

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 108, NUMBER 2

JULY 2023-1(II)

Superfluid ^3He -B surface states in a confined geometry probed by a microelectromechanical oscillator (<i>9 pages</i>)	024508
W. G. Jiang, C. S. Barquist, K. Gunther, Y. Lee, and H. B. Chan	
Constrained weak-coupling superconductivity in multiband superconductors (<i>12 pages</i>)	024509
Niels Henrik Aase, Christian Svingen Johnsen, and Asle Sudbø	
Inducing superconductivity in bilayer graphene by alleviation of the Stoner blockade (<i>12 pages</i>)	024510
Gal Shavit and Yuval Oreg	
Theory of a single magnetic impurity on a thin metal film in proximity to a superconductor (<i>12 pages</i>)	024511
Jon Ortuzar, Jose Ignacio Pascual, F. Sebastian Bergeret, and Miguel A. Cazalilla	
Machine learning guided discovery of superconducting calcium borocarbides (<i>7 pages</i>)	024512
Chao Zhang, Hui Tang, Chen Pan, Hong Jiang, Huai-Jun Sun, Kai-Ming Ho, and Cai-Zhuang Wang	
Coupled system of electrons and exciton-polaritons: Screening, dynamical effects, and superconductivity (<i>18 pages</i>)	024513
Andrey S. Plyashechnik, Alexey A. Sokolik, Nina S. Voronova, and Yurii E. Lozovik	

Magnetic bubble crystal in tetragonal magnets (<i>10 pages</i>)	024426
Satoru Hayami and Yasuyuki Kato	
Tuning the magnetic properties of a VSe ₂ monolayer via the magnetic proximity effect mediated by Zeeman-type spin-orbit interaction (<i>13 pages</i>)	024427
Mahsa Abdollahi and Meysam Bagheri Tagani	
Magnetic, thermodynamic, and magnetotransport properties of CeGaGe and PrGaGe single crystals (<i>9 pages</i>) . . .	024428
Daloo Ram, Sudip Malick, Zakir Hossain, and Dariusz Kaczorowski	
Role of interfacial contribution in the bulklike enhanced Dzyaloshinskii-Moriya interaction of [Co/Tb] _N multilayers (<i>8 pages</i>)	024429
Zhiyuan Zhao, Zhicheng Xie, Yiming Sun, Yumin Yang, Ying Cao, Lei Liu, Dong Pan, Na Lei, Zhongming Wei, Jianhua Zhao, and Dahai Wei	
 Suppression of spin-wave nonreciprocity due to interfacial Dzyaloshinskii-Moriya interaction by lateral confinement in magnetic nanostructures (<i>9 pages</i>)	024430
S. Tacchi, R. Silvani, M. Kuepferling, A. Fernández Scarioni, S. Sievers, H. W. Schumacher, E. Darwin, M.-A. Syskaki, G. Jakob, M. Kläui, and G. Carloti	
Disorder-induced excitation continuum in a spin- $\frac{1}{2}$ cobaltate on a triangular lattice (<i>12 pages</i>)	024431
Bin Gao, Tong Chen, Chien-Lung Huang, Yiming Qiu, Guangyong Xu, Jesse Liebman, Lebing Chen, Matthew B. Stone, Erxi Feng, Huibo Cao, Xiaoping Wang, Xianghan Xu, Sang-Wook Cheong, Stephen M. Winter, and Pengcheng Dai	
Superfluidity and superconductivity	
Dark Andreev states in superconductors (<i>5 pages</i>)	024501
Andrey Grankin and Victor Galitski	
Interlayer electronic superfluid in an external magnetic field in graphene double layers (<i>12 pages</i>)	024502
Andreas Sinner	
Observation of fractional vortices and π phases in Josephson junctions involving periodic magnetic layers (<i>6 pages</i>)	024503
I. P. Nevirkovets	
Spin-valley dependent double Andreev reflections in the proximitized graphene/superconductor junction (<i>10 pages</i>)	024504
Lu Gao, Qiang Cheng, and Qing-Feng Sun	
Tunneling spectra of impurity states in unconventional superconductors (<i>15 pages</i>)	024505
P. O. Sukhachov, Felix von Oppen, and L. I. Glazman	
Paramagnon dispersion and damping in doped Na _x Ca _{2-x} CuO ₂ Cl ₂ (<i>10 pages</i>)	024506
Blair W. Lebert, Benjamin Bacq-Labreuil, Mark P. M. Dean, Kari Ruotsalainen, Alessandro Nicolaou, Simo Huotari, Ikuya Yamada, Hajime Yamamoto, Masaki Azuma, Nicholas B. Brookes, Flora Yakhou, Hu Miao, David Santos-Cottin, Benjamin Lenz, Silke Biermann, and Matteo d'Astuto	
Optimized proximity thermometer for ultrasensitive detection: Role of an ohmic electromagnetic environment (<i>7 pages</i>)	024507
Danilo Nikolić, Bayan Karimi, Diego Subero Rengel, Jukka P. Pekola, and Wolfgang Belzig	

(Continued)

Curie-law crossover in spin liquids (23 pages)	024411
Rico Pohle and Ludovic D. C. Jaubert	
Multi- Q magnetic phases from frustration and chiral interactions (23 pages)	024412
Marios Georgiou, Ioannis Rousochatzakis, and Joseph J. Betouras	
Finite-size and finite bond dimension effects of tensor network renormalization (13 pages)	024413
Atsushi Ueda and Masaki Oshikawa	
Magnetic order in nanoscale gyroid networks (10 pages)	024414
Ami S. Koshikawa, Justin Llandro, Masayuki Ohzeki, Shunsuke Fukami, Hideo Ohno, and Naëmi Leo	
Stability and magnetic properties of grain boundaries in the inverse Heusler phase Fe_2CoGa and in bcc Fe (12 pages)	024415
Daniel F. Urban, Wolfgang Körner, and Christian Elsässer	
Climbing the anisotropy barrier of single-molecule magnets with spin-vibron interaction (12 pages)	024416
V. Moldoveanu and R. Dragomir	
Field-induced magnetic structures in the chiral polar antiferromagnet $\text{Ni}_2\text{InSbO}_6$ (8 pages)	024417
Y. Ihara, R. Hiyoshi, M. Shimohashi, R. Kumar, T. Sasaki, M. Hirata, Y. Araki, Y. Tokunaga, and T. Arima	
 Optical magnetoelectric effects resonantly enhanced via electromagnons in cycloidal helimagnets $\text{Eu}_{1-x}\text{Y}_x\text{MnO}_3$ (8 pages)	024418
M. Ogino, Y. Kaneko, Y. Tokura, and Y. Takahashi	
Field-free spin-orbit torque switching and large dampinglike spin-orbit torque efficiency in synthetic antiferromagnetic systems using interfacial Dzyaloshinskii-Moriya interaction (11 pages)	024419
Yoshiaki Saito, Shoji Ikeda, Nobuki Tezuka, Hirofumi Inoue, and Tetsuo Endoh	
Anomalous Nernst effect in Mn_3NiN thin films (9 pages)	024420
Sebastian Beckert, João Godinho, Freya Johnson, Jozef Kimák, Eva Schmoranzarová, Jan Zemen, Zbyněk Šobáň, Kamil Olejník, Jakub Železný, Joerg Wunderlich, Petr Němec, Dominik Kriegner, Andy Thomas, Sebastian T. B. Goennenwein, Lesley F. Cohen, and Helena Reichlová	
Crucial roles of phase competition and spin-lattice relaxation in the gigantic switchable optomagnet effect of $(\text{Fe}_{0.875}\text{Zn}_{0.125})_2\text{Mo}_3\text{O}_8$ (8 pages)	024421
Y. H. Zhuang, H. W. Liu, Y. H. Li, Y. M. Chang, T. Kurumaji, Y. Tokura, and Y. M. Sheu	
Reversible manipulation of the topological Hall effect by hydrogen (5 pages)	024422
Lin Liu, Zhixiang Ye, Ruilin Zhang, Tao Lin, Mingxia Qiu, Shunpu Li, and Hongyu An	
Quantum oscillations in the magnetic Weyl semimetal NdAlSi arising from strong Weyl fermion- $4f$ electron exchange interaction (10 pages)	024423
Jin-Feng Wang, Qing-Xin Dong, Yi-Fei Huang, Zhao-Sheng Wang, Zhao-Peng Guo, Zhi-Jun Wang, Zhi-An Ren, Gang Li, Pei-Jie Sun, Xi Dai, and Gen-Fu Chen	
Mixed-spin two-dimensional lattice composed of spins $\frac{1}{2}$ and 1 in a radical-Ni complex (7 pages)	024424
Y. Tominaga, A. Matsuo, K. Kindo, S. Shimonono, K. Araki, Y. Iwasaki, Y. Hosokoshi, S. Noguchi, and H. Yamaguchi	
Continuum of metastable conical states of monoaxial chiral helimagnets (12 pages)	024425
V. Laliena, S. A. Osorio, D. Bazo, S. Bustingorry, and J. Campo	

(Continued)

Deterministic and stochastic coarsening control in optically addressed spatial light modulators subject to optical feedback (<i>8 pages</i>)	024307
Vladimir V. Semenov, Xavier Porte, Laurent Larger, and Daniel Brunner	
Optical conductivity signatures of Floquet electronic phases (<i>15 pages</i>)	024308
Andrew Cupo, Joshua T. Heath, Emilio Cobanera, James D. Whitfield, Chandrasekhar Ramanathan, and Lorenza Viola	
Bloch dynamics in monolayer phosphorene with broken inversion symmetry (<i>12 pages</i>)	024309
Abdullah Yar and Rifat Sultana	
Spatiotemporal quenches in long-range Hamiltonians (<i>17 pages</i>)	024310
Simon Bernier and Kartiek Agarwal	
Magnetism	
Exploring terahertz-scale exchange resonances in synthetic ferrimagnets with ultrashort optically induced spin currents (<i>9 pages</i>)	024401
Julian Hintermayr, Youri L. W. van Hees, and Bert Koopmans	
Sublattice extraordinary-log phase and special points of the antiferromagnetic Potts model (<i>7 pages</i>)	024402
Li-Ru Zhang, Chengxiang Ding, Wanzhou Zhang, and Long Zhang	
Spin-current driven Dzyaloshinskii-Moriya interaction in multiferroic BiFeO ₃ from first principles (<i>8 pages</i>)	024403
Sebastian Meyer, Bin Xu, Matthieu J. Verstraete, Laurent Bellaiche, and Bertrand Dupé	
Exact solution of the boundary-dissipated transverse field Ising model: Structure of the Liouvillian spectrum and dynamical duality (<i>14 pages</i>)	024404
Zhen-Yu Zheng, Xueliang Wang, and Shu Chen	
Magnetic structure and exchange interactions of the van der Waals CrPS ₄ monolayer under strain: A first-principles study (<i>8 pages</i>)	024405
Xiangyan Bo, Feng Li, Xiaomiao Yin, Yu Chen, Xiangang Wan, and Yong Pu	
Magnetization dynamics of elastically strained nanostructures studied by coupled micromagnetic-mechanical simulations (<i>9 pages</i>)	024406
S. Chiroli, D. Faurie, M. Haboussi, A. O. Adeyeye, and F. Zighem	
Two-magnon bound states and their oscillating deconfinement crossover in two and three dimensions (<i>9 pages</i>)	024407
Zhao-Yang Dong and Jian-Xin Li	
Observation of Griffiths phase, critical exponent analysis, and magnetic behavior in Bi-doped La _{0.67} Ca _{0.33} MnO ₃ (<i>14 pages</i>)	024408
Arpit Gaur, Ankita Tiwari, Gurmeet Singh, and Rabindra Nath Mahato	
Damped topological magnons in honeycomb antiferromagnets (<i>9 pages</i>)	024409
Qi-Hui Chen, Fei-Jie Huang, and Yong-Ping Fu	
Giant spin-Hall and tunneling magnetoresistance effects based on a two-dimensional nonrelativistic antiferromagnetic metal (<i>9 pages</i>)	024410
Qirui Cui, Yingmei Zhu, Xiong Yao, Ping Cui, and Hongxin Yang	

(Continued)

Nonreciprocal entanglement in cavity-magnon optomechanics (8 pages)	024105
Jiaojiao Chen, Xiao-Gang Fan, Wei Xiong, Dong Wang, and Liu Ye	
Spatial stress correlations in strong colloidal gel systems (10 pages)	024106
Divas Singh Dagur, Chandana Mondal, and Saikat Roy	
Large tunability of the magnetoelectric effect in the Co-substituted polar antiferromagnet Ni_3TeO_6 (11 pages) . . .	024107
J. H. Zhang, L. Lin, Y. S. Tang, G. Z. Zhou, L. Huang, X. Y. Li, G. Y. Li, S. H. Zheng, M. F. Liu, X. M. Liu, Z. B. Yan, X. K. Huang, C. Chen, X. P. Jiang, and J.-M. Liu	
Hybrid potential model with high feasibility and flexibility for metallic and covalent solids (15 pages)	024108
B. N. Yao, Z. R. Liu, D. Legut, and R. F. Zhang	
Inhomogeneous, disordered, and partially ordered systems	
Dynamics of the geometric phase in inhomogeneous quantum spin chains (13 pages)	024201
Kaiyuan Cao, Shuxiang Yang, Yayun Hu, and Guangwen Yang	
Effects of infinite-range interaction on the localization properties of one-dimensional disordered harmonic chains (10 pages)	024202
Wanwan Shi and Peiqing Tong	
Variable range hopping in a nonequilibrium steady state (8 pages)	024203
Preeti Bhandari, Vikas Malik, and Moshe Schechter	
From topological phase to transverse Anderson localization in a two-dimensional quasiperiodic system (6 pages)	024204
Shujie Cheng, Reza Asgari, and Gao Xianlong	
Subsystem symmetry, spin-glass order, and criticality from random measurements in a two-dimensional Bacon-Shor circuit (10 pages)	024205
Vaibhav Sharma, Chao-Ming Jian, and Erich J. Mueller	
Dynamics, dynamical systems, lattice effects:	
 Van Roosbroeck's equations with topological terms: The case of Weyl semimetals (13 pages)	024301
Pierre-Antoine Graham, Simon Bertrand, Michaël Bédard, Robin Durand, and Ion Garate	
Bridging closed and dissipative discrete time crystals in spin systems with infinite-range interactions (16 pages)	024302
Jayson G. Cosme, Jim Skulte, and Ludwig Mathey	
How space-time modulations modify spoof surface plasmons and scattering properties in acoustic metagratings (15 pages)	024303
Kim Pham and Agnès Maurel	
Electron-phonon driven charge density wave in CuTe (8 pages)	024304
Marco Campetella, Giovanni Marini, Jianqiang Sky Zhou, and Matteo Calandra	
Unconventional ferroelectric domain switching dynamics in CuInP_2S_6 from first principles (11 pages)	024305
Ri He, Hua Wang, Fucui Liu, Shi Liu, Houfang Liu, and Zhicheng Zhong	
Assessing the performance of exchange-correlation functionals on lattice constants of binary solids at room temperature within the quasiharmonic approximation (9 pages)	024306
Xiaofei Shao, Peitao Liu, Cesare Franchini, Yi Xia, and Jiangang He	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 108, NUMBER 2

JULY 2023-1(II)

Confinement of many-body Bethe strings (<i>5 pages</i>)	L020402
Jiahao Yang, Tao Xie, S. E. Nikitin, Jianda Wu, and A. Podlesnyak	
Anisotropy of antiferromagnetic domains in a spin-orbit Mott insulator (<i>7 pages</i>)	L020403
Longlong Wu, Wei Wang, Tadesse A. Assefa, Ana F. Suzana, Jiecheng Diao, Hengdi Zhao, Gang Cao, Ross J. Harder, Wonsuk Cha, Kim Kisslinger, Mark P. M. Dean, and Ian K. Robinson	
The ordinary surface universality class of the three-dimensional $O(N)$ model (<i>7 pages</i>)	L020404
Francesco Parisen Toldin	
Superfluidity and superconductivity	
Hybrid <i>s</i> -wave superconductivity in CrB_2 (<i>5 pages</i>)	L020501
Sananda Biswas, Andreas Kreisel, Adrian Valadkhani, Matteo Dürnagel, Tilman Schwemmer, Ronny Thomale, Roser Valentí, and Igor I. Mazin	
Particle-hole spectral asymmetry at the edge of multiorbital noncentrosymmetric superconductors (<i>8 pages</i>)	L020502
Yuri Fukaya, Keiji Yada, Yukio Tanaka, Paola Gentile, and Mario Cuoco	
Overcritical Fermi superfluids (<i>4 pages</i>)	L020503
A. F. Andreev and L. A. Melnikovsky	
Pressure dependence of superconductivity in CeRh_2As_2 (<i>6 pages</i>)	L020504
Hasan Siddiquee, Zackary Reh fuss, Christopher Broyles, and Sheng Ran	
Few-mode to mesoscopic junctions in gatemon qubits (<i>6 pages</i>)	L020505
Alisa Danilenko, Deividas Sabonis, Georg W. Winkler, Oscar Erlandsson, Peter Krogstrup, and Charles M. Marcus	
Isotope effect and critical magnetic fields of superconducting YH_6 : A Migdal-Eliashberg theory approach (<i>7 pages</i>)	L020506
S. Villa-Cortés, O. De la Peña-Seaman, Keith V. Lawler, and Ashkan Salamat	

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Reversible anelastic deformation mediated by β relaxation and resulting two-step deformation in a $\text{La}_{60}\text{Ni}_{15}\text{Al}_{25}$ metallic glass (<i>8 pages</i>)	024101
Qi Hao, Eloi Pineda, Yun-Jiang Wang, Yong Yang, and Ji-Chao Qiao	
Nonthermoelastic martensitic features in ideal martensites due to volume effects (<i>11 pages</i>)	024102
Yuanchao Yang, Yangyang Xu, Yumei Zhou, Xiangdong Ding, Jun Sun, Turab Lookman, and Dezhen Xue	
Visualization of <i>4d</i> orbital electrons in a pyrochlore-type oxide (<i>7 pages</i>)	024103
Shunsuke Kitou, Yoshio Kaneko, Yuiga Nakamura, Kunihisa Sugimoto, Yusuke Nomura, Ryotaro Arita, Yoshinori Tokura, Hiroshi Sawa, and Taka-hisa Arima	
Structural evolution of iodine on approach to the monatomic state (<i>9 pages</i>)	024104
Elena Bykova, Iskander G. Batyrev, Maxim Bykov, Eric Edmund, Stella Chariton, Vitali B. Prakapenka, and Alexander F. Goncharov	

(Continued)

LETTERS

Structure, structural phase transitions, mechanical properties, defects

- ☞ Effect of nitrogen doping and pressure on the stability of LuH_3 (6 pages) L020101
Yang Sun, Feng Zhang, Shunqing Wu, Vladimir Antropov, and Kai-Ming Ho
- Parent structures of near-ambient nitrogen-doped lutetium hydride superconductor (5 pages) L020102
Mingfeng Liu, Xiangyang Liu, Jiangxu Li, Jiayi Liu, Yan Sun, Xing-Qiu Chen, and Peitao Liu
- Structural phase transition involving octahedron tilting and ion migration in metal-halide perovskites:
A machine-learning study (7 pages) L020103
Xinjian Ouyang, Weijia Chen, Yanxing Zhang, Feng Zhang, Yuan Zhuang, Xiao Jie,
Laijun Liu, and Dawei Wang

Inhomogeneous, disordered, and partially ordered systems

- Many-body delocalization from embedded thermal inclusion (5 pages) L020201
J. Clayton Peacock and Dries Sels

Dynamics, dynamical systems, lattice effects:

- Cell augmentation framework for topological lattices (5 pages) L020301
Mohammad Charara and Stefano Gonella
- Recipe for single-pair-Weyl-points phonons carrying the same chiral charges (7 pages) L020302
Guangqian Ding, Chengwu Xie, Jingbo Bai, Zhenxiang Cheng, Xiaotian Wang, and Weikang Wu
- Eight-dimensional topological systems simulated using time-space crystalline structures (5 pages) L020303
Yakov Braver, Egidijus Anisimovas, and Krzysztof Sacha
- Hydrodynamics in long-range interacting systems with center-of-mass conservation (8 pages) L020304
Alan Morningstar, Nicholas O'Dea, and Jonas Richter
- How massless are Weyl fermions in Weyl semimetals (6 pages) L020305
Amar Bharti, Misha Ivanov, and Gopal Dixit
- Purification timescales in monitored fermions (7 pages) L020306
Hugo Lóio, Andrea De Luca, Jacopo De Nardis, and Xhek Turkeshi

Magnetism

- Anisotropic magnetoresistance due to magnetization-dependent spin-orbit interactions (6 pages) L020401
M. Q. Dong, Zhi-Xin Guo, and X. R. Wang



(Continued)



2469-9950(20230701)108:2;1-E