PHYSICAL REVIEW B **THIRD SERIES, VOLUME 109, NUMBER 19** **MAY 2024-15(I)**

ERRATA

Erratum: Charge order induced Dirac pockets in the nonsymmorphic crystal $TaTe_4$
[Phys. Rev. B **108**, 155121 (2023)] *(2 pages)* . . . . . 199901(E)

Yichen Zhang, Ruixiang Zhou, Hanlin Wu, Ji Seop Oh, Sheng Li, Jianwei Huang, Jonathan D. Denlinger, Makoto Hashimoto, Donghui Lu, Sung-Kwan Mo, Kevin F. Kelly, Gregory T. McCandless, Julia Y. Chan, Robert J. Birgeneau, Bing Lv, Gang Li, and Ming Yi

Erratum: Twistronics of Janus transition metal dichalcogenide bilayers
[Phys. Rev. B **106**, 235159 (2022)] *(1 page)* . . . . . 199902(E)

Mattia Angeli, Gabriel R. Schleder, and Efthimios Kaxiras

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 109, NUMBER 19** **MAY 2024-15(I)**

Quantum oscillations in acoustic phonons of nodal-line semimetals *(14 pages)* 195421
Hao-Jie Lin, Tianyu Liu, and Hai-Zhou Lu

Competing multiferroic phases in monolayer and few-layer NiI_2 *(17 pages)* 195422
Nanshu Liu, Cong Wang, Changlin Yan, Changsong Xu, Jun Hu, Yanning Zhang, and Wei Ji

Generation of charge current by the inverse Stern-Gerlach effect in semiconductors *(10 pages)* 195423
N. J. Harmon, E. Z. Kurth, D. Coleman, and L. Flanigan

Vector detection of ac magnetic fields by nitrogen vacancy centers of single orientation in diamond *(8 pages)* 195424
Pooja Lamba, Akshat Rana, Sougata Halder, Siddharth Dhomkar, Dieter Suter, and Rama K. Kamineni

Strong coupling of Fabry-Pérot cavity mode, anapole, and exciton supported by an optical cavity with heterogeneous nano-optical metasurfaces *(9 pages)* 195425
Junjie Li, Yang Cheng, Wei Liu, Xiaoshan Liu, Pingping Pan, Jing Chen, Zhengqi Liu, and Guiqiang Liu

Transition from antiferromagnetic metal to room-temperature ferromagnetic semiconductor in monolayer $CrTe_2$ via Li adsorption *(9 pages)* 195426
Yiwen Zhang, Yifan Zhang, Haoshen Ye, Junting Zhang, and Jianli Wang

Mechanical Su-Schrieffer-Heeger quasicrystal: Topology, localization, and mobility edge *(17 pages)* 195427
D. A. Miranda, T. V. C. Antão, and N. M. R Peres

Competing lattice instability and magnetism on the surface of kagome metals *(8 pages)* 195428
Hengxin Tan and Binghai Yan

Giant piezoelectricity in group-IV monochalcogenides with ferroelectric AA layer stacking *(7 pages)* 195429
Seungjun Lee, Hyeong-Ryul Kim, Wei Jiang, Young-Kyun Kwon, and Tony Low

Tip-induced creation and Jahn-Teller distortions of sulfur vacancies in single-layer MoS_2 *(6 pages)* 195430
Daniel Jansen, Tfyeche Tounsi, Jeison Fischer, Arkady V. Krasheninnikov, Thomas Michely, Hannu-Pekka Komsa, and Wouter Jolie

Near-field radiative heat transfer between shifted graphene gratings *(14 pages)* 195431
Minggang Luo, Youssef Jeyar, Brahim Guizal, and Mauro Antezza

Polaronic polariton quasiparticles in a dark excitonic medium *(20 pages)* 195432
Kenneth Choo, Olivier Bleu, Jesper Levinsen, and Meera M. Parish

Dirac Landau levels for surfaces with constant negative curvature *(23 pages)* 195433
Maximilian Fürst, Denis Kochan, Ioachim-Gheorghe Dusa, Cosimo Gorini, and Klaus Richter

Graphene plasmonic skyrmion lattices generated by radially polarized light beams *(8 pages)* 195434
Lei Wang, Lixin Ge, Ke Gong, Wei Cai, Xinzheng Zhang, and Jingjun Xu

Giant spin transport anisotropy in magnetic topological insulators *(6 pages)* 195435
Marc Vila, Aron W. Cummings, and Stephan Roche

Coexistence of one-dimensional and two-dimensional topology and genesis of Dirac cones in the chiral Aubry-André model *(15 pages)* 195436
T. V. C. Antão, D. A. Miranda, and N. M. R. Peres

(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 109, NUMBER 19** **MAY 2024-15(I)**

Gate-tunable topological phases in superlattice modulated bilayer graphene *(9 pages)* 195406
Yongxin Zeng, Tobias M. R. Wolf, Chunli Huang, Nemin Wei, Sayed Ali Akbar Ghorashi, Allan H. MacDonald, and Jennifer Cano

Topology of Bi_2Se_3 nanosheets *(10 pages)* 195407
L. Maisel Licerán, S. J. H. Koerhuis, D. Vanmaekelbergh, and H. T. C. Stoof

Quarter-quantized thermal Hall effect with parity anomaly *(9 pages)* 195408
Yu-Hao Wan and Qing-Feng Sun

Polariton-assisted long-distance energy transfer between excitons in two-dimensional semiconductors *(7 pages)* 195409
Tuomas Pajunpää, Fedor Nigmatulin, Suvi-Tuuli Akkanen, Henry Fernandez, Gerrit Groenhof, and Zhipei Sun

Nonequilibrium finite frequency resonances in differential quantum noise driven by Majorana interference *(13 pages)* 195410
Sergey Smirnov

Analysis of stability and near-equilibrium dynamics of self-assembled Casimir cavities *(11 pages)* 195411
Mikhail Krasnov, Arslan Mazitov, Nikita Orekhov, and Denis G. Baranov

Deciphering cooperative effects in plexciton formation between Ag nanocluster and fullerene *(15 pages)* 195412
Tatsuya Yoshida, Kazuya Watanabe, Fumiharu Nishita, Daiki Yamamoto, Hiroshi Okuyama, and Tomokazu Yasuike

Significant electron-phonon coupling in nanographene confined in single-walled carbon nanotubes due to the large amplitude of radial breathinglike vibrations *(8 pages)* 195413
Bingze Wu, Mingfeng Zhu, Chunguang Zhai, Yaping Zhao, Yexuan Meng, Jiajun Dong, Xuan Li, Ran Liu, Kunpeng Tang, Lei Shi, Bertil Sundqvist, and Mingguang Yao

Synergistic role of *p-d* hybridization and magnetism in enhanced water splitting on ferromagnetic 1*T* transition metal dichalcogenides *(11 pages)* 195414
Yuyuan Huang, Shunfang Li, Zhenyu Zhang, and Ping Cui

Tuning spinaron and Kondo resonances via quantum confinement *(8 pages)* 195415
Markus Aapro, Abraham Kipnis, Jose L. Lado, Shawulienu Kezilebieke, and Peter Liljeroth

Adsorption model for atoms and molecules on doped semiconducting oxides *(20 pages)* 195416
Abhinav S. Raman, Colin Lehman-Chong, and Aleksandra Vojvodic

Element-selective structural visualization for the oxygen-induced surface of Nb(110) *(8 pages)* 195417
Yuuki Yasui, Katsuyuki Matsunaga, Keisuke Sagisaka, and Yoshiaki Sugimoto

Longitudinal and transverse mobilities of *n*-type monolayer transition metal dichalcogenides in the presence of proximity-induced interactions at low temperature *(14 pages)* 195418
J. Liu, W. Xu, Y. M. Xiao, L. Ding, H. W. Li, B. Van Duppen, M. V. Milošević, and F. M. Peeters

Generic model with unconventional Rashba bands and giant spin galvanic effect *(12 pages)* 195419
Xinliang Huang, Yuhang Xiao, Rui Song, and Ning Hao

Two-dimensional symmetry-protected topological phases and transitions in open quantum systems *(10 pages)* . . . 195420
Yuxuan Guo and Yuto Ashida

(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 109, NUMBER 19** **MAY 2024-15(I)**

Effects of atomic vibrations on the electronic structure and the photocatalytic efficiency of α-Fe_2O_3 *(7 pages)* . . . 195203
Hongxu Luo and Sai Lyu

Phase diagram and structure evolution mechanism in ultrahigh energy storage $NaNbO_3$-based superparaelectric relaxor ferroelectric ceramics *(9 pages)* 195204
Kai Dai (戴凯), Yafang Li (李亚芳), Yuting Yan (严雨婷), Zhen Liu (刘振), Anyang Cui (崔安阳), Kai Jiang (姜凯), Liyan Shang (商丽燕), Yawei Li (李亚巍), Genshui Wang (王根水), and Zhigao Hu (胡志高)

Limitations of mean-field approximations in describing shift-current and injection-current in materials *(14 pages)* 195205
Shunsuke A. Sato and Angel Rubio

Wavelike dynamics for high harmonic generation in solids *(15 pages)* 195206
Hubin Cui, Liang Li, Yuntian Zhang, Sen Qiao, Di Wu, Pengfei Lan, and Peixiang Lu

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

Structural disorder-induced topological phase transitions in quasicrystals *(9 pages)* 195301
Tan Peng, Yong-Chen Xiong, Chun-Bo Hua, Zheng-Rong Liu, Xiaolu Zhu, Wei Cao, Fang Lv, Yue Hou, Bin Zhou, Ziyu Wang, and Rui Xiong

Nuclear spin relaxation mediated by donor-bound and free electrons in wide CdTe quantum wells *(11 pages)* 195302
B. F. Gribakin, V. M. Litvyak, M. Kotur, R. André, M. Vladimirova, D. R. Yakovlev, and K. V. Kavokin

Enhancement of laser pulse induced photocurrents by topological states in graphene nanoribbons *(10 pages)* 195303
Rulin Wang, Fuzhen Bi, Wencai Lu, Xiao Zheng, and ChiYung Yam

Beyond mean-field corrections to the blueshift of a driven-dissipative exciton-polariton condensate *(12 pages)* . . . 195304
Félix Helluin, Léonie Canet, and Anna Minguzzi

Constructing helical edge states with two-dimensional C_6 and C_6-like symmetric photonic crystals *(8 pages)* 195305
Xiaolong Wang, Wenjie Sui, Yu Zhang, Zirui Zhang, Yongxi Yao, Xinqi Meng, Hongfang Zhang, Yujing Wang, and Bing Yang

Surface physics, nanoscale physics, low-dimensional systems

Tunable in-plane bihyperbolicity in bismuth monolayer *(10 pages)* 195401
Xikui Ma, Shuting Hou, Mingzheng Wang, Yueheng Du, Chao Ding, Han Gao, Lei Sun, and Mingwen Zhao

Driving viscous hydrodynamics in bulk electron flow in graphene using micromagnets *(12 pages)* 195402
Jack N. Engdahl, Aydın Cem Keser, Thomas Schmidt, and Oleg P. Sushkov

Quantized thermal and spin transports of dirty planar topological superconductors *(12 pages)* 195403
Sanjib Kumar Das and Bitan Roy

Accelerated molecular vibrational decay and suppressed electronic nonlinearities in plasmonic cavities through coherent Raman scattering *(13 pages)* 195404
Lukas A. Jakob, William M. Deacon, Rakesh Arul, Bart de Nijs, Niclas S. Mueller, and Jeremy J. Baumberg

Microscopic Green's function approach for generalized Dirac Hamiltonians *(17 pages)* 195405
Jeyson Támara-Isaza, Pablo Burset, and William J. Herrera

(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 109, NUMBER 19** **MAY 2024-15(I)**

Enhanced Drude weight in a one-dimensional system of fermions with pair-hopping events *(10 pages)* 195159
M. S. Bahovadinov, R. O. Sharipov, B. L. Altshuler, and G. V. Shlyapnikov

Electronic states in one-dimensional helical crystals: General properties and application to InSeI *(16 pages)* 195160
Jiaming Hu, Shu Zhao, Wenbin Li, and Hua Wang

Robustness of critical U(1) spin liquids and emergent symmetries in tensor networks *(7 pages)* 195161
Henrik Dreyer, Laurens Vanderstraeten, Ji-Yao Chen, Ruben Verresen, and Norbert Schuch

Integrability as an attractor of adiabatic flows *(16 pages)* 195162
Hyeongjin Kim and Anatoli Polkovnikov

Phase evolution of Ce-based heavy-fermion superconductors under compression: A combined first-principles and effective-model study *(16 pages)* 195164
Hao-Tian Ma, Peng-Fei Tian, Da-Liang Guo, Xing Ming, Xiao-Jun Zheng, Yu Liu, and Huan Li

Theory of topological defects and textures in two-dimensional quantum orders with spontaneous symmetry breaking *(32 pages)* 195165
Yan-Qi Wang, Chunxiao Liu, and Yuan-Ming Lu

Correlated phases and topological phase transition in twisted bilayer graphene at one quantum of magnetic flux *(14 pages)* 195167
Miguel Sánchez Sánchez and Tobias Stauber

Quasi-one-dimensional exchange interactions and short-range magnetic correlations in $CuTeO_4$ *(10 pages)* 195168
Zubia Hasan, Eli Zoghlin, Michal Winiarski, Kathryn E. Arpino, Thomas Halloran, Thao T. Tran, and Tyrel M. McQueen

Relevant long-range interaction of the entanglement Hamiltonian emerges from a short-range gapped system *(8 pages)* 195169
Chuhao Li, Rui-Zhen Huang, Yi-Ming Ding, Zi Yang Meng, Yan-Cheng Wang, and Zheng Yan

Charge-ordered phases in the hole-doped triangular Mott insulator 4*Hb*-TaS_2 *(7 pages)* 195170
Junho Bang, Byeongin Lee, Hyungryul Yang, Sunghun Kim, Dirk Wulferding, and Doohee Cho

Coupling strongly correlated electron systems to a tunable electronic reservoir *(12 pages)* 195171
S. Bag, L. Fratino, A. Camjayi, M. Civelli, and M. Rozenberg

Electronic and optical properties of the fully and partially inverse $CoFe_2O_4$ spinel from first principles calculations including many-body effects *(13 pages)* 195172
Shohreh Rafiezadeh, Vijaya Begum-Hudde, and Rossitza Pentcheva

Cavity moiré materials: Controlling magnetic frustration with quantum light-matter interaction *(14 pages)* 195173
Kanta Masuki and Yuto Ashida

Semiconductors I: bulk

Realizing high phonon anharmonicity in layered Mg_3Sb_2: A temperature-dependent optical phonon study *(13 pages)* 195201
Minati Tiadi, Dillip K. Satapathy, and Manjusha Battabyal

Tunable spin photogalvanic effect in two-dimensional van der Waals ferroelectric semiconductors with spin-orbit coupling *(14 pages)* 195202
Shibo Fang, Min Wang, Xingyue Yang, Zongmeng Yang, Qiuhui Li, Zhaochu Luo, and Jing Lu

(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 109, NUMBER 19** **MAY 2024-15(I)**

Interfaces of nodal-line semimetals: Drum states, transport, and refraction *(17 pages)* 195144
Mattia Rudi, Alessandro De Martino, Kristof Moors, Domenico Giuliano, and Francesco Buccheri

Magnetism and weak electronic correlations in the kagome metal ScV_6Sn_6 *(7 pages)* 195145
Tianye Yu, Junwen Lai, Xiangyang Liu, Peitao Liu, Xing-Qiu Chen, and Yan Sun

Competition between Neel, Haldane nematic, plaquette valence bond solid, and (π, π) valence bond solid phases in SU(N) analogs of $S = 1$ square-lattice antiferromagnets *(14 pages)* 195146
Souvik Kundu, Nisheeta Desai, and Kedar Damle

Valley-dependent multiple quantum states and topological transitions in germanene-based ferromagnetic van der Waals heterostructures *(7 pages)* 195147
Feng Xue, Jiaheng Li, Yizhou Liu, Ruqian Wu, Yong Xu, and Wenhui Duan

Two-dimensional quantum lattice models via mode optimized hybrid CPU-GPU density matrix renormalization group method *(12 pages)* 195148
Andor Menczer, Kornél Kapás, Miklós Antal Werner, and Örs Legeza

In-plane Wilson loop for measurement of quantized non-Abelian Berry flux *(11 pages)* 195149
Alexander C. Tyner, Shouvik Sur, Qunfei Zhou, Danilo Puggioni, Pierre Darancet, James M. Rondinelli, and Pallab Goswami

Extraction of important degrees of freedom in quantum dynamics using singular value decomposition: Application to linear optical spectrum in two-dimensional Mott insulators *(14 pages)* 195150
J. Tokimoto, S. Ohmura, A. Takahashi, K. Iwano, and H. Okamoto

Electronic structure and magnetic tendencies of trilayer $La_4Ni_3O_{10}$ under pressure: Structural transition, molecular orbitals, and layer differentiation *(12 pages)* 195151
Harrison LaBollita, Jesse Kapeghian, Michael R. Norman, and Antia S. Botana

Absence of localization in Weyl semimetals *(10 pages)* 195152
Jinmin Yi and A. A. Burkov

Polaron spectra and edge singularities for correlated flat bands *(14 pages)* 195153
Dimitri Pimenov

Phases and exotic phase transitions of a two-dimensional Su-Schrieffer-Heeger model *(16 pages)* 195154
Anika Götz, Martin Hohenadler, and Fakher F. Assaad

Band structure and excitonic properties of WSe_2 in the isolated monolayer limit in an all-electron approach *(14 pages)* 195155
Niloufar Dadkhah and Walter R. L. Lambrecht

Orbital-free potential functionals with submillihartree errors for single-well slabs *(12 pages)* 195156
Pavel Okun, Antonio C. Cancio, and Kieron Burke

Trion gas, electron-hole liquid, and metal-insulator transition in doped heterostructures based on transition metal dichalcogenides *(15 pages)* 195157
P. V. Ratnikov and A. P. Silin

Fermionic sign problem minimization by constant path integral contour shifts *(19 pages)* 195158
Christoph Gäntgen, Evan Berkowitz, Thomas Luu, Johann Ostmeyer, and Marcel Rodekamp

(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 109, NUMBER 19** **MAY 2024-15(I)**

Universal structure of measurement-induced information in many-body ground states *(17 pages)* 195128
Zihan Cheng, Rui Wen, Sarang Gopalakrishnan, Romain Vasseur, and Andrew C. Potter

Comparative study of a high-entropy metal disulfide and its parent compounds using x-ray absorption spectroscopy *(12 pages)* 195129
Anna Z. Laila, Truc Ly Nguyen, Ryota Furui, Abhijeet Shelke, Fan-Hsiu Chang, Hong-Ji Lin, Chien-Te Chen, Satoru Hamamoto, Atsushi Fujimori, Takashi Mizokawa, Ashish Chainani, and Ayako Yamamoto

Optical signatures of type-II Weyl fermions in the noncentrosymmetric semimetals *R*AlSi (R = La, Ce, Pr, Nd, Sm) *(8 pages)* 195130
J. Kunze, M. Köpf, Weizheng Cao, Yanpeng Qi, and C. A. Kuntscher

Phase diagram of a square lattice model of XY spins with direction-dependent interactions *(11 pages)* 195131
Fan Zhang, Wenan Guo, and Ribhu K. Kaul

Ab initio transport theory for the intrinsic spin Hall effect applied to 5*d* metals *(16 pages)* 195132
Akash Bajaj, Reena Gupta, Ilya V. Tokatly, Stefano Sanvito, and Andrea Droghetti

Pattern formation in charge density wave states after a quantum quench *(13 pages)* 195133
Lingyu Yang, Yang Yang, and Gia-Wei Chern

Indication of exchange interaction induced spin splitting in unoccupied electronic states of the high-T_C ferromagnet $(Cr_{0.35}Sb_{0.65})_2Te_3$ *(11 pages)* 195134
C. W. Chuang, Y. Nakata, K. Hori, S. Gupta, F. M. F. de Groot, A. Fujimori, T. P. T. Nguyen, K. Yamauchi, I. Rajput, A. Lakhani, F.-H. Chang, H.-J. Lin, C.-T. Chen, F. Matsukura, S. Souma, T. Takahashi, T. Sato, and A. Chainani

Effective theory for graphene nanoribbons with junctions *(10 pages)* 195135
Johann Ostmeyer, Lado Razmadze, Evan Berkowitz, Thomas Luu, and Ulf-G. Meißner

Axion electrodynamics without Witten effect in metamaterials *(6 pages)* 195136
Eduardo Barredo-Alamilla, Daniel A. Bobylev, and Maxim A. Gorlach

Nonstandard Hubbard model and electron pairing *(11 pages)* 195137
M. Zendra, F. Borgonovi, G. L. Celardo, and S. Gurvitz

Electronic properties of BiTe*X* (X =Cl, Br, and I) through generalized tight-binding models: Orthogonal and nonorthogonal perspectives *(8 pages)* 195138
S. Ganjehie, S. Hessami Pilehrood, S. A. Ketabi, and M. Nakhaee

Absence of backscattering in Fermi-arc mediated conductivity of the topological Dirac semimetal Cd_3As_2 *(10 pages)* 195139
Vsevolod Ivanov, Lotte Borkowski, Xiangang Wan, and Sergey Y. Savrasov

Back-reaction and correlation effects on prethermalization in Mott-Hubbard systems *(11 pages)* 195140
Friedemann Queisser, Christian Kohlfürst, and Ralf Schützhold

Ultrafast Raman thermometry in driven $YBa_2Cu_3O_{6.48}$ *(6 pages)* 195141
T.-H. Chou, M. Först, M. Fechner, M. Henstridge, S. Roy, M. Buzzi, D. Nicoletti, Y. Liu, S. Nakata, B. Keimer, and A. Cavalleri

Magnetic field induced insulator-to-metal Mott transition in λ-type organic conductors *(6 pages)* 195142
S. Fukuoka, T. Oka, Y. Ihara, A. Kawamoto, S. Imajo, and K. Kindo

(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 109, NUMBER 19** **MAY 2024-15(I)**

Spin-selective evolution of the Zhang-Rice state in binary transition metal oxide MnO(001) film *(9 pages)* 195111
Asish K. Kundu, Polina M. Sheverdyaeva, Paolo Moras, Krishnakumar S. R. Menon, Subhasish Mandal, and Carlo Carbone

Magnetic order and strongly correlated effects in the one-dimensional Ising-Kondo lattice *(9 pages)* 195112
Xiaofan Zhou, Jingtao Fan, and Suotang Jia

Emergent entanglement in multilayers with multiband spectrum and interlayer electron coupling *(13 pages)* 195113
Andreas Sinner

Charting the free energy landscape of metastable topological magnetic objects *(13 pages)* 195114
Juan Carlos Criado, Peter D. Hatton, Álvaro Lanza, Sebastian Schenk, and Michael Spannowsky

First-principles treatment of vibrational broadening in x-ray excited valence band spectra for *n*-$SrTiO_3$(001) *(11 pages)* 195115
Scott A. Chambers, Deepnarayan Biswas, Tien-Lin Lee, Mark van Schilfgaarde, and Peter V. Sushko

Stability and noncentered PT symmetry of real topological phases *(9 pages)* 195116
S. J. Yue, Qing Liu, Shengyuan A. Yang, and Y. X. Zhao

Strain control of band topology and surface states in antiferromagnetic $EuCd_2As_2$ *(6 pages)* 195117
Nayra A. Álvarez Pari, V. K. Bharadwaj, R. Jaeschke-Ubiergo, A. Valadkhani, Roser Valentí, L. Šmejkal, and Jairo Sinova

Disentangling the physics of the attractive Hubbard model as a fully interacting model of fermions via the accessible and symmetry-resolved entanglement entropies *(18 pages)* 195119
Tong Shen, Hatem Barghathi, Adrian Del Maestro, and Brenda M. Rubenstein

Exact conditions for ensemble density functional theory *(16 pages)* 195120
Thais R. Scott, John Kozlowski, Steven Crisostomo, Aurora Pribram-Jones, and Kieron Burke

Site-selective doublon-holon dynamics in a pumped one-dimensional Hubbard superlattice with staggered Coulomb interactions *(10 pages)* 195121
Zhenyu Cheng, Ying Li, Hantao Lu, Xiang Hu, Zhongbing Huang, Gregory A. Fiete, and Liang Du

Effective model for superconductivity in magic-angle graphene *(9 pages)* 195122
Disha Hou, Yuhai Liu, Toshihiro Sato, Fakher F. Assaad, Wenan Guo, and Zhenjiu Wang

Effects of periodically kicked Dirac mass term in the Chern insulators *(11 pages)* 195123
Fei Yang, Zheng Wei, Tian-Meng Li, and Su-Peng Kou

Topological solitons in a Su-Schrieffer-Heeger chain with periodic hopping modulation, domain wall, and disorder *(14 pages)* 195124
Surajit Mandal and Satyaki Kar

Machine learning the Kondo entanglement cloud from local measurements *(7 pages)* 195125
Faluke Aikebaier, Teemu Ojanen, and Jose L. Lado

Chemical disorder induced electronic orders in correlated metals: Rekindled failed-order scenario *(11 pages)* 195126
Jinning Hou (侯晋宁), Yuting Tan (谭宇婷), and Wei Ku (顧威)

Unified theory of optical absorption and luminescence including both direct and phonon-assisted processes *(18 pages)* 195127
Sabyasachi Tiwari, Emmanouil Kioupakis, José Menendez, and Feliciano Giustino

(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™

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 109, NUMBER 19 *CONTENTS* **MAY 2024-15(I)**

EDITORIALS AND ANNOUNCEMENTS

Editorial: Coauthor! Coauthor! *(2 pages)* 190001
Randall D. Kamien and Daniel Ucko

ARTICLES

Electronic structure and strongly correlated systems

Mirror real Chern insulator in two and three dimensions *(8 pages)* 195101
Yang Wang, Chaoxi Cui, Run-Wu Zhang, Xiaotian Wang, Zhi-Ming Yu, Gui-Bin Liu, and Yugui Yao

Ferroquadrupolar lattice instability in an antiferromagnetically ordered state in single-crystalline DyCuGe *(7 pages)* 195102
Isao Ishii, Kanna Sunazaki, Koji Araki, Makoto Shoji, Kentaro Isobe, Alexander V. Andreev, and Takashi Suzuki

Low-temperature transport properties of spin-$\frac{1}{2}$ random Heisenberg chains *(5 pages)* 195103
Yuejiu Zhao and Long Zhang

Anisotropic nonsaturating magnetoresistance observed in $HoMn_6Ge_6$: A kagome Dirac semimetal *(9 pages)* 195104
Achintya Low, Tushar Kanti Bhowmik, Susanta Ghosh, and Setti Thirupathaiah

Kinetic theory of ultrasubsonic fermion systems and applications to flat-band magic-angle twisted bilayer graphene transport *(10 pages)* 195105
Seth M. Davis and Sankar Das Sarma

Transport spectroscopy study of minibands in MoS_2 moiré superlattices *(9 pages)* 195106
Chithra H. Sharma, Marta Prada, Jan-Hendrik Schmidt, Isabel González Díaz-Palacio, Tobias Stauber, Takashi Taniguchi, Kenji Watanabe, Lars Tiemann, and Robert H. Blick

Topological zero-modes of the spectral localizer of trivial metals *(10 pages)* 195107
Selma Franca and Adolfo G. Grushin

$\mathbb{Z}_N$ lattice gauge theories with matter fields *(22 pages)* 195108
Kaustubh Roy and Elio J. König

Temperature flow in pseudo-Majorana functional renormalization for quantum spins *(12 pages)* 195109
Benedikt Schneider, Johannes Reuther, Matías G. Gonzalez, Björn Sbierski, and Nils Niggemann

Controlled expansion for transport in a class of non-Fermi liquids *(16 pages)* 195110
Zhengyan Darius Shi

(Continued)

2469-9950(20240515)109:19;1-9

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).