**PHYSICAL REVIEW B** **THIRD SERIES, VOLUME 105, NUMBER 8** **FEBRUARY 2022-15(II)**

Phonon-limited transport and Fermi arc lifetime in Weyl semimetals *(24 pages)* . . . . . 085410
Francesco Buccheri, Alessandro De Martino, Rodrigo G. Pereira, Piet W. Brouwer, and Reinhold Egger

Corner modes of the breathing kagome lattice: Origin and robustness *(17 pages)* . . . . . 085411
M. A. J. Herrera, S. N. Kempkes, M. Blanco de Paz, A. García-Etxarri, I. Swart, C. Morais Smith, and D. Bercioux

Experimental evidence for dissipationless transport of the chiral edge state of the high-field Chern insulator in $MnBi_2Te_4$ nanodevices *(6 pages)* . . . . . 085412
Zhe Ying, Shuai Zhang, Bo Chen, Bin Jia, Fucong Fei, Minhao Zhang, Haijun Zhang, Xuefeng Wang, and Fengqi Song

Nanopatterning of rotating highly oriented pyrolytic graphite (0001) surfaces by ion beam irradiation: Experiments and modeling *(17 pages)* . . . . . 085413
Eunsu Lee, J. Seo, J. Muñoz-García, M. Castro, R. Cuerno, and J.-S. Kim

Crosstalk analysis for simultaneously driven two-qubit gates in spin qubit arrays *(8 pages)* . . . . . 085414
Irina Heinz and Guido Burkard

Electron beam splitting at topological insulator surface states and a proposal for electronic Goos-Hänchen shift measurement *(11 pages)* . . . . . 085415
Hassan Ghadiri and Alireza Saffarzadeh

Signatures of atomic structure in subfemtosecond laser-driven electron dynamics in nanogaps *(8 pages)* . . . . . 085416
Luke Bhan, Cody Covington, and Kálmán Varga

Rotating Majorana zero modes in a disk geometry *(14 pages)* . . . . . 085417
Liu Yang, Alessandro Principi, and Niels R. Walet

Proxy ensemble geometric phase and proxy index of time-reversal invariant topological insulators at finite temperatures *(10 pages)* . . . . . 085418
Aixin Pi, Ye Zhang, Yan He, and Chih-Chun Chien

Electron-phonon coupling, thermal expansion coefficient, resonance effect, and phonon dynamics in high-quality CVD-grown monolayer and bilayer $MoSe_2$ *(9 pages)* . . . . . 085419
Deepu Kumar, Vivek Kumar, Rahul Kumar, Mahesh Kumar, and Pradeep Kumar

Local equilibrium charge and spin currents in two-dimensional topological systems *(17 pages)* . . . . . 085420
Leandro R. F. Lima and Caio Lewenkopf

Selective observation of surface and bulk bands in polar $WTe_2$ by laser-based spin- and angle-resolved photoemission spectroscopy *(7 pages)* . . . . . 085421
Yuxuan Wan, Lihai Wang, Kenta Kuroda, Peng Zhang, Keisuke Koshiishi, Masahiro Suzuki, Jaewook Kim, Ryo Noguchi, Cédric Bareille, Koichiro Yaji, Ayumi Harasawa, Shik Shin, Sang-Wook Cheong, Atsushi Fujimori, and Takeshi Kondo

Supersymmetric free fermions and bosons: Locality, symmetry, and topology *(11 pages)* . . . . . 085423
Zongping Gong, Robert H. Jonsson, and Daniel Malz

Numerical study of PbTe-Pb hybrid nanowires for engineering Majorana zero modes *(19 pages)* . . . . . 085424
Zhan Cao, Dong E. Liu, Wan-Xiu He, Xin Liu, Ke He, and Hao Zhang

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 105, NUMBER 8** **FEBRUARY 2022-15(II)**

Interlayer exciton valley polarization dynamics in large magnetic fields *(9 pages)* . . . . . 085303
Johannes Holler, Malte Selig, Michael Kempf, Jonas Zipfel, Philipp Nagler, Manuel Katzer, Florian Katsch, Mariana V. Ballottin, Anatolie A. Mitioglu, Alexey Chernikov, Peter C. M. Christianen, Christian Schüller, Andreas Knorr, and Tobias Korn

Coexistence of topological type-II Weyl and triply degenerate points in a chiral photonic metamaterial *(9 pages)* 085304
Mingzhu Li, Jie Song, and Yongyuan Jiang

Influence of (N,H)-terminated surfaces on stability, hyperfine structure, and zero-field splitting of NV centers in diamond *(10 pages)* . . . . . 085305
Wolfgang Körner, Reyhaneh Ghassemizadeh, Daniel F. Urban, and Christian Elsässer

Quantum theory of two-dimensional materials coupled to electromagnetic resonators *(23 pages)* . . . . . 085306
Emil V. Denning, Martijn Wubs, Nicolas Stenger, Jesper Mørk, and Philip Trøst Kristensen

Plasma-assisted vapor liquid phase epitaxial growth of dilute $GaSb_xN_{1-x}$ and $GaBi_yN_{1-y}$ alloys: Confirmation of band gap reduction discontinuity *(7 pages)* . . . . . 085307
Sonia Juliana Calero-Barney, Antonis N. Andriotis, Madhu Menon, and Mahendra Sunkara

**Surface physics, nanoscale physics, low-dimensional systems**

Topological phase transition driven by magnetic field in one-dimensional topological superconductor rings *(8 pages)* . . . . . 085401
Cheng-Ming Miao, Qing-Feng Sun, and Ying-Tao Zhang

Quasi-one-dimensional $^4$He in nanopores *(8 pages)* . . . . . 085402
Andrea Nava, Domenico Giuliano, Phong H. Nguyen, and Massimo Boninsegni

Nonreciprocal photocurrent in the nonlinear response of two-dimensional models *(9 pages)* . . . . . 085403
F. Mahmoudi and Reza Asgari

Pump-induced terahertz anisotropy in bilayer graphene *(9 pages)* . . . . . 085404
Angelika Seidl, Roozbeh Anvari, Marc M. Dignam, Peter Richter, Thomas Seyller, Harald Schneider, Manfred Helm, and Stephan Winnerl

Spontaneous orbital magnetization of mesoscopic dipole dimers *(13 pages)* . . . . . 085405
Gaëtan J. Percebois, Dietmar Weinmann, Rodolfo A. Jalabert, and Guillaume Weick

Thin films of topological nodal line semimetals as a candidate for efficient thermoelectric converters *(9 pages)* . . . 085406
Masashi Hosoi, Ikuma Tateishi, Hiroyasu Matsuura, and Masao Ogata

Optical coherent injection of carrier and current in twisted bilayer graphene *(9 pages)* . . . . . 085407
Ze Zheng, Ying Song, Yu Wei Shan, Wei Xin, and Jin Luo Cheng

Tuning valley splitting and magnetic anisotropy of multiferroic $CuMP_2X_6$ ($M$ = Cr, V; $X$ = S, Se) monolayer *(7 pages)* . . . . . 085408
Dehe Zhang, Aolin Li, Xincheng Chen, Wenzhe Zhou, and Fangping Ouyang

Second-harmonic generation in atomically thin $1T$-$TiSe_2$ and its possible origin from charge density wave transitions *(9 pages)* . . . . . 085409
Ruiming Zhang, Wei Ruan, Junyao Yu, Libo Gao, Helmuth Berger, László Forró, Kenji Watanabe, Takashi Taniguchi, Ahmad Ranjbar, Rodion V. Belosludov, Thomas D. Kühne, Mohammad Saeed Bahramy, and Xiaoxiang Xi

*(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 105, NUMBER 8** **FEBRUARY 2022-15(II)**

Electride properties of ternary silicide and germanide of La and Ce *(9 pages)* . . . . . 085146
Alexey A. Dyachenko, Alexey V. Lukoyanov, Vladimir I. Anisimov, and Artem R. Oganov

Sachdev-Ye-Kitaev type physics in the strained Kitaev honeycomb model *(13 pages)* . . . . . 085147
Mikael Fremling and Lars Fritz

Many-body Green's function approaches to the doped Fröhlich solid: Exact solutions and anomalous mass enhancement *(24 pages)* . . . . . 085148
Nikolaus Kandolf, Carla Verdi, and Feliciano Giustino

Semilocal approximations to the Kohn-Sham exchange potential as applied to a metal surface *(10 pages)* . . . . . 085149
C. M. Horowitz, C. R. Proetto, and J. M. Pitarke

Electronic structure of higher-order Ruddlesden-Popper nickelates *(11 pages)* . . . . . 085150
Myung-Chul Jung, Jesse Kapeghian, Chase Hanson, Betül Pamuk, and Antia S. Botana

Valence-bond solid to antiferromagnet transition in the two-dimensional Su-Schrieffer-Heeger model by Langevin dynamics *(13 pages)* . . . . . 085151
A. Götz, S. Beyl, M. Hohenadler, and F. F. Assaad

Laughlin topology on fractal lattices without area law entanglement *(10 pages)* . . . . . 085152
Xikun Li, Mani Chandra Jha, and Anne E. B. Nielsen

Theoretical investigation of crystalline electric field influence on the magnetocaloric effect in the cubic praseodymium system $PrNi_2$ *(5 pages)* . . . . . 085153
P. J. von Ranke and W. S. Torres

Bound on resistivity in flat-band materials due to the quantum metric *(11 pages)* . . . . . 085154
Johannes Mitscherling and Tobias Holder

$Fe^{3+}$-hosting carbon phases in the deep Earth *(10 pages)* . . . . . 085155
Christian Albers, Robin Sakrowski, Lélia Libon, Georg Spiekermann, Björn Winkler, Christian Schmidt, Lkhamsuren Bayarjargal, Valerio Cerantola, Stella Chariton, Nico Giordano, Hlynur Gretarsson, Johannes Kaa, Hanns-Peter Liermann, Martin Sundermann, Nicola Thiering, Metin Tolan, Max Wilke, and Christian Sternemann

**Semiconductors I: bulk**

First-principles mobility prediction for amorphous semiconductors *(7 pages)* . . . . . 085201
Yeonghun Lee, Yaoqiao Hu, Dongwook Kim, Suman Datta, and Kyeongjae Cho

Accurate and fast master equation modeling of triplet-triplet annihilation in organic phosphorescent emission layers including correlations *(14 pages)* . . . . . 085202
M. Taherpour, C. van Hoesel, R. Coehoorn, and P. A. Bobbert

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

Evolution between quantum Hall and conducting phases: Simple models and some results *(17 pages)* . . . . . 085301
Zhihuan Dong and T. Senthil

Relaxation and darkening of excitonic complexes in electrostatically doped monolayer $WSe_2$: Roles of exciton-electron and trion-electron interactions *(17 pages)* . . . . . 085302
Min Yang, Lei Ren, Cedric Robert, Dinh Van Tuan, Laurent Lombez, Bernhard Urbaszek, Xavier Marie, and Hanan Dery

*(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 105, NUMBER 8** **FEBRUARY 2022-15(II)**

Revised phase diagram of the high-$T_c$ cuprate superconductor Pb-doped $Bi_2Sr_2CaCu_2O_{8+\delta}$ revealed by anisotropic transport measurements *(9 pages)* . . . . . 085131
Keiichi Harada, Yuki Teramoto, Tomohiro Usui, Kenji Itaka, Takenori Fujii, Takashi Noji, Haruka Taniguchi, Michiaki Matsukawa, Hajime Ishikawa, Koichi Kindo, Daniel S. Dessau, and Takao Watanabe

Thermal transport properties and some hydrodynamic-like behavior in three-dimensional topological semimetal $ZrTe_5$ *(7 pages)* . . . . . 085132
Chang-woo Cho, Peipei Wang, Fangdong Tang, Sungkyun Park, Mingquan He, Rolf Lortz, Genda Gu, Qiang Li, and Liyuan Zhang

Combining semilocal exchange with dynamical mean-field theory: Electronic structure and optical response of rare-earth sesquioxides *(9 pages)* . . . . . 085133
James Boust, Anna Galler, Silke Biermann, and Leonid V. Pourovskii

Spin-polarized imaging of strongly interacting fermions in the ferrimagnetic state of the Weyl candidate CeBi *(10 pages)* . . . . . 085134
Christian E. Matt, Yu Liu, Harris Pirie, Nathan C. Drucker, Na Hyun Jo, Brinda Kuthanazhi, Zhao Huang, Christopher Lane, Jian-Xin Zhu, Paul C. Canfield, and Jennifer E. Hoffman

Partial Kondo screening and anomalous thermal conductance *(6 pages)* . . . . . 085135
Hee Seung Kim, Hyeok-Jun Yang, and SungBin Lee

Fermion dispersion renormalization in a two-dimensional semi-Dirac semimetal *(9 pages)* . . . . . 085136
Hao-Fu Zhu, Xiao-Yin Pan, and Guo-Zhu Liu

Mixed-valent metallic pyrochlore iridate: A possible route to non-Fermi liquids *(8 pages)* . . . . . 085137
Md Salman Khan, Ilaria Carlomagno, Carlo Meneghini, P. K. Biswas, Fabrice Bert, Subham Majumdar, and Sugata Ray

Hidden breathing kagome topology in hexagonal transition metal dichalcogenides *(8 pages)* . . . . . 085138
Jun Jung and Yong-Hyun Kim

Prototypical many-body signatures in transport properties of semiconductors *(27 pages)* . . . . . 085139
Matthias Pickem, Emanuele Maggio, and Jan M. Tomczak

The case of SU(3) criticality in spin-2 chains *(13 pages)* . . . . . 085140
Chengshu Li, Victor L. Quito, Eduardo Miranda, Rodrigo Pereira, Ian Affleck, and Pedro L. S. Lopes

Anomalous Gurzhi effect *(18 pages)* . . . . . 085141
P. O. Sukhachov and Björn Trauzettel

Spin-orbit coupling induced demagnetization in Ni: *Ab initio* nonadiabatic molecular dynamics perspective *(7 pages)* . . . . . 085142
Zhenfa Zheng, Qijing Zheng, and Jin Zhao

Imaging of current crowding effect across the metal to insulator transition in a $NdNiO_3$ thin film with thickness gradient *(7 pages)* . . . . . 085143
Nirmal Roy, Sayantan Ghosh, Suprotim Saha, G. L. Prajapati, Rahul Dagar, D. S. Rana, and S. S. Banerjee

Comparing the influence of Floquet dynamics in various Kitaev-Heisenberg materials *(9 pages)* . . . . . 085144
Pascal Strobel and Maria Daghofer

Large-time and long-distance asymptotics of the thermal correlators of the impenetrable anyonic lattice gas *(12 pages)* . . . . . 085145
Yuri Zhuravlev, Eduard Naichuk, Nikolai Iorgov, and Oleksandr Gamayun

*(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 105, NUMBER 8** **FEBRUARY 2022-15(II)**

Multigap topology and non-Abelian braiding of phonons from first principles *(17 pages)* . . . . . 085115
Bo Peng, Adrien Bouhon, Robert-Jan Slager, and Bartomeu Monserrat

Gain-dependent Purcell enhancement, breakdown of Einstein's relations, and superradiance in nanolasers *(8 pages)* . . . . . 085116
Andrey A. Vyshnevyy

Systematic investigation of emergent particles in type-III magnetic space groups *(8 pages)* . . . . . 085117
Gui-Bin Liu (刘贵斌), Zeying Zhang (张泽英), Zhi-Ming Yu (余智明), Shengyuan A. Yang (杨声远), and Yugui Yao (姚裕贵)

Correlated electronic structure of a quintuple-layer nickelate *(10 pages)* . . . . . 085118
Harrison LaBollita and Antia S. Botana

Unveiling the Kondo cloud: Unitary renormalization-group study of the Kondo model *(17 pages)* . . . . . 085119
Anirban Mukherjee, Abhirup Mukherjee, N. S. Vidhyadhiraja, A. Taraphder, and Siddhartha Lal

Spin liquid to spin glass crossover in the random quantum Heisenberg magnet *(13 pages)* . . . . . 085120
Maine Christos, Felix M. Haehl, and Subir Sachdev

Charge dynamics in magnetically disordered Mott insulators *(13 pages)* . . . . . 085121
Philip Bleicker, Dag-Björn Hering, and Götz S. Uhrig

Single-impurity Anderson model out of equilibrium: A two-particle semianalytic approach *(15 pages)* . . . . . 085122
Jiawei Yan and Václav Janiš

Phononic real Chern insulator with protected corner modes in graphynes *(7 pages)* . . . . . 085123
Jiaojiao Zhu, Weikang Wu, Jianzhou Zhao, Cong Chen, Qianqian Wang, Xian-Lei Sheng, Lifa Zhang, Y. X. Zhao, and Shengyuan A. Yang

Photon-modulated linear and nonlinear anomalous Hall effects in type-II semi-Dirac semimetals *(8 pages)* . . . . . 085124
Jin-Na Chen, Yan-Yan Yang, Yong-Long Zhou, Yong-Jia Wu, Hou-Jian Duan, Ming-Xun Deng, and Rui-Qiang Wang

Measurable fractional spin for quantum Hall quasiparticles on the disk *(17 pages)* . . . . . 085125
Tommaso Comparin, Alvin Opler, Elia Macaluso, Alberto Biella, Alexios P. Polychronakos, and Leonardo Mazza

Kondo cloud in a one-dimensional nanowire *(11 pages)* . . . . . 085126
Joseph Kleinhenz, Igor Krivenko, Guy Cohen, and Emanuel Gull

Improving the transferability of density functional theory predictions through correlation analysis: Structural and energetic properties of Ni$X$ alloys ($X$ = C, Si, Ge, and Sn) *(13 pages)* . . . . . 085127
Ageo Meier de Andrade, Jolla Kullgren, and Peter Broqvist

Orbital design of flat bands in non-line-graph lattices via line-graph wave functions *(8 pages)* . . . . . 085128
Hang Liu, Gurjyot Sethi, Sheng Meng, and Feng Liu

Hydrostatic pressure-induced magnetic and topological phase transitions in the $MnBi_2Te_4$ family of materials *(9 pages)* . . . . . 085129
Zhiming Xu, Meng Ye, Jiaheng Li, Wenhui Duan, and Yong Xu

Mapping between Morita-equivalent string-net states with a constant depth quantum circuit *(12 pages)* . . . . . 085130
Laurens Lootens, Bram Vancraeynest-De Cuiper, Norbert Schuch, and Frank Verstraete

*(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 105, NUMBER 8** **FEBRUARY 2022-15(II)**

Multiple strong topological gaps and hexagonal warping in $Bi_4Te_3$ *(6 pages)* . . . . . L081409
Thais Chagas, Omar A. Ashour, Guilherme A. S. Ribeiro, Wendell S. Silva, Zhenglu Li, Steven G. Louie, Rogério Magalhães-Paniago, and Yves Petroff

Electronic pumping of heat without charge transfer *(5 pages)* . . . . . L081410
A. V. Andreev

## ARTICLES

### Electronic structure and strongly correlated systems

Photon absorption of two-dimensional nonsymmorphic Dirac semimetals *(9 pages)* . . . . . 085101
Amarnath Chakraborty, Guang Bian, and Giovanni Vignale

Causal versus local $GW$+EDMFT scheme and application to the triangular-lattice extended Hubbard model *(18 pages)* . . . . . 085102
Jiyu Chen, Francesco Petocchi, and Philipp Werner

Spin-orbit interactions may relax the rigid conditions leading to flat bands *(16 pages)* . . . . . 085103
Nóra Kucska and Zsolt Gulácsi

Torsion, energy magnetization, and thermal Hall effect *(12 pages)* . . . . . 085104
Ze-Min Huang, Bo Han, and Xiao-Qi Sun

Anisotropic magnetism and antiferromagnetic ordering in the Kondo-lattice compound $YbCuAs_2$ *(8 pages)* . . . . . 085105
David Evans, Sarah Dunsiger, and Eundeok Mun

Detecting topological phase transitions through entanglement between disconnected partitions in a Kitaev chain with long-range interactions *(12 pages)* . . . . . 085106
Saikat Mondal, Souvik Bandyopadhyay, Sourav Bhattacharjee, and Amit Dutta

Theoretical study of the crystal and electronic properties of $\alpha$-$RuI_3$ *(8 pages)* . . . . . 085107
Yang Zhang, Ling-Fang Lin, Adriana Moreo, and Elbio Dagotto

Magnetism and magnetotransport in the kagome antiferromagnet $Mn_3Ge$ *(12 pages)* . . . . . 085108
Gaurav Chaudhary, Anton A. Burkov, and Olle G. Heinonen

Discriminant indicators with generalized inversion symmetry *(7 pages)* . . . . . 085109
Tsuneya Yoshida, Ryo Okugawa, and Yasuhiro Hatsugai

Hidden one-dimensional, strongly nested, and almost half-filled Fermi surface in $Ba_2CuO_{3+y}$ superconductors *(6 pages)* . . . . . 085110
Paul Worm, Motoharu Kitatani, Jan M. Tomczak, Liang Si, and Karsten Held

Theory of exciton-phonon coupling *(14 pages)* . . . . . 085111
Gabriel Antonius and Steven G. Louie

Critical behaviors of lattice $U(1)$ gauge models and three-dimensional Abelian-Higgs gauge field theory *(10 pages)* . . . . . 085112
Claudio Bonati, Andrea Pelissetto, and Ettore Vicari

Tensor theory for higher-dimensional Chern insulators with large Chern numbers *(8 pages)* . . . . . 085113
Kai Wang, Jia-Xiao Dai, L. B. Shao, Shengyuan A. Yang, and Y. X. Zhao

*(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 105, NUMBER 8** **FEBRUARY 2022-15(II)**

Non-Hermitian $C_{NH} = 2$ Chern insulator protected by generalized rotational symmetry *(6 pages)* . . . . . L081112
Kai Chen and Alexander B. Khanikaev

Charge ordering mechanism in silver difluoride *(6 pages)* . . . . . L081113
Mariana Derzsi, Kamil Tokár, Przemysław Piekarz, and Wojciech Grochala

Addressing shape and extent of Weyl cones in TaAs by Landau level spectroscopy *(5 pages)* . . . . . L081114
D. Santos-Cottin, J. Wyzula, F. Le Mardelé, I. Crassee, E. Martino, J. Novák, G. Eguchi, Z. Rukelj, M. Novak, M. Orlita, and Ana Akrap

Floquet valley-polarized quantum anomalous Hall state in nonmagnetic heterobilayers *(7 pages)* . . . . . L081115
Fangyang Zhan, Zhen Ning, Li-Yong Gan, Baobing Zheng, Jing Fan, and Rui Wang

Hubbard model for spin-1 Haldane chains *(5 pages)* . . . . . L081116
G. Catarina and J. Fernández-Rossier

Non-Abelian braiding of Weyl nodes via symmetry-constrained phase transitions *(8 pages)* . . . . . L081117
Siyu Chen, Adrien Bouhon, Robert-Jan Slager, and Bartomeu Monserrat

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

Floquet vortex states induced by light carrying an orbital angular momentum *(6 pages)* . . . . . L081301
Hwanmun Kim, Hossein Dehghani, Iman Ahmadabadi, Ivar Martin, and Mohammad Hafezi

**Surface physics, nanoscale physics, low-dimensional systems**

Atomic-scale control of plasmon modes in graphene nanoribbons *(7 pages)* . . . . . L081401
François Aguillon, Dana Codruta Marinica, and Andrei G. Borisov

Superconductivity of neutral modes in quantum Hall edges *(5 pages)* . . . . . L081402
Jukka I. Väyrynen, Moshe Goldstein, and Yuval Gefen

Violation of the Wiedemann-Franz law in the topological Kondo model *(6 pages)* . . . . . L081403
Francesco Buccheri, Andrea Nava, Reinhold Egger, Pasquale Sodano, and Domenico Giuliano

Real-space detection and manipulation of two-dimensional quantum well states in few-layer $MoS_2$ *(8 pages)* . . . . L081404
Yu Wang, Linlu Wu, Zheng Wei, Zijia Liu, Peng Cheng, Yiqi Zhang, Baojie Feng, Guangyu Zhang, Wei Ji, Kehui Wu, and Lan Chen

Gate-defined wires in twisted bilayer graphene: From electrical detection of intervalley coherence to internally engineered Majorana modes *(7 pages)* . . . . . L081405
Alex Thomson, Ina M. Sorensen, Stevan Nadj-Perge, and Jason Alicea

Fermionic Chern insulator from twisted light with linear polarization *(6 pages)* . . . . . L081406
Utso Bhattacharya, Swati Chaudhary, Tobias Grass, Allan S. Johnson, Simon Wall, and Maciej Lewenstein

Metals, fractional metals, and superconductivity in rhombohedral trilayer graphene *(5 pages)* . . . . . L081407
András L. Szabó and Bitan Roy

Strain-tuning of domain walls in multilayer graphene probed in the quantum Hall regime *(8 pages)* . . . . . L081408
Paul Anderson, Yifan Huang, Yuanjun Fan, Sara Qubbaj, Sinisa Coh, Qin Zhou, and Claudia Ojeda-Aristizabal

*(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 105, NUMBER 8** *CONTENTS* **FEBRUARY 2022-15(II)**


## LETTERS

### Electronic structure and strongly correlated systems


Matrix product states for Hartree-Fock-Bogoliubov wave functions *(5 pages)* . . . . . L081101
Hui-Ke Jin, Rong-Yang Sun, Yi Zhou, and Hong-Hao Tu

Weyl nodes with higher-order topology in an optically driven nodal-line semimetal *(8 pages)* . . . . . L081102
Xiu-Li Du, Rui Chen, Rui Wang, and Dong-Hui Xu

Vanishing Hall conductance for commuting Hamiltonians *(5 pages)* . . . . . L081103
Carolyn Zhang, Michael Levin, and Sven Bachmann

Exotic magnetic and electronic properties of layered $CrI_3$ single crystals under high pressure *(6 pages)* . . . . . L081104
Anirudha Ghosh, D. Singh, T. Aramaki, Qingge Mu, V. Borisov, Y. Kvashnin, G. Haider, M. Jonak, D. Chareev, S. A. Medvedev, R. Klingeler, M. Mito, E. H. Abdul-Hafidh, J. Vejpravova, M. Kalbàč, R. Ahuja, Olle Eriksson, and Mahmoud Abdel-Hafiez

Relaxation at different length scales in models of many-body localization *(6 pages)* . . . . . L081105
J. Herbrych, M. Mierzejewski, and P. Prelovšek

*Ab initio* theory of magnetism in two-dimensional $1T$-$TaS_2$ *(6 pages)* . . . . . L081106
Diego Pasquier and Oleg V. Yazyev

Experimental realization of topological corner states in long-range-coupled electrical circuits *(6 pages)* . . . . . L081107
Nikita A. Olekhno, Alina D. Rozenblit, Valerii I. Kachin, Alexey A. Dmitriev, Oleg I. Burmistrov, Pavel S. Seregin, Dmitry V. Zhirihin, and Maxim A. Gorlach

Moiré induced topology and flat bands in twisted bilayer $WSe_2$: A first-principles study *(6 pages)* . . . . . L081108
Sudipta Kundu, Mit H. Naik, H. R. Krishnamurthy, and Manish Jain

Meta-GGA exchange-correlation free energy density functional to increase the accuracy of warm dense matter simulations *(7 pages)* . . . . . L081109
Valentin V. Karasiev, D. I. Mihaylov, and S. X. Hu

Single-particle mobility edge without disorder *(6 pages)* . . . . . L081110
Donny Dwiputra and Freddy P. Zen

Local magnetic moment formation and Kondo screening in the half-filled single-band Hubbard model *(6 pages)* . . . . . L081111
T. B. Mazitov and A. A. Katanin



**Copyright 2022 by American Physical Society**



*(Continued)*



2469-9950(20220215)105:8;1-A


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).