

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 86, NUMBER 19

NOVEMBER 2012-15(I)

Scattering at magnetic and nonmagnetic impurities on surfaces with strong spin-orbit coupling (<i>7 pages</i>)	195432
D. Lükermann, S. Sologub, H. Pfnür, C. Klein, M. Horn-von Hoegen, and C. Tegenkamp	
Induced polarization and electronic properties of carbon-doped boron nitride nanoribbons (<i>8 pages</i>)	195433
J. Beheshtian, A. Sadeghi, M. Neek-Amal, K. H. Michel, and F. M. Peeters	
Using gate-modulated Raman scattering and electron-phonon interactions to probe single-layer graphene: A different approach to assign phonon combination modes (<i>9 pages</i>)	195434
D. L. Mafra, J. Kong, K. Sato, R. Saito, M. S. Dresselhaus, and P. T. Araujo	
Antiferromagnetic state in bilayer graphene (<i>5 pages</i>)	195435
Maxim Kharitonov	
Adsorption of water on graphene: A van der Waals density functional study (<i>6 pages</i>)	195436
Ikutaro Hamada	
Plasmonic terahertz lasing in an array of graphene nanocavities (<i>6 pages</i>)	195437
V. V. Popov, O. V. Polischuk, A. R. Davoyan, V. Ryzhii, T. Otsuji, and M. S. Shur	
Electron-phonon coupling on strained Ge/Si(111)-(5×5) surfaces (<i>7 pages</i>)	195438
M. Stoffel, Y. Fagot-Révurat, A. Tejada, B. Kierren, A. Nicolaou, P. Le Fèvre, F. Bertran, A. Taleb-Ibrahimi, and D. Malterre	

ERRATA

Erratum: Luttinger liquid physics and spin-flip scattering on helical edges [Phys. Rev. B 85 , 081106(R) (2012)] (<i>2 pages</i>)	199901(E)
M. Hohenadler and F. F. Assaad	
Publisher's Note: Determination of valence-band offset at cubic CdSe/ZnTe type-II heterojunctions: A combined experimental and theoretical approach [Phys. Rev. B 86 , 195308 (2012)] (<i>1 page</i>)	199902(E)
Daniel Mourad, Jan-Peter Richters, Lionel Gérard, Régis André, Joël Bleuse, and Henri Mariette	
Erratum: Ultrafast optical studies of ordered poly(3-thienylene-vinylene) films [Phys. Rev. B 85 , 235201 (2012)] (<i>1 page</i>)	199903(E)
E. Olejnik, B. Pandit, T. Basel, E. Lafalce, C.-X. Sheng, C. Zhang, X. Jiang, and Z. V. Vardeny	
Erratum: Theory of interfacial plasmon-phonon scattering in supported graphene [Phys. Rev. B 86 , 165422 (2012)] (<i>2 pages</i>)	199904(E)
Zhun-Yong Ong and Massimo V. Fischetti	

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 86, NUMBER 19

NOVEMBER 2012-15(I)

Channeling of a subangstrom electron beam in a crystal mapped to two-dimensional molecular orbitals (7 pages) Robert Hovden, Huolin L. Xin, and David A. Muller	195415
Metallic behavior in low-dimensional honeycomb SiB crystals: A first-principles prediction of atomic structure and electronic properties (8 pages) Anders Hansson, F. de Brito Mota, and Roberto Rivelino	195416
Quantum Hall effect in narrow graphene ribbons (5 pages) H. Hettmansperger, F. Duerr, J. B. Oostinga, C. Gould, B. Trauzettel, and L. W. Molenkamp	195417
Gold-embedded zigzag graphene nanoribbons as spin gapless semiconductors (7 pages) Xiaohui Hu, Wei Zhang, Litao Sun, and Arkady V. Krashenninnikov	195418
Scattering theory of adiabatic reaction forces due to out-of-equilibrium quantum environments (9 pages) Mark Thomas, Torsten Karzig, Silvia Viola Kusminskiy, Gergely Zaránd, and Felix von Oppen	195419
Adsorbate-induced segregation: First-principles study for C/Pt ₂₅ Rh ₇₅ (100) (9 pages) Tobias C. Kerscher, Wolfgang Landgraf, Raimund Podloucky, and Stefan Müller	195420
Electron localization in inhomogeneous Möbius rings (6 pages) V. M. Fomin, S. Kiravittaya, and O. G. Schmidt	195421
Detecting external electron spins using nitrogen-vacancy centers (8 pages) H. J. Mamin, M. H. Sherwood, and D. Rugar	195422
Strain-induced modulation of magnetic interactions in graphene (6 pages) S. R. Power, P. D. Gorman, J. M. Duffy, and M. S. Ferreira	195423
Dielectric function, screening, and plasmons of graphene in the presence of spin-orbit interactions (10 pages) Andreas Scholz, Tobias Stauber, and John Schliemann	195424
Edge state effects in junctions with graphene electrodes (7 pages) Dmitry A. Ryndyk, Jan Bundesmann, Ming-Hao Liu (劉明豪), and Klaus Richter	195425
Electron transport in folded graphene junctions (6 pages) Yuee Xie, Yuanping Chen, Xiao Lin Wei, and Jianxin Zhong	195426
Gap generation in topological insulator surface states by nonferromagnetic magnets (5 pages) László Oroszlány and Alberto Cortijo	195427
Spontaneous polarization in ultrasmall lithium niobate nanocrystals revealed by second harmonic generation (9 pages) Bastian Knabe, Karsten Buse, Wilfried Assenmacher, and Werner Mader	195428
TDDFT study of time-dependent and static screening in graphene (10 pages) V. Despoja, D. J. Mowbray, D. Vlahović, and L. Marušić	195429
Laser-assisted field evaporation from insulators triggered by photoinduced hole accumulation (6 pages) H. Tamura, M. Tsukada, K. P. McKenna, A. L. Shluger, T. Ohkubo, and K. Hono	195430
Influence of the surface dipole layer and Pauli repulsion on band energies and doping in graphene adsorbed on metal surfaces (15 pages) Julian Gebhardt, Francesc Viñes, and Andreas Görling	195431

(Continued)

Entanglement of electron spins and geometric phases in the diamond color center coupled to the P1 center (<i>5 pages</i>)	195316
M. Hebbache	
Antiband instability on vicinal Si(111) under the condition of diffusion-limited sublimation (<i>7 pages</i>)	195317
V. Usov, S. Stoyanov, C. O Coileain, O. Toktarbaiuly, and I. V. Shvets	
Surface physics, nanoscale physics, low-dimensional systems	
Structure and zero-dimensional polariton spectrum of natural defects in GaAs/AlAs microcavities (<i>11 pages</i>) . . .	195401
Joanna M. Zajac and Wolfgang Langbein	
Model of ripples in graphene (<i>8 pages</i>)	195402
L. L. Bonilla and A. Carpio	
Coherent control of double-dot molecules using Aharonov-Bohm magnetic flux (<i>6 pages</i>)	195403
Matisse Wei-Yuan Tu, Wei-Min Zhang, and Franco Nori	
Electronic structure of assembled graphene nanoribbons: Substrate and many-body effects (<i>5 pages</i>)	195404
Liangbo Liang and Vincent Meunier	
Optical signatures of the tunable band gap and valley-spin coupling in silicene (<i>10 pages</i>)	195405
L. Stille, C. J. Tabert, and E. J. Nicol	
First-principles transport calculation method based on real-space finite-difference nonequilibrium Green's function scheme (<i>13 pages</i>)	195406
Tomoya Ono, Yoshiyuki Egami, and Kikuji Hirose	
Large bandwidths in synthetic one-dimensional stacks of biological molecules (<i>4 pages</i>)	195407
Björn Oetzel, Frank Ortmann, Lars Matthes, Falk Tandetzky, Friedhelm Bechstedt, and Karsten Hannewald	
Design of tunable biperiodic graphene metasurfaces (<i>9 pages</i>)	195408
Arya Fallahi and Julien Perruisseau-Carrier	
Half-metallic ferromagnetism in substitutionally doped boronitrene (<i>13 pages</i>)	195409
A. M. Ukpong and N. Chetty	
Effects of intercalation and inhomogeneous filling on the collapse pressure of double-wall carbon nanotubes (<i>10 pages</i>)	195410
A. L. Aguiar, A. San-Miguel, E. B. Barros, M. Kalbáč, D. Machon, Y. A. Kim, H. Muramatsu, M. Endo, and A. G. Souza Filho	
Wideband perfect absorption in arrays of tilted carbon nanotubes (<i>6 pages</i>)	195411
S. M. Hashemi and I. S. Nefedov	
Submonolayer growth of H ₂ -phthalocyanine on Ag(111) (<i>8 pages</i>)	195412
Ingo Kröger, Patrick Bayersdorfer, Benjamin Stadtmüller, Christoph Kleimann, Giuseppe Mercurio, Friedrich Reinert, and Christian Kumpf	
Half-metallicity induced by charge injection in hexagonal boron nitride clusters embedded in graphene (<i>9 pages</i>)	195413
Marcos G. Menezes and Rodrigo B. Capaz	
Symmetries, topological phases, and bound states in the one-dimensional quantum walk (<i>9 pages</i>)	195414
J. K. Asbóth	

(Continued)

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

Thermopower in oxide heterostructures: The importance of being multiple-band conductors (<i>6 pages</i>)	195301
A. Filippetti, P. Delugas, M. J. Verstraete, I. Pallecchi, A. Gadaleta, D. Marré, D. F. Li, S. Gariglio, and V. Fiorentini	
Mesoscopic spin-orbit effect in the semiconductor nanostructure electron g factor (<i>4 pages</i>)	195302
M. A. Toloza Sandoval, A. Ferreira da Silva, E. A. de Andrada e Silva, and G. C. La Rocca	
Spin transistors based on spatial control of electron spins in double quantum wells (<i>6 pages</i>)	195303
Pawel Pfeffer and Wlodek Zawadzki	
Observation of a highly spin-polarized topological surface state in GeBi_2Te_4 (<i>5 pages</i>)	195304
K. Okamoto, K. Kuroda, H. Miyahara, K. Miyamoto, T. Okuda, Z. S. Aliev, M. B. Babanly, I. R. Amiraslanov, K. Shimada, H. Namatame, M. Taniguchi, D. A. Samorokov, T. V. Menshchikova, E. V. Chulkov, and A. Kimura	
Excitons in cores of exciton-polariton vortices (<i>7 pages</i>)	195305
Nina S. Voronova and Yurii E. Lozovik	
☞ Destruction and recurrence of excitons by acoustic shock waves on picosecond time scales (<i>7 pages</i>)	195306
T. Berstermann, C. Brüggemann, A. V. Akimov, M. Bombeck, D. R. Yakovlev, N. A. Gippius, A. V. Scherbakov, I. Sagnes, J. Bloch, and M. Bayer	
Excitons in molecular crystals from first-principles many-body perturbation theory: Picene versus pentacene (<i>8 pages</i>)	195307
Pierluigi Cudazzo, Matteo Gatti, and Angel Rubio	
Determination of valence-band offset at cubic CdSe/ZnTe type-II heterojunctions: A combined experimental and theoretical approach (<i>10 pages</i>)	195308
Daniel Mourad, Jan-Peter Richters, Lionel Gérard, Régis André, Joël Bleuse, and Henri Mariette	
☞ Dependence of the Dresselhaus spin-orbit interaction on the quantum well width (<i>4 pages</i>)	195309
M. P. Walser, U. Siegenthaler, V. Lechner, D. Schuh, S. D. Ganichev, W. Wegscheider, and G. Salis	
Anomalous double-layer step formation on $\text{Si}(100)$ in hydrogen process ambient (<i>5 pages</i>)	195310
Sebastian Brückner, Henning Döscher, Peter Kleinschmidt, Oliver Supplie, Anja Dobrich, and Thomas Hannappel	
Electrostatic effects and band bending in doped topological insulators (<i>8 pages</i>)	195311
Dimitrios Galanakis and Tudor D. Stanescu	
Design and analysis of photonic crystal coupled cavity arrays for quantum simulation (<i>6 pages</i>)	195312
Arka Majumdar, Armand Rundquist, Michal Bajcsy, Vaishno D. Dasika, Seth R. Bank, and Jelena Vučković	
☞ Spatial dynamics of stepwise homogeneously pumped polariton condensates (<i>9 pages</i>)	195313
Franziska Veit, Marc Aßmann, Manfred Bayer, Andreas Löffler, Sven Höfling, Martin Kamp, and Alfred Forchel	
Induced currents in the quantum Hall regime: Energy storage, persistence, and I - V characteristics (<i>8 pages</i>)	195314
M. J. Smith, A. Usher, C. D. H. Williams, A. Shytov, A. S. Sachrajda, A. Kam, and Z. R. Wasilewski	
Temperature-dependent internal photoemission probe for band parameters (<i>9 pages</i>)	195315
Yan-Feng Lao and A. G. Unil Perera	

(Continued)

Spin-assisted covalent bond mechanism in “charge-ordering” perovskite oxides (<i>5 pages</i>)	195144
Antonio Cammarata and James M. Rondinelli	
Probing guided modes in a monolayer colloidal crystal on a flat metal film (<i>10 pages</i>)	195145
Sergei G. Romanov, Nicolas Vogel, Karina Bley, Katharina Landfester, Clemens K. Weiss, Sergej Orlov, Alexander V. Korovin, Gennady P. Chuiko, Alois Regensburger, Alexandra S. Romanova, Arian Kriesch, and Ulf Peschel	
Hamiltonian theory of fractionally filled Chern bands (<i>15 pages</i>)	195146
Ganpathy Murthy and R. Shankar	
Unusual temperature dependence of the spectral weight near the Fermi level of NdNiO ₃ thin films (<i>7 pages</i>)	195147
E. F. Schwier, R. Scherwitzl, Z. Vydrov, M. Garca-Fernandez, M. Gibert, P. Zubko, M. G. Garnier, J.-M. Triscone, and P. Aebi	
Semiconductors I: bulk	
Optical absorption and DFT calculations in <i>L</i> -aspartic acid anhydrous crystals: Charge carrier effective masses point to semiconducting behavior (<i>12 pages</i>)	195201
A. M. Silva, B. P. Silva, F. A. M. Sales, V. N. Freire, E. Moreira, U. L. Fulco, E. L. Albuquerque, F. F. Maia, Jr., and E. W. S. Caetano	
Evidence of N substitution by Mn in GaN (<i>4 pages</i>)	195202
L. M. C. Pereira, U. Wahl, J. G. Correia, S. Decoster, L. M. Amorim, M. R. da Silva, J. P. Araujo, and A. Vantomme	
Phosphorescence superradiance in a Pt-containing π -conjugated polymer (<i>5 pages</i>)	195203
Bagrat Khachatryan, Tho D. Nguyen, Z. Valy Vardeny, and Eitan Ehrenfreund	
Real-space distribution of the Hall current densities and their spin polarization in nonmagnetic zinc-blende semiconductors (<i>8 pages</i>)	195204
Pavel Sreda and Vaclav Drchal	
Formation and destabilization of Ga interstitials in GaAsN: Experiment and theory (<i>7 pages</i>)	195205
P. Laukkanen, M. P. J. Punkkinen, J. Puustinen, H. Levamaki, M. Tuominen, K. Schulte, J. Dahl, J. Lang, H. L. Zhang, M. Kuzmin, K. Palotas, B. Johansson, L. Vitos, M. Guina, and K. Kokko	
Quantitative theory of the oxygen vacancy and carrier self-trapping in bulk TiO ₂ (<i>8 pages</i>)	195206
Peter Deak, Balint Aradi, and Thomas Frauenheim	
Predicting the band gap of ternary oxides containing 3d ¹⁰ and 3d ⁰ metals (<i>7 pages</i>)	195207
J. A. McLeod, A. Moewes, D. A. Zatsepin, E. Z. Kurmaev, A. Wypych, I. Bobowska, A. Opasinska, and S. O. Cholakh	
Temperature dependence of band gaps in semiconductors: Electron-phonon interaction (<i>10 pages</i>)	195208
J. Bhosale, A. K. Ramdas, A. Burger, A. Munoz, A. H. Romero, M. Cardona, R. Lauck, and R. K. Kremer	
Configuring pnictogen rings in skutterudites for low phonon conductivity (<i>7 pages</i>)	195209
Hang Chi, Hyoungchul Kim, John C. Thomas, Xianli Su, Stephen Stackhouse, Massoud Kaviani, Anton Van der Ven, Xinfeng Tang, and Ctirad Uher	
Phonon-induced dephasing of chromium color centers in diamond (<i>6 pages</i>)	195210
T. Muller, I. Aharonovich, Z. Wang, X. Yuan, S. Castelletto, S. Prawer, and M. Atature	

(Continued)

SU(3) Anderson impurity model: A numerical renormalization group approach exploiting non-Abelian symmetries (<i>17 pages</i>)	195128
Cătălin Pașcu Moca, Arne Alex, Jan von Delft, and Gergely Zaránd	
Topological phase transitions driven by next-nearest-neighbor hopping in two-dimensional lattices (<i>10 pages</i>) . . .	195129
W. Beugeling, J. C. Everts, and C. Morais Smith	
Multiplet resonance lifetimes in resonant inelastic x-ray scattering involving shallow core levels (<i>6 pages</i>)	195130
L. Andrew Wray, Wanli Yang, Hiroshi Eisaki, Zahid Hussain, and Yi-De Chuang	
Spin-orbit coupling in iridium-based 5 <i>d</i> compounds probed by x-ray absorption spectroscopy (<i>8 pages</i>)	195131
J. P. Clancy, N. Chen, C. Y. Kim, W. F. Chen, K. W. Plumb, B. C. Jeon, T. W. Noh, and Young-June Kim	
Ordering and multiple phase transitions in ultrathin nickelate superlattices (<i>4 pages</i>)	195132
Danilo Puggioni, Alessio Filippetti, and Vincenzo Fiorentini	
Structure and physical properties of the layered iron oxychalcogenide BaFe ₂ Se ₂ O (<i>7 pages</i>)	195133
Hechang Lei(雷和畅), Hyejin Ryu(류혜진), V. Ivanovski, J. B. Warren, A. I. Frenkel, B. Cekic, Wei-Guo Yin(尹卫国), and C. Petrovic	
Pressure-induced suppression of charge order and nanosecond valence dynamics in Fe ₂ OBO ₃ (<i>5 pages</i>)	195134
G. R. Hearne, W. N. Sibanda, E. Carleschi, V. Pischedda, and J. P. Attfield	
<i>Ab initio</i> Bethe-Salpeter calculations of the x-ray absorption spectra of transition metals at the <i>L</i> -shell edges (<i>6 pages</i>)	195135
J. Vinson and J. J. Rehr	
Covalency, double-counting, and the metal-insulator phase diagram in transition metal oxides (<i>10 pages</i>)	195136
Xin Wang, M. J. Han, Luca de' Medici, Hyowon Park, C. A. Marianetti, and Andrew J. Millis	
Efficient simulation of infinite tree tensor network states on the Bethe lattice (<i>9 pages</i>)	195137
Wei Li, Jan von Delft, and Tao Xiang	
Ultrafast dynamics of reversible photoinduced phase transitions in rubidium manganese hexacyanoferrate investigated by midinfrared CN vibration spectroscopy (<i>9 pages</i>)	195138
Akifumi Asahara, Makoto Nakajima, Ryo Fukaya, Hiroko Tokoro, Shin-ichi Ohkoshi, and Tohru Suemoto	
Defects and localization in chemically-derived graphene (<i>6 pages</i>)	195139
L. Ćirić, A. Sienkiewicz, R. Gaál, J. Jaćimović, C. Vâju, A. Magrez, and L. Forró	
Effect of point defects on the electronic density of states of ScN studied by first-principles calculations and implications for thermoelectric properties (<i>7 pages</i>)	195140
Sit Kerdsonpanya, Björn Alling, and Per Eklund	
Fractional power-law behavior and its origin in iron-chalcogenide and ruthenate superconductors: Insights from first-principles calculations (<i>9 pages</i>)	195141
Z. P. Yin, K. Haule, and G. Kotliar	
Physical properties of Ba ₂ Mn ₂ Sb ₂ O single crystals (<i>6 pages</i>)	195142
J. Li, C. E. Ekuma, I. Vekhter, M. Jarrell, J. Moreno, S. Stadler, A. B. Karki, and R. Jin	
Stoichiometry, structure, and transport in the quasi-one-dimensional metal Li _{0.9} Mo ₆ O ₁₇ (<i>5 pages</i>)	195143
J. L. Cohn, P. Boynton, J. S. Triviño, J. Trastoy, B. D. White, C. A. M. dos Santos, and J. J. Neumeier	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 86, NUMBER 19

NOVEMBER 2012-15(I)

Tensor network states and algorithms in the presence of a global SU(2) symmetry (31 pages)	195114
Sukhwinder Singh and Guifre Vidal	
Atomic dynamics of low-lying rare-earth guest modes in heavy fermion filled skutterudites ROs ₄ Sb ₁₂ (R = light rare-earth) (13 pages)	195115
Satoshi Tsutsui, Hiroshi Uchiyama, John P. Sutter, Alfred Q. R. Baron, Masaichiro Mizumaki, Naomi Kawamura, Tomoya Uruga, Hitoshi Sugawara, Jun-ichi Yamaura, Akira Ochiai, Takumi Hasegawa, Norio Ogita, Masayuki Udagawa, and Hideyuki Sato	
Density-waves instability and a skyrmion lattice on the surface of strong topological insulators (5 pages)	195116
Yuval Baum and Ady Stern	
Density of states and magnetic correlations at a metal-Mott insulator interface (6 pages)	195117
M. Jiang, G. G. Batrouni, and R. T. Scalettar	
Phase diagram of the asymmetric Hubbard model and an entropic chromatographic method for cooling cold fermions in optical lattices (14 pages)	195118
E. A. Winograd, R. Chitra, and M. J. Rozenberg	
<i>Ab initio</i> study of the two-dimensional metallic state at the surface of SrTiO ₃ : Importance of oxygen vacancies (10 pages)	195119
Juan Shen, Hunpyo Lee, Roser Valentí, and Harald O. Jeschke	
Observation of field-induced polarization of valleys in <i>p</i> -type Sb ₂ Te ₃ single crystals (5 pages)	195120
Z. J. Yue, C. B. Zhu, S. X. Dou, and X. L. Wang	
Image-charge-induced localization of molecular orbitals at metal-molecule interfaces: Self-consistent <i>GW</i> calculations (6 pages)	195121
M. Strange and K. S. Thygesen	
Symmetry-protected topological phases in spin ladders with two-body interactions (12 pages)	195122
Zheng-Xin Liu, Zhen-Biao Yang, Yong-Jian Han, Wei Yi, and Xiao-Gang Wen	
Momentum distribution and Compton profile by the <i>ab initio</i> <i>GW</i> approximation (13 pages)	195123
Valerio Olevano, Andrey Titov, Massimo Ladisa, Keijo Hämäläinen, Simo Huotari, and Markus Holzmann	
Photoemission evidence for crossover from Peierls-like to Mott-like transition in highly strained VO ₂ (5 pages)	195124
J. Laverock, A. R. H. Preston, D. Newby, Jr., K. E. Smith, S. Sallis, L. F. J. Piper, S. Kittiwatanakul, J. W. Lu, S. A. Wolf, M. Leandersson, and T. Balasubramanian	
Magnetic translation algebra with or without magnetic field in the continuum or on arbitrary Bravais lattices in any dimension (10 pages)	195125
Claudio Chamon and Christopher Mudry	
Superconducting proximity effect on the edge of fractional topological insulators (7 pages)	195126
Meng Cheng	
Giant third-order magneto-optical rotation in ferromagnetic EuO (6 pages)	195127
Masakazu Matsubara, Andreas Schmehl, Jochen Mannhart, Darrell G. Schlom, and Manfred Fiebig	

(Continued)

ARTICLES

Electronic structure and strongly correlated systems

Nonequilibrium dynamics in the strongly excited inhomogeneous Dicke model (9 pages)	195101
Christoph Sträter, Oleksandr Tsypliyatyev, and Alexandre Faribault	
Friedel oscillations due to Fermi arcs in Weyl semimetals (5 pages)	195102
Pavan Hosur	
Dynamics of doublon-holon pairs in Hubbard two-leg ladders (7 pages)	195103
Luis G. G. V. Dias da Silva, G. Alvarez, and E. Dagotto	
Spin state transition and covalent bonding in LaCoO ₃ (9 pages)	195104
V. Křápek, P. Novák, J. Kuneš, D. Novoselov, Dm. M. Korotin, and V. I. Anisimov	
Order and supersymmetry at high filling zero-energy states on the triangular lattice (9 pages)	195105
D. Galanakis, C. L. Henley, and S. Papanikolaou	
Performance of the modified Becke-Johnson potential for semiconductors (8 pages)	195106
J. A. Camargo-Martínez and R. Baquero	
Method for defect stability diagram from <i>ab initio</i> calculations: A case study of SrTiO ₃ (14 pages)	195107
Amit Samanta, Weinan E, and S. B. Zhang	
Continuous magnetic phase transition in half-frustrated Ca ₂ Os ₂ O ₇ (7 pages)	195108
P. Zheng, Y. G. Shi, Q. S. Wu, G. Xu, T. Dong, Z. G. Chen, R. H. Yuan, B. Cheng, K. Yamaura, J. L. Luo, and N. L. Wang	
Infrared spectroscopy of narrow gap donor-acceptor polymer-based ambipolar transistors (8 pages)	195109
O. Khatib, J. D. Yuen, J. Wilson, R. Kumar, M. Di Ventura, A. J. Heeger, and D. N. Basov	
Kinks in the periodic Anderson model (6 pages)	195110
A. Kainz, A. Toschi, R. Peters, and K. Held	
Effect of the boundary on thermodynamic quantities such as magnetization (6 pages)	195111
Kuang-Ting Chen and Patrick A. Lee	
One-dimensional interacting electrons beyond the Dzyaloshinskii-Larkin theorem (4 pages)	195112
S. Teber	
Coexistence of antiferromagnetism and <i>d + id</i> superconducting correlations in the graphene bilayer (6 pages)	195113
M. V. Milovanović and S. Predin	

