

ARTICLES

Electronic structure and strongly correlated systems

- Understanding disorder-induced zero-bias anomalies in systems with short-range interactions:
An atomic-limit perspective (*8 pages*) 035101
R. Wortis and Lister Mulindwa
- Phase diagram and optical conductivity of $\text{La}_{1.8-x}\text{Eu}_{0.2}\text{Sr}_x\text{CuO}_4$ (*6 pages*) 035102
M. Autore, P. Di Pietro, P. Calvani, U. Schade, S. Pyon, T. Takayama, H. Takagi, and S. Lupi
- Quasiparticle energies and excitonic effects in dense solid hydrogen near metallization (*10 pages*) 035103
Marc Dvorak, Xiao-Jia Chen, and Zhigang Wu
- Reproduction of experimental gap structure in LiFeAs based on orbital-spin fluctuation theory:
 s_{++} -wave, $s_{\pm}$ -wave, and hole- $s_{\pm}$ -wave states (*10 pages*) 035104
Tetsuro Saito, Seiichiro Onari, Youichi Yamakawa, Hiroshi Kontani, Sergey V. Borisenko,
and Volodymyr B. Zabolotnyy
- Self-induced torque in discrete uniaxial metamaterials (*6 pages*) 035106
Maxim A. Gorlach, Alexander N. Poddubny, and Pavel A. Belov
- Evolution of spin and valence states of $(\text{Pr}_{0.7}\text{Sm}_{0.3})_{0.7}\text{Ca}_{0.3}\text{CoO}_3$ at high temperature and high
pressure (*8 pages*) 035107
J. M. Chen, J. M. Lee, S. C. Haw, S. A. Chen, V. Hardy, F. Guillou, S. W. Chen, C. Y. Kuo, C. W. Pao,
J. F. Lee, N. Hiraoka, H. Ishii, K. D. Tsuei, and Z. Hu
- Pressure-induced gap closing and metallization of MoSe_2 and MoTe_2 (*7 pages*) 035108
Michaela Rířlíková, Roman Martoňák, and Erio Tosatti
- Role of potassium orbitals in the metallic behavior of K_3picene (*11 pages*) 035109
G. Chiappe, E. Louis, A. Guijarro, E. San-Fabián, and J. A. Vergés
- First-principles study of valence and structural transitions in EuO under pressure (*8 pages*) 035110
L. Petit, Z. Szotek, M. Lüders, W. M. Temmerman, and A. Svane
- Spectral properties near the Mott transition in the two-dimensional Hubbard model with next-nearest-neighbor
hopping (*9 pages*) 035111
Masanori Kohno



CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 90, NUMBER 3

JULY 2014-15(I)

Behavior of entanglement entropy in interacting quasi-one-dimensional systems and its consequences for their efficient numerical study (8 pages)	035112
Samuel Moukouri and Eytan Grosfeld	
Order-by-disorder and spin-orbital liquids in a distorted Heisenberg-Kitaev model (20 pages)	035113
Eran Sela, Hong-Chen Jiang, Max H. Gerlach, and Simon Trebst	
Equilibrium currents in chiral systems with nonzero Chern number (7 pages)	035114
E. G. Mishchenko and O. A. Starykh	
Unconventional charge-density wave in $\text{Sr}_3\text{Ir}_4\text{Sn}_{13}$ cubic superconductor revealed by optical spectroscopy study (6 pages)	035115
A. F. Fang, X. B. Wang, P. Zheng, and N. L. Wang	
Kane-Mele Hubbard model on a zigzag ribbon: Stability of the topological edge states and quantum phase transitions (14 pages)	035116
Chung-Hou Chung, Der-Hau Lee, and Sung-Po Chao	
Numerical study of a transition between $\mathbb{Z}_2$ topologically ordered phases (9 pages)	035117
Siddhardh C. Morampudi, Curt von Keyserlingk, and Frank Pollmann	
Interplay of charge and spin fluctuations of strongly interacting electrons on the kagome lattice (10 pages)	035118
Frank Pollmann, Krishanu Roychowdhury, Chisa Hotta, and Karlo Penc	
Capacitive interactions and Kondo effect tuning in double quantum impurity systems (10 pages)	035119
David A. Ruiz-Tijerina, E. Vernek, and Sergio E. Ulloa	
Low-energy effective theories of the two-thirds filled Hubbard model on the triangular necklace lattice (10 pages)	035120
C. Janani, J. Merino, Ian P. McCulloch, and B. J. Powell	
<i>Ab initio</i> model of optical properties of two-temperature warm dense matter (9 pages)	035121
B. Holst, V. Recoules, S. Mazevet, M. Torrent, A. Ng, Z. Chen, S. E. Kirkwood, V. Sametoglu, M. Reid, and Y. Y. Tsui	
Instabilities on graphene's honeycomb lattice with electron-phonon interactions (9 pages)	035122
Laura Classen, Michael M. Scherer, and Carsten Honerkamp	
Quasiparticle and optical properties of polythiophene-derived polymers (8 pages)	035123
Georgy Samsonidze, Filipe J. Ribeiro, Marvin L. Cohen, and Steven G. Louie	
Intrinsic origin of interface states and band-offset profiling of nanostructured $\text{LaAlO}_3/\text{SrTiO}_3$ heterojunctions probed by element-specific resonant spectroscopies (10 pages)	035124
G. Drera, G. Salvinelli, F. Bondino, E. Magnano, M. Huijben, A. Brinkman, and L. Sangaletti	
Energy density matrix formalism for interacting quantum systems: Quantum Monte Carlo study (8 pages)	035125
Jaron T. Krogel, Jeongnim Kim, and Fernando A. Reboredo	
Weyl semimetals with short-range interactions (20 pages)	035126
Joseph Maciejko and Rahul Nandkishore	
Quasiparticle self-consistent <i>GW</i> study of LaNiO_3 and $\text{LaNiO}_3/\text{LaAlO}_3$ superlattice (6 pages)	035127
Myung Joon Han, Hiori Kino, and Takao Kotani	

(Continued)

Magnetic states of the five-orbital Hubbard model for one-dimensional iron-based superconductors (<i>10 pages</i>) . . .	035128
Qinlong Luo, Kateryna Foyevtsova, German D. Samolyuk, Fernando Reboredo, and Elbio Dagotto	
Time-dependent numerical renormalization group method for multiple quenches: Application to general pulses and periodic driving (<i>12 pages</i>)	035129
H. T. M. Nghiem and T. A. Costi	
Evidence for spin-triplet superconducting correlations in metal-oxide heterostructures with noncollinear magnetization (<i>8 pages</i>)	035130
Yu. N. Khaydukov, G. A. Ovsyannikov, A. E. Sheyerman, K. Y. Constantinian, L. Mustafa, T. Keller, M. A. Uribe-Laverde, Yu. V. Kislinkii, A. V. Shadrin, A. Kalaboukhov, B. Keimer, and D. Winkler	
Spectral function of a localized fermion coupled to the Wilson-Fisher conformal field theory (<i>11 pages</i>)	035131
Andrea Allais and Subir Sachdev	
Nonabsorbing high-efficiency counter for itinerant microwave photons (<i>5 pages</i>)	035132
Bixuan Fan, Göran Johansson, Joshua Combes, G. J. Milburn, and Thomas M. Stace	
Observation of well-defined quasiparticles at a wide energy range in a quasi-two-dimensional system (<i>6 pages</i>)	035133
L.-L. Jia, Z.-H. Liu, Y.-P. Cai, T. Qian, X.-P. Wang, H. Miao, P. Richard, Y.-G. Zhao, Y. Li, D.-M. Wang, J.-B. He, M. Shi, G.-F. Chen, H. Ding, and S.-C. Wang	
Lefschetz thimble Monte Carlo for many-body theories: A Hubbard model study (<i>6 pages</i>)	035134
Abhishek Mukherjee and Marco Cristoforetti	
 Constraints on Jones transmission matrices from time-reversal invariance and discrete spatial symmetries (<i>12 pages</i>)	035135
N. P. Armitage	
Quantized electronic fine structure with large anisotropy in ferromagnetic Fe films (<i>5 pages</i>)	035136
C. Seibel, A. Nuber, H. Bentmann, M. Mulazzi, P. Blaha, G. Sangiovanni, and F. Reinert	
Magnetic excitations in a spin-orbit-coupled d^4 Mott insulator on the square lattice (<i>6 pages</i>)	035137
Alireza Akbari and Giniyat Khaliullin	
Manipulation of electron flow using near-zero index semiconductor metamaterials (<i>6 pages</i>)	035138
Romain Fleury and Andrea Alù	
Neutron, electron, and x-ray scattering investigation of $\text{Cr}_{1-x}\text{V}_x$ near quantum criticality (<i>6 pages</i>)	035139
D. A. Sokolov, M. C. Aronson, L. Wu, Y. Zhu, C. Nelson, J. F. Mansfield, K. Sun, R. Erwin, J. W. Lynn, M. Lumsden, and S. E. Nagler	
Functional renormalization group for commensurate antiferromagnets: Beyond the mean-field picture (<i>22 pages</i>)	035140
Stefan A. Maier, Andreas Eberlein, and Carsten Honerkamp	
Magnetic properties and heat capacity of the three-dimensional frustrated $S = \frac{1}{2}$ antiferromagnet $\text{PbCuTe}_2\text{O}_6$ (<i>7 pages</i>)	035141
B. Koteswararao, R. Kumar, P. Khuntia, Sayantika Bhowal, S. K. Panda, M. R. Rahman, A. V. Mahajan, I. Dasgupta, M. Baenitz, Kee Hoon Kim, and F. C. Chou	
Spin and valley polarization of plasmons in silicene due to external fields (<i>10 pages</i>)	035142
B. Van Duppen, P. Vasilopoulos, and F. M. Peeters	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 90, NUMBER 3

JULY 2014-15(I)

Electromagnetic properties of viscous charged fluids (<i>9 pages</i>)	035143
Davide Forcella, Jan Zaanen, Davide Valentini, and Dirk van der Marel	
Fermionic projected entangled pair states at finite temperature (<i>7 pages</i>)	035144
Piotr Czarnik and Jacek Dziarmaga	
Doping a topological quantum spin liquid: Slow holes in the Kitaev honeycomb model (<i>27 pages</i>)	035145
Gábor B. Halász, J. T. Chalker, and R. Moessner	
Theoretical unification of hybrid-DFT and DFT + U methods for the treatment of localized orbitals (<i>13 pages</i>)	035146
Viktor Ivády, Rickard Armiento, Krisztián Szász, Erik Janzén, Adam Gali, and Igor A. Abrikosov	
Scattering of charge and spin excitations and equilibration of a one-dimensional Wigner crystal (<i>15 pages</i>)	035148
K. A. Matveev, A. V. Andreev, and A. D. Kironomos	
 Charge-density-wave order with momentum $(2Q, 0)$ and $(0, 2Q)$ within the spin-fermion model: Continuous and discrete symmetry breaking, preemptive composite order, and relation to pseudogap in hole-doped cuprates (<i>52 pages</i>)	035149
Yuxuan Wang and Andrey Chubukov	
Topological nature of magnetization plateaus in periodically modulated quantum spin chains (<i>7 pages</i>)	035150
Haiping Hu, Chen Cheng, Zhihao Xu, Hong-Gang Luo, and Shu Chen	
Semiconductors I: bulk	
Optical properties of BiTeBr and BiTeCl (<i>6 pages</i>)	035201
Ana Akrap, Jérémie Teyssier, Arnaud Magrez, Philippe Bugnon, Helmuth Berger, Alexey B. Kuzmenko, and Dirk van der Marel	
Hole localization, migration, and the formation of peroxide anion in perovskite SrTiO ₃ (<i>5 pages</i>)	035202
Hungru Chen and Naoto Umezawa	
Examining the Callaway model for lattice thermal conductivity (<i>8 pages</i>)	035203
Jinlong Ma, Wu Li, and Xiaobing Luo	
Efficacy of the DFT + U formalism for modeling hole polarons in perovskite oxides (<i>8 pages</i>)	035204
Paul Erhart, Andreas Klein, Daniel Åberg, and Babak Sadigh	
Optical investigation of defects in semi-insulating Tl ₆ I ₄ S single crystals (<i>8 pages</i>)	035205
J. A. Peters, M. Sebastian, S. Nguyen, Zhifu Liu, Jino Im, A. J. Freeman, M. G. Kanatzidis, and B. W. Wessels	
Comparison between a quantum kinetic theory of spin transfer dynamics in Mn-doped bulk semiconductors and its Markov limit for nonzero Mn magnetization (<i>8 pages</i>)	035206
M. Cygorek and V. M. Axt	
Green luminescence in Mg-doped GaN (<i>14 pages</i>)	035207
M. A. Reshchikov, D. O. Demchenko, J. D. McNamara, S. Fernández-Garrido, and R. Calarco	
Direct measurement of coherent phonon dynamics in solution-processed stibnite thin films (<i>6 pages</i>)	035208
Wee Kiang Chong, Guichuan Xing, Yun Liu, Ee Ling Gui, Qing Zhang, Qihua Xiong, Nripan Mathews, Chee Kwan Gan, and Tze Chien Sum	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 90, NUMBER 3

JULY 2014-15(I)

Reduced lasing threshold from organic dye microcavities (8 pages)	035209
G. M. Akselrod, E. R. Young, K. W. Stone, A. Palatnik, V. Bulović, and Y. R. Tischler	
Photoinduced pure spin-current injection in graphene with Rashba spin-orbit interaction (6 pages)	035210
Julien Rioux and Guido Burkard	
Thermodynamics of light management in photovoltaic devices (16 pages)	035211
Uwe Rau, Ulrich W. Paetzold, and Thomas Kirchartz	
Effect of material properties on the accuracy of antiresonant approximation: Linear and second-order optical responses (9 pages)	035212
Nicolas Tancogne-Dejean, Bernardo S. Mendoza, and Valérie Vénard	
$\text{Ti}_n\text{O}_{2n-1}$ Magnéli phases studied using density functional theory (7 pages)	035213
A. C. M. Padilha, J. M. Osorio-Guillén, A. R. Rocha, and G. M. Dalpian	
Semiconductors II: surfaces, interfaces, microstructures, and related topics	
Signatures of spin-orbit coupling in scanning gate conductance images of electron flow from quantum point contacts (10 pages)	035301
M. P. Nowak, K. Kolasinski, and B. Szafran	
Signatures of the valley Kondo effect in Si/SiGe quantum dots (6 pages)	035302
Mingyun Yuan, R. Joynt, Zhen Yang, Chunyang Tang, D. E. Savage, M. G. Lagally, M. A. Eriksson, and A. J. Rimberg	
Anisotropic exchange coupling in a nanowire double quantum dot with strong spin-orbit coupling (7 pages)	035303
Rui Li and J. Q. You	
Exciton-correlated hole tunneling in mixed-type GaAs quantum wells (6 pages)	035304
Thomas K. Baldwin, Stephen A. McGill, and Hailin Wang	
Quantum model of coupled intersubband plasmons (10 pages)	035305
G. Pegolotti, A. Vasanelli, Y. Todorov, and C. Sirtori	
Spin-dependent tunneling rates for electrostatically defined GaAs quantum dots (6 pages)	035306
M. Yamagishi, N. Watase, M. Hashisaka, K. Muraki, and T. Fujisawa	
Controllable nonlocal transport of Majorana fermions with the aid of two quantum dots (7 pages)	035307
Jie Liu, Jian Wang, and Fu-Chun Zhang	
Temperature-dependent band gap, interband transitions, and exciton formation in transparent <i>p</i> -type delafossite $\text{CuCr}_{1-x}\text{Mg}_x\text{O}_2$ films (8 pages)	035308
Xurui Li (李旭瑞), Meijie Han (韩美杰), Xiaolong Zhang (张小龙), Chao Shan (单超), Zhigao Hu (胡志高), Ziqiang Zhu (朱自强), and Junhao Chu (褚君浩)	
Delocalized and localized charged excitons in single CdSe/CdS dot-in-rods revealed by polarized photoluminescence blinking (5 pages)	035309
Toshiyuki Ihara, Ryota Sato, Toshiharu Teranishi, and Yoshihiko Kanemitsu	
Impact of short-range scattering on the metallic transport of strongly correlated two-dimensional holes in GaAs quantum wells (6 pages)	035310
Nicholas J. Goble, John D. Watson, Michael J. Manfra, and Xuan P. A. Gao	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 90, NUMBER 3

JULY 2014-15(I)

Effect of charging on CdSe/CdS dot-in-rods single-photon emission (<i>8 pages</i>)	035311
M. Manceau, S. Vezzoli, Q. Glorieux, F. Pisanello, E. Giacobino, L. Carbone, M. De Vittorio, and A. Bramati	
Decoherence in semiconductor cavity QED systems due to phonon couplings (<i>19 pages</i>)	035312
P. Kaer and J. Mørk	
Robustness of topological superconductivity in proximity-coupled topological insulator nanoribbons (<i>15 pages</i>)	035313
Piyapong Sitthison and Tudor D. Stanescu	
Imaging localization of quasibound states in graphene antidots (<i>8 pages</i>)	035314
A. Mreńca, K. Kolasinski, and B. Szafran	
Accommodation of SiGe strain on a universally compliant porous silicon substrate (<i>5 pages</i>)	035315
Isabelle Berbezier, Jean-Noël Aqua, Mansour Aouassa, Luc Favre, Stéphanie Escoubas, Adrien Gouyé, and Antoine Ronda	
Subpicosecond adiabatic rapid passage on a single semiconductor quantum dot: Phonon-mediated dephasing in the strong-driving regime (<i>6 pages</i>)	035316
Reuble Mathew, Eric Dilcher, Angela Gamouras, Ajan Ramachandran, Hong Yi Shi Yang, Sabine Freisem, Dennis Deppe, and Kimberley C. Hall	
Surface physics, nanoscale physics, low-dimensional systems	
Multiphoton <i>k</i> -resolved photoemission from gold surface states with 800-nm femtosecond laser pulses (<i>6 pages</i>)	035401
Fausto Sirotti, Nathan Beaulieu, Azzedine Bendounan, Mathieu G. Silly, Christian Chauvet, Gregory Malinowski, Guido Fratesi, Valérie Vénard, and Giovanni Onida	
Symmetry breaking and Landau quantization in topological crystalline insulators (<i>9 pages</i>)	035402
Maksym Serbyn and Liang Fu	
Manipulation of edge magnetism in hexagonal graphene nanoflakes (<i>9 pages</i>)	035403
Mukul Kabir and T. Saha-Dasgupta	
Charge-density-wave states in double-layer graphene structures at a high magnetic field (<i>6 pages</i>)	035404
Csaba Tóke and Vladimir I. Fal'ko	
Magneto-optics of general pseudospin- <i>s</i> two-dimensional Dirac-Weyl fermions (<i>14 pages</i>)	035405
J. D. Malcolm and E. J. Nicol	
Ground state of graphene heterostructures in the presence of random charged impurities (<i>20 pages</i>)	035406
Martin Rodriguez-Vega, Jonathan Fischer, S. Das Sarma, and E. Rossi	
Local temperature of out-of-equilibrium quantum electron systems (<i>5 pages</i>)	035407
J. Meair, J. P. Bergfield, C. A. Stafford, and Ph. Jacquod	
Spin relaxation related to edge scattering in graphene (<i>8 pages</i>)	035408
V. K. Dugaev and M. I. Katsnelson	
Effects of the contacts on shot noise in graphene nanoribbons (<i>8 pages</i>)	035409
A. D. Wiener and M. Kindermann	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 90, NUMBER 3

JULY 2014-15(I)

Image formation and contrast inversion in noncontact atomic force microscopy imaging of oxidized Cu(110) surfaces (7 pages)	035410
J. Bamidele, Y. Kinoshita, R. Turanský, S. H. Lee, Y. Naitoh, Y. J. Li, Y. Sugawara, I. Štich, and L. Kantorovich	
Physical properties of quasi-one-dimensional MgO and Fe ₃ O ₄ -based nanostructures (10 pages)	035411
J. Mejía-López, J. Mazo-Zuluaga, S. López-Moreno, F. Muñoz, L. F. Duque, and A. H. Romero	
Second-harmonic generation by a graphene nanoparticle (7 pages)	035412
Daria A. Smirnova, Ilya V. Shadrivov, Andrey E. Miroshnichenko, Alexander I. Smirnov, and Yuri S. Kivshar	
Effective attractive polariton-polariton interaction mediated by an exciton reservoir (6 pages)	035413
D. V. Vishnevsky and F. Laussy	
Effect of doping and strain modulations on electron transport in monolayer MoS ₂ (6 pages)	035414
Yanfeng Ge, Wenhui Wan, Wanxiang Feng, Di Xiao, and Yugui Yao	
Mechanically induced spin resonance in a carbon nanotube (7 pages)	035415
Heng Wang and Guido Burkard	
Time-dependent density-functional theory simulation of electron wave-packet scattering with nanoflakes (6 pages)	035416
Keisuke Tsubonoya, Chunping Hu, and Kazuyuki Watanabe	
Decoherence in a double-dot Aharonov-Bohm interferometer: Numerical renormalization group study (5 pages)	035417
Björn Kubala, David Roosen, Michael Sindel, Walter Hofstetter, and Florian Marquardt	
Proximity-induced topological state in graphene (5 pages)	035418
Igor Popov, Mauro Mantega, Awadhesh Narayan, and Stefano Sanvito	
Lattice thermal transport in large-area polycrystalline graphene (8 pages)	035419
Z. Aksamija and I. Knezevic	
Initial stages of oxygen adsorption on In/Si(111)-4×1 (7 pages)	035420
Hyungjoon Shim, Heechul Lim, Younghoon Kim, Sanghan Kim, Geunseop Lee, Hye-Kyoung Kim, Chiho Kim, and Hanchul Kim	
Spin and impurity effects on flux-periodic oscillations in core-shell nanowires (11 pages)	035421
Tomas Orn Rosdahl, Andrei Manolescu, and Vidar Gudmundsson	
Quantum charge pumping through fractional fermions in charge density modulated quantum wires and Rashba nanowires (8 pages)	035422
Arijit Saha, Diego Rainis, Rakesh P. Tiwari, and Daniel Loss	
Magnetoresistance of disordered graphene: From low to high temperatures (7 pages)	035423
B. Jabakhanji, D. Kazazis, W. Desrat, A. Michon, M. Portail, and B. Jouault	
Predicting interface structures: From SrTiO ₃ to graphene (7 pages)	035424
Georg Schusteritsch and Chris J. Pickard	
Mobility versus quality in two-dimensional semiconductor structures (20 pages)	035425
S. Das Sarma and E. H. Hwang	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 90, NUMBER 3

JULY 2014-15(I)

Kondo effect in graphene with Rashba spin-orbit coupling (<i>10 pages</i>)	035426
D. Mastrogiuseppe, A. Wong, K. Ingersent, S. E. Ulloa, and N. Sandler	
Nonlocal spin-entangled Andreev reflection, fractional charge, and current-phase relations in topological bilayer-exciton-condensate junctions (<i>6 pages</i>)	035428
M. Veldhorst, M. Hoek, M. Snelder, H. Hilgenkamp, A. A. Golubov, and A. Brinkman	
Role of atomic vacancies and boundary conditions on ballistic thermal transport in graphene nanoribbons (<i>8 pages</i>)	035429
P. Scuracchio, S. Costamagna, F. M. Peeters, and A. Dobry	
Electronic states in vertically ordered Ge/Si quantum dots detected by photocurrent spectroscopy (<i>6 pages</i>)	035430
A. I. Yakimov, V. V. Kirienko, V. A. Armbrister, A. A. Bloshkin, and A. V. Dvurechenskii	
Waiting time distribution for trains of quantized electron pulses (<i>10 pages</i>)	035431
M. Albert and P. Devillard	
Tunnel-mediated coupling between antiferromagnetic thin films (<i>10 pages</i>)	035432
Marie-Alix Leroy, Alexandre M. Bataille, Brahim Dkhil, Florence Porcher, Antoine Barbier, Vincent L. R. Jacques, Yuan Lu, Christine Bellouard, Thomas Hauet, Sylvain Ravy, Javier Herrero-Martin, Christophe Gatel, Karim Bouzehouane, Arsen Gukasov, Stéphane Andrieu, and Coriolan Tiusan	
Stable path to ferromagnetic hydrogenated graphene growth (<i>7 pages</i>)	035433
Shayan Hemmatiyan, Marco Polini, Artem Abanov, Allan H. MacDonald, and Jairo Sinova	
Chiral bound states in the continuum (<i>9 pages</i>)	035434
Jordi Mur-Petit and Rafael A. Molina	
Optical properties and interparticle coupling of plasmonic bowtie nanoantennas on a semiconducting substrate (<i>7 pages</i>)	035435
K. Schraml, M. Spiegl, M. Kammerlocher, G. Bracher, J. Bartl, T. Campbell, J. J. Finley, and M. Kaniber	
Vacancy clusters at domain boundaries and band bending at the SrTiO ₃ (110) surface (<i>5 pages</i>)	035436
Zhiming Wang, Xianfeng Hao, Stefan Gerhold, Michael Schmid, Cesare Franchini, and Ulrike Diebold	
Theory of optical excitation spectra and depolarization dynamics in bilayer WS ₂ from the viewpoint of excimers (<i>12 pages</i>)	035437
T. Yu and M. W. Wu	
Magnetoresistance of a double-layer hybrid system in a tilted magnetic field (<i>8 pages</i>)	035438
Fariborz Parhizgar and Reza Asgari	
Time-harmonic optical heating of plasmonic nanoparticles (<i>12 pages</i>)	035439
Pascal Berto, Mohamed S. A. Mohamed, Hervé Rigneault, and Guillaume Baffou	
Dual-probe spectroscopic fingerprints of defects in graphene (<i>9 pages</i>)	035440
Mikkel Settnes, Stephen R. Power, Dirch H. Petersen, and Antti-Pekka Jauho	
Self-consistent rate theory for submonolayer surface growth of multicomponent systems (<i>7 pages</i>)	035441
Mario Einax, Philipp Maass, and Wolfgang Dieterich	
Diffractive-wave guiding of surface electrons on Au(111) by the herringbone reconstruction potential (<i>9 pages</i>)	035442
F. Libisch, V. Geringer, D. Subramaniam, J. Burgdörfer, and M. Morgenstern	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 90, NUMBER 3

JULY 2014-15(I)

Theory of Raman enhancement by two-dimensional materials: Applications for graphene-enhanced Raman spectroscopy (12 pages)	035443
E. B. Barros and M. S. Dresselhaus	
Scattering theory of spin-orbit active adatoms on graphene (17 pages)	035444
Alexandre Pachoud, Aires Ferreira, B. Özyilmaz, and A. H. Castro Neto	
Real-space method for highly parallelizable electronic transport calculations (9 pages)	035445
Baruch Feldman, Tamar Seideman, Oded Hod, and Leeor Kronik	
Surface reconstruction of Au(001): High-resolution real-space and reciprocal-space inspection (13 pages)	035446
R. Hammer, A. Sander, S. Förster, M. Kiel, K. Meinel, and W. Widdra	
First-principles calculations of a robust two-dimensional boron honeycomb sandwiching a triangular molybdenum layer (6 pages)	035447
Sheng-Yi Xie, Xian-Bin Li, Wei Quan Tian, Nian-Ke Chen, Xu-Lin Zhang, Yeliang Wang, Shengbai Zhang, and Hong-Bo Sun	
Atomic structure of the $\sqrt{3} \times \sqrt{3}$ phase of silicene on Ag(111) (5 pages)	035448
Seymur Cahangirov, Veli Ongun Özçelik, Lede Xian, Jose Avila, Suyeon Cho, María C. Asensio, Salim Ciraci, and Angel Rubio	
Effects of screening on the propagation of graphene surface plasmons (7 pages)	035449
Ken-ichi Sasaki and Norio Kumada	
Quantum confinement effect in armchair graphene nanoribbons: Effect of strain on band gap modulation studied using first-principles calculations (6 pages)	035450
Siow Mean Loh, Yu-Hui Huang, Ken-Ming Lin, W. S. Su, B. R. Wu, and T. C. Leung	
Interplay between short- and long-range entanglement in symmetry-protected phases (11 pages)	035451
Brian Swingle	
Specular graphene transport barrier (6 pages)	035452
Daniel Gunlycke and Carter T. White	
Work function modulation in MgO/Nb:SrTiO ₃ by utilizing highly nonequilibrium thin-film growth (6 pages)	035453
Tomofumi Susaki, Nobuhiro Shigaki, Kosuke Matsuzaki, and Hideo Hosono	

ERRATA

Erratum: Predicting phonon dispersion relations and lifetimes from the spectral energy density [Phys. Rev. B 81 , 081411(R) (2010)] (1 page)	039901(E)
John A. Thomas, Joseph E. Turney, Ryan M. Iutzi, Cristina H. Amon, and Alan J. H. McGaughey	
Erratum: Structure determination of multilayer silicene grown on Ag(111) films by electron diffraction: Evidence for Ag segregation at the surface [Phys. Rev. B 89 , 241403(R) (2014)] (1 page)	039902(E)
T. Shirai, T. Shirasawa, T. Hirahara, N. Fukui, T. Takahashi, and S. Hasegawa	
Erratum: $k \cdot p$ model for the energy dispersions and absorption spectra of InAs/GaSb type-II superlattices [Phys. Rev. B 86 , 235311 (2012)] (2 pages)	039903(E)
Y. Livneh, P. C. Klipstein, O. Klin, N. Snapi, S. Grossman, A. Glozman, and E. Weiss	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 90, NUMBER 3

JULY 2014-15(I)

Publisher's Note: Spin-liquid versus dimer phases in an anisotropic J_1 - J_2 frustrated square antiferromagnet [Phys. Rev. B 89 , 241104(R) (2014)] (<i>1 page</i>)	039904(E)
Alexandros Metavitsiadis, Daniel Sellmann, and Sebastian Eggert	
Publisher's Note: Dephasing in single-electron generation due to environmental noise probed by Hong-Ou-Mandel interferometry [Phys. Rev. B 89 , 205318 (2014)] (<i>1 page</i>)	039905(E)
Eiki Iyoda, Takeo Kato, Kazuki Koshino, and Thierry Martin	
Erratum: (In)commensurability, scaling, and multiplicity of friction in nanocrystals and application to gold nanocrystals on graphite [Phys. Rev. B 86 , 085429 (2012)] (<i>1 page</i>)	039906(E)
A. S. de Wijn	
Erratum: Screened hybrid functional applied to $3d^0 \rightarrow 3d^8$ transition-metal perovskites LaMO_3 ($M = \text{Sc-Cu}$): Influence of the exchange mixing parameter on the structural, electronic, and magnetic properties [Phys. Rev. B 86 , 235117 (2012)] (<i>2 pages</i>)	039907(E)
Jiangang He and Cesare Franchini	
Erratum: Accuracy evaluation and mechanism crossover of single-electron transfer in Si tunable-barrier turnstiles [Phys. Rev. B 89 , 165302 (2014)] (<i>1 page</i>)	039908(E)
Gento Yamahata, Katsuhiko Nishiguchi, and Akira Fujiwara	
Erratum: Role of rotational symmetry in the magnetism of a multiorbital model [Phys. Rev. B 86 , 155107 (2012)] (<i>1 page</i>)	039909(E)
A. E. Antipov, I. S. Krivenko, V. I. Anisimov, A. I. Lichtenstein, and A. N. Rubtsov	