PHYSICAL REVIEW B **THIRD SERIES, VOLUME 109, NUMBER 12** **MARCH 2024-15(II)**

Atomically precise step grids for the engineering of helical states *(10 pages)* 125427
J. Enrique Ortega, Guillaume Vasseur, Frederik Schiller, Ignacio Piquero-Zulaica, Andrew P. Weber, Julien Rault, Miguel Angel Valbuena, Stefano Schirone, Sonia Matencio, Leonid A. Sviatkin, Daria V. Terenteva, Yury M. Koroteev, Evgueni V. Chulkov, Aitor Mugarza, and Jorge Lobo-Checa

Unconventional optical response in monolayer graphene due to dominant intraband scattering *(7 pages)* 125428
Palash Saha and Bala Murali Krishna Mariserla

Near-field radiative heat transfer between nonpolar epsilon-near-zero dielectric-filled Si gratings *(12 pages)* 125430
Gui-Cheng Cui, Cheng-Long Zhou, Yong Zhang, and Hong-Liang Yi

Inhomogeneous and nonlocal optical response in magic-angle twisted trilayer graphene *(9 pages)* 125431
Chao Ding, Yueheng Du, and Mingwen Zhao

Dual semi-Dirac cones in three-dimensional photonic crystals *(10 pages)* 125432
Mingyan Li, Ran Mei, Dongyang Yan, Zhikai Ma, Fang Cao, Yadong Xu, Changqing Xu, and Jie Luo

Propagation of focused scalar and vector vortex beams in anisotropic media: A semianalytical approach *(13 pages)* 125433
Vittorio Aita, Mykyta Shevchenko, Francisco J. Rodríguez-Fortuño, and Anatoly V. Zayats

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 12** **MARCH 2024-15(II)**

Braiding-based quantum control of a Majorana qubit built from quantum dots *(14 pages)* 125410
Péter Boross and András Pályi

Giant Goos-Hänchen shifts with high reflection driven by Fabry-Perot quasibound states in the continuum in double-layer gratings *(11 pages)* 125411
Feng Wu, Tingting Liu, Ma Luo, Hongju Li, and Shuyuan Xiao

Heat radiation and transfer for nanoparticles in the presence of a cylinder *(16 pages)* 125412
Kiryl Asheichyk and Matthias Krüger

Two-dimensional Janus *1T*-Cr*XY* (X = S, Se, Te, Y = F, Cl, Br, I): Multifunctional ferromagnetic semiconductor with large valley and piezoelectric polarizations *(10 pages)* 125413
Jianke Tian, Jia Li, Hengbo Liu, Yan Li, and Junjie Shi

Insights into the origin of multiferroicity and large in-plane piezoelectricity in Al*XY* (X = S, Se; Y = Cl, Br, I) monolayers *(14 pages)* 125414
Nilakantha Tripathy and Abir De Sarkar

Topologically protected subdiffusive transport in two-dimensional fermionic wires *(11 pages)* 125415
Junaid Majeed Bhat

Electrically controlled charge qubit in van der Waals heterostructures: From *ab initio* calculation to tight-binding models *(15 pages)* 125416
Gusthavo M. S. Brizolla, A. J. Chaves, L. K. Teles, I. Guilhon, and J. M. Pereira Junior

Optical orientation of excitons in hybrid metal-semiconductor nanostructures *(8 pages)* 125418
A. V. Korotchenkov and N. S. Averkiev

Detection of the chirality of twisted bilayer graphene by the optical absorption *(6 pages)* 125419
Xin-Miao Qiu, Ning Yang, Weidong Chu, and Jie-Yun Yan

Non-Hermitian second-order topological superconductors *(8 pages)* 125420
Xiang Ji, Wenchen Ding, Yuanping Chen, and Xiaosen Yang

Prediction for an intrinsic ferrovalley semiconductor in a Janus 2*H*-CeBrCl monolayer with a high Curie temperature and perpendicular magnetic anisotropy *(10 pages)* 125421
Yankai Chen, Xiaosong Zhao, and Yukai An

Microscopic understanding of the in-plane thermal transport properties of 2*H* transition metal dichalcogenides *(14 pages)* 125422
Roberta Farris, Olle Hellman, Zeila Zanolli, David Saleta Reig, Sebin Varghese, Pablo Ordejón, Klaas-Jan Tielrooij, and Matthieu Jean Verstraete

Design monolayer iodinenes based on halogen bond and tiling theory *(7 pages)* 125423
Kejun Yu, Yichen Liu, Botao Fu, Run-Wu Zhang, Da-shuai Ma, Xiao-ping Li, Zhi-Ming Yu, Cheng-Cheng Liu, and Yugui Yao

Topological and superconducting properties of two-dimensional $C_{6-2x}(BN)_x$ biphenylene network: First-principles investigation *(10 pages)* 125424
Guang F. Yang, Hong X. Song, Dan Wang, Hao Wang, and Hua Y. Geng

Voltage-controlled extraordinary optical transmission in the visible regime *(9 pages)* 125425
Hira Asif, Alpan Bek, Mehmet Emre Tasgin, and Ramazan 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 109, NUMBER 12** **MARCH 2024-15(II)**

Microwave hinge states in a simple cubic lattice photonic crystal insulator *(7 pages)* 125304
Shun Takahashi, Yuya Ashida, Huyen Thanh Phan, Kenichi Yamashita, Tetsuya Ueda, Katsunori Wakabayashi, and Satoshi Iwamoto

Unveiling the chirality of the quantum anomalous Hall effect *(7 pages)* 125305
Hongyu Chen, Yuanjun Jin, Mohammad Yahyavi, Ilya Belopolski, Sen Shao, Tao Hou, Naizhou Wang, Chia-Hsiu Hsu, Yilin Zhao, Bo Yang, Qiong Ma, Jia-Xin Yin, Su-Yang Xu, Wei-bo Gao, and Guoqing Chang

Tailoring photoluminescence in MoSSe alloys through gold nanostructure coupling: Influence of midgap states and localized surface-plasmon resonance *(9 pages)* 125306
Chumki Nayak, Suvadip Masanta, Sanchi Monga, Swastik Paul, Souhardya Bera, Shibshankar Mondal, Saswata Bhattacharya, and Achintya Singha

Occupancy-driven Zeeman suppression and inversion in trapped polariton condensates *(11 pages)* 125307
Krzysztof Sawicki, Dmitriy Dovzhenko, Yuan Wang, Tamsin Cookson, Helgi Sigurðsson, and Pavlos G. Lagoudakis

Theory of interlayer exciton dynamics in two-dimensional transition metal dichalcogenide heterolayers under the influence of strain reconstruction and disorder *(15 pages)* 125308
Marten Richter

Surface physics, nanoscale physics, low-dimensional systems

Experimental demonstration of a two-dimensional hole gas in a GaN/AlGaN/GaN based heterostructure by optical spectroscopy *(11 pages)* 125401
Loïc Méchin, François Médard, Joël Leymarie, Sophie Bouchoule, Jean-Yves Duboz, Blandine Alloing, Jesús Zuñiga-Pérez, and Pierre Disseix

Probing the exciton condensate via shot noise spectroscopy in superconducting hybrid structures based on excitonic insulators *(8 pages)* 125402
Biao Wu and Hai Li

Spin transport study in a disordered-metal/ferromagnetic-insulator heterostructure based on full counting statistics within the coherent potential approximation *(9 pages)* 125403
Gaoyang Li and Jian Wang

Evolution from quantum anomalous Hall insulator to heavy-fermion semimetal in magic-angle twisted bilayer graphene *(12 pages)* 125404
Cheng Huang, Xu Zhang, Gaopei Pan, Heqiu Li, Kai Sun, Xi Dai, and Zi Yang Meng

Understanding disorder in silicon quantum computing platforms: Scattering mechanisms in Si/SiGe quantum wells *(19 pages)* 125405
Yi Huang and Sankar Das Sarma

Magnetointerferometry of multiterminal Josephson junctions *(15 pages)* 125406
Régis Mélin, Clemens B. Winkelmann, and Romain Danneau

Coherence-enhanced thermodynamic performance in a periodically driven inelastic heat engine *(11 pages)* 125407
Jincheng Lu, Zi Wang, Jie Ren, Chen Wang, and Jian-Hua Jiang

Nonlinear magnetotransport in $MoTe_2$ *(6 pages)* 125408
A. C. Marx, H. Jafari, E. K. Tekelenburg, M. A. Loi, J. Sławińska, and M. H. D. Guimarães

(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 12** **MARCH 2024-15(II)**

Strong-coupling topological states and phase transitions in helical trilayer graphene *(19 pages)* 125141
Yves H. Kwan, Patrick J. Ledwith, Chiu Fan Bowen Lo, and Trithep Devakul

Symbolic determinant construction of perturbative expansions *(9 pages)* 125143
Ibsal Assi and J. P. F. LeBlanc

Variational Monte Carlo approach for the Hubbard model applied to twisted bilayer WSe_2 at half-filling *(10 pages)* 125144
A. Biborski, P. Wójcik, and M. Zegrodnik

Topological Anderson insulating phases in the interacting Haldane model *(8 pages)* 125145
João S. Silva, Eduardo V. Castro, Rubem Mondaini, María A. H. Vozmediano, and M. Pilar López-Sancho

Chiral spin liquid and quantum phase diagram of spin-$\frac{1}{2}$ J_1-J_2-J_χ model on the square lattice *(15 pages)* 125146
Xiao-Tian Zhang, Yixuan Huang, Han-Qing Wu, D. N. Sheng, and Shou-Shu Gong

Effect of Cd- and Sn-doping in $CeCoIn_5$ on the hybridization gap and f-electron amplitude studied with infrared spectroscopy *(9 pages)* 125147
Myounghoon Lee, Yu-Seong Seo, Seulki Roh, Seokbae Lee, Jihyun Kim, Tuson Park, and Jungseek Hwang

Measurement-induced phase transitions in the toric code *(13 pages)* 125148
Amir-Reza Negari, Subhayan Sahu, and Timothy H. Hsieh

Operator growth hypothesis in open quantum systems *(10 pages)* 125149
N. S. Srivatsa and Curt von Keyserlingk

Dynamics of vacancy-induced modes in the non-Abelian Kitaev spin liquid *(14 pages)* 125150
Wen-Han Kao, Gábor B. Halász, and Natalia B. Perkins

Semiconductors I: bulk

Photonic spin-controlled self-hybridized exciton-polaritons in WS_2 metasurfaces driven by chiral quasibound states in the continuum *(9 pages)* 125201
Hongmiao Zhou, Meng Qin, Hangsheng Xu, Gangao Wei, Hongju Li, Weiqing Gao, Jianqiang Liu, and Feng Wu

Absence of Weyl nodes in $EuCd_2As_2$ revealed by the carrier density dependence of the anomalous Hall effect *(9 pages)* 125202
Yue Shi, Zhaoyu Liu, Logan A. Burnett, Seokhyeong Lee, Chaowei Hu, Qianni Jiang, Jiaqi Cai, Xiaodong Xu, Mo Li, Cheng-Chien Chen, and Jiun-Haw Chu

Uncovering the important role of transverse acoustic phonons in the carrier-phonon scattering in silicon *(23 pages)* 125203
Qiao-Lin Yang, Wu Li, Zhi Wang, Fan-long Ning, and Jun-Wei Luo

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

Non-Hermitian dispersion sign reversal of radiative resonances in two dimensions *(7 pages)* 125301
R. Binder, J. R. Schaibley, and N. H. Kwong

Moiré fractals in twisted graphene layers *(15 pages)* 125302
Deepanshu Aggarwal, Rohit Narula, and Sankalpa Ghosh

Four-dimensional Floquet topological insulator with an emergent second Chern number *(9 pages)* 125303
Zheng-Rong Liu, Rui Chen, and Bin Zhou

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 109, NUMBER 12** **MARCH 2024-15(II)**

Diagrammatic Monte Carlo for dissipative quantum impurity models *(17 pages)* 125125
Matthieu Vanhoecke and Marco Schirò

Detection of a two-phonon mode in a cuprate superconductor via polarimetric resonant inelastic x-ray scattering *(6 pages)* 125126
K. Scott, E. Kisiel, F. Yakhou, S. Agrestini, M. Garcia-Fernandez, K. Kummer, J. Choi, R. D. Zhong, J. A. Schneeloch, G. D. Gu, Ke-Jin Zhou, N. B. Brookes, A. F. Kemper, M. Minola, F. Boschini, A. Frano, A. Gozar, and E. H. da Silva Neto

Delocalization in a partially disordered interacting many-body system *(12 pages)* 125127
Suman Mondal and Fabian Heidrich-Meisner

Effect of trivial bands on chiral anomaly induced longitudinal magnetoconductivity in Weyl semimetals *(14 pages)* 125128
Jeonghyeon Suh and Hongki Min

Field-induced electric polarization and elastic softening caused by parity-mixed *d*-*p* hybridized states with electric multipoles in $Ba_2CuGe_2O_7$ *(26 pages)* 125129
R. Kurihara, Y. Sato, A. Miyake, M. Akaki, K. Mitsumoto, M. Hagiwara, H. Kuwahara, and M. Tokunaga

Ferroelectric topological superconductor: α-In_2Se_3 *(8 pages)* 125130
Xiaoming Zhang, Pei Zhao, and Feng Liu

Strong-coupling theory of quantum-dot Josephson junctions: Role of a residual quasiparticle *(8 pages)* 125131
Luka Pavešić, Ramón Aguado, and Rok Žitko

Localization renormalization and quantum Hall systems *(10 pages)* 125132
Bartholomew Andrews, Dominic Reiss, Fenner Harper, and Rahul Roy

Comparison of interband related optical transitions and excitons in $ZnGeN_2$ and GaN *(11 pages)* 125133
Ozan Dernek and Walter R. L. Lambrecht

Revisiting the Vashishta-Singwi dielectric scheme for the warm dense uniform electron fluid *(22 pages)* 125134
Panagiotis Tolias, Federico Lucco Castello, Fotios Kalkavouras, and Tobias Dornheim

Scattering theory of mesons in doped antiferromagnetic Mott insulators: Multichannel perspective and Feshbach resonance *(22 pages)* 125135
Lukas Homeier, Pit Bermes, and Fabian Grusdt

Mott insulating states of the anisotropic SU(4) Dirac fermions *(7 pages)* 125136
Han Xu, Yu Wang, Zhichao Zhou, and Congjun Wu

Dynamical spectral response of fractonic quantum matter *(10 pages)* 125137
Philip Zechmann, Julian Boesl, Johannes Feldmeier, and Michael Knap

Symmetric improved estimators for multipoint vertex functions *(32 pages)* 125138
Jae-Mo Lihm, Johannes Halbinger, Jeongmin Shim, Jan von Delft, Fabian B. Kugler, and Seung-Sup B. Lee

Doped Mott-Hubbard materials with a low quasiparticle transparency *(8 pages)* 125139
V. A. Gavrichkov

Ultrafast optical polarimetry in magnetic phases of the Kondo semimetal CeSb *(11 pages)* 125140
M. Naseska, N. D. Zhigadlo, Z. Jagličić, E. Goreshnik, and T. Mertelj

(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 12** **MARCH 2024-15(II)**

Nonclassical light generation and control from laser-driven semiconductor intraband excitations *(8 pages)* 125110
Ivan Gonoskov, René Sondenheimer, Christian Hünecke, Daniil Kartashov, Ulf Peschel, and Stefanie Gräfe

Quantum Hall effect in topological Dirac semimetals modulated by the Lifshitz transition of the Fermi arc surface states *(7 pages)* 125111
Tao-Rui Qin, Zhuo-Hua Chen, Tian-Xing Liu, Fu-Yang Chen, Hou-Jian Duan, Ming-Xun Deng, and Rui-Qiang Wang

Large anomalous Hall and Nernst effects in the ferromagnetic semimetal candidate Mn_3Sn_2 *(8 pages)* 125112
Jianli Bai, Qingxin Dong, Binbin Ruan, Libo Zhang, Qiaoyu Liu, Jingwen Cheng, Pinyu Liu, Cundong Li, Yingrui Sun, Yu Huang, Zhian Ren, and Genfu Chen

Absence of strong magnetic fluctuations or interactions in the normal state of $LaNiGa_2$ *(8 pages)* 125113
P. Sherpa, I. Vinograd, Y. Shi, S. A. Sreedhar, C. Chaffey, T. Kissikov, M.-C. Jung, A. S. Botana, A. P. Dioguardi, R. Yamamoto, M. Hirata, G. Conti, S. Nemsak, J. R. Badger, P. Klavins, I. Vishik, V. Taufour, and N. J. Curro

Stress-induced multiple quantum phase transitions in the $B1$ and $B2$ phases of CeN *(8 pages)* 125114
Min Liu and Yuanji Xu

Electron spin resonance spectroscopic evidence of the transition to a spin-singlet state in the monomer Mott insulator (BEDT-TTF)$Cu[N(CN)_2]_2$ *(8 pages)* 125115
Muhammad Khalish Nuryadin, Yugo Oshima, Naoki Yoneyama, Satoshi Iguchi, and Takahiko Sasaki

Incommensurate charge density wave order in U_2Ti *(11 pages)* 125116
Callum R. Stevens, Andreas Hermann, Andrew Huxley, and Didier Wermeille

Dichotomy of metallic electron density and charge density wave in $1T$-$TiSe_2$ *(8 pages)* 125117
Dongjoon Jeong, Jimin Kim, Kyung-Hwan Jin, Jaeyoung Kim, and Han Woong Yeom

Anomalous Zeeman effect in $SrTiO_3$ and its possible all-electric detection *(8 pages)* 125118
Sergei Urazhdin

Absence of Ni^{2+}/Ni^{3+} charge disproportionation and possible roles of O $2p$ holes in $La_3Ni_2O_{7-\delta}$ revealed by hard x-ray photoemission spectroscopy *(5 pages)* 125119
D. Takegami, K. Fujinuma, R. Nakamura, M. Yoshimura, K.-D. Tsuei, G. Wang, N. N. Wang, J.-G. Cheng, Y. Uwatoko, and T. Mizokawa

Thermodynamics of the spin-$\frac{1}{2}$ Heisenberg antiferromagnet on the star lattice *(13 pages)* 125120
Adrien Reingruber, Nils Caci, Stefan Wessel, and Johannes Richter

Topological quantum chains protected by dipolar and other modulated symmetries *(19 pages)* 125121
Jung Hoon Han, Ethan Lake, Ho Tat Lam, Ruben Verresen, and Yizhi You

Time evolution of entanglement entropy after quenches in two-dimensional free fermion systems: A dimensional reduction treatment *(22 pages)* 125122
Shion Yamashika, Filiberto Ares, and Pasquale Calabrese

Nonadiabatic topological transfer in a nanomechanical phononic lattice *(10 pages)* 125123
Tian Tian, Han Cai, Liang Zhang, Yichuan Zhang, Chang-Kui Duan, and Jingwei Zhou

Graph theoretic analysis of three-terminal quantum dot thermocouples: Onsager relations and spin-thermoelectric effects *(18 pages)* 125124
Nikhil Gupt, Shuvadip Ghosh, and Arnab Ghosh

(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 12** **MARCH 2024-15(II)**

Dynamical Majorana Ising spin response in a topological superconductor–magnet hybrid by microwave irradiation *(5 pages)* L121405
Yuya Ominato, Ai Yamakage, and Mamoru Matsuo

Anomalous Hall effect in thin bismuth *(6 pages)* L121406
Oulin Yu, Sujatha Vijayakrishnan, R. Allgayer, T. Szkopek, and G. Gervais

Theory of weak localization in graphene with spin-orbit interaction *(5 pages)* L121407
L. E. Golub

In-plane exciton polaritons versus plasmon polaritons: Nonlocal corrections, confinement, and loss *(7 pages)* L121408
Yonatan Gershuni and Itai Epstein

ARTICLES

Electronic structure and strongly correlated systems

Driving and detecting topological phase transition in noncentrosymmetric systems via an all-optical approach *(9 pages)* 125101
Mengtong Yang, Xiaoyan Miao, Si Li, Jian Zhou, and Chunmei Zhang

Quantum many-body scar models in one-dimensional spin chains *(11 pages)* 125102
Jia-Wei Wang, Xiang-Fa Zhou, Guang-Can Guo, and Zheng-Wei Zhou

Variational Monte Carlo approach to the SU(4) spin-orbital model on the triangular lattice *(11 pages)* 125103
Chun Zhang, Hui-Ke Jin, and Yi Zhou

Ground states of one-dimensional dipolar lattice bosons at unit filling *(6 pages)* 125104
Mateusz Łącki, Henning Korbmacher, Gustavo A. Domínguez-Castro, Jakub Zakrzewski, and Luis Santos

Photon mediated transport of energy, linear momentum, and angular momentum in fullerene and graphene systems beyond local equilibrium *(14 pages)* 125105
Jian-Sheng Wang and Mauro Antezza

Compound-tunable embedding potential method to model local electronic excitations on f-element ions in solids: Pilot relativistic coupled cluster study of Ce and Th impurities in yttrium orthophosphate, YPO_4 *(15 pages)* 125106
A. V. Oleynichenko, Y. V. Lomachuk, D. A. Maltsev, N. S. Mosyagin, V. M. Shakhova, A. Zaitsevskii, and A. V. Titov

Large unconventional anomalous Hall effect arising from spin chirality within domain walls of an antiferromagnet $EuZn_2Sb_2$ *(8 pages)* 125107
Karan Singh, Orest Pavlosiuk, Shovan Dan, Dariusz Kaczorowski, and Piotr Wiśniewski

Nonconventional screening of Coulomb interaction in two-dimensional semiconductors and metals: A comprehensive constrained random phase approximation study of MX_2 (M = Mo, W, Nb, Ta; X = S, Se, Te) *(20 pages)* 125108
H. R Ramezani, E. Şaşıoğlu, H. Hadipour, H. Rahimpour Soleimani, C. Friedrich, S. Blügel, and I. Mertig

Unveiling the electronic structure of the predicted topological superconductor $PbTaS_2$ *(8 pages)* 125109
Wenjuan Zhao, Jingjing Gao, Xin Liang, Giovanni Di Santo, Chunyao Song, Wenjian Lu, Xuan Luo, Yuping Sun, Guodong Liu, and Luca Petaccia

(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 12** **MARCH 2024-15(II)**

Anomalous Floquet Anderson insulator in a continuously driven optical lattice *(5 pages)* L121114
Arijit Dutta, Efe Sen, Jun-Hui Zheng, Monika Aidelsburger, and Walter Hofstetter

Intrinsic spin-orbit torque mechanism for deterministic all-electric switching of noncollinear antiferromagnets *(5 pages)* L121115
Yiyuan Chen, Z. Z. Du, Hai-Zhou Lu, and X. C. Xie

Semiconductors I: bulk

Isotope engineering of carrier mobility via Fröhlich electron-phonon interaction *(7 pages)* L121201
Wenjiang Zhou, Te-Huan Liu, and Bai Song

Self-energy corrections to zone-edge acoustic phonons in monolayer and bilayer WS_2 *(6 pages)* L121202
Qixing Wang, Yu Li Huang, Qi Zhang, Jiayu Ma, Xin Luo, and Yun-Mei Li

Electrical resistance associated with the scattering of optically oriented spin-polarized electrons in *n*-GaAs *(6 pages)* L121203
M. D. Ragoza, N. V. Kozyrev, S. V. Nekrasov, B. R. Namozov, Yu. G. Kusrayev, N. Bart, A. Ludwig, and A. D. Wieck

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

Topological superconductivity by engineering noncollinear magnetism in magnet/superconductor heterostructures: A realistic prescription for the two-dimensional Kitaev model *(8 pages)* L121301
Pritam Chatterjee, Sayan Banik, Sandip Bera, Arnob Kumar Ghosh, Saurabh Pradhan, Arijit Saha, and Ashis K. Nandy

Wigner-molecule supercrystal in transition metal dichalcogenide moiré superlattices: Lessons from the bottom-up approach *(7 pages)* L121302
Constantine Yannouleas and Uzi Landman

Coexistence of topological and normal insulating phases in electro-optically tuned InAs/GaSb bilayer quantum wells *(7 pages)* L121303
M. Meyer, T. Fähndrich, S. Schmid, A. Wolf, S. S. Krishtopenko, B. Jouault, G. Bastard, F. Teppe, F. Hartmann, and S. Höfling

Surface physics, nanoscale physics, low-dimensional systems

Hydrodynamics of electron-hole fluid photogenerated in a mesoscopic two-dimensional channel *(6 pages)* L121401
M. A. T. Patricio, G. M. Jacobsen, M. D. Teodoro, G. M. Gusev, A. K. Bakarov, and Yu. A. Pusep

Janus graphene: A two-dimensional half-auxetic carbon allotrope with a nonchemical Janus configuration *(6 pages)* L121402
Linfeng Yu, Jianhua Xu, Chen Shen, Hongbin Zhang, Xiong Zheng, Huimin Wang, Zhenzhen Qin, and Guangzhao Qin

Second-order topological states in a sixfold symmetric quasicrystal *(9 pages)* L121403
Yuzhong Hu, Songmin Liu, Baoru Pan, Pan Zhou, and Lizhong Sun

Direct measurement of spin-flip rates of a self-assembled InAs double quantum dot in single-electron tunneling *(6 pages)* L121404
Olfa Dani, Robert Hussein, Johannes C. Bayer, Klaus Pierz, Sigmund Kohler, and Rolf J. Haug

(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 12 ***CONTENTS*** **MARCH 2024-15(II)**

LETTERS

Electronic structure and strongly correlated systems

Pair density wave and $s \pm id$ superconductivity in a strongly coupled lightly doped Kondo insulator *(5 pages)* L121101
Fangze Liu and Zhaoyu Han

Interaction-mitigated Landau damping *(6 pages)* L121102
Xuepeng Wang, Roderich Moessner, and Debanjan Chowdhury

Driving mechanism and dynamic fluctuations of charge density waves in the kagome metal ScV_6Sn_6 *(7 pages)* L121103
Shuyuan Liu, Chongze Wang, Shichang Yao, Yu Jia, Zhenyu Zhang, and Jun-Hyung Cho

On the zero-field quantization of the anomalous quantum Hall effect in two-dimensional moiré layers *(6 pages)* L121104
Sankar Das Sarma and Ming Xie

Probing quantum criticality in ferromagnetic $CeRh_6Ge_4$ *(6 pages)* L121105
S. M. Thomas, S. Seo, T. Asaba, F. Ronning, P. F. S. Rosa, E. D. Bauer, and J. D. Thompson

Band mixing in the quantum anomalous Hall regime of twisted semiconductor bilayers *(6 pages)* L121107
Ahmed Abouelkomsan, Aidan P. Reddy, Liang Fu, and Emil J. Bergholtz

Berry curvature derived negative magnetoconductivity observed in type-II magnetic Weyl semimetal films *(6 pages)* L121108
Ayano Nakamura, Shinichi Nishihaya, Hiroaki Ishizuka, Markus Kriener, Mizuki Ohno, Yuto Watanabe, Masashi Kawasaki, and Masaki Uchida

Electronic polarization effects in core-level spectroscopy *(6 pages)* L121109
Iskander Mukatayev, Gabriele D'Avino, Benoît Sklénard, Valerio Olevano, and Jing Li

Effective gyration of polar vortex arrays controlled by high orbital angular momentum of light *(7 pages)* L121110
Lingyuan Gao, Sergei Prokhorenko, Yousra Nahas, and Laurent Bellaiche

Unconventional spin transport in strongly correlated kagome systems *(7 pages)* L121111
Masataka Kawano, Frank Pollmann, and Michael Knap

Molecular beam epitaxy synthesis and electrical transport properties of the correlated kagome metal Ni_3In *(6 pages)* L121112
Minyong Han, Caolan John, Jingxu Zheng, Shiang Fang, and Joseph G. Checkelsky

Ferromagnetic state with large magnetic moments realized in epitaxially strained $Sr_3Ru_2O_7$ films *(6 pages)* L121113
Ren Oshima, Tatsuto Hatanaka, Shinichi Nishihaya, Takuya Nomoto, Markus Kriener, Takahiro C. Fujita, Masashi Kawasaki, Ryotaro Arita, and Masaki Uchida

(Continued)

2469-9950(20240315)109:12;1-M

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).