PHYSICAL REVIEW B **THIRD SERIES, VOLUME 109, NUMBER 20** **MAY 2024-15(II)**

Influence of the electron density on the giant negative magnetoresistance in two-dimensional electron gases *(7 pages)* 205416
L. Bockhorn, D. Schuh, C. Reichl, W. Wegscheider, and R. J. Haug

General principle behind magnetization-induced second-order topological corner states in the Kane-Mele model *(6 pages)* 205417
Cheng-Ming Miao, Lizhou Liu, Yu-Hao Wan, Qing-Feng Sun, and Ying-Tao Zhang

Revealing exciton transport in atomically thin semiconductors *(6 pages)* 205418
Fengjiang Liu, Kai Chen, Wei Yan, Weiwei Tang, Hao Zhang, Richard J. Blaikie, Yu-Hui Chen, Boyang Ding, and Min Qiu

Intrinsic and extrinsic plasmons in the hard x-ray photoelectron spectra of nearly free electron metals *(12 pages)* 205419
Mohammad Balal, Shuvam Sarkar, Pramod Bhakuni, Andrei Gloskovskii, Aparna Chakrabarti, and Sudipta Roy Barman

Magnetic flux induced topological superconductivity in magnetic atomic rings *(11 pages)* 205420
Jinpeng Xiao, Qianglin Hu, and Xiaobing Luo

Topological edge/corner states and polaritons in dimerized/trimerized superconducting qubits in a cavity *(10 pages)* 205421
Motohiko Ezawa

Influence of higher-order electron-phonon interaction on the electron-related lattice thermal properties of two-dimensional Dirac crystals *(12 pages)* 205422
Sina Kazemian and Giovanni Fanchini

Controllable fusion of electromagnetic bosons in two-dimensional semiconductors *(18 pages)* 205423
S. V. Andreev

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 20 MAY 2024-15(II)

Surface physics, nanoscale physics, low-dimensional systems

Theory of solid-state harmonic generation governed by crystal symmetry *(12 pages)* 205401
Chen Qian, Shicheng Jiang, Tong Wu, Hongming Weng, Chao Yu, and Ruifeng Lu

Valley focusing effect in a rippled graphene superlattice *(10 pages)* 205402
M. Pudlak and R. G. Nazmitdinov

Tailoring intrinsic chirality in a two-dimensional planar waveguide grating via quasibound states in the continuum *(8 pages)* 205403
Dandan Zhang, Tingting Liu, Linlin Lei, Weimin Deng, Tongbiao Wang, Qinghua Liao, Wenxing Liu, Shuyuan Xiao, and Tianbao Yu

High-mobility carriers and superconductivity at the $SrNbO_3$-$SrTiO_3$ interface *(6 pages)* 205404
Haoran Wei, Shengru Chen, Yuting Zou, Yuxin Wang, Meng Yang, Qinghua Zhang, Ke Zou, Lin Gu, Kun Jiang, Er-Jia Guo, and Zhi Gang Cheng

Mid-infrared strong coupling between quasibound states in the continuum and epsilon-near-zero modes in a thin polar dielectric film *(8 pages)* 205405
Ling Yue, Peng Xie, Shiyu Shen, Qi Ding, Hong Zhang, and Wei Wang

Controllable odd-frequency Cooper pairs in multisuperconductor Josephson junctions *(10 pages)* 205406
Jorge Cayao, Pablo Burset, and Yukio Tanaka

Formal Green's function theory in non-Hermitian lattice systems *(13 pages)* 205407
Changrui Chen and Wenan Guo

Asymmetrical regulation of thermal transport in BAs/MoSSe van der Waals heterostructures with applied electric field *(12 pages)* 205408
Donghai Wei, E Zhou, Jinyuan Xu, Ailing Chen, Hanpeng Xie, Fuqing Duan, Huimin Wang, Zhenzhen Qin, and Guangzhao Qin

Giant electrode effect on tunneling magnetoresistance and electroresistance in van der Waals intrinsic multiferroic tunnel junctions using VS_2 *(13 pages)* 205409
Zhi Yan, Ruixia Yang, Cheng Fang, Wentian Lu, and Xiaohong Xu

Phononic Doppler effect in sliding friction *(12 pages)* 205410
Yi Tao, Yun Dong, Yajing Kan, Zhiyong Wei, Yan Zhang, Chenhan Liu, and Yunfei Chen

Nature of even and odd magic angles in helical twisted trilayer graphene *(13 pages)* 205411
Daniele Guerci, Yuncheng Mao, and Christophe Mora

Single-electron states of phosphorus-atom arrays in silicon *(9 pages)* 205412
Maicol A. Ochoa, Keyi Liu, Michał Zieliński, and Garnett Bryant

Valley filtering in 8-*Pmmn* borophene based on an electrostatic waveguide constriction *(13 pages)* 205413
Emile Vanderstraeten and Dries Vande Ginste

Microscopic many-body theory of two-dimensional coherent spectroscopy of exciton polarons in one-dimensional materials *(9 pages)* 205414
Jia Wang, Hui Hu, and Xia-Ji Liu

Weyl-point teleportation *(11 pages)* 205415
György Frank, Dániel Varjas, Gergő Pintér, and András Pályi

(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 20** **MAY 2024-15(II)**

Realization of rhombohedral-stacked trilayer graphene by moiré engineering *(7 pages)* 205155
Ya-Xin Zhao, Mo-Han Zhang, Zi-Yi Han, Ya-Ning Ren, Xiao-Feng Zhou, Chao Yan, Ke Lv, Yu Zhang, and Lin He

Electronic properties of the bilayer nickelates $R_3Ni_2O_7$ with oxygen vacancies (R = La or Ce) *(12 pages)* 205156
Xuelei Sui, Xiangru Han, Heng Jin, Xiaojun Chen, Liang Qiao, Xiaohong Shao, and Bing Huang

Critical quantum dynamics of observables at eigenstate transitions *(19 pages)* 205157
Simon Jiricek, Miroslav Hopjan, Patrycja Łydżba, Fabian Heidrich-Meisner, and Lev Vidmar

Superconducting triangular islands as a platform for manipulating Majorana zero modes *(7 pages)* 205158
Aidan Winblad and Hua Chen

Semiconductors I: bulk

Optical and photovoltaic properties of organic solar cells versus bulk-heterojunction morphology *(8 pages)* 205201
Nurzhan Asanov, Nora Schopp, Constantinos Valagiannopoulos, and Viktor Brus

Multiband $k \cdot p$ theory for hexagonal germanium *(14 pages)* 205202
Yetkin Pulcu, János Koltai, Andor Kormányos, and Guido Burkard

Ultralow thermal conduction and impurity scattering in Cu_2HgSnS_4: An Hg-harnessed diamondlike semiconductor for thermoelectric devices *(14 pages)* 205203
Sumit Kukreti, Surbhi Ramawat, and Ambesh Dixit

Orbit-lattice coupling leads to the intrinsic low thermal conductivity in MTe (M = Ge, Sn, Pb) thermoelectric materials *(9 pages)* 205204
Yan Wang, Mingyuan Hu, Lin Xie, and Jiaqing He

Origin of hole density pinning in group-V doped CdTe *(9 pages)* 205205
Baoying Dou, Xuefen Cai, and Su-Huai Wei

Radiative transitions in undoped and Mn-doped $CdGeP_2$ crystals *(11 pages)* 205206
Gennady Medvedkin

Insights into the facet- and direction-dependent photoelectric properties of anatase and rutile TiO_2 *(14 pages)* 205207
Jiali Jiang, Xiangchao Ma, Haojiang Fan, Xin Wu, and Delian Liu

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

Magnetochiral anisotropy induced nonlinear planar Hall effect in topological insulator surface states *(9 pages)* . . . 205301
D. C. Marinescu and S. Tewari

Soliton formation in an exciton-polariton condensate at a bound state in the continuum *(12 pages)* 205302
I. Septembre, I. Foudjo, V. Develay, T. Guillet, S. Bouchoule, J. Zúñiga-Pérez, D. D. Solnyshkov, and G. Malpuech

Origin of giant magnetoresistance in layered nodal-line semimetal $TaNiTe_5$ nanoflakes *(11 pages)* 205303
Ding-Bang Zhou, Kuang-Hong Gao, Meng-Fan Zhao, Zhi-Yan Jia, Xiao-Xia Hu, Qian-Jin Guo, Hai-Yan Du, Xiao-Ping Chen, and Zhi-Qing Li

Nonadiabatic polariton condensation in annular optical traps *(11 pages)* 205304
I. Chestnov, E. Cherotchenko, and A. Nalitov

(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 20** **MAY 2024-15(II)**

Comprehensive study of all spinful and spinless linear band crossings in the 80 layer groups *(14 pages)* 205141
Wencheng Wang, Liangliang Huang, Xiangang Wan, and Feng Tang

Topological phases of commensurate or incommensurate non-Hermitian Su-Schrieffer-Heeger lattices *(10 pages)* 205142
Milad Jangjan, Linhu Li, Luis E. F. Foa Torres, and Mir Vahid Hosseini

Atomic multiplet and charge transfer screening effects in 1*s* and 2*p* core-level x-ray photoelectron spectra of early 3*d* transition-metal oxides *(9 pages)* 205143
Tatsuya Yamaguchi, Keisuke Higashi, Anna Regoutz, Yoshihiro Takahashi, Masoud Lazemi, Qijun Che, Frank M. F. de Groot, and Atsushi Hariki

Exotic topological phenomena in chiral superconducting states on doped quantum spin Hall insulators with honeycomb lattices *(9 pages)* 205144
Junkang Huang, Tao Zhou, and Z. D. Wang

Tuning the colossal magnetoresistance in $(Mn_{1-x}Mg_x)_3Si_2Te_6$ by engineering the gap and magnetic properties via doping and pressure *(6 pages)* 205145
Chaoxin Huang, Mengwu Huo, Xing Huang, Hui Liu, Lisi Li, Ziyou Zhang, Zhiqiang Chen, Yifeng Han, Lan Chen, Feixiang Liang, Hongliang Dong, Bing Shen, Hualei Sun, and Meng Wang

Anyon condensation web and multipartite entanglement in two-dimensional modulated gauge theories *(18 pages)* 205146
Guilherme Delfino and Yizhi You

Integral algorithm of exponential observables for interacting fermions in quantum Monte Carlo simulations *(7 pages)* 205147
Xu Zhang, Gaopei Pan, Bin-Bin Chen, Kai Sun, and Zi Yang Meng

Antiferromagnetic order enhanced by local dissipation *(16 pages)* 205148
Oscar Bouverot-Dupuis, Saptarshi Majumdar, Alberto Rosso, and Laura Foini

RKKY signals characterizing the topological phase transitions in Floquet Dirac semimetals *(15 pages)* 205149
Hou-Jian Duan, Shi-Ming Cai, Xing Wei, Yong-Chi Chen, Yong-Jia Wu, Ming-Xun Deng, Ruiqiang Wang, and Mou Yang

Many-body model for the cooperative Jahn-Teller effect in crystals and its associated orbital ordering *(17 pages)* 205150
Toraya Fernández-Ruiz, Inés Sánchez-Movellán, Juan María García-Lastra, Miguel Moreno, José Antonio Aramburu, and Pablo García-Fernández

Efficient calculation of unbiased atomic forces in *ab initio* variational Monte Carlo *(7 pages)* 205151
Kousuke Nakano, Michele Casula, and Giacomo Tenti

Tensile and compressive strain tuning of a Kondo lattice *(6 pages)* 205152
Soumendra Nath Panja, Anton Jesche, Nan Tang, and Philipp Gegenwart

Collective excitations in competing phases in two and three dimensions *(17 pages)* 205153
Joshua Althüser and Götz S. Uhrig

SU(N) Kondo-Heisenberg chain: Phase diagram, Ising criticality, and the coexistence of heavy quasiparticles and valence bond solid order *(24 pages)* 205154
Marcin Raczkowski and Fakher F. Assaad

(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 20** **MAY 2024-15(II)**

Neutron scattering study on dimerized $4f^1$ intermetallic compound Ce_5Si_3 *(8 pages)* 205127
Daichi Ueta, Yuki Iwata, Riki Kobayashi, Keitaro Kuwahara, Takatsugu Masuda, and Shinichi Itoh

Conformal field theory approach to parton fractional quantum Hall trial wave functions *(57 pages)* 205128
Greg J. Henderson, G. J. Sreejith, and Steven H. Simon

Electron-vacancy scattering in $SrNbO_3$ and $SrTiO_3$: A density functional theory study with nonequilibrium Green's functions *(10 pages)* 205129
Victor Rosendal, Nini Pryds, Dirch H. Petersen, and Mads Brandbyge

High-harmonic generation in semi-Dirac and Weyl semimetals with broken time-reversal symmetry: Exploration of the merging of Weyl nodes *(6 pages)* 205130
Luka Medic, Jernej Mravlje, Anton Ramšak, and Tomaž Rejec

Mechanism of intermetallic charge transfer and bond disproportionation in $BiNiO_3$ and $PbNiO_3$ revealed by hard x-ray photoemission spectroscopy *(6 pages)* 205131
Tatsuya Yamaguchi, Mizuki Furo, Yuki Sakai, Takumi Nishikubo, Hajime Hojo, Masaki Azuma, Kengo Oka, Daisuke Mori, Yoshiyuki Inaguma, Masaichiro Mizumaki, Kento Yamamoto, Jan Kuneš, Takashi Mizokawa, and Atsushi Hariki

Collapse of quasiparticle multiplets and $5f$ itinerant-localized crossovers in cubic phase Pu_3Ga *(11 pages)* 205132
Li Huang and Haiyan Lu

Magnetic fluctuations and dominant superconducting pairing symmetry near the tunable Van Hove singularity *(8 pages)* 205133
Xiaohan Kong, Boyang Wen, Kaiyi Guo, Ying Liang, and Tianxing Ma

Optimal compression of constrained quantum time evolution *(15 pages)* 205134
Maurits S. J. Tepaske, David J. Luitz, and Dominik Hahn

Non-Hermitian skin effects in two- and three-dimensional intertwined tight-binding lattices *(12 pages)* 205135
Chong Hou, Gangzhou Wu, Lingfang Li, Abdul Basit, Yating Wei, Shihua Chen, Philippe Grelu, and Zhenhua Ni

Observation of a *p*-orbital higher-order topological insulator phase in puckered lattice acoustic metamaterials *(10 pages)* 205136
Bing-Quan Wu, Zhi-Kang Lin, Li-Wei Wang, and Jian-Hua Jiang

Higher-order topological phases in bilayer phononic crystals and topological bound states in the continuum *(18 pages)* 205137
Xiao-Yu Liu, Yang Liu, Zhan Xiong, Hai-Xiao Wang, and Jian-Hua Jiang

Successive change from band insulating phase to spin-singlet dimer phase in the pseudobrookite titanate $MgTi_2O_5$-Ti_3O_5 system *(10 pages)* 205138
Daigo Indo, Taisei Yoshinaga, Mitsutoshi Arizono, Kazuya Takasu, Tetsuro Izaki, Takumi Shirasaki, Hinata Arai, Hideki Kuwahara, Kaoru Akimoto, Kei Ikeda, Takuro Katsufuji, and Tetsuji Okuda

Electrical tuning of the magnetic properties of two-dimensional magnets: $Cr_2Ge_2Te_6$ *(13 pages)* 205139
Guido Menichetti, Matteo Calandra, and Marco Polini

Quantifying the accuracy of steady states obtained from the universal Lindblad equation *(9 pages)* 205140
Frederik Nathan and Mark S. Rudner

(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 20** **MAY 2024-15(II)**

Chiral spin liquid on a Shastry-Sutherland Heisenberg antiferromagnet *(10 pages)* 205111
Jian-Wei Yang, Wei-Wei Luo, W. Zhu, L. Wang, Bo Yang, and Pinaki Sengupta

Relocalization of uranium 5f electrons in the antiferromagnetic heavy-fermion superconductor UPd_2Al_3: Insights from angle-resolved photoemission spectroscopy *(7 pages)* 205114
Jiao-Jiao Song, Chen Zhang, Qi-Yi Wu, Yin-Zou Zhao, Ján Rusz, John J. Joyce, Kevin S. Graham, Peter S. Riseborough, Clifford G. Olson, Hao Liu, Bo Chen, Ya-Hua Yuan, Yu-Xia Duan, Paul H. Tobash, Eric D. Bauer, Peter M. Oppeneer, Tomasz Durakiewicz, and Jian-Qiao Meng

Fermi surface of the chiral topological semimetal CoSi *(13 pages)* 205115
Nico Huber, Sanu Mishra, Ilya Sheikin, Kirill Alpin, Andreas P. Schnyder, Georg Benka, Andreas Bauer, Christian Pfleiderer, and Marc A. Wilde

Electronic quantum wires in extended quasiparticle picture *(19 pages)* 205116
Klaus Morawetz, Vinod Ashokan, Kare Narain Pathak, Neil Drummond, and Gianaurelio Cuniberti

Microscopic theory of nonlinear Hall effect induced by electric field and temperature gradient *(6 pages)* 205117
Terufumi Yamaguchi, Kazuki Nakazawa, and Ai Yamakage

Consistent combination of truncated-unity functional renormalization group and mean-field theory *(32 pages)* . . . 205118
Song-Jin O

Nonendpoint Majorana bound states in an extended Kitaev chain *(7 pages)* 205119
Xuan Zhang, Cheng-Ming Miao, Qing-Feng Sun, and Ying-Tao Zhang

Topological Hall effect in strongly correlated layered magnets: The effect of the spin of the magnetic atoms and of the polar and azimuthal angles subtended by the spin texture *(19 pages)* 205120
Kaushal Kumar Kesharpu

Moiré fractional Chern insulators. I. First-principles calculations and continuum models of twisted bilayer $MoTe_2$ *(29 pages)* 205121
Yujin Jia, Jiabin Yu, Jiaxuan Liu, Jonah Herzog-Arbeitman, Ziyue Qi, Hanqi Pi, Nicolas Regnault, Hongming Weng, B. Andrei Bernevig, and Quansheng Wu

Moiré fractional Chern insulators. II. First-principles calculations and continuum models of rhombohedral graphene superlattices *(46 pages)* 205122
Jonah Herzog-Arbeitman, Yuzhi Wang, Jiaxuan Liu, Pok Man Tam, Ziyue Qi, Yujin Jia, Dmitri K. Efetov, Oskar Vafek, Nicolas Regnault, Hongming Weng, Quansheng Wu, B. Andrei Bernevig, and Jiabin Yu

Many-body higher-order topological invariant for C_n-symmetric insulators *(11 pages)* 205123
Ammar Jahin, Yuan-Ming Lu, and Yuxuan Wang

Dynamical correlations leading to site and orbital selective Mott insulator transition in hydrogen doped $SmNiO_3$ *(7 pages)* 205124
Soumya S. Bhat, Vijay Singh, Uthpala Herath, Bilvin Varughese, Subramanian K. R. S. Sankaranarayanan, Hyowon Park, and Aldo H. Romero

Boundaries and defects in the cubic code *(24 pages)* 205125
Cory T. Aitchison, Daniel Bulmash, Arpit Dua, Andrew C. Doherty, and Dominic J. Williamson

Bound on approximating non-Markovian dynamics by tensor networks in the time domain *(6 pages)* 205126
Ilya Vilkoviskiy and Dmitry A. Abanin

(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 20 MAY 2024-15(II)

Fine structure splitting cancellation in highly asymmetric InAs/InP droplet epitaxy quantum dots *(6 pages)* L201405
N. R. S. van Venrooij, A. R. da Cruz, R. S. R. Gajjela, P. M. Koenraad, Craig E. Pryor, and Michael E. Flatté

Terahertz spin-light coupling in proximitized Dirac materials *(7 pages)* L201406
Konstantin S. Denisov, Igor V. Rozhansky, Sergio O. Valenzuela, and Igor Žutić

Fragile dislocation modes in obstructed atomic topological phases *(6 pages)* L201407
Gabriel Malavé, Jorge Schifferli, Rodrigo Soto-Garrido, Pedro A. Orellana, and Vladimir Juričić

Electrostatic nature of cavity-mediated interactions between low-energy matter excitations *(5 pages)* L201408
Petros-Andreas Pantazopoulos, Johannes Feist, Akashdeep Kamra, and Francisco J. García-Vidal

Exciton spin Hall effect in arc-shaped strained WSe_2 *(7 pages)* L201409
A. Shubnic, V. Shahnazaryan, I. A. Shelykh, and H. Rostami

ARTICLES

Electronic structure and strongly correlated systems

Electronic and valley properties of Janus TeMSiX_2 (M = Mo, W; X = P, As) monolayers and TeMSiX_2/CrI_3 heterostructures *(8 pages)* 205101
Yang Yang, Tao Li, Shi-quan Feng, and Hong-Yan Lu

Robust T-linear resistivity due to SU(4) valley and spin fluctuation mechanism in magic-angle twisted bilayer graphene *(10 pages)* 205102
Daisuke Inoue, Seiichiro Onari, and Hiroshi Kontani

Realization of ideal nodal-line fermions in doped Ni_3In-based structures *(7 pages)* 205103
Ye Yang, Rui Wang, and Xianhui Chen

Magnetic polarons beyond linear spin-wave theory: Mesons dressed by magnons *(19 pages)* 205104
Pit Bermes, Annabelle Bohrdt, and Fabian Grusdt

Nonvolatile spin field effect transistor based on VSi_2N_4/Sc_2CO_2 multiferroic heterostructure *(6 pages)* 205105
Xian Zhang, Bang Liu, Junsheng Huang, Xinwei Cao, Yunzhe Zhang, and Zhi-Xin Guo

Direct topological insulator transitions in three dimensions are destabilized by nonperturbative effects of disorder *(11 pages)* 205106
Yixing Fu, Justin H. Wilson, David A. Huse, and J. H. Pixley

Electronic topology with bound defect charges promotes intermediate hexatic phase in two-dimensional melting *(8 pages)* 205107
Junyan Ma and H. Huang

Ballistic to diffusive crossover in a weakly interacting Fermi gas *(14 pages)* 205108
Jerome Lloyd, Tibor Rakovszky, Frank Pollmann, and Curt von Keyserlingk

Tuning proximity spin-orbit coupling in graphene/$NbSe_2$ heterostructures via twist angle *(12 pages)* 205109
Thomas Naimer, Martin Gmitra, and Jaroslav Fabian

Higher-harmonic generation in the driven Mott-Hubbard model *(8 pages)* 205110
Friedemann Queisser and Ralf Schützhold

(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 20** **MAY 2024-15(II)**

Entanglement Hamiltonian of a nonrelativistic Fermi gas *(6 pages)* L201113
Viktor Eisler

Room-temperature transparent oxide spin electronics: A conducting interface in $LaFeO_3-SrTiO_3$ *(6 pages)* L201114
Ripudaman Kaur, Anamika Kumari, Shinjini Paul, Mohd Anas, Bibek Ranjan Satapathy, Sanjeev Kumar, V. K. Malik, P. Mahadevan, D. D. Sarma, and Suvankar Chakraverty

Semiempirical *ab initio* modeling of bound states of deep defects in semiconductor quantum technologies *(6 pages)* L201115
YunHeng Chen, Lachlan Oberg, Johannes Flick, Artur Lozovoi, Carlos A. Meriles, and Marcus W. Doherty

No eigenstate of the critical transverse-field Ising chain satisfies the area law *(6 pages)* L201116
Saverio Bocini and Maurizio Fagotti

Floquet chiral quantum walk in a quantum computer *(6 pages)* L201117
Chan Bin Bark, Youngseok Kim, and Moon Jip Park

Nematic heavy fermions and coexisting magnetic order in CeSiI *(5 pages)* L201118
Aayush Vijayvargia and Onur Erten

Kekulé spirals and charge transfer cascades in twisted symmetric trilayer graphene *(7 pages)* L201119
Ziwei Wang, Yves H. Kwan, Glenn Wagner, Nick Bultinck, Steven H. Simon, and S. A. Parameswaran

Thermal transport measurements through the charge density wave transition in CsV_3Sb_5 *(6 pages)* L201120
Erik D. Kountz, Chaitanya R. Murthy, Dong Chen, Linda Ye, Mark P. Zic, Claudia Felser, Ian R. Fisher, Steven A. Kivelson, and Aharon Kapitulnik

Non-Bloch dynamics and topology in a classical nonequilibrium process *(6 pages)* L201121
Bo Li, He-Ran Wang, Fei Song, and Zhong Wang

Multipole higher-order topology in a multimode lattice *(7 pages)* L201122
Maxim Mazanov, Anton S. Kupriianov, Roman S. Savelev, Zuxian He, and Maxim A. Gorlach

Scanning tunneling microscopy of fractional quantum Hall states: Spectroscopy of composite-fermion bound states *(5 pages)* L201123
Mytraya Gattu, G. J. Sreejith, and J. K. Jain

Pair correlations of the hybridized orbitals in a ladder model for the bilayer nickelate $La_3Ni_2O_7$ *(6 pages)* L201124
Masataka Kakoi, Tatsuya Kaneko, Hirofumi Sakakibara, Masayuki Ochi, and Kazuhiko Kuroki

Surface physics, nanoscale physics, low-dimensional systems

Band geometry induced high angular momentum excitonic superfluid in gapped chiral fermion systems *(6 pages)* L201401
Huaiyuan Yang, Yuelin Shao, Yuanfeng Xu, Xi Dai, and Xin-Zheng Li

Tuning the number of chiral edge channels in a fixed quantum anomalous Hall system *(7 pages)* L201402
Peng Deng, Yulei Han, Peng Zhang, Su Kong Chong, Zhenhua Qiao, and Kang L. Wang

Colossal layer Nernst effect in twisted moiré layers *(6 pages)* L201403
Jin-Xin Hu, Chuanchang Zeng, and Yugui Yao

Gapless superconducting state and mirage gap in altermagnets *(7 pages)* L201404
Miaomiao Wei, Longjun Xiang, Fuming Xu, Lei Zhang, Gaomin Tang, and Jian Wang

(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 20 *CONTENTS* **MAY 2024-15(II)**

LETTERS

Electronic structure and strongly correlated systems

Nature of the photoinduced metallic state in monoclinic VO_2 *(7 pages)* L201101
Jiyu Chen, Francesco Petocchi, Viktor Christiansson, and Philipp Werner

Phase transitions and scale invariance in topological Anderson insulators *(7 pages)* L201102
Bryan D. Assunção, Gerson J. Ferreira, and Caio H. Lewenkopf

Realization of nodal-ring semimetal in pressurized black phosphorus *(6 pages)* L201103
Kazuto Akiba, Yuichi Akahama, Masashi Tokunaga, and Tatsuo C. Kobayashi

Generation of gauge magnetic fields in a kagome spin liquid candidate using the Dzyaloshinskii-Moriya interaction *(6 pages)* L201104
Byungmin Kang and Patrick A. Lee

Manipulating topological quantum phase transitions of Kitaev's quantum spin liquids with electric fields *(6 pages)* L201105
Pureum Noh, Kyusung Hwang, and Eun-Gook Moon

Optical anisotropy of the kagome magnet FeSn: Dominant role of excitations between kagome and Sn layers *(7 pages)* L201106
J. Ebad-Allah, M.-C. Jiang, R. Borkenhagen, F. Meggle, L. Prodan, V. Tsurkan, F. Schilberth, G.-Y. Guo, R. Arita, I. Kézsmárki, and C. A. Kuntscher

Geometric semimetals and their simulation in synthetic matter *(8 pages)* L201107
Yu-Ping Lin and Giandomenico Palumbo

Origin of incommensurate magnetic order in the *R*AlSi magnetic Weyl semimetals (R = Pr, Nd, Sm) *(7 pages)* L201108
Juba Bouaziz, Gustav Bihlmayer, Christopher E. Patrick, Julie B. Staunton, and Stefan Blügel

Creation and manipulation of higher-order topological states by altermagnets *(7 pages)* L201109
Yu-Xuan Li, Yichen Liu, and Cheng-Cheng Liu

Manipulating vortices with domain walls in superconductor-ferromagnet heterostructures *(7 pages)* L201110
Sebastián A. Díaz, Jonas Nothhelfer, Kjetil M. D. Hals, and Karin Everschor-Sitte

Population inversion and ultrafast terahertz nonlinearity of transient Dirac fermions in Cd_3As_2 *(6 pages)* L201111
Changqing Zhu, Patrick Pilch, Renato M. A. Dantas, Anneke Reinold, Yunkun Yang, Faxian Xiu, Amilcar Bedoya-Pinto, Stuart S. P. Parkin, Roderich Moessner, and Zhe Wang

Boundary-deconfined quantum criticality at transitions between symmetry-protected topological chains *(7 pages)* L201112
Saranesh Prembabu, Ryan Thorngren, and Ruben Verresen

(Continued)

2469-9950(20240515)109:20;1-F

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).