

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 109, NUMBER 16

APRIL 2024-15(II)

Magneto-optical conductivity of monolayer transition metal dichalcogenides in the presence of proximity-induced exchange interaction and external electrical field (<i>14 pages</i>)	165441
Y. Li, Y. M. Xiao, W. Xu, L. Ding, M. V. Milošević, and F. M. Peeters	
Chains of atoms embedded into transition metal dichalcogenides as one-dimensional half-metallic magnets (<i>8 pages</i>)	165442
Francis H. Davies and Arkady V. Krasheninnikov	

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 109, NUMBER 16

APRIL 2024-15(II)

Making closed-shell lead pthalocyanine paramagnetic on Pb(100) (8 pages)	165426
Jan Homberg, Alexander Weismann, and Richard Berndt	
Josephson junction of nodal superconductors with a Rashba and Ising spin-orbit coupling (9 pages)	165427
Gal Cohen, Ranjani Seshadri, Maxim Khodas, and Dganit Meidan	
Probing type-II Ising pairing using the spin-mixing parameter (9 pages)	165428
Paulina Jureczko, Jozef Haniš, Paulo E. Faria Junior, Martin Gmitra, and Marcin Kurpas	
First-order effect of electron-electron interactions on the anomalous Hall conductivity of massive Dirac fermions (11 pages)	165429
A. Daria Dumitriu-I., Darius-A. Deaconu, Alexander E. Kazantsev, and Alessandro Principi	
Drift velocity of edge magnetoplasmons due to magnetic edge channels (11 pages)	165430
Alexey A. Sokolik and Yurii E. Lozovik	
Strictly one-dimensional behavior emerging from a dispersive two-dimensional system: Implications on metallic nanowires on semiconducting substrates (15 pages)	165431
Keshab Sony and Anas Abdelwahab	
Probing the electronic structure of bistable single-layer RbI structures on Ag(111) (8 pages)	165432
Benjamin W. McDowell, Jon M. Mills, Austin W. Green, Motoaki Honda, and George V. Nazin	
Spin-resolved Yu-Shiba-Rusinov states and bistable phase caused by side-coupled Majorana bound states in quantum-dot Josephson junctions (20 pages)	165433
Guang-Yu Yi, Meng-Ya Ma, Tong Gong, Cui Jiang, and Wei-Jiang Gong	
Topological protection of Majorana polaritons in a cavity (7 pages)	165434
Zeno Bacciconi, Gian Marcello Andolina, and Christophe Mora	
Stable phases of freestanding monolayer TiO ₂ : Emergence of out-of-plane ferroelectricity (6 pages)	165435
Xiangtian Bu, Haitao Liu, and Yuanchang Li	
Weakly interacting one-dimensional topological insulators: A bosonization approach (21 pages)	165436
Polina Matveeva, Dmitri Gutman, and Sam T. Carr	
Contact effects on electron transport along disordered borophene nanoribbons with line defects (16 pages)	165437
Pei-Jia Hu, Zeng-Ren Liang, Jia-Wen Sun, Tie-Feng Fang, Ai-Min Guo, and Qing-Feng Sun	
Vacancy-induced giant photogalvanic effect in TiSe ₂ heterojunctions (8 pages)	165438
Yuan Li, Xinyu Cheng, Ying Ding, Longfei Guo, Tianchen Wang, Gaofeng Xu, and Wu-Ming Liu	
Pseudospin-orbit coupling and non-Hermitian effects in the quantum geometric tensor of a plasmonic lattice (14 pages)	165439
Javier Cuerda, Jani M. Taskinen, Nicki Källman, Leo Grabitz, and Päivi Törmä	
Resonance energies and linewidths of Rydberg excitons in Cu ₂ O quantum wells (9 pages)	165440
Niklas Scheuler, Patric Rommel, Jörg Main, and Pavel A. Belov	

(Continued)

Giant enhanced stability of the quantum electron solid from a weakened electron-electron interaction in double-layer MoS ₂ (8 pages)	165412
S. T. Chui, Meizhen Huang, Zefei Wu, and Ning Wang	
Modulating phonon transport in bilayer black phosphorus: Unraveling the interplay of strain and interlayer quasicovalent bonds (9 pages)	165413
Rongkun Chen, Shiqian Hu, Weina Ren, and Chunhua Zeng	
Electro-optic properties from <i>ab initio</i> calculations in two-dimensional materials (10 pages)	165414
Zhijun Jiang, Hongjun Xiang, Laurent Bellaiche, and Charles Paillard	
Maximum plasmon thermal conductivity of a thin metal film (8 pages)	165415
Kuk Hyun Yun, Dong-min Kim, and Bong Jae Lee	
Solitons in binary compounds with stacked two-dimensional honeycomb lattices (27 pages)	165416
James H. Muten, Louise H. Frankland, and Edward McCann	
Spin-dependent hybridization of image-potential states and overlayer states: One monolayer of Tl on Ag(111) (8 pages)	165417
Sven Schemmelmann, Peter Krüger, Patrick Härtl, and Markus Donath	
Andreev reflections in black phosphorus based normal-superconducting junctions modulated by linearly polarized light (13 pages)	165418
Shu-Gang Chen, Xiangru Kong, Bin-Yuan Zhang, and Wei-Jiang Gong	
Emergent quasiperiodicity from polariton-phonon hybrid excitations in waveguide quantum optomechanics (12 pages)	165419
Han-Jie Zhu, Lin Zhuang, Xiao-Ming Zhao, Jin-Kui Zhao, Jian-Jun Zhang, Guo-Feng Zhang, and Wu-Ming Liu	
Perfect intrinsic and nonlinear chirality simultaneously driven by half-integer topological charge (10 pages)	165420
Shijie Cai, Jiafei Chen, Xiaoshan Liu, Guolan Fu, Guiqiang Liu, Jing Chen, Chaojun Tang, Wei Du, and Zhengqi Liu	
Ion irradiation induced crystalline disorder accelerates interfacial phonon conversion and reduces thermal boundary resistance (11 pages)	165421
Thomas W. Pfeifer, Henry Aller, Eric R. Hoglund, Ethan A. Scott, John A. Tomko, Habib Ahmad, Alan Doolittle, Ashutosh Giri, Khalid Hattar, Alan J. H. McGaughey, and Patrick E. Hopkins	
Coupled exciton internal and center-of-mass motions in two-dimensional semiconductors by a periodic electrostatic potential (9 pages)	165422
Fujia Lu, Qianying Hu, Yang Xu, and Hongyi Yu	
Quantum measurement spintronic engine powered by quantum coherence enhanced by bosonic catalysis (13 pages)	165423
Mathieu Lamblin and Martin Bowen	
Emerging spintronic and valleytronic phenomena in noncentrosymmetric variants of the Kane-Mele X ₄ Y ₂ Z ₆ materials family (X = Pt, Pd, Ni; Y = Hg, Zn, Cd; Z = S, Se, Te) (12 pages)	165424
Majeed Ur Rehman, Zia Ur Rahman, and Maryam Kiani	
Screened hydrogen model of excitons in semiconducting nanoribbons (8 pages)	165425
Cesar E. P. Villegas and Alexandre R. Rocha	

(Continued)

Energetic comparison of exciton gas versus electron-hole plasma in a bilayer two-dimensional electron-hole system (7 pages)	165307
Yi-Ting Tu, Seth M. Davis, and Sankar Das Sarma	
Manipulating corner states without topological phase transition in two-dimensional intrinsic triferroic materials (6 pages)	165308
Xiaoran Feng, Runhan Li, Zhiqi Chen, Ying Dai, Baibiao Huang, and Chengwang Niu	
Surface physics, nanoscale physics, low-dimensional systems	
Tunable topological defect states and single-quanta skyrmionic configurations in mesoscopic superconducting rectangular systems with spin-orbit interaction (11 pages)	165401
Rui-Feng Chai, Yue Xie, Ling-Feng Zhang, and Guo-Qiao Zha	
Dissipation-enhanced unidirectional transport in topological systems (9 pages)	165402
Ming Lu, Xue-Zhu Liu, Hailong Li, Zhi-Qiang Zhang, Jie Liu, and X. C. Xie	
Assessing quantum dot SWAP gate fidelity using tensor network methods (7 pages)	165403
Jacob R. Taylor, Nathan L. Foulk, and Sankar Das Sarma	
Transport-based fusion that distinguishes between Majorana and Andreev bound states (9 pages)	165404
Maximilian Nitsch, Rubén Seoane Souto, Stephanie Matern, and Martin Leijnse	
Dimension-dependent critical scaling analysis and emergent competing interaction scales in a two-dimensional van der Waals magnet $\text{Cr}_2\text{Ge}_2\text{Te}_6$ (10 pages)	165405
P. C. Mahato, Suprotim Saha, Bikash Das, Subhadeep Datta, Rajib Mondal, Sourav Mal, Ashish Garg, Prasenjit Sen, and S. S. Banerjee	
Topological phase transition between $\mathbb{Z}_2$ and second-order topological insulators in a kagome circuit (7 pages)	165406
Yating Yang, Xingyu Chen, Zhenhang Pu, Jien Wu, Xueqin Huang, Weiyin Deng, Jiuyang Lu, and Zhengyou Liu	
Spatially separated skin effect and edge states in one-dimensional semi-Su-Schrieffer-Heeger lattices (7 pages)	165407
Jia-Rui Li, Lian-Lian Zhang, Chen-Hao Zhao, Shu-Feng Zhang, Yu-Lian Zhu, and Wei-Jiang Gong	
Impact of dephasing on nonequilibrium steady-state transport in fermionic chains with long-range hopping (7 pages)	165408
Subhajit Sarkar, Bijay Kumar Agarwalla, and Devendra Singh Bhakuni	
Ultraviolet π -plasmon contribution to the transverse optical response of doped single-walled carbon nanotubes (9 pages)	165409
M. V. Shuba, G. Valušis, and V. A. Saroka	
Interlayer coupling modulated tunable magnetic states in superlattice $\text{MnBi}_2\text{Te}_4(\text{Bi}_2\text{Te}_3)_n$ topological insulators (11 pages)	165410
Jianfeng Guo, Huan Wang, Haoyan Zhang, Shuo Mi, Songyang Li, Haoyu Dong, Shiyu Zhu, Jiawei Hu, Xueyun Wang, Yanjun Li, Yasuhiro Sugawara, Rui Xu, Fei Pang, Wei Ji, Tianlong Xia, and Zhihai Cheng	
Hidden charge density wave induced shadow bands and ultrafast dynamics of CuTe investigated using time-resolved ARPES (7 pages)	165411
Haoyuan Zhong, Changhua Bao, Tianyun Lin, Fei Wang, Xuanxi Cai, Pu Yu, and Shuyun Zhou	

(Continued)

Beyond Drude transport in hydrodynamic metals (<i>15 pages</i>)	165153
Blaise Goutéraux and Ashish Shukla	
Correlation effects and concomitant two-orbital $s_{\pm}$ -wave superconductivity in $\text{La}_3\text{Ni}_2\text{O}_7$ under high pressure (<i>6 pages</i>)	165154
Yi-Heng Tian, Yin Chen, Jia-Ming Wang, Rong-Qiang He, and Zhong-Yi Lu	
Extremely large magnetoresistance and Shubnikov–de Haas oscillations in the topological nodal-line semimetal ZrP_2 (<i>9 pages</i>)	165155
Xingze Dai, Zhihao Li, Yongkang Xu, Yafeng Deng, Yilin Zhang, Pengfei Yan, Jin Wang, Shuanghai Wang, Kun He, Yao Li, Yongbing Xu, and Liang He	
Semiconductors I: bulk	
Beyond the Tamura model of phonon-isotope scattering (<i>10 pages</i>)	165201
Nakib H. Protik and Claudia Draxl	
Effects of correlations on triplet loss processes in organic phosphorescent emission layers: Accurate and fast master equation modeling (<i>13 pages</i>)	165202
M. Taherpour, C. van Hoesel, R. Coehoorn, and P. A. Bobbert	
Classical dynamics and semiclassical analysis of excitons in cuprous oxide (<i>15 pages</i>)	165203
Jan Ertl, Michael Marquardt, Moritz Schumacher, Patric Rommel, Jörg Main, and Manfred Bayer	
Role of localized electronic states in high-order harmonic generation from doped semiconductors (<i>10 pages</i>)	165204
Yuntian Zhang, Wei He, Liang Li, Hubin Cui, Sen Qiao, Pengfei Lan, and Peixiang Lu	
☞ Electronic band structure of Sb_2Te_3 (<i>11 pages</i>)	165205
I. Mohelsky, J. Wyzula, F. Le Mardelé, F. Abadizaman, O. Caha, A. Dubroka, X. D. Sun, C. W. Cho, B. A. Piot, M. F. Tanzim, I. Aguilera, G. Bauer, G. Springholz, and M. Orlita	
Semiconductors II: surfaces, interfaces, microstructures, and related topics	
Impact of coordinate frames on mode formation in twisted waveguides (<i>14 pages</i>)	165301
Johannes Bürger, Adrià Canós Valero, Thomas Weiss, Stefan A. Maier, and Markus A. Schmidt	
Ancilla-free scheme of deterministic topological quantum gates for Majorana qubits (<i>6 pages</i>)	165302
Su-Qi Zhang, Jian-Song Hong, Yuan Xue, Xun-Jiang Luo, Li-Wei Yu, Xiong-Jun Liu, and Xin Liu	
Incorporation of random alloy $\text{GaBi}_x\text{As}_{1-x}$ barriers in InAs quantum dot molecules: Alloy strain, orbital effects, and enhanced tunneling (<i>10 pages</i>)	165303
Arthur Lin, Matthew F. Doty, and Garnett W. Bryant	
Floquet modeling of surface-wave amplification in two-dimensional photonic time crystals (<i>10 pages</i>)	165304
Xin Ye, Yongge Wang, Jingfeng Yao, Ying Wang, Chengxun Yuan, and Zhongxiang Zhou	
Theory of optomechanical locking in driven-dissipative coupled polariton condensates (<i>18 pages</i>)	165305
I. A. Ramos-Pérez, I. Carraro-Haddad, F. Fainstein, D. L. Chafatinos, G. Usaj, G. B. Mindlin, A. Fainstein, and A. A. Reynoso	
Characterizing and mitigating timing-noise- induced decoherence in single-electron sources (<i>11 pages</i>)	165306
Sunguen Ryu, Rosa López, Llorenç Serra, David Sánchez, and Michael Moskalets	

(Continued)

☞ Filling-enforced obstructed atomic insulators (<i>7 pages</i>)	165139
Yuanfeng Xu, Luis Elcoro, Zhi-Da Song, M. G. Vergniory, Claudia Felser, Stuart S. P. Parkin, Nicolas Regnault, Juan L. Mañes, and B. Andrei Bernevig	
Non-Fermi liquid and Hund correlation in $\text{La}_4\text{Ni}_3\text{O}_{10}$ under high pressure (<i>8 pages</i>)	165140
Jing-Xuan Wang, Zhenfeng Ouyang, Rong-Qiang He, and Zhong-Yi Lu	
Disorder-induced topological transitions in a multilayer topological insulator (<i>11 pages</i>)	165141
Z. Z. Alisultanov and A. Kudlis	
Spin-lattice and spin-electronic interactions in the van der Waals semiconductor $\text{Co}_2\text{P}_2\text{S}_6$ (<i>12 pages</i>)	165142
Kiri Van Koughnet, Ben Mallett, Shen Chong, Benjamin S. Conner, Michael A. McGuire, Michael A. Susner, and Robert G. Buckley	
Possible gapless quantum spin liquid behavior in the triangular-lattice Ising antiferromagnet $\text{PrMgAl}_{11}\text{O}_{19}$ (<i>11 pages</i>)	165143
Zhen Ma, Shuhan Zheng, Yingqi Chen, Ruokai Xu, Zhao-Yang Dong, Jinghui Wang, Hong Du, Jan Peter Embs, Shuaiwei Li, Yao Li, Yongjun Zhang, Meifeng Liu, Ruidan Zhong, Jun-Ming Liu, and Jinsheng Wen	
Efficient treatment of relativistic effects with periodic density functional methods: Energies, gradients, and stress tensors (<i>22 pages</i>)	165144
Yannick J. Franzke, Werner M. Schosser, and Fabian Pauly	
Electron binding energy of donors in bilayer graphene with a gate-tunable gap (<i>10 pages</i>)	165145
E. V. Gorbar, V. P. Gusynin, D. O. Oriekhov, and B. I. Shklovskii	
Strontium ferrite under pressure: Potential analog to strontium ruthenate (<i>7 pages</i>)	165146
Azin Kazemi-Moridani, Sophie Beck, Alexander Hampel, A.-M. S. Tremblay, Michel Côté, and Olivier Gingras	
Three-dimensional flat band evolution between pyrochlore and perovskite lattices with enhanced anomalous Hall effect (<i>9 pages</i>)	165147
Minjun Wang, Wei Jiang, and Yugui Yao	
Interplay between strongly localized Eu <i>4f</i> and weakly localized Nb <i>4d</i> electrons in $\text{Eu}_3\text{Nb}_5\text{O}_{15}$ (<i>6 pages</i>)	165148
R. Nakamura, D. Takegami, A. Melendez-Sans, L. H. Tjeng, T. Miyoshino, K. Iwamoto, W. Sekino, M. Yoshimura, K.-D. Tsuei, T. Katsufuji, and T. Mizokawa	
String operators for Cheshire strings in topological phases (<i>8 pages</i>)	165149
Nathanan Tantivasadakarn and Xie Chen	
Delocalized low-frequency magnetoplasmon in a two-dimensional electron fluid with cylindrical symmetry (<i>7 pages</i>)	165150
I. Kostylev, M. Hatifi, D. Konstantinov, and A. D. Chepelianskii	
☞ Connecting the avoided quantum critical point to the magic-angle transition in three-dimensional Weyl semimetals (<i>11 pages</i>)	165151
J. H. Pixley, David A. Huse, and Justin H. Wilson	
Rationalization of near-infrared luminescence of bismuth ions in mixed oxides (<i>9 pages</i>)	165152
Chang Ji, Qiaoling Chen, Chang-Kui Duan, and Min Yin	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 109, NUMBER 16

APRIL 2024-15(II)

Local electronic excitations induced by low-velocity light ion stopping in tungsten (<i>9 pages</i>)	165123
Evgeniia Ponomareva, Eduardo Pitthan, Radek Holeňák, Jila Shams-Latifi, Glen Pádraig Kiely, Daniel Primetzhofer, and Andrea E. Sand	
Luminescence of iron ions in crystals: Site occupancy, valence states, and excited-state properties (<i>16 pages</i>)	165124
Qiaoling Chen, Chang Ji, and Chang-Kui Duan	
Three-dimensional $\mathcal{PT}$ -symmetric topological phases with a Pontryagin index (<i>19 pages</i>)	165125
Zory Davoyan, Wojciech J. Jankowski, Adrien Bouhon, and Robert-Jan Slager	
Multifold Weyl semimetals under irradiation: The particularity of singlet Weyl points (<i>9 pages</i>)	165126
Mou Yang, Hao-Bin Ding, Ming-Xun Deng, and Rui-Qiang Wang	
Edge theory of non-Hermitian skin modes in higher dimensions (<i>14 pages</i>)	165127
Kai Zhang, Zhesen Yang, and Kai Sun	
Observation of knot topology of exceptional points (<i>15 pages</i>)	165128
Wenhui Cao, Weixuan Zhang, and Xiangdong Zhang	
Real-space analysis of Hatsugai-Kohmoto interaction (<i>10 pages</i>)	165129
Jan Skolimowski	
Solving inverse problems using normalizing flow prior: Application to optical spectra (<i>8 pages</i>)	165130
Jun H. Park, Juyeob Lee, and Jungseek Hwang	
Frustration-induced itinerant ferromagnetism of fermions in optical lattices (<i>6 pages</i>)	165131
Chengshu Li, Ming-Gen He, Chang-Yan Wang, and Hui Zhai	
Instanton confinement-deconfinement transitions: Stability of pseudogap phases and topological order (<i>19 pages</i>)	165132
Predrag Nikolić	
Spin-phonon interactions on the kagome lattice: Dirac spin liquid versus valence-bond solids (<i>8 pages</i>)	165133
Francesco Ferrari, Federico Becca, and Roser Valentí	
Magnetic phases of electron-doped infinite-layer $\text{Sr}_{1-x}\text{La}_x\text{CuO}_2$ from first-principles density functional calculations (<i>10 pages</i>)	165134
Alpin N. Tatan, Jun Haruyama, and Osamu Sugino	
Nonequilibrium diagrammatic many-body simulations with quantics tensor trains (<i>12 pages</i>)	165135
Matthias Murray, Hiroshi Shinaoka, and Philipp Werner	
Single pair of charge-2 high-fold fermions with surface type-II Van Hove singularities in ultralight chiral crystals (<i>7 pages</i>)	165136
Xiaoliang Xiao, Yuanjun Jin, Da-Shuai Ma, Haoran Wei, Jing Fan, Rui Wang, and Xiaozhi Wu	
Unconventional Gross-Neveu quantum criticality: Interaction-induced $\text{SO}(3)$ -biadjoint insulator and emergent $\text{SU}(3)$ symmetry (<i>9 pages</i>)	165137
Shouryya Ray	
Origin of the intermediate-temperature magnetic specific heat capacity in the spin-liquid candidate $\text{Ca}_{10}\text{Cr}_7\text{O}_{28}$ (<i>6 pages</i>)	165138
Joe Crossley and Chris Hooley	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 109, NUMBER 16

APRIL 2024-15(II)

Superconducting transition temperatures of pure vanadium and vanadium-titanium alloys in the presence of dynamical electronic correlations (<i>11 pages</i>)	165107
D. Jones, A. Östlin, A. Weh, F. Beiușeanu, U. Eckern, L. Vitos, and L. Chioncel	
Chiral spin liquid phase in an optical lattice at mean-field level (<i>19 pages</i>)	165108
Jian Yang and Xiong-Jun Liu	
Magnetic field induced partially polarized chiral spin liquid in a transition metal dichalcogenide moiré system (<i>7 pages</i>)	165109
Yixuan Huang, D. N. Sheng, and Jian-Xin Zhu	
Dynamical characterization of $\mathbb{Z}_2$ Floquet topological phases via quantum quenches (<i>14 pages</i>)	165110
Lin Zhang	
Two-particle self-consistent approach for multiorbital models: Application to the Emery model (<i>14 pages</i>)	165111
C. Gauvin-Ndiaye, J. Leblanc, S. Marin, N. Martin, D. Lessnich, and A.-M. S. Tremblay	
Foliated field theories and multipole symmetries (<i>15 pages</i>)	165112
Hiromi Ebisu, Masazumi Honda, and Taiichi Nakanishi	
Real-time impurity solver using Grassmann time-evolving matrix product operators (<i>10 pages</i>)	165113
Ruofan Chen, Xiansong Xu, and Chu Guo	
Magnetotransport in spin-orbit coupled noncentrosymmetric and Weyl metals (<i>9 pages</i>)	165114
Gautham Varma K., Azaz Ahmad, Sumanta Tewari, and Gargee Sharma	
Electron screening and strength of long-range Coulomb interactions in black phosphorene: From bulk to nanoribbon (<i>13 pages</i>)	165115
Farshad Bagherpour, Saeed MahdaviFar, Elham Hosseini Lapasar, and Hanif Hadipour	
Strange metal and coherence-incoherence crossover in pressurized $\text{La}_3\text{Ni}_2\text{O}_7$ (<i>7 pages</i>)	165116
L. Craco and S. Leoni	
Weak and strong coupling properties of surface excitons (<i>7 pages</i>)	165117
Arpan Dutta and J. Jussi Toppari	
Topological properties of nearly flat bands in bilayer $\alpha - T_3$ lattice (<i>10 pages</i>)	165118
Puspita Parui, Sovan Ghosh, and Bheema Lingam Chittari	
Light polarons with electron-phonon coupling (<i>6 pages</i>)	165119
Chao Zhang	
Resonant inelastic x-ray scattering of the $J_{\text{eff}} = \frac{1}{2}$ Mott insulator Sr_2IrO_4 from density functional theory (<i>15 pages</i>)	165120
V. N. Antonov, D. A. Kukusta, and L. V. Bekenov	
High-order harmonic generation in graphene quantum dots in the field of an elliptically polarized pulse (<i>10 pages</i>)	165121
Suresh Gnawali and Vadym Apalkov	
Anomalous crossed Andreev reflection in nodal line semimetals (<i>8 pages</i>)	165122
Xiaohui Wang and Wei Luo	

(Continued)

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

Helical boundary modes from synthetic spin in a plasmonic lattice (7 pages)	L161301
Sang Hyun Park, Michael Sammon, E. J. Mele, and Tony Low	
Terahertz chiral subwavelength cavities breaking time-reversal symmetry via ultrastrong light-matter interaction (7 pages)	L161302
Johan Andberger, Lorenzo Graziotto, Luca Sacchi, Mattias Beck, Giacomo Scalari, and Jérôme Faist	

Surface physics, nanoscale physics, low-dimensional systems

Contact-driven deformation of metallic carbon nanotubes observed from an unconventional field effect (5 pages)	L161401
Igor Gayduchenko, Valery A. Prudkoglyad, and Alexander Kuntsevich	
Isolating the optical response of a MoS ₂ monolayer under extreme screening of a metal substrate (7 pages)	L161402
Tao Yang, Stephan Sleziona, Erik Pollmann, Eckart Hasselbrink, Peter Kratzer, Marika Schleberger, R. Kramer Campen, and Yujin Tong	
Emergence of flat bands in the quasicrystal limit of boron nitride twisted bilayers (6 pages)	L161403
Lorenzo Sponza, Van Binh Vu, Elisa Serrano Richaud, Hakim Amara, and Sylvain Latil	
Even-odd effect on robustness of Majorana edge states in short Kitaev chains (5 pages)	L161404
Motohiko Ezawa	

ARTICLES

Electronic structure and strongly correlated systems

<i>Ab initio</i> study of the energy competition between Γ and K valleys in bilayer transition metal dichalcogenides (10 pages)	165101
Sam Olin, Erekle Jmukhadze, Allan H. MacDonald, and Wei-Cheng Lee	
Half-filled extended Hubbard model on a square lattice: Phase boundaries from determinant quantum Monte Carlo simulations (12 pages)	165102
Sebastião dos Anjos Sousa-Júnior, Natanael C. Costa, and Raimundo R. dos Santos	
Bridging Rokhsar-Kivelson type and generic quantum phase transitions via thermofield double states (10 pages)	165103
Wen-Tao Xu, Rui-Zhen Huang, and Guang-Ming Zhang	
Phase stability and band degeneracy of quasi-one-dimensional boron chain polymorphs embedded in LiB crystals (14 pages)	165104
Takeru Nakashima, Ikuma Tateishi, Yuki Tsujikawa, Masafumi Horio, Takahiro Kondo, Iwao Matsuda, and Yasunobu Ando	
Off-stoichiometric effect on magnetic and electron transport properties of Fe ₂ VAl _{1.35} and Ni ₂ VAl: A comparative study (19 pages)	165105
A. Ślębarski, M. Fijałkowski, J. Deniszczuk, M. M. Maška, and D. Kaczorowski	
Incremental SWAP operator for entanglement entropy: Application for exponential observables in quantum Monte Carlo simulation (8 pages)	165106
Xuan Zhou, Zi Yang Meng, Yang Qi, and Yuan Da Liao	

(Continued)

LETTERS

Electronic structure and strongly correlated systems

- Strongly enhanced nonlinear acoustic valley Hall effect in tilted Dirac materials (*6 pages*) L161101
Jia-Liang Wan, Ying-Li Wu, Ke-Qiu Chen, and Xiao-Qin Yu
- Quantum simulation of a honeycomb lattice model by high-order moiré pattern (*8 pages*) L161102
Qiang Wan, Chunlong Wu, Xun-Jiang Luo, Shenghao Dai, Cao Peng, Renzhe Li, Shangkun Mo, Keming Zhao, Wen-Xuan Qiu, Hao Zhong, Yiwei Li, Chendong Zhang, Fengcheng Wu, and Nan Xu
- Absence of spin liquid phase in the $J_1 - J_2$ Heisenberg model on the square lattice (*7 pages*) L161103
Xiangjian Qian and Mingpu Qin
- Dynamical localization and slow dynamics in quasiperiodically driven quantum systems (*8 pages*) L161104
Vatsana Tiwari, Devendra Singh Bhakuni, and Auditya Sharma
- Anisotropic optical conductivity accompanied by a small energy gap in the one-dimensional thermoelectric telluride Ta_4SiTe_4 (*6 pages*) L161105
Fumiya Matsunaga, Yoshihiko Okamoto, Yasunori Yokoyama, Kanji Takehana, Yasutaka Imanaka, Yuto Nakamura, Hideo Kishida, Shoya Kawano, Kazuyuki Matsuhira, and Koshi Takenaka
- Signatures of parafermion zero modes in fractional quantum Hall–superconductor heterostructures (*6 pages*) L161106
Junyi Cao, Angela Kou, and Eduardo Fradkin
- Topological interfaces of Luttinger liquids (*6 pages*) L161107
Ananda Roy and Hubert Saleur
- Elastic computational metasurfaces for subwavelength differentiations (*6 pages*) L161108
Guangyuan Su, Zongliang Du, and Yongquan Liu
- Long-living prethermalization in nearly integrable spin ladders (*6 pages*) L161109
J. Pawłowski, M. Panfil, J. Herbrych, and M. Mierzejewski
- Influence of topological degeneracy on the boundary Berezinskii-Kosterlitz-Thouless quantum phase transition of a dissipative resonant level (*7 pages*) L161110
Gu Zhang, Zhan Cao, and Dong E. Liu
- Quantum geometric bound and ideal condition for Euler band topology (*7 pages*) L161111
Soonhyun Kwon and Bohm-Jung Yang
- Dynamical separation of charge and energy transport in one-dimensional Mott insulators (*7 pages*) L161112
Frederik Møller, Botond C. Nagy, Márton Kormos, and Gábor Takács



(Continued)



2469-9950(20240415)109:16;1-F