PHYSICAL REVIEW B™

For editorial and subscription correspondence, please see inside front cover
(ISSN: 2469-9950)

PERIODICALS
Postmaster send address changes to:

APS Subscription Services
P.O. Box 41
Annapolis Junction, MD 20701

THIRD SERIES, VOLUME 94, NUMBER 24 *CONTENTS* **DECEMBER 2016-15(II)**

RAPID COMMUNICATIONS

Electronic structure and strongly correlated systems

Spin-orbit driven Peierls transition and possible exotic superconductivity in CsW_2O_6 *(5 pages)* . . . . . 241101(R)
Sergey V. Streltsov, Igor I. Mazin, Rolf Heid, and Klaus-Peter Bohnen

Density wave instabilities and surface state evolution in interacting Weyl semimetals *(5 pages)* . . . . . 241102(R)
Manuel Laubach, Christian Platt, Ronny Thomale, Titus Neupert, and Stephan Rachel

Nonequilibrium Anderson model made simple with density functional theory *(5 pages)* . . . . . 241103(R)
S. Kurth and G. Stefanucci

Absence of full many-body localization in the disordered Hubbard chain *(5 pages)* . . . . . 241104(R)
P. Prelovšek, O. S. Barišić, and M. Žnidarič

Linear magnetochiral effect in Weyl semimetals *(5 pages)* . . . . . 241105(R)
Alberto Cortijo

Mass inversion in graphene by proximity to dichalcogenide monolayer *(5 pages)* . . . . . 241106(R)
Abdulrhman M. Alsharari, Mahmoud M. Asmar, and Sergio E. Ulloa

Higher-order harmonic generation caused by elliptically polarized electric fields in solid-state materials *(6 pages)* . . . . . 241107(R)
T. Tamaya, A. Ishikawa, T. Ogawa, and K. Tanaka

Moiré assisted fractional quantum Hall state spectroscopy *(5 pages)* . . . . . 241108(R)
Fengcheng Wu and A. H. MacDonald

Hidden Rashba spin-split states in a quasi-one-dimensional Au atomic chain on ferromagnetic Ni(110) *(5 pages)* . . . . . 241109(R)
Takuya Warashina, Munisa Nurmamat, Koji Miyamoto, Tatsuya Shishidou, Masaki Taniguchi, Akio Kimura, and Taichi Okuda

Hubbard band versus oxygen vacancy states in the correlated electron metal $SrVO_3$ *(7 pages)* . . . . . 241110(R)
S. Backes, T. C. Rödel, F. Fortuna, E. Frantzeskakis, P. Le Fèvre, F. Bertran, M. Kobayashi, R. Yukawa, T. Mitsuhashi, M. Kitamura, K. Horiba, H. Kumigashira, R. Saint-Martin, A. Fouchet, B. Berini, Y. Dumont, A. J. Kim, F. Lechermann, H. O. Jeschke, M. J. Rozenberg, R. Valentí, and A. F. Santander-Syro

Quantum critical point of Dirac fermion mass generation without spontaneous symmetry breaking *(5 pages)* . . . . . 241111(R)
Yuan-Yao He, Han-Qing Wu, Yi-Zhuang You, Cenke Xu, Zi Yang Meng, and Zhong-Yi Lu

Copyright 2016 by American Physical Society

(Continued)

2469-9950(20161215)94:24;1-O

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 94, NUMBER 24** **DECEMBER 2016-15(II)**

First-principles calculation of the elastic dipole tensor of a point defect: Application to hydrogen in α-zirconium *(5 pages)* . . . . . 241112(R)
R. Nazarov, J. S. Majevadia, M. Patel, M. R. Wenman, D. S. Balint, J. Neugebauer, and A. P. Sutton

Lifshitz transition driven by spin fluctuations and spin-orbit renormalization in $NaOsO_3$ *(6 pages)* . . . . . 241113(R)
Bongjae Kim, Peitao Liu, Zeynep Ergönenc, Alessandro Toschi, Sergii Khmelevskyi, and Cesare Franchini

Hidden spin polarization in nonmagnetic centrosymmetric $BaNiS_2$ crystal: Signatures from first principles *(5 pages)* . . . . . 241114(R)
Jagoda Sławińska, Awadhesh Narayan, and Silvia Picozzi

Critical metal-insulator transition due to nuclear quantum effects in Mn-doped GaAs *(5 pages)* . . . . . 241115(R)
Soungmin Bae and Hannes Raebiger

Chemical strain-dependent two-dimensional transport at $R AlO_3/SrTiO_3$ interfaces (R = La, Nd, Sm, and Gd) *(7 pages)* . . . . . 241116(R)
Chen Li, Xuan Shen, Yurong Yang, Yuhang Bai, Zhoushen Yuan, Dong Su, Aidong Li, Shantao Zhang, Peng Wang, Laurent Bellaiche, and Di Wu

Entanglement entropy scaling in solid-state spin arrays via capacitance measurements *(5 pages)* . . . . . 241117(R)
Leonardo Banchi, Abolfazl Bayat, and Sougato Bose

Giant Nernst effect in the incommensurate charge density wave state of $P_4W_{12}O_{44}$ *(5 pages)* . . . . . 241118(R)
Kamil K. Kolincio, Ramzy Daou, Olivier Pérez, Laurent Guérin, Pierre Fertey, and Alain Pautrat

Observation of Fermi arc and its connection with bulk states in the candidate type-II Weyl semimetal WTe_2 *(8 pages)* . . . . . 241119(R)
Chenlu Wang, Yan Zhang, Jianwei Huang, Simin Nie, Guodong Liu, Aiji Liang, Yuxiao Zhang, Bing Shen, Jing Liu, Cheng Hu, Ying Ding, Defa Liu, Yong Hu, Shaolong He, Lin Zhao, Li Yu, Jin Hu, Jiang Wei, Zhiqiang Mao, Youguo Shi, Xiaowen Jia, Fengfeng Zhang, Shenjin Zhang, Feng Yang, Zhimin Wang, Qinjun Peng, Hongming Weng, Xi Dai, Zhong Fang, Zuyan Xu, Chuangtian Chen, and X. J. Zhou

Semiconductors I: bulk

Near-infrared-assisted charge control and spin readout of the nitrogen-vacancy center in diamond *(5 pages)* . . . . . 241201(R)
David A. Hopper, Richard R. Grote, Annemarie L. Exarhos, and Lee C. Bassett

Extended pump-probe Faraday rotation spectroscopy of the submicrosecond electron spin dynamics in n-type GaAs *(5 pages)* . . . . . 241202(R)
V. V. Belykh, E. Evers, D. R. Yakovlev, F. Fobbe, A. Greilich, and M. Bayer

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

Coherent manipulation of single electron spins with Landau-Zener sweeps *(5 pages)* . . . . . 241301(R)
Marko J. Rančić and Dimitrije Stepanenko

Nuclear magnetic resonance and nuclear spin relaxation in AlAs quantum well probed by ESR *(5 pages)* . . . . . 241302(R)
A. V. Shchepetilnikov, D. D. Frolov, Yu. A. Nefyodov, I. V. Kukushkin, D. S. Smirnov, L. Tiemann, C. Reichl, W. Dietsche, and W. Wegscheider

Electric field tuning of band offsets in transition metal dichalcogenides *(5 pages)* . . . . . 241303(R)
Dennis Huang and Efthimios Kaxiras

(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 94, NUMBER 24** **DECEMBER 2016-15(II)**

Structure of TiO_2 (011) revealed by photoelectron diffraction *(6 pages)* . . . . . 241304(R)
C. Dupont, S. Bourgeois, P. Le Fèvre, A. Verdini, L. Floreano, and B. Domenichini

Surface physics, nanoscale physics, low-dimensional systems

Towards Boolean operations with thermal photons *(5 pages)* . . . . . 241401(R)
Philippe Ben-Abdallah and Svend-Age Biehs

Experimental signatures of the inverted phase in InAs/GaSb coupled quantum wells *(5 pages)* . . . . . 241402(R)
Matija Karalic, Susanne Mueller, Christopher Mittag, Kiryl Pakrouski, QuanSheng Wu, Alexey A. Soluyanov, Matthias Troyer, Thomas Tschirky, Werner Wegscheider, Klaus Ensslin, and Thomas Ihn

Quantum spin Hall phase in stanene-derived overlayers on passivated SiC substrates *(5 pages)* . . . . . 241403(R)
Filipe Matusalem, Friedhelm Bechstedt, Marcelo Marques, and Lara K. Teles

Nonequilibrium surface growth in a hybrid inorganic-organic system *(5 pages)* . . . . . 241404(R)
Nicola Kleppmann and Sabine H. L. Klapp

Strain-induced chiral magnetic effect in Weyl semimetals *(5 pages)* . . . . . 241405(R)
Alberto Cortijo, Dmitri Kharzeev, Karl Landsteiner, and Maria A. H. Vozmediano

Chiral anomaly in real space from stable fractional charges at the edge of a quantum spin Hall insulator *(5 pages)* 241406(R)
C. Fleckenstein, N. Traverso Ziani, and B. Trauzettel

Distribution of current fluctuations in a bistable conductor *(5 pages)* . . . . . 241407(R)
S. Singh, J. T. Peltonen, I. M. Khaymovich, J. V. Koski, C. Flindt, and J. P. Pekola

Magnetoplasmon Fano resonance in Bose-Fermi mixtures *(5 pages)* . . . . . 241408(R)
M. V. Boev, V. M. Kovalev, and I. G. Savenko

Designing an artificial Lieb lattice on a metal surface *(6 pages)* . . . . . 241409(R)
Wen-Xuan Qiu, Shuai Li, Jin-Hua Gao, Yi Zhou, and Fu-Chun Zhang

ARTICLES

Electronic structure and strongly correlated systems

Electrodynamic response of the type-II Weyl semimetal $YbMnBi_2$ *(5 pages)* 245101
M. Chinotti, A. Pal, W. J. Ren, C. Petrovic, and L. Degiorgi

Ising and Gross-Neveu model in next-to-leading order *(11 pages)* 245102
Benjamin Knorr

Local quench, Majorana zero modes, and disturbance propagation in the Ising chain *(8 pages)* 245103
G. Francica, T. J. G. Apollaro, N. Lo Gullo, and F. Plastina

Lattice effects on Laughlin wave functions and parent Hamiltonians *(16 pages)* 245104
Ivan Glasser, J. Ignacio Cirac, Germán Sierra, and Anne E. B. Nielsen

Thermodynamic meaning of local temperature of nonequilibrium open quantum systems *(8 pages)* 245105
LvZhou Ye, Xiao Zheng, YiJing Yan, and Massimiliano Di Ventra

Emergence of an excitonic collective mode in the dilute electron gas *(14 pages)* 245106
Yasutami Takada

(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 94, NUMBER 24** **DECEMBER 2016-15(II)**

Composite Fermi liquids in the lowest Landau level *(14 pages)* 245107
Chong Wang and T. Senthil

Exact special twist method for quantum Monte Carlo simulations *(16 pages)* 245108
Mario Dagrada, Seher Karakuzu, Verónica Laura Vildosola, Michele Casula, and Sandro Sorella

Tuning the metal-insulator transition in d^1 and d^2 perovskites by epitaxial strain: A first-principles-based study *(11 pages)* 245109
Gabriele Sclauzero, Krzysztof Dymkowski, and Claude Ederer

Bosonic analog of a topological Dirac semimetal: Effective theory, neighboring phases, and wire construction *(35 pages)* 245110
Matthew F. Lapa, Gil Young Cho, and Taylor L. Hughes

Dynamical Coulomb blockade theory of plasmon-mediated light emission from a tunnel junction *(10 pages)* 245111
F. Xu, C. Holmqvist, G. Rastelli, and W. Belzig

Quantum Monte Carlo simulation of topological phase transitions *(6 pages)* 245112
Arata Yamamoto and Taro Kimura

Manipulation of electronic structure via alteration of local orbital environment in $[(SrIrO_3)_m,(SrTiO_3)](m = 1, 2, \text{and} \infty)$ superlattices *(7 pages)* 245113
So Yeun Kim, Choong H. Kim, L. J. Sandilands, C. H. Sohn, J. Matsuno, H. Takagi, K. W. Kim, Y. S. Lee, S. J. Moon, and T. W. Noh

Nonequilibrium dynamical cluster approximation study of the Falicov-Kimball model *(12 pages)* 245114
Andreas J. Herrmann, Naoto Tsuji, Martin Eckstein, and Philipp Werner

Calculation of optical and K pre-edge absorption spectra for ferrous iron of distorted sites in oxide crystals *(15 pages)* 245115
Vincent Vercamer, Myrtille O. J. Y. Hunault, Gérald Lelong, Maurits W. Haverkort, Georges Calas, Yusuke Arai, Hiroyuki Hijiya, Lorenzo Paulatto, Christian Brouder, Marie-Anne Arrio, and Amélie Juhin

Functional renormalization group in Floquet space *(22 pages)* 245116
Anna Katharina Eissing, Volker Meden, and Dante Marvin Kennes

Thermalization and light cones in a model with weak integrability breaking *(30 pages)* 245117
Bruno Bertini, Fabian H. L. Essler, Stefan Groha, and Neil J. Robinson

Stopping dynamics of ions passing through correlated honeycomb clusters *(13 pages)* 245118
Karsten Balzer, Niclas Schlünzen, and Michael Bonitz

A class of invisible inhomogeneous media and the control of electromagnetic waves *(6 pages)* 245119
B. Vial, Y. Liu (刘泱杰), S. A. R. Horsley, T. G. Philbin, and Y. Hao

Symmetry enrichment in three-dimensional topological phases *(21 pages)* 245120
Shang-Qiang Ning, Zheng-Xin Liu, and Peng Ye

Semiclassical theory of nonlinear magneto-optical responses with applications to topological Dirac/Weyl semimetals *(15 pages)* 245121
Takahiro Morimoto, Shudan Zhong, Joseph Orenstein, and Joel E. Moore

Linear ramps of the mass in the $O(N)$ model: Dynamical transition and quantum noise of excitations *(12 pages)* 245122
Anna Maraga, Pietro Smacchia, and Alessandro Silva

(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 94, NUMBER 24** **DECEMBER 2016-15(II)**

Reduced density matrix and order parameters of a topological insulator *(13 pages)* 245123
Wing Chi Yu, Yan Chao Li, P. D. Sacramento, and Hai-Qing Lin

First-principles reinvestigation of bulk WO_3 *(11 pages)* 245124
Hanen Hamdi, Ekhard K. H. Salje, Philippe Ghosez, and Eric Bousquet

Thermoelectric response of a correlated impurity in the nonequilibrium Kondo regime *(10 pages)* 245125
Antonius Dorda, Martin Ganahl, Sabine Andergassen, Wolfgang von der Linden, and Enrico Arrigoni

First-principles calculation of stress tensor in the LSDA+U formalism *(7 pages)* 245126
Se Young Park and Hyoung Joon Choi

Revealing frustrated local moment model for pressurized hyperhoneycomb iridate: Paving the way toward a quantum spin liquid *(7 pages)* 245127
Heung-Sik Kim, Yong Baek Kim, and Hae-Young Kee

Cosine edge modes in a periodically driven quantum system *(5 pages)* 245128
Indubala I. Satija and Erhai Zhao

Pure density functional for strong correlation and the thermodynamic limit from machine learning *(9 pages)* 245129
Li Li (李力), Thomas E. Baker, Steven R. White, and Kieron Burke

Pressure-induced magnetic transition exceeding 30 K in the Yb-based heavy-fermion β-$YbAlB_4$ *(6 pages)* 245130
Takahiro Tomita, Kentaro Kuga, Yoshiya Uwatoko, and Satoru Nakatsuji

Eigenstate Gibbs ensemble in integrable quantum systems *(13 pages)* 245131
Sourav Nandy, Arnab Sen, Arnab Das, and Abhishek Dhar

Incommensurate short-range multipolar order parameter of phase II in $Ce_3Pd_{20}Si_6$ *(6 pages)* 245132
P. Y. Portnichenko, S. Paschen, A. Prokofiev, M. Vojta, A. S. Cameron, J.-M. Mignot, A. Ivanov, and D. S. Inosov

Mott transition and magnetism on the anisotropic triangular lattice *(6 pages)* 245133
S. Acheche, A. Reymbaut, M. Charlebois, D. Sénéchal, and A.-M. S. Tremblay

Spin-freezing perspective on cuprates *(9 pages)* 245134
Philipp Werner, Shintaro Hoshino, and Hiroshi Shinaoka

Time-reversal-breaking topological phases in antiferromagnetic Sr_2FeOsO_6 films *(9 pages)* 245135
Xiao-Yu Dong, Sudipta Kanungo, Binghai Yan, and Chao-Xing Liu

Coherent anti-Stokes Raman scattering under electric field stimulation *(6 pages)* 245136
Erwan Capitaine, Nawel Ould Moussa, Christophe Louot, Claire Lefort, Dominique Pagnoux, Jean-René Duclère, Junya F. Kaneyasu, Hideaki Kano, Ludovic Duponchel, Vincent Couderc, and Philippe Leproux

Continuous-time quantum Monte Carlo for fermion-boson lattice models: Improved bosonic estimators and application to the Holstein model *(11 pages)* 245138
Manuel Weber, Fakher F. Assaad, and Martin Hohenadler

Effects of interface oxygen vacancies on electronic bands of $FeSe/SrTiO_3(001)$ *(10 pages)* 245139
M. X. Chen, Zhuozhi Ge, Y. Y. Li, D. F. Agterberg, L. Li, and M. Weinert

(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 94, NUMBER 24** **DECEMBER 2016-15(II)**

Comparison between methods of analytical continuation for bosonic functions *(14 pages)* 245140
J. Schött, E. G. C. P. van Loon, I. L. M. Locht, M. I. Katsnelson, and I. Di Marco

Anomalous hyperfine coupling and nuclear magnetic relaxation in Weyl semimetals *(6 pages)* 245141
Zoltán Okvátovity, Ferenc Simon, and Balázs Dóra

Resonance effects in correlated multilayer heterostructures *(7 pages)* 245142
Irakli Titvinidze, Antonius Dorda, Wolfgang von der Linden, and Enrico Arrigoni

Connecting the dots: Time-reversal symmetric Weyl semimetals with tunable Fermi arcs *(8 pages)* 245143
Vatsal Dwivedi and Srinidhi T. Ramamurthy

Gate-independent energy gap in noncovalently intercalated bilayer graphene on SiC(0001) *(6 pages)* 245144
Yuanchang Li

Incommensurate spiral magnetic order on anisotropic triangular lattice: Dynamical mean-field study in a spin-rotating frame *(10 pages)* 245145
Shimpei Goto, Susumu Kurihara, and Daisuke Yamamoto

Effective magnetic correlations in hole-doped graphene nanoflakes *(12 pages)* 245146
A. Valli, A. Amaricci, A. Toschi, T. Saha-Dasgupta, K. Held, and M. Capone

Fractional quantum Hall bilayers at half filling: Tunneling-driven non-Abelian phase *(16 pages)* 245147
W. Zhu, Zhao Liu, F. D. M. Haldane, and D. N. Sheng

Tunable optical bound states in the continuum beyond in-plane symmetry protection *(10 pages)* 245148
Liangfu Ni, Zhixin Wang, Chao Peng, and Zhengbin Li

Effective theory and emergent SU(2) symmetry in the flat bands of attractive Hubbard models *(17 pages)* 245149
Murad Tovmasyan, Sebastiano Peotta, Päivi Törmä, and Sebastian D. Huber

Anomalous screening in two-dimensional materials with an extremum ring in the dispersion law *(5 pages)* 245150
Eugene B. Kolomeisky and Joseph P. Straley

Semiconductors I: bulk

Intrinsic electronic properties of high-quality wurtzite InN *(5 pages)* 245201
H. Eisele, J. Schuppang, M. Schnedler, M. Duchamp, C. Nenstiel, V. Portz, T. Kure, M. Bügler, A. Lenz, M. Dähne, A. Hoffmann, S. Gwo, S. Choi, J. S. Speck, R. E. Dunin-Borkowski, and Ph. Ebert

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

Strain-induced *g*-factor tuning in single InGaAs/GaAs quantum dots *(6 pages)* 245301
H. M. G. A. Tholen, J. S. Wildmann, A. Rastelli, R. Trotta, C. E. Pryor, E. Zallo, O. G. Schmidt, P. M. Koenraad, and A. Yu. Silov

Temperature-independent spin relaxation in heavily doped *n*-type germanium *(5 pages)* 245302
Y. Fujita, M. Yamada, S. Yamada, T. Kanashima, K. Sawano, and K. Hamaya

First-principles approach to excitons in time-resolved and angle-resolved photoemission spectra *(15 pages)* 245303
E. Perfetto, D. Sangalli, A. Marini, and G. Stefanucci

Photoluminescence from ultrathin Ge-rich multiple quantum wells observed up to room temperature: Experiments and modeling *(10 pages)* 245304
T. Wendav, I. A. Fischer, M. Virgilio, G. Capellini, F. Oliveira, M. F. Cerqueira, A. Benedetti, S. Chiussi, P. Zaumseil, B. Schwartz, K. Busch, and J. Schulze

(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 94, NUMBER 24** **DECEMBER 2016-15(II)**

Defect-induced Burstein-Moss shift in reduced V_2O_5 nanostructures *(12 pages)* 245305
Qi Wang, Mathew Brier, Siddharth Joshi, Ajinkya Puntambekar, and Vidhya Chakrapani

Limits to mobility in InAs quantum wells with nearly lattice-matched barriers *(8 pages)* 245306
B. Shojaei, A. C. C. Drachmann, M. Pendharkar, D. J. Pennachio, M. P. Echlin, P. G. Callahan, S. Kraemer, T. M. Pollock, C. M. Marcus, and C. J. Palmstrøm

Spin-based single-photon transistor, dynamic random access memory, diodes, and routers in semiconductors *(10 pages)* 245307
C. Y. Hu

Quantum model for mode locking in pulsed semiconductor quantum dots *(19 pages)* 245308
W. Beugeling, Götz S. Uhrig, and Frithjof B. Anders

Finite field methods for the supercell modeling of charged insulator/electrolyte interfaces *(18 pages)* 245309
Chao Zhang and Michiel Sprik

Anomalous transition of major charge carriers from holes to electrons observed in single-crystal films of tungsten *(5 pages)* 245310
Y. C. Jiang, G. Z. Liu, J. Gao, and J. F. Wang

Probing indirect exciton complexes in a quantum dot molecule via capacitance-voltage spectroscopy *(13 pages)* 245311
Shovon Pal, Clara Junggebauer, Sascha R. Valentin, Pia Eickelmann, Sven Scholz, Arne Ludwig, and Andreas D. Wieck

Angular phase shift in polarization-angle dependence of microwave-induced magnetoresistance oscillations *(7 pages)* 245312
Han-Chun Liu, Rasanga L. Samaraweera, R. G. Mani, C. Reichl, and W. Wegscheider

Surface physics, nanoscale physics, low-dimensional systems

Theory of condensation of indirect excitons in a trap *(10 pages)* 245401
S. V. Lobanov, N. A. Gippius, and L. V. Butov

Pressure- and temperature-driven phase transitions in HgTe quantum wells *(8 pages)* 245402
S. S. Krishtopenko, I. Yahniuk, D. B. But, V. I. Gavrilenko, W. Knap, and F. Teppe

Electron-phonon scattering and in-plane electric conductivity in twisted bilayer graphene *(16 pages)* 245403
N. Ray, M. Fleischmann, D. Weckbecker, S. Sharma, O. Pankratov, and S. Shallcross

Dephasing in strongly anisotropic black phosphorus *(6 pages)* 245404
N. Hemsworth, V. Tayari, F. Telesio, S. Xiang, S. Roddaro, M. Caporali, A. Ienco, M. Serrano-Ruiz, M. Peruzzini, G. Gervais, T. Szkopek, and S. Heun

Spin-valley caloritronics in silicene near room temperature *(7 pages)* 245405
Xuechao Zhai, Wenwen Gao, Xinlong Cai, Ding Fan, Zhihong Yang, and Lan Meng

Classical Stückelberg interferometry of a nanomechanical two-mode system *(10 pages)* 245406
Maximilian J. Seitner, Hugo Ribeiro, Johannes Kölbl, Thomas Faust, Jörg P. Kotthaus, and Eva M. Weig

Mechanical properties of monolayer GaS and GaSe crystals *(7 pages)* 245407
M. Yagmurcukardes, R. T. Senger, F. M. Peeters, and H. Sahin

(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 94, NUMBER 24** **DECEMBER 2016-15(II)**

Zero-field splitting of the Kondo resonance and quantum criticality in triple quantum dots *(8 pages)* 245408
Arturo Wong and Francisco Mireles

Evolution of electronic structure of few-layer phosphorene from angle-resolved photoemission spectroscopy of black phosphorous *(12 pages)* 245410
N. Ehlen, B. V. Senkovskiy, A. V. Fedorov, A. Perucchi, P. Di Pietro, A. Sanna, G. Profeta, L. Petaccia, and A. Grüneis

Absolute deformation potentials of two-dimensional materials *(8 pages)* 245411
Julia Wiktor and Alfredo Pasquarello

Phonovoltaic. III. Electron-phonon coupling and figure of merit of graphene:BN *(14 pages)* 245412
Corey Melnick and Massoud Kaviany

Valley trion dynamics in monolayer $MoSe_2$ *(7 pages)* 245413
Feng Gao, Yongji Gong, Michael Titze, Raybel Almeida, Pulickel M. Ajayan, and Hebin Li

Dynamic response functions and helical gaps in interacting Rashba nanowires with and without magnetic fields *(15 pages)* 245414
Christopher J. Pedder, Tobias Meng, Rakesh P. Tiwari, and Thomas L. Schmidt

Enhancement of giant magnetoresistance and oscillation by wave-vector filtering in Fe/Ag/Fe/InAs/Ag *(9 pages)* 245415
Ziran Wang and R. H. Victora

Collective polaritonic modes in an array of two-level quantum emitters coupled to an optical nanofiber *(11 pages)* 245416
D. F. Kornovan, A. S. Sheremet, and M. I. Petrov

Stable single-layer structure of group-V elements *(9 pages)* 245417
F. Ersan, E. Aktürk, and S. Ciraci

Electronic structures of Cu_2O, Cu_4O_3, and CuO: A joint experimental and theoretical study *(10 pages)* 245418
Y. Wang, S. Lany, J. Ghanbaja, Y. Fagot-Revurat, Y. P. Chen, F. Soldera, D. Horwat, F. Mücklich, and J. F. Pierson

Thermoelectric efficiency of nanoscale devices in the linear regime *(14 pages)* 245419
G. Bevilacqua, G. Grosso, G. Menichetti, and G. Pastori Parravicini

Phonon transport properties of two-dimensional group-IV materials from *ab initio* calculations *(12 pages)* 245420
Bo Peng, Hao Zhang, Hezhu Shao, Yuanfeng Xu, Gang Ni, Rongjun Zhang, and Heyuan Zhu

Graphene/SiC(0001) interface structures induced by Si intercalation and their influence on electronic properties of graphene *(10 pages)* 245421
Anton Visikovskiy, Shin-ichi Kimoto, Takashi Kajiwara, Masamichi Yoshimura, Takushi Iimori, Fumio Komori, and Satoru Tanaka

Interpenetrating graphene networks: Three-dimensional node-line semimetals with massive negative linear compressibilities *(9 pages)* 245422
Yangzheng Lin, Zhisheng Zhao, Timothy A. Strobel, and R. E. Cohen

Tuning high-harmonic generation by controlled deposition of ultrathin ionic layers on metal surfaces *(10 pages)* 245423
Néstor F. Aguirre and Fernando Martín

(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 94, NUMBER 24** **DECEMBER 2016-15(II)**

Role of exchange interaction in nitrogen vacancy center based magnetometry *(9 pages)* 245424
Cong Son Ho, Seng Ghee Tan, Mansoor B. A. Jalil, Zilong Chen, and Leonid A. Krivitsky

Surface-hydrogen-induced metallization and rumpling in thin $BaTiO_3$ films *(10 pages)* 245425
K. D. Fredrickson and A. A. Demkov

Nonthermal model for ultrafast laser-induced plasma generation around a plasmonic nanorod *(9 pages)* 245426
Timothée Labouret and Bruno Palpant

Band engineering and relative stabilities of hexagonal boron nitride bilayers under biaxial strain *(8 pages)* 245427
Yoshitaka Fujimoto and Susumu Saito

Purely bianisotropic scatterers *(7 pages)* 245428
M. Albooyeh, V. S. Asadchy, R. Alaee, S. M. Hashemi, M. Yazdi, M. S. Mirmoosa, C. Rockstuhl, C. R. Simovski, and S. A. Tretyakov

Symmetries and hybridization in the indirect interaction between magnetic moments in MoS_2 nanoflakes *(11 pages)* 245429
Oscar Ávalos-Ovando, Diego Mastrogiuseppe, and Sergio E. Ulloa

Repulsion of polarized particles near a magneto-optical metamaterial *(5 pages)* 245430
J. A. Girón-Sedas, J. R. Mejía-Salazar, J. C. Granada, and Osvaldo N. Oliveira, Jr.

Electronic and optical properties of two-dimensional InSe from a DFT-parametrized tight-binding model *(20 pages)* 245431
S. J. Magorrian, V. Zólyomi, and V. I. Fal'ko

Coupled spatial multimode solitons in microcavity wires *(13 pages)* 245432
G. Slavcheva, A. V. Gorbach, and A. Pimenov

Subsurface hydrogen bonds at the polar Zn-terminated ZnO(0001) surface *(7 pages)* 245433
Matti Hellström, Igor Beinik, Peter Broqvist, Jeppe V. Lauritsen, and Kersti Hermansson

Excitonic Stark effect in MoS_2 monolayers *(8 pages)* 245434
Benedikt Scharf, Tobias Frank, Martin Gmitra, Jaroslav Fabian, Igor Žutić, and Vasili Perebeinos

Hartree-Fock study of the $\nu = 0$ quantum Hall state of monolayer graphene with short-range interactions *(12 pages)* 245435
Braden Feshami and H. A. Fertig

Zero-bias anomaly in homogeneously disordered MoGe nanowires undergoing a superconductor-insulator transition *(8 pages)* 245436
Hyunjeong Kim and A. Rogachev

Predicting the thermal conductivity in a graphene nanoflake from its response to a thermal impulse *(6 pages)* 245437
Giuliana Barbarino, Giorgia Fugallo, Claudio Melis, Francesco Mauri, and Luciano Colombo

Phonon contribution to electrical resistance of acceptor-doped single-wall carbon nanotubes assembled into transparent films *(9 pages)* 245438
V. I. Tsebro, A. A. Tonkikh, D. V. Rybkovskiy, E. A. Obraztsova, E. I. Kauppinen, and E. D. Obraztsova

Magnetic-field-induced abrupt spin-state transition in a quantum dot containing magnetic ions *(8 pages)* 245439
M. Koperski, T. Smoleński, M. Goryca, P. Wojnar, M. Potemski, and P. Kossacki

(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 94, NUMBER 24** **DECEMBER 2016-15(II)**

Charge metastability and hysteresis in the quantum Hall regime *(7 pages)* 245440
J. Pollanen, J. P. Eisenstein, L. N. Pfeiffer, and K. W. West

An array of layers in silicon sulfides: Chainlike and monolayer *(7 pages)* 245441
T. Alonso-Lanza, A. Ayuela, and F. Aguilera-Granja

Mesoscopic fluctuations of the single-particle Green's function at Anderson transitions with Coulomb interaction *(13 pages)* 245442
E. V. Repin and I. S. Burmistrov