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
P.O. Box 41
Annapolis Junction, MD 20701

THIRD SERIES, VOLUME 90, NUMBER 8 *CONTENTS* **AUGUST 2014-15(II)**

RAPID COMMUNICATIONS

Electronic structure and strongly correlated systems

Probing the $\nu = \frac{2}{3}$ fractional quantum Hall edge by momentum-resolved tunneling *(5 pages)* . . . . . 081101(R)
Hendrik Meier, Yuval Gefen, and Leonid I. Glazman

Fractional quantum spin Hall effect in flat-band checkerboard lattice model *(5 pages)* . . . . . 081102(R)
Wei Li, D. N. Sheng, C. S. Ting, and Yan Chen

Spin polarization driven by a charge-density wave in monolayer $1T$-TaS_2 *(5 pages)* . . . . . 081103(R)
Qingyun Zhang, Li-Yong Gan, Yingchun Cheng, and Udo Schwingenschlögl

Bond order and the role of ligand states in stripe-modulated $IrTe_2$ *(5 pages)* . . . . . 081104(R)
K. Takubo, R. Comin, D. Ootsuki, T. Mizokawa, H. Wadati, Y. Takahashi, G. Shibata, A. Fujimori, R. Sutarto, F. He, S. Pyon, K. Kudo, M. Nohara, G. Levy, I. S. Elfimov, G. A. Sawatzky, and A. Damascelli

Kagome lattice Hubbard model at half filling *(5 pages)* . . . . . 081105(R)
Siegfried Guertler

Spectroscopy and dynamics of unoccupied electronic states of the topological insulators Sb_2Te_3 and Sb_2Te_2S *(5 pages)* . . . . . 081106(R)
J. Reimann, J. Güdde, K. Kuroda, E. V. Chulkov, and U. Höfer

Kondo scattering in δ-doped $LaTiO_3/SrTiO_3$ interfaces: Renormalization by spin-orbit interactions *(5 pages)* . . . . 081107(R)
Shubhankar Das, A. Rastogi, Lijun Wu, Jin-Cheng Zheng, Z. Hossain, Yimei Zhu, and R. C. Budhani

Mechanism for the large conductance modulation in electrolyte-gated thin gold films *(5 pages)* . . . . . 081108(R)
Trevor A. Petach, Menyoung Lee, Ryan C. Davis, Apurva Mehta, and David Goldhaber-Gordon

Multi-spin-state dynamics during insulator-metal crossover in $LaCoO_3$ *(4 pages)* . . . . . 081109(R)
A. Doi, J. Fujioka, T. Fukuda, S. Tsutsui, D. Okuyama, Y. Taguchi, T. Arima, A. Q. R. Baron, and Y. Tokura

Anyon and loop braiding statistics in field theories with a topological Θ term *(4 pages)* . . . . . 081110(R)
Zhen Bi, Yi-Zhuang You, and Cenke Xu

Quantum phases of a chain of strongly interacting anyons *(5 pages)* . . . . . 081111(R)
Peter E. Finch, Holger Frahm, Marius Lewerenz, Ashley Milsted, and Tobias J. Osborne

Topological crystalline insulators and Dirac octets in antiperovskites *(5 pages)* . . . . . 081112(R)
Timothy H. Hsieh, Junwei Liu, and Liang Fu

Copyright 2014 by American Physical Society

(Continued)

1098-0121(20140815)90:8;1-T

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 90, NUMBER 8** **AUGUST 2014-15(II)**

Strongly interacting Dirac liquid on the surface of a topological Kondo insulator *(5 pages)* . . . . . 081113(R)
Dmitry K. Efimkin and Victor Galitski

Ferromagnetism in UGe_2: A microscopic model *(5 pages)* . . . . . 081114(R)
Marcin M. Wysokiński, Marcin Abram, and Józef Spałek

Spontaneous parity breaking in spin-orbital coupled systems *(5 pages)* . . . . . 081115(R)
Satoru Hayami, Hiroaki Kusunose, and Yukitoshi Motome

Calculating the entanglement spectrum in quantum Monte Carlo with application to *ab initio* Hamiltonians *(5 pages)* . . . . . 081116(R)
Norm M. Tubman and D. ChangMo Yang

Isotopic identification of engineered nitrogen-vacancy spin qubits in ultrapure diamond *(6 pages)* . . . . . 081117(R)
T. Yamamoto, S. Onoda, T. Ohshima, T. Teraji, K. Watanabe, S. Koizumi, T. Umeda, L. P. McGuinness, C. Müller, B. Naydenov, F. Dolde, H. Fedder, J. Honert, M. L. Markham, D. J. Twitchen, J. Wrachtrup, F. Jelezko, and J. Isoya

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

Vanishing fine-structure splittings in telecommunication-wavelength quantum dots grown on (111)A surfaces by droplet epitaxy *(6 pages)* . . . . . 081301(R)
Xiangming Liu, Neul Ha, Hideaki Nakajima, Takaaki Mano, Takashi Kuroda, Bernhard Urbaszek, Hidekazu Kumano, Ikuo Suemune, Yoshiki Sakuma, and Kazuaki Sakoda

Spectroscopy of equilibrium and nonequilibrium charge transfer in semiconductor quantum structures *(5 pages)* . . . . . 081302(R)
C. Rössler, S. Burkhard, T. Krähenmann, M. Röösli, P. Märki, J. Basset, T. Ihn, K. Ensslin, C. Reichl, and W. Wegscheider

Surface physics, nanoscale physics, low-dimensional systems

Optically induced oxygen desorption from graphene measured using femtosecond two-pulse correlation *(5 pages)* 081401(R)
S. M. Hornett, M. Heath, D. W. Horsell, and E. Hendry

Origin of the insulating state in exfoliated high-T_c two-dimensional atomic crystals *(5 pages)* . . . . . 081402(R)
L. J. Sandilands, A. A. Reijnders, A. H. Su, V. Baydina, Z. Xu, A. Yang, G. Gu, T. Pedersen, F. Borondics, and K. S. Burch

Quenching the magnetic flux in a one-dimensional fermionic ring: Loschmidt echo and edge singularity *(5 pages)* 081403(R)
Andrea De Luca

Sharply distinct *d*-band quantum-well states in palladium thin films *(5 pages)* . . . . . 081404(R)
Srijan Kumar Saha, Sujit Manna, Marek Przybylski, Valeri S. Stepanyuk, and Jürgen Kirschner

Anomalous interference in Aharonov-Bohm rings with two Majorana bound states *(5 pages)* . . . . . 081405(R)
Akiko Ueda and Takehito Yokoyama

High-Chern-number bands and tunable Dirac cones in β-graphyne *(5 pages)* . . . . . 081406(R)
Guido van Miert, Cristiane Morais Smith, and Vladimir Juričić

Quantum coherence in momentum space of light-matter condensates *(5 pages)* . . . . . 081407(R)
C. Antón, G. Tosi, M. D. Martín, Z. Hatzopoulos, G. Konstantinidis, P. S. Eldridge, P. G. Savvidis, C. Tejedor, and L. Viña

(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 90, NUMBER 8** **AUGUST 2014-15(II)**

Origin of photoresponse in black phosphorus phototransistors *(5 pages)* . . . . . 081408(R)
Tony Low, Michael Engel, Mathias Steiner, and Phaedon Avouris

ARTICLES

Electronic structure and strongly correlated systems

Electronic structure of black phosphorus studied by angle-resolved photoemission spectroscopy *(5 pages)* 085101
C. Q. Han, M. Y. Yao, X. X. Bai, Lin Miao, Fengfeng Zhu, D. D. Guan, Shun Wang, C. L. Gao, Canhua Liu, Dong Qian, Y. Liu, and Jin-feng Jia

Efficient real-frequency solver for dynamical mean-field theory *(18 pages)* 085102
Y. Lu, M. Höppner, O. Gunnarsson, and M. W. Haverkort

Lattice construction of pseudopotential Hamiltonians for fractional Chern insulators *(14 pages)* 085103
Ching Hua Lee and Xiao-Liang Qi

Real-time transport in open quantum systems from $\mathcal{PT}$-symmetric quantum mechanics *(14 pages)* 085104
Justin E. Elenewski and Hanning Chen

Coexistence and competition of multiple charge-density-wave orders in rare-earth tritellurides *(7 pages)* 085105
B. F. Hu, B. Cheng, R. H. Yuan, T. Dong, and N. L. Wang

Importance of tetrahedral coordination for high-valent transition-metal oxides: $YCrO_4$ as a model system *(6 pages)* 085106
A. A. Tsirlin, M. G. Rabie, A. Efimenko, Z. Hu, R. Saez-Puche, and L. H. Tjeng

Magnetic and transport signatures of Rashba spin-orbit coupling on the ferromagnetic Kondo lattice model in two dimensions *(11 pages)* 085107
Giovany A. Meza and José A. Riera

Band-filling and disorder effects in the ordered phase of the Falicov-Kimball model *(7 pages)* 085108
R. D. B. Carvalho and M. A. Gusmão

Electric polarization along the c axis in the ferroelectric helimagnetic phase of $CuFe_{1-x}Ga_xO_2$ ($x = 0.035$) *(11 pages)* 085109
Chikafumi Kaneko, Taro Nakajima, Setsuo Mitsuda, Yoshikazu Tanaka, and Noriki Terada

Correlation effects in the tetragonal and collapsed-tetragonal phase of $CaFe_2As_2$ *(6 pages)* 085110
Jean Diehl, Steffen Backes, Daniel Guterding, Harald O. Jeschke, and Roser Valentí

Amorphous ferromagnetism and re-entrant magnetic glassiness in single-crystalline $Sm_2Mo_2O_7$ *(14 pages)* 085111
G. Prando, P. Carretta, A. U. B. Wolter, R. Saint-Martin, A. Revcolevschi, and B. Büchner

Cumulant expansion of the retarded one-electron Green function *(6 pages)* 085112
J. J. Kas, J. J. Rehr, and L. Reining

Continuous Mott transition in a two-dimensional Hubbard model *(5 pages)* 085113
Yuki Yanagi and Kazuo Ueda

$(3 + 1)$-dimensional topological quantum field theory from a tight-binding model of interacting spinless fermions *(15 pages)* 085114
Mauro Cirio, Giandomenico Palumbo, and Jiannis K. Pachos

(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 90, NUMBER 8** **AUGUST 2014-15(II)**

Fermi-level pinning, charge transfer, and relaxation of spin-momentum locking at metal contacts to topological insulators *(6 pages)* 085115
Catalin D. Spataru and François Léonard

Conductivity noise study of the insulator-metal transition and phase coexistence in epitaxial samarium nickelate thin films *(5 pages)* 085116
Anindita Sahoo, Sieu D. Ha, Shriram Ramanathan, and Arindam Ghosh

Evolution of magnetic structure driven by synthetic spin-orbit coupling in a two-component Bose-Hubbard model *(8 pages)* 085117
Jize Zhao, Shijie Hu, Jun Chang, Fawei Zheng, Ping Zhang, and Xiaoqun Wang

Effects of van der Waals interactions and quasiparticle corrections on the electronic and transport properties of Bi_2Te_3 *(6 pages)* 085118
L. Cheng, H. J. Liu, J. Zhang, J. Wei, J. H. Liang, J. Shi, and X. F. Tang

Sub-10 fs spectroscopy of K-TCNQ crystal for observation of intramolecular vibration modulation in melting of the Peierls dimer *(5 pages)* 085119
Kazuaki Nakata, Eiji Tokunaga, Juan Du, Bing Xue, Jun Miyazaki, Keisuke Seto, and Takayoshi Kobayashi

Extraordinary transverse magneto-optical Kerr effect in a superlens *(5 pages)* 085120
E. Moncada-Villa, A. García-Martín, and J. C. Cuevas

Kondo model in nonequilibrium: Interplay between voltage, temperature, and crossover from weak to strong coupling *(41 pages)* 085121
Frank Reininghaus, Mikhail Pletyukhov, and Herbert Schoeller

Dynamic nuclear polarization from current-induced electron spin polarization *(5 pages)* 085122
C. J. Trowbridge, B. M. Norman, Y. K. Kato, D. D. Awschalom, and V. Sih

Suppression of T_C by overdoped Li in the diluted ferromagnetic semiconductor $Li_{1+y}(Zn_{1-x}Mn_x)P$: A μSR investigation *(6 pages)* 085123
F. L. Ning, Huiyuan Man, Xin Gong, Guoxiang Zhi, Shengli Guo, Cui Ding, Quan Wang, T. Goko, L. Liu, B. A. Frandsen, Y. J. Uemura, H. Luetkens, E. Morenzoni, C. Q. Jin, T. Munsie, G. M. Luke, Hangdong Wang, and Bin Chen

Self-organized topological state in a magnetic chain on the surface of a superconductor *(9 pages)* 085124
I. Reis, D. J. J. Marchand, and M. Franz

Electron correlation and magnetism at the $LaAlO_3/SrTiO_3$ interface: A DFT+DMFT investigation *(7 pages)* 085125
Frank Lechermann, Lewin Boehnke, Daniel Grieger, and Christoph Piefke

Crystal field splitting in $Sr_{n+1}Ir_nO_{3n+1}$ ($n = 1,2$) iridates probed by x-ray Raman spectroscopy *(6 pages)* 085126
M. Moretti Sala, M. Rossi, A. Al-Zein, S. Boseggia, E. C. Hunter, R. S. Perry, D. Prabhakaran, A. T. Boothroyd, N. B. Brookes, D. F. McMorrow, G. Monaco, and M. Krisch

Experimental realization of a semiconducting full-Heusler compound: Fe_2TiSi *(5 pages)* 085127
Markus Meinert, Manuel P. Geisler, Jan Schmalhorst, Ulrich Heinzmann, Elke Arenholz, Walid Hetaba, Michael Stöger-Pollach, Andreas Hütten, and Günter Reiss

Fermi-level electronic structure of a topological-insulator/cuprate-superconductor based heterostructure in the superconducting proximity effect regime *(6 pages)* 085128
Su-Yang Xu, Chang Liu, Anthony Richardella, I. Belopolski, N. Alidoust, M. Neupane, G. Bian, Nitin Samarth, and M. Z. Hasan

(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 90, NUMBER 8** **AUGUST 2014-15(II)**

Boson features in STM spectra of cuprate superconductors: Weak-coupling phenomenology *(7 pages)* 085129
Sumiran Pujari and C. L. Henley

Determination of the sequence and magnitude of charge order in $LuFe_2O_4$ by resonant x-ray scattering *(10 pages)* 085130
Sara Lafuerza, Gloria Subías, Joaquín García, Javier Blasco, Gareth Nisbet, Kazimierz Conder, and Ekaterina Pomjakushina

Charge and orbital orderings associated with metal-insulator transition in V_6O_{13} *(9 pages)* 085131
T. Toriyama, T. Nakayama, T. Konishi, and Y. Ohta

Fractionally quantized Berry phase, adiabatic continuation, and edge states *(6 pages)* 085132
Toshikaze Kariyado and Yasuhiro Hatsugai

Proposal for a topological spin Chern pump *(6 pages)* 085133
C. Q. Zhou, Y. F. Zhang, L. Sheng, R. Shen, D. N. Sheng, and D. Y. Xing

Testing the Jacob's ladder of density functionals for electronic structure and magnetism of rutile VO_2 *(12 pages)* 085134
Bing Xiao, Jianwei Sun, Adrienn Ruzsinszky, and John P. Perdew

Model for quantitative tip-enhanced spectroscopy and the extraction of nanoscale-resolved optical constants *(17 pages)* 085136
Alexander S. McLeod, P. Kelly, M. D. Goldflam, Z. Gainsforth, A. J. Westphal, Gerardo Dominguez, Mark H. Thiemens, Michael M. Fogler, and D. N. Basov

Tensor network implementation of bulk entanglement spectrum *(5 pages)* 085137
Timothy H. Hsieh, Liang Fu, and Xiao-Liang Qi

Renormalization of two-body interactions due to higher-body interactions of lattice bosons *(5 pages)* 085138
Vipin Kerala Varma and Hartmut Monien

Exact NMR simulation of protein-size spin systems using tensor train formalism *(8 pages)* 085139
D. V. Savostyanov, S. V. Dolgov, J. M. Werner, and Ilya Kuprov

Lattice model for fermionic toric code *(9 pages)* 085140
Zheng-Cheng Gu, Zhenghan Wang, and Xiao-Gang Wen

First-principles description of charge transfer in donor-acceptor compounds from self-consistent many-body perturbation theory *(7 pages)* 085141
Fabio Caruso, Viktor Atalla, Xinguo Ren, Angel Rubio, Matthias Scheffler, and Patrick Rinke

Cooperative robustness to dephasing: Single-exciton superradiance in a nanoscale ring to model natural light-harvesting systems *(8 pages)* 085142
G. Luca Celardo, Paolo Poli, Luca Lussardi, and Fausto Borgonovi

Doping- and pressure-induced change of electrical and magnetic properties in the Fe-based spin-ladder compound $BaFe_2Se_3$ *(6 pages)* 085143
Fei Du, Yasuyuki Hirata, Kazuyuki Matsubayashi, Yoshiya Uwatoko, Yutaka Ueda, and Kenya Ohgushi

CuSe-based layered compound $Bi_2YO_4Cu_2Se_2$ as a quasi-two-dimensional metal *(10 pages)* 085144
S. G. Tan (谭树刚), D. F. Shao (邵定夫), W. J. Lu, B. Yuan, Y. Liu, J. Yang, W. H. Song, Hechang Lei (雷和畅), and Y. P. Sun

(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 90, NUMBER 8** **AUGUST 2014-15(II)**

Emergent dome of nematic order around a quantum anomalous Hall critical point *(6 pages)* 085145
A. M. Cook, C. Hickey, and A. Paramekanti

Phase diagram of the Kane-Mele-Coulomb model *(9 pages)* 085146
M. Hohenadler, F. Parisen Toldin, I. F. Herbut, and F. F. Assaad

Trapping and detrapping in $SrAl_2O_4$:Eu,Dy persistent phosphors: Influence of excitation wavelength and temperature *(15 pages)* 085147
Jonas Botterman, Jonas J. Joos, and Philippe F. Smet

Exotic Kondo crossover in a wide temperature region in the topological Kondo insulator SmB_6 revealed by high-resolution ARPES *(6 pages)* 085148
N. Xu, C. E. Matt, E. Pomjakushina, X. Shi, R. S. Dhaka, N. C. Plumb, M. Radović, P. K. Biswas, D. Evtushinsky, V. Zabolotnyy, J. H. Dil, K. Conder, J. Mesot, H. Ding, and M. Shi

Strongly bound yet light bipolarons for double-well electron-phonon coupling *(7 pages)* 085149
Clemens P. J. Adolphs and Mona Berciu

Magnetization and phase transition induced by circularly polarized laser in quantum magnets *(8 pages)* 085150
Shintaro Takayoshi, Hideo Aoki, and Takashi Oka

Semiconductors I: bulk

Temperature dependence of the exciton dynamics in DCM2:Alq_3 *(7 pages)* 085201
Xiao Liu, Yifan Zhang, and Stephen R. Forrest

Vacancies and small polarons in $SrTiO_3$ *(6 pages)* 085202
Anderson Janotti, Joel B. Varley, Minseok Choi, and Chris G. Van de Walle

Nitrogen split interstitial center $(N\text{-}N)_N$ in GaN: High frequency EPR and ENDOR study *(12 pages)* 085203
H. J. von Bardeleben, J. L. Cantin, H. Vrielinck, F. Callens, L. Binet, E. Rauls, and U. Gerstmann

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

Spin polarization of composite fermions and particle-hole symmetry breaking *(5 pages)* 085301
Yang Liu, S. Hasdemir, A. Wójs, J. K. Jain, L. N. Pfeiffer, K. W. West, K. W. Baldwin, and M. Shayegan

Soft superconducting gap in semiconductor-based Majorana nanowires *(11 pages)* 085302
Tudor D. Stanescu, Roman M. Lutchyn, and S. Das Sarma

Exciton spin noise in quantum wells *(8 pages)* 085303
D. S. Smirnov and M. M. Glazov

Topological nonsymmorphic crystalline insulators *(9 pages)* 085304
Chao-Xing Liu, Rui-Xing Zhang, and Brian K. VanLeeuwen

Charge- and spin-polarized currents in mesoscopic rings with Rashba spin-orbit interactions coupled to an electron reservoir *(10 pages)* 085305
M. Ellner, N. Bolívar, B. Berche, and E. Medina

Single photoelectron detection after selective excitation of electron heavy-hole and electron light-hole pairs in double quantum dots *(5 pages)* 085306
K. Morimoto, T. Fujita, G. Allison, S. Teraoka, M. Larsson, H. Kiyama, S. Haffouz, D. G. Austing, A. Ludwig, A. D. Wieck, A. Oiwa, and S. Tarucha

(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 90, NUMBER 8** **AUGUST 2014-15(II)**

Improvement of electron pump accuracy by a potential-shape-tunable quantum dot pump *(5 pages)* 085307
Minky Seo, Ye-Hwan Ahn, Youngheon Oh, Yunchul Chung, Sungguen Ryu, H.-S. Sim, In-Ho Lee, Myung-Ho Bae, and Nam Kim

Quantum theory of multimode polariton condensation *(16 pages)* 085308
David Racine and P. R. Eastham

Impact ionization and large room-temperature magnetoresistance in micron-sized high-mobility InAs channels *(7 pages)* 085309
A. V. Velichko, O. Makarovsky, N. Mori, L. Eaves, A. Krier, Q. Zhuang, and A. Patanè

Large and robust electrical spin injection into GaAs at zero magnetic field using an ultrathin CoFeB/MgO injector *(9 pages)* 085310
S. H. Liang, T. T. Zhang, P. Barate, J. Frougier, M. Vidal, P. Renucci, B. Xu, H. Jaffrès, J.-M. George, X. Devaux, M. Hehn, X. Marie, S. Mangin, H. X. Yang, A. Hallal, M. Chshiev, T. Amand, H. F. Liu, D. P. Liu, X. F. Han, Z. G. Wang, and Y. Lu

All-optical NMR in semiconductors provided by resonant cooling of nuclear spins interacting with electrons in the resonant spin amplification regime *(11 pages)* 085311
E. A. Zhukov, A. Greilich, D. R. Yakovlev, K. V. Kavokin, I. A. Yugova, O. A. Yugov, D. Suter, G. Karczewski, T. Wojtowicz, J. Kossut, V. V. Petrov, Yu. K. Dolgikh, A. Pawlis, and M. Bayer

Electronic structure of stacking faults in rhombohedral graphite *(8 pages)* 085312
M. Taut, K. Koepernik, and M. Richter

Wannier-Stark states of graphene in strong electric field *(11 pages)* 085313
Hamed Koochaki Kelardeh, Vadym Apalkov, and Mark I. Stockman

Weak localization in low-symmetry quantum wells *(9 pages)* 085314
F. V. Porubaev and L. E. Golub

Surface physics, nanoscale physics, low-dimensional systems

Interference-induced magnetoresistance in HgTe quantum wells *(31 pages)* 085401
I. V. Gornyi, V. Yu. Kachorovskii, and P. M. Ostrovsky

Strain-engineered direct-indirect band gap transition and its mechanism in two-dimensional phosphorene *(10 pages)* 085402
Xihong Peng, Qun Wei, and Andrew Copple

Exciton-plasmaritons in graphene/semiconductor structures *(9 pages)* 085403
Kirill A. Velizhanin and Tigran V. Shahbazyan

Nonexponential tunneling and control of microwave absorption lineshapes via Fano resonance for electrons on helium *(5 pages)* 085404
Solomon F. Duki and Harsh Mathur

Bulk-like transverse electron mobility in an array of heavily *n*-doped InP nanowires probed by terahertz spectroscopy *(7 pages)* 085405
C. S. Ponseca, Jr., H. Němec, J. Wallentin, N. Anttu, J. P. Beech, A. Iqbal, M. Borgström, M.-E. Pistol, L. Samuelson, and A. Yartsev

Electric field induced spin polarization in graphene nanodots *(5 pages)* 085406
Weidong Sheng, Kaikai Luo, and Aiping Zhou

(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 90, NUMBER 8** **AUGUST 2014-15(II)**

Graphene band structure and its *2D* Raman mode *(7 pages)* 085407
Rohit Narula and Stephanie Reich

Density of states of interacting quantum wires with impurities: A Dyson equation approach *(12 pages)* 085408
R. Zamoum, M. Guigou, C. Bena, and A. Crépieux

Manipulating the interaction between localized and delocalized surface plasmon-polaritons in graphene *(6 pages)* 085409
Renwen Yu, Rasoul Alaee, Falk Lederer, and Carsten Rockstuhl

Electric field control of the indirect magnetic coupling through a short graphene nanoribbon *(11 pages)* 085410
Karol Szałowski

Directional perfect absorption using deep subwavelength low-permittivity films *(10 pages)* 085411
Ting S. Luk, Salvatore Campione, Iltai Kim, Simin Feng, Young Chul Jun, Sheng Liu, Jeremy B. Wright, Igal Brener, Peter B. Catrysse, Shanhui Fan, and Michael B. Sinclair

Nonlinear electric transport in graphene with magnetic disorder *(9 pages)* 085412
Arnaud Demion and Alberto D. Verga

Dimensional evolution between one- and two-dimensional topological phases *(7 pages)* 085413
Huaiming Guo, Yang Lin, and Shun-Qing Shen

Graphene as a tunable THz reservoir for shaping the Mollow triplet of an artificial atom via plasmonic effects *(6 pages)* 085414
Ebrahim Forati, George W. Hanson, and Stephen Hughes

Schottky barriers at hexagonal boron nitride/metal interfaces: A first-principles study *(11 pages)* 085415
Menno Bokdam, Geert Brocks, M. I. Katsnelson, and Paul J. Kelly

Pump-probe scheme for electron-photon dynamics in hybrid conductor-cavity systems *(7 pages)* 085416
T. L. van den Berg, C. Bergenfeldt, and P. Samuelsson

Weak measurement of cotunneling time *(11 pages)* 085417
Alessandro Romito and Yuval Gefen

Energy and power fluctuations in ac-driven coherent conductors *(12 pages)* 085418
Francesca Battista, Federica Haupt, and Janine Splettstoesser

Time-dependent density-matrix functional theory for trion excitations: Application to monolayer MoS_2 and other transition-metal dichalcogenides *(8 pages)* 085419
Alfredo Ramirez-Torres, Volodymyr Turkowski, and Talat S. Rahman

Dynamical polarization in ABC-stacked multilayer graphene in a magnetic field *(15 pages)* 085420
O. O. Sobol, E. V. Gorbar, and V. P. Gusynin

Mechanism of high-resolution STM/AFM imaging with functionalized tips *(9 pages)* 085421
Prokop Hapala, Georgy Kichin, Christian Wagner, F. Stefan Tautz, Ruslan Temirov, and Pavel Jelínek

Charge-doping-induced phase transitions in hydrogenated and fluorinated graphene *(8 pages)* 085422
Tim O. Wehling, Bernhard Grundkötter-Stock, Bálint Aradi, Thomas Frauenheim, and Thomas Niehaus

Wurtzite structure in ultrathin ZnO films on Fe(110): Surface x-ray diffraction and *ab initio* calculations *(5 pages)* 085423
H. L. Meyerheim, A. Ernst, K. Mohseni, C. Tusche, W. A. Adeagbo, I. V. Maznichenko, W. Hergert, G. R. Castro, J. Rubio-Zuazo, A. Morgante, N. Jedrecy, I. Mertig, and J. Kirschner

(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 90, NUMBER 8** **AUGUST 2014-15(II)**

Ab initio studies of thermodynamic and electronic properties of phosphorene nanoribbons *(7 pages)* 085424
Ashwin Ramasubramaniam and Andre R. Muniz

Adatoms and Anderson localization in graphene *(7 pages)* 085425
Jose H. García, Bruno Uchoa, Lucian Covaci, and Tatiana G. Rappoport

Silicite: The layered allotrope of silicon *(5 pages)* 085426
Seymur Cahangirov, V. Ongun Özçelik, Angel Rubio, and Salim Ciraci

Quantum oscillations of magnetization in tight-binding electrons on a honeycomb lattice *(5 pages)* 085427
Keita Kishigi and Yasumasa Hasegawa

Theory of nanoscale pattern formation produced by oblique-incidence ion bombardment of binary compounds *(15 pages)* 085428
Francis C. Motta, Patrick D. Shipman, and R. Mark Bradley

Graphene spintronics: Spin injection and proximity effects from first principles *(15 pages)* 085429
P. Lazić, G. M. Sipahi, R. K. Kawakami, and Igor Žutić

Direct observation of bosonic quantum interference of surface plasmon polaritons using photon-number-resolving detectors *(5 pages)* 085430
Go Fujii, Daiji Fukuda, and Shuichiro Inoue

Low-energy effective Hamiltonian for giant-gap quantum spin Hall insulators in honeycomb X-hydride/halide (X=N–Bi) monolayers *(10 pages)* 085431
Cheng-Cheng Liu, Shan Guan, Zhigang Song, Shengyuan A. Yang, Jinbo Yang, and Yugui Yao

Spin imbalance in hybrid superconducting structures with spin-active interfaces *(7 pages)* 085432
Oleksii Shevtsov and Tomas Löfwander

Enhanced thermoelectric performance of phosphorene by strain-induced band convergence *(8 pages)* 085433
H. Y. Lv, W. J. Lu, D. F. Shao, and Y. P. Sun

Negative correlation between charge carrier density and mobility fluctuations in graphene *(9 pages)* 085434
Jianming Lu, Jie Pan, Sheng-Shiuan Yeh, Haijing Zhang, Yuan Zheng, Qihong Chen, Zhe Wang, Bing Zhang, Juhn-Jong Lin, and Ping Sheng

Finite-size supercell correction scheme for charged defects in one-dimensional systems *(7 pages)* 085435
Sunghyun Kim, K. J. Chang, and Ji-Sang Park

Interplay between coherent and incoherent transport in quantum Hall bilayers *(4 pages)* 085436
Ding Zhang, Xuting Huang, Werner Dietsche, Maik Hauser, and Klaus von Klitzing

Electron states in a double quantum dot with broken axial symmetry *(8 pages)* 085437
Krzysztof Gawarecki, Paweł Machnikowski, and Tilmann Kuhn

Transport signatures of superconducting hybrids with mixed singlet and chiral triplet states *(11 pages)* 085438
Pablo Burset, Felix Keidel, Yukio Tanaka, Naoto Nagaosa, and Björn Trauzettel