Structural disorder and silanol groups content in amorphous SiO ₂ (7 pages)	085204
E. Vella and R. Boscaino	

(Continued)