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 110, NUMBER 2 *CONTENTS* **JULY 2024-1(II)**

LETTERS

Structure, structural phase transitions, mechanical properties, defects

Bending immunity in valley edge states and non-Hermitian supercoupling effects *(6 pages)* L020101
Tianyuan Liu, Wei Yan, and Min Qiu

Genuine and faux single *G* centers in carbon-implanted silicon *(5 pages)* L020102
Alrik Durand, Yoann Baron, Félix Cache, Tobias Herzig, Mario Khoury, Sébastien Pezzagna, Jan Meijer, Jean-Michel Hartmann, Shay Reboh, Marco Abbarchi, Isabelle Robert-Philip, Jean-Michel Gérard, Vincent Jacques, Guillaume Cassabois, and Anaïs Dréau

Pseudo-one-dimensional ribbon chain cluster realized under high pressure in 1T-VSe_2 *(6 pages)* L020103
T. Hara, N. Katayama, S. Kitou, K. Kojima, S. Kawaguchi, and H. Sawa

Non-Abelian permutations meet D_4 group in a four-state non-Hermitian system *(7 pages)* L020104
Linsheng Bao, Aoqian Shi, Yuchen Peng, Peng Peng, Jiayun Ning, Zhennan Wang, Chao Peng, and Jianjun Liu

Inhomogeneous, disordered, and partially ordered systems

Effective Luttinger parameter and Kane-Fisher effect in quasiperiodic systems *(7 pages)* L020201
T. J. Vongkovit, Hansveer Singh, Romain Vasseur, and Sarang Gopalakrishnan

Dynamics, dynamical systems, lattice effects:

Bipartite mutual information in classical many-body dynamics *(6 pages)* L020301
Andrea Pizzi and Norman Y. Yao

Realizing nontrivial doublon formation using a quantum computer *(7 pages)* L020302
Biswajit Paul and Tapan Mishra

Peltier effect of phonons driven by electromagnetic waves *(6 pages)* L020303
Hiroaki Ishizuka and Masahiro Sato

Unveiling the hybridization process in a weakly hybridized ferromagnet by ultrafast optical spectroscopy *(6 pages)* L020304
S. R. Yang, Y. H. Pei, B. Wang, K. Hu, Q. Y. Chen, and J. Qi

Mechanisms of scrambling and unscrambling of quantum information in the ground state in spin chains: Domain walls, spin flips, and scattering phase shifts *(6 pages)* L020305
Samudra Sur and Diptiman Sen

(Continued)

2469-9950(20240701)110:2;1-I

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 110, NUMBER 2** **JULY 2024-1(II)**

Physical theory of two-stage thermalization *(6 pages)* L020306
Cheryne Jonay and Tianci Zhou

Magnetism

Ising fracton spin liquid on the honeycomb lattice *(5 pages)* L020401
Benedikt Placke, Owen Benton, and Roderich Moessner

Classification of classical spin liquids: Typology and resulting landscape *(6 pages)* L020402
Han Yan (闫寒), Owen Benton, Roderich Moessner, and Andriy H. Nevidomskyy

Robust magnetism and phase transitions in ultrathin Na_2IrO_3 flakes *(6 pages)* L020403
Deepak K. Roy and Mukul Kabir

Giant enhancement of magnon transport by superconductor Meissner screening *(7 pages)* L020404
Xi-Han Zhou, Xiyin Ye, Lihui Bai, and Tao Yu

Earthquakelike dynamics in ultrathin magnetic films *(5 pages)* L020405
Gianfranco Durin, Vincenzo Maria Schimmenti, Marco Baiesi, Arianna Casiraghi, Alessandro Magni, Liza Herrera-Diez, Dafiné Ravelosona, Laura Foini, and Alberto Rosso

Evidence of random spin-singlet state in the three-dimensional quantum spin liquid candidate $Sr_3CuNb_2O_9$ *(6 pages)* L020406
S. M. Hossain, S. S. Rahaman, H. Gujrati, Dilip Bhoi, A. Matsuo, K. Kindo, M. Kumar, and M. Majumder

Chiral orbital texture in nonlinear electrical conduction *(6 pages)* L020407
Suguru Okumura, Ryutaro Tanaka, and Daichi Hirobe

Predicted multiple Walker breakdowns for current-driven domain wall motion in antiferromagnets *(6 pages)* L020408
Mu-Kun Lee, Rubén M. Otxoa, and Masahito Mochizuki

Direct observation of strong t_{2g}-e_g orbital hybridization and effects of f orbitals in a molecular analogue of chromium perovskite *(7 pages)* L020409
Mian Wang, Chengzhi Li, Xiang-Guo Li, and Yanglong Hou

Superfluidity and superconductivity

Impact of rotational symmetry breaking on d-wave superconductivity in Hubbard models for cuprate and nickelate superconductors *(8 pages)* L020501
Hongdao Zhuge, Liang Si, and Mi Jiang

Second dome of superconductivity in $YBa_2Cu_3O_7$ at high pressure *(6 pages)* L020502
Johannes Nokelainen, Matthew E. Matzelle, Christopher Lane, Nabil Atlam, Ruiqi Zhang, Robert S. Markiewicz, Bernardo Barbiellini, Jianwei Sun, and Arun Bansil

℘ Spin fluctuations in the ultranodal superconducting state of Fe(Se,S) *(7 pages)* L020503
Yifu Cao, Chandan Setty, Andreas Kreisel, Laura Fanfarillo, and P. J. Hirschfeld

Josephson quantum mechanics at odd parity *(5 pages)* L020504
Manuel Houzet, Julia S. Meyer, and Yuli V. Nazarov

(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 110, NUMBER 2 JULY 2024-1(II)

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Modeling the ferroelectric phase transition in barium titanate with DFT accuracy and converged sampling *(11 pages)* 024101
Lorenzo Gigli, Alexander Goscinski, Michele Ceriotti, and Gareth A. Tribello

Confirmation of the random tiling hypothesis by polar calculus *(12 pages)* 024102
Moritz Holzwarth, Johannes Roth, and Hans-Rainer Trebin

Phase diagram and deuteration contribution to the phonon analysis of the normal-to-incommensurate phase transition of 4-4′ dichlorobiphenyl sulfone determined using Raman and neutron scattering *(11 pages)* 024103
M. Sougoti, F. Le Marrec, S. Beaufils, J. Ollivier, P. Bourges, B. Toudic, and C. Ecolivet

Origin and designing of large ground-state zero-field splitting of color centers in diamond *(7 pages)* 024104
Chen Qiu, Han-Pu Liang, Hui-Xiong Deng, and Su-Huai Wei

Ferromagnetic polar metals via epitaxial strain: A case study of $SrCoO_3$ *(7 pages)* 024105
Zhiwei Liu, Qiuyue Li, and Hanghui Chen

High-pressure phases of liquid silane studied using first-principles molecular dynamics simulations *(7 pages)* 024106
Y. H. Badjo, B. Boates, B. C. Saha, and S. A. Bonev

Crystal structures of lanthanum to 230 GPa *(9 pages)* 024107
C. V. Storm, C. R. Roy, K. A. Munro, and M. I. McMahon

Anti-hyperuniform diluted vortex matter induced by correlated disorder *(11 pages)* 024108
Joaquín Puig, Jazmín Aragón Sánchez, Edwin Herrera, Isabel Guillamón, Zuzana Pribulová, Josef Kačmarčík, Hermann Suderow, Alejandro Benedykt Kolton, and Yanina Fasano

Commensuration torques and lubricity in double moiré systems *(11 pages)* 024109
Nicolas Leconte, Youngju Park, Jiaqi An, and Jeil Jung

Quantum and classical Fisher information in four-dimensional scanning transmission electron microscopy *(15 pages)* 024110
Christian Dwyer and David M. Paganin

Stability of XeK_4 compound under extreme conditions *(6 pages)* 024111
Caiwen Lu, Kang Yang, Wenwen Cui, Jian Hao, Jingming Shi, and Yinwei Li

First-order structural phase transition at low temperature in $GaPt_5P$ and its rapid enhancement with pressure *(15 pages)* 024112
A. Sapkota, T. J. Slade, S. Huyan, N. K. Nepal, J. M. Wilde, N. Furukawa, S. H. Lapidus, L.-L. Wang, S. L. Bud'ko, and P. C. Canfield

Coupling of spallation and microjetting in aluminum at the atomic scale *(21 pages)* 024113
Xin Yang, Yu Tian, Han Zhao, Fang Wang, Lusheng Wang, Moujin Lin, Peng Wen, and Wenjun Chen

Structural instability and lattice site occupation of Mn^{2+} ions in the $SrTiO_3$ quantum paraelectric *(9 pages)* 024114
V. Laguta, O. Laguta, I. Zdeg, and P. Neugebauer

Quasi-one-dimensional sliding ferroelectricity in NbI_4 *(8 pages)* 024115
Ning Ding, Haoshen Ye, and Shuai Dong

(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 110, NUMBER 2** **JULY 2024-1(II)**

℘ Elastic plate basis for the deformation and electron diffraction of twisted bilayer graphene on a substrate *(24 pages)* 024116
Moon-ki Choi, Suk Hyun Sung, Robert Hovden, and Ellad B. Tadmor

Inhomogeneous, disordered, and partially ordered systems

Giant Hall effect in two-dimensional $CoSi_2$ granular arrays *(6 pages)* 024201
Elica Anne Heredia, Shao-Pin Chiu, Ba-Anh-Vu Nguyen, Ruey-Tay Wang, Chih-Yuan Wu, Sheng-Shiuan Yeh, and Juhn-Jong Lin

Comparison of local structure of $CrCl_3$ bulk and nanocrystals above and below the structural phase transition *(11 pages)* 024202
R. Havemann, F. Hammerath, P. Lepucki, P. Fritsch, A. P. Dioguardi, M. Grönke, M. Valldor, M. Roslova, A. U. B. Wolter, S. Hampel, T. Doert, H.-J. Grafe, S. Wurmehl, and B. Büchner

Analysis of localization transitions using nonparametric unsupervised learning *(6 pages)* 024204
Carlo Vanoni and Vittorio Vitale

Coexistence of non-Hermitian skin effect and extended states in one-dimensional nonreciprocal lattices *(7 pages)* 024205
Han Xiao and Qi-Bo Zeng

Critical behavior and collective modes at the superfluid transition in amorphous systems *(13 pages)* 024206
Pulloor Kuttanikkad Vishnu, Martin Puschmann, Rajesh Narayanan, and Thomas Vojta

Quantum criticality and Kibble-Zurek scaling in the Aubry-André-Stark model *(10 pages)* 024207
En-Wen Liang, Ling-Zhi Tang, and Dan-Wei Zhang

Dynamics, dynamical systems, lattice effects:

Lattice dynamics of $CH(NH_2)_2PbI_3$ and $CH(NH_2)_2SnI_3$ investigated by inelastic x-ray scattering and comparison of their elastic properties *(8 pages)* 024301
H. Tamatsukuri, Y. Murakami, N. Saito, N. Ohashi, and S. Tsutsui

Roughness dependence of phonon-interface thermal transport: Theoretical model and Monte Carlo simulation *(36 pages)* 024302
Xin Ran and Bingyang Cao

Unscrambling of single-particle wave functions in systems localized through disorder and monitoring *(12 pages)* 024303
Marcin Szyniszewski

Efficient paths for local counterdiabatic driving *(13 pages)* 024304
Stewart Morawetz and Anatoli Polkovnikov

Machian fractons, Hamiltonian attractors, and nonequilibrium steady states *(11 pages)* 024305
Abhishodh Prakash, Ylias Sadki, and S. L. Sondhi

Nonadiabatic effects lead to the breakdown of the semiclassical phonon picture *(7 pages)* 024306
Andrea Marini

Time-domain constraints for passive materials: The Brendel-Bormann model revisited *(15 pages)* 024307
Sven Nordebo and Martin Štumpf

(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 110, NUMBER 2** **JULY 2024-1(II)**

Elastic electron scattering and localization in a chain with isotopic disorder *(8 pages)* 024308
K. S. Denisov and E. Ya. Sherman

Real-space atomic dynamics in metallic liquids investigated by inelastic neutron scattering *(8 pages)* 024309
Zengquan Wang, Wojciech Dmowski, Hui Wang, Robert Ashcraft, Douglas L. Abernathy, Kenneth F. Kelton, and Takeshi Egami

Double Floquet-Bloch transforms and the far-field asymptotics of Green's functions tailored to periodic structures *(21 pages)* 024310
Andrey V. Shanin, Raphaël C. Assier, Andrey I. Korolkov, and Oleg I. Makarov

How coherence measurements of a qubit steer its quantum environment *(18 pages)* 024311
Chu-Dan Qiu, Yuan-De Jin, Jun-Xiang Zhang, Gang-Qin Liu, and Wen-Long Ma

Orientation-position coupling in the two-dimensional XY model *(7 pages)* 024312
Zhufei Xiao (肖竹飞), Tao Huang (黄韬), and Chunhua Zeng (曾春华)

Hyper-Raman scattering from the LO modes of perovskite ferroelectric relaxors *(9 pages)* 024313
A. Al-Zein and B. Hehlen

Dual role of longitudinal optical phonons for generation of coherent oscillations in gallium arsenide under optical pumping *(6 pages)* 024314
Itsuki Takagi, Yuma Konno, Yosuke Kayanuma, and Kazutaka G. Nakamura

Magnetism

Collective spin in twisted bilayer materials *(13 pages)* 024401
Zhigang Song, Jingshan Qi, Olivia Liebman, and Prineha Narang

Peculiar corner states in magnetic fractals *(8 pages)* 024402
Zhixiong Li and Peng Yan

Internal structure dependent creep motion of domain walls driven by spin-transfer torques *(8 pages)* 024403
Lucas Javier Albornoz, Rebeca Díaz Pardo, Aristide Lemaître, Sebastian Bustingorry, Javier Curiale, and Vincent Jeudy

Promising regimes for the observation of topological degeneracy in spin chains *(13 pages)* 024404
Alexander Sattler and Maria Daghofer

Magnetic structure of a single-crystal thin film of $EuCd_2Sb_2$ *(6 pages)* 024405
Eliot Heinrich, Ayano Nakamura, Shinichi Nishihaya, Eugen Weschke, Henrik Rønnow, Masaki Uchida, Benedetta Flebus, and Jian-Rui Soh

Elastic and inelastic neutron scattering experiments under high pressure in the frustrated antiferromagnet $CuFeO_2$ *(9 pages)* 024406
Noriki Terada, Dmitry D. Khalyavin, Pascal Manuel, Shinichiro Asai, Takatsugu Masuda, Hiraku Saito, Taro Nakajima, and Toyotaka Osakabe

Electronic and magnetic structures of a mixed triple perovskite: $Ba_3NiRuIrO_9$ *(8 pages)* 024407
Siddharth Kumar, Kuldeep Kargeti, D. C. Joshi, Gangadhar Das, Ranjan Kumar Patel, John W. Freeland, Luca Olivi, Giuliana Aquilanti, S. D. Kaushik, Roland Mathieu, S. K. Panda, D. D. Khalyavin, and Srimanta Middey

(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 110, NUMBER 2** **JULY 2024-1(II)**

Anisotropic spin relaxation in exchange-coupled ferromagnet/topological-insulator Fe/Bi_2Se_3 heterojunctions *(9 pages)* 024408
Rui Sun, Yun-bin Sun, Na Li, Hao-Pu Xue, Yan Li, Xu Yang, Yang Li, Andrew H. Comstock, Dali Sun, Wei He, Xiang-Qun Zhang, and Zhao-Hua Cheng

Phase diagram of the quantum spin-$\frac{1}{2}$ Heisenberg-Γ model on a frustrated zigzag chain *(18 pages)* 024409
Hidehiro Saito and Chisa Hotta

Confined magnon dispersion in ferromagnetic and antiferromagnetic thin films in a second quantization approach: The case of Fe and NiO *(10 pages)* 024410
Julio A. do Nascimento, Adam Kerrigan, S. A. Cavill, Demie Kepaptsoglou, Quentin M. Ramasse, Phil J. Hasnip, and Vlado K. Lazarov

Power efficiency of Hall-like devices: Comparison between reciprocal and antireciprocal Onsager relations *(10 pages)* 024412
Jean-Eric Wegrowe, Luqian Zhou, and Sariah Al Saati

Flat-band ferromagnetism in the quasi-one-dimensional electride Y_2Cl_3 induced by hole doping *(7 pages)* 024413
Shuyuan Liu, Chongze Wang, Bing Wang, Yu Jia, and J. Cho

Inelastic neutron scattering from a geometrically frustrated Ising antiferromagnet: Exact solutions *(10 pages)* 024414
K. A. Muttalib and J. H. Barry

Low-temperature spin Seebeck effect in nonmagnetic vanadium dioxide *(14 pages)* 024415
Renjie Luo, Tanner J. Legvold, Liyang Chen, Henry Navarro, Ali C. Basaran, Deshun Hong, Changjiang Liu, Anand Bhattacharya, Ivan K. Schuller, and Douglas Natelson

Large spontaneous valley polarization and anomalous valley Hall effect in antiferromagnetic monolayer Fe_2CF_2 *(8 pages)* 024416
San-Dong Guo, Liguo Zhang, Yiwen Zhang, Ping Li, and Guangzhao Wang

Collective out-of-plane magnetization reversal in tilted stripe domain systems via a single point of irreversibility *(12 pages)* 024417
Peter Heinig, Ruslan Salikhov, Fabian Samad, Lorenzo Fallarino, Gauravkumar Patel, Attila Kákay, Nikolai S. Kiselev, and Olav Hellwig

Observation of resonant spin excitation with in-plane spin wave propagation in hybrid antiskyrmion strings *(6 pages)* 024418
Daisuke Nakamura, Kosuke Karube, Yizhou Liu, Fumitaka Kagawa, Xiuzhen Yu, Yoshinori Tokura, and Yasujiro Taguchi

Interplay between charge and spin noise in the near-surface theory of decoherence and relaxation of C_{3v} symmetry qutrit spin-1 centers *(20 pages)* 024419
Denis R. Candido and Michael E. Flatté

Decoupling the influences of chiral damping and Dzyaloshinskii-Moriya interaction in chiral magnetic domain walls *(8 pages)* 024420
Collins Ashu Akosa, Gen Tatara, Aurélien Manchon, and Masahito Mochizuki

Scale without conformal invariance in dipolar ferromagnets *(25 pages)* 024421
Aleix Gimenez-Grau, Yu Nakayama, and Slava Rychkov

(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 110, NUMBER 2** **JULY 2024-1(II)**

High-spin Co^{3+} as a trigger of weak ferromagnetism in Co-substituted $BiFeO_3$ *(7 pages)* 024422
Koomok Lee, Hena Das, Yuki Sakai, Takumi Nishikubo, Kei Shigematsu, Daiki Ono, Takehiro Koike, Naomi Kawamura, Masaichiro Mizumaki, Naoki Ishimatsu, and Masaki Azuma

Magnetic moments of chiral phonons induced by coupling with magnons *(6 pages)* 024423
Qian Wang, Meng-Qiu Long, and Yun-Peng Wang

Spin wave dynamics excited by a focused laser pulse in antiferromagnet CrSBr *(10 pages)* 024424
Huicong Liu and Ka Shen

Tunable band topology and optical conductivity in altermagnets *(12 pages)* 024425
Peng Rao, Alexander Mook, and Johannes Knolle

Unconventional spin-orbit torques from sputtered $MoTe_2$ films *(6 pages)* 024426
Shuchen Li, Jonathan Gibbons, Stasiu Chyczewski, Zetai Liu, Hsu-Chih Ni, Jiangchao Qian, Jian-Min Zuo, Jun-Fei Zheng, Wenjuan Zhu, and Axel Hoffmann

Understanding the Ising zigzag antiferromagnetism of $FePS_3$ and $FePSe_3$ monolayers *(11 pages)* 024427
Ke Yang, Yueyue Ning, Yuxuan Zhou, Di Lu, Yaozhenghang Ma, Lu Liu, Shengli Pu, and Hua Wu

Spin-correlation transport and multiple resistive states in multiferroic tunnel junctions *(10 pages)* 024428
Xiaolin Zhang, Lei Yin, Sicong Zhu, Ruiqing Cheng, Yao Wen, and Jun He

Magnetic field effects on the Kitaev model coupled to environment *(17 pages)* 024429
Kiyu Fukui, Yasuyuki Kato, and Yukitoshi Motome

Quasi-two-dimensional frustrated spin-1 triangular lattice antiferromagnet $Ca_3NiNb_2O_9$: A proximate spin liquid *(12 pages)* 024430
Sonia Deswal, Deepu Kumar, Dibyata Rout, Surjeet Singh, and Pradeep Kumar

Unconventional anomalous Hall effect in a triangular lattice antiferromagnet *(7 pages)* 024431
Mori Watanabe, Tomo Higashihara, Ryotaro Asama, Masashi Tokuda, Shota Suzuki, Nan Jiang, Masayuki Ochi, Hiroaki Ishizuka, Hiroyuki K. Yoshida, and Yasuhiro Niimi

Superfluidity and superconductivity

Sublattice modulated superconductivity in the kagome Hubbard model *(6 pages)* 024501
Tilman Schwemmer, Hendrik Hohmann, Matteo Dürrnagel, Janik Potten, Jacob Beyer, Stephan Rachel, Yi-Ming Wu, Srinivas Raghu, Tobias Müller, Werner Hanke, and Ronny Thomale

Magnetization amplification in the interlayer pairing superconductor $4Hb$-TaS_2 *(17 pages)* 024502
Chunxiao Liu, Shubhayu Chatterjee, Thomas Scaffidi, Erez Berg, and Ehud Altman

Altermagnetic superconducting diode effect *(13 pages)* 024503
Sayan Banerjee and Mathias S. Scheurer

Tuning the flat band with in-plane biaxial strain and the emergence of superconductivity in Ni_3Sn *(7 pages)* 024504
Hye Jung Kim, Min Jae Kim, Jaekwang Lee, Jong Mok Ok, and Chang-Jong Kang

Theory of quasiparticle-induced errors in driven-dissipative Schrödinger cat qubits *(16 pages)* 024505
Kirill S. Dubovitskii, Denis M. Basko, Julia S. Meyer, and Manuel Houzet

(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 110, NUMBER 2** **JULY 2024-1(II)**

Gate-tunable crossover between vortex-interaction and pinning dominated regimes in Josephson-coupled lead islands on graphene *(8 pages)* 024506
Suraina Gupta, Santu Prasad Jana, Rukshana Pervin, and Anjan K. Gupta

High-T_c Berezinskii-Kosterlitz-Thouless transition in two-dimensional superconducting systems with coupled deep and quasiflat electronic bands with Van Hove singularities *(11 pages)* 024507
Sathish Kumar Paramasivam, Shakhil Ponnarassery Gangadharan, Milorad V. Milošević, and Andrea Perali

Supercurrent diode effect in helical superconductors *(18 pages)* 024508
Jaglul Hasan, Daniel Shaffer, Maxim Khodas, and Alex Levchenko

Multimodal synchrotron x-ray diffraction across the superconducting transition of $Sr_{0.1}Bi_2Se_3$ *(9 pages)* 024509
M. P. Smylie, Z. Islam, A. Glatz, G. D. Gu, J. A. Schneeloch, R. D. Zhong, S. Rosenkranz, W.-K. Kwok, and U. Welp

Buzdin, Shapiro, and chimera steps in φ_0 Josephson junctions. II. Bifurcation, switching, and hysteresis *(10 pages)* 024510
M. Nashaat, E. Kovalenko, and Yu. M. Shukrinov

Tunneling chirality Hall effect in type-I Weyl semimetals *(9 pages)* 024511
W. Zeng

Origin of anomalous magnetotransport in kagome superconductors AV_3Sb_5 (A = K,Rb,Cs) *(32 pages)* 024512
A. E. Koshelev, R. Chapai, D. Y. Chung, J. F. Mitchell, and U. Welp

Prediction of ambient superconductivity in ternary thorium-silicon superhydrides with a breathing kagome lattice *(7 pages)* 024513
Xiaomeng Wang, Chi Ding, Qing Lu, Tianheng Huang, Yuhang Li, Junjie Wang, Yu Han, Dingyu Xing, and Jian Sun

Superconductivity in nickelate and cuprate superconductors with strong bilayer coupling *(10 pages)* 024514
Zhen Fan, Jian-Feng Zhang, Bo Zhan, Dingshun Lv, Xing-Yu Jiang, Bruce Normand, and Tao Xiang

Observable signatures of Hall viscosity in lowest Landau level superfluids *(22 pages)* 024515
Seth Musser, Hart Goldman, and T. Senthil

Berezinskii-Kosterlitz-Thouless transition in rhenium nitride films *(8 pages)* 024516
Kosuke Takiguchi, Yoshiharu Krockenberger, Yoshitaka Taniyasu, and Hideki Yamamoto

Anderson-Higgs amplitude mode in Josephson junctions *(11 pages)* 024517
P. Vallet and J. Cayssol

SU(4) symmetry breaking and induced superconductivity in graphene quantum Hall edges *(10 pages)* 024518
Joseph J. Cuozzo and Enrico Rossi

Modeling phonon-mediated quasiparticle poisoning in superconducting qubit arrays *(17 pages)* 024519
E. Yelton, C. P. Larson, V. Iaia, K. Dodge, G. La Magna, P. G. Baity, I. V. Pechenezhskiy, R. McDermott, N. A. Kurinsky, G. Catelani, and B. L. T. Plourde

Kitaev chain in an alternating quantum dot-Andreev bound state array *(15 pages)* 024520
Sebastian Miles, David van Driel, Michael Wimmer, and Chun-Xiao Liu

Origin of the pseudogap end point in high-T_c cuprate superconductors *(11 pages)* 024521
Jianhua Yang and Tao Li

(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 110, NUMBER 2** **JULY 2024-1(II)**

COMMENTS

Comment on "Towards exact solutions for the superconducting T_c induced by electron-phonon interaction" *(2 pages)* 026501
Grgur Palle

Reply to "Comment on 'Towards exact solutions for the superconducting T_c induced by electron-phonon interaction' " *(2 pages)* 026502
Guo-Zhu Liu, Zhao-Kun Yang, Xiao-Yin Pan, Jing-Rong Wang, Xin Li, Hao-Fu Zhu, and Jie Huang