

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 107, NUMBER 5

FEBRUARY 2023-1(I)

Evolution of an attractive polarized Fermi gas: From a Fermi liquid of polarons to a non-Fermi liquid at the Fulde-Ferrell-Larkin-Ovchinnikov quantum critical point (22 pages)	054505
M. Pini, P. Pieri, and G. Calvanese Strinati	
High-frequency diode effect in superconducting Nb ₃ Sn microbridges (8 pages)	054506
Sara Chahid, Serafim Teknowijoyo, Iris Mowgood, and Armen Gulian	
Thermodynamics and the pairon model for cuprates (9 pages)	054507
Jeffery L. Tallon and James G. Storey	
Unified intermediate coupling description of pseudogap and strange metal phases of cuprates (13 pages)	054508
H. C. Kao, Dingping Li, and Baruch Rosenstein	

ERRATA

Erratum: Accurate model of the stripe domain phase of perpendicularly magnetized multilayers [Phys. Rev. B 95 , 174423 (2017)] (1 page)	059901(E)
Ivan Lemesh, Felix Büttner, and Geoffrey S. D. Beach	
Erratum: Witnessing entanglement in quantum magnets using neutron scattering [Phys. Rev. B 103 , 224434 (2021)] (2 pages)	059902(E)
A. Scheie, Pontus Laurell, A. M. Samarakoon, B. Lake, S. E. Nagler, G. E. Granroth, S. Okamoto, G. Alvarez, and D. A. Tennant	
Erratum: Quantum tricriticality in antiferromagnetic Ising model with transverse field: A quantum Monte Carlo study [Phys. Rev. B 92 , 174419 (2015)] (1 page)	059903(E)
Yasuyuki Kato and Takahiro Misawa	

☞	Scanning tunneling spectroscopy of Majorana zero modes in a Kitaev spin liquid (<i>13 pages</i>)	054432
	Tim Bauer, Lucas R. D. Freitas, Rodrigo G. Pereira, and Reinhold Egger	
	Magnetic coupling of guest metallocene molecules with SURMOF-2 host matrix (<i>9 pages</i>)	054433
	Alexei Nefedov, Chun Li, Kai Müller, Anemar Bruno Kanj, Lars Heinke, Chen Luo, Kai Chen, Florin Radu, Evangelos Golias, Wolfgang Kuch, and Christof Wöll	
☞	Heat conduction in herbertsmithite: Field dependence at the onset of the quantum spin liquid regime (<i>13 pages</i>)	054434
	Quentin Barthélemy, Étienne Lefrançois, Jordan Baglo, Patrick Bourgeois-Hope, Dipranjan Chatterjee, Pierre Lefloic, Matias Velázquez, Victor Balédent, Bernard Bernu, Nicolas Doiron-Leyraud, Fabrice Bert, Philippe Mendels, and Louis Taillefer	
	Spin gap in the weakly interacting quantum spin chain antiferromagnet $\text{KCuPO}_4 \cdot \text{H}_2\text{O}$ (<i>8 pages</i>)	054435
	M. Fujihala, M. Hagihala, K. Morita, N. Murai, A. Koda, H. Okabe, and S. Mitsuda	
	Topological Hall effect in three-dimensional centrosymmetric magnetic skyrmion crystals (<i>7 pages</i>)	054436
	Andrei Zadorozhnyi and Yuri Dahnovsky	
	Programmable skyrmion-based logic gates in a single nanotrack (<i>9 pages</i>)	054437
	Laichuan Shen, Yan Zhou, and Ka Shen	
☞	Spin wave spectra of single crystal CoPS_3 (<i>10 pages</i>)	054438
	A. R. Wildes, B. Fåk, U. B. Hansen, M. Enderle, J. R. Stewart, L. Testa, H. M. Rønnow, C. Kim, and Je-Geun Park	
	Noncollinear twisted RKKY interaction on the optically driven $\text{SnTe}(001)$ surface (<i>13 pages</i>)	054439
	Mohsen Yarmohammadi, Marin Bukov, and Michael H. Kolodrubetz	
	Three-dimensional critical behavior and anisotropic magnetic entropy change in the axion insulator candidate EuSn_2P_2 (<i>11 pages</i>)	054440
	Xiaojun Yang, Junxiao Pan, Xiangyu He, Leiming Cao, Yan Cao, and Yaping Tao	
	Anatomy of spin-wave-driven magnetic texture motion via magnonic torques (<i>11 pages</i>)	054441
	Hanxu Ai (艾寒旭) and Jin Lan (兰金)	
	Linear response based theories for Dzyaloshinskii-Moriya interactions (<i>12 pages</i>)	054442
	I. V. Solovyeu	
	Superfluidity and superconductivity	
	Generation of polarized spin-triplet Cooper pairings by magnetic barriers in superconducting junctions (<i>13 pages</i>)	054501
	Shun Tamura, Yukio Tanaka, and Takehito Yokoyama	
	Competing instabilities at long length scales in the one-dimensional Bose-Fermi-Hubbard model at commensurate fillings (<i>17 pages</i>)	054502
	Janik Schönmeier-Kromer and Lode Pollet	
	Information scrambling of the dilute Bose gas at low temperature (<i>11 pages</i>)	054503
	Chao Yin and Yu Chen	
☞	Spin-dependent coupling of supercurrent and nonequilibrium quasiparticles in high-field superconductors (<i>9 pages</i>)	054504
	P. Maier and D. Beckmann	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 107, NUMBER 5

FEBRUARY 2023-1(I)

Voltage-controlled magnetic anisotropy enabled by resistive switching (<i>7 pages</i>)	054415
Pavel Salev, Iana Volvach, Dayne Sasaki, Pavel Lapa, Yayoi Takamura, Vitaliy Lomakin, and Ivan K. Schuller	
Self-consistent solution of magnetic and friction energy losses of a magnetic nanoparticle (<i>11 pages</i>)	054416
Santiago Helbig, Claas Abert, Pedro A. Sánchez, Sofia S. Kantorovich, and Dieter Suess	
Hysteresis and training effect in the electric control of spin current in Pt/Y ₃ Fe ₅ O ₁₂ heterostructures (<i>8 pages</i>) . . .	054417
Y. D. Sun, Lei Wang, Lili Lang, Ke Xia, and S. M. Zhou	
Electrically excited magnetoelastic waves and magnetoacoustic resonance in ferromagnetic films with voltage-controlled magnetic anisotropy (<i>8 pages</i>)	054418
Andrei V. Azovtsev and Nikolay A. Pertsev	
Non-Kitaev versus Kitaev honeycomb cobaltates (<i>9 pages</i>)	054420
Xiaoyu Liu and Hae-Young Kee	
Influence of substrate on interfacial Dzyaloshinskii-Moriya interaction in epitaxial Tm ₃ Fe ₅ O ₁₂ films (<i>8 pages</i>) . . .	054421
Takian Fakhrol, Siying Huang, Yixuan Song, Bharat Khurana, Geoffrey S. D. Beach, and Caroline A. Ross	
☞ Multipartite entanglement in the one-dimensional spin- $\frac{1}{2}$ Heisenberg antiferromagnet (<i>10 pages</i>)	054422
Varun Menon, Nicholas E. Sherman, Maxime Dupont, Allen O. Scheie, D. Alan Tennant, and Joel E. Moore	
Magnetic excitations in the square-lattice iridate Ba ₂ IrO ₄ (<i>6 pages</i>)	054423
J. P. Clancy, H. Gretarsson, A. Lupascu, J. A. Sears, Z. Nie, M. H. Upton, Jungho Kim, Z. Islam, M. Uchida, D. G. Schlom, K. M. Shen, and Young-June Kim	
Variational optimization of tensor-network states with the honeycomb-lattice corner transfer matrix (<i>6 pages</i>)	054424
I. V. Lukin and A. G. Sotnikov	
Frustrated magnetic cycloidal structure and emergent Potts nematicity in CaMn ₂ P ₂ (<i>14 pages</i>)	054425
Farhan Islam, Thaís V. Trevisan, Thomas Heitmann, Santanu Pakhira, Simon X. M. Riberolles, N. S. Sangeetha, David C. Johnston, Peter P. Orth, and David Vaknin	
Spin Hall magnetoresistance in quasi-two-dimensional antiferromagnetic-insulator/metal bilayer systems (<i>9 pages</i>)	054426
T. Ishikawa, M. Matsuo, and T. Kato	
Magnetic ground state dependent magnetostriction effects on the chiral magnet CrNb ₃ S ₆ (<i>8 pages</i>)	054427
Masaki Mito, Takayuki Tajiri, Yusuke Kousaka, Jun Akimitsu, Jun-ichiro Kishine, and Katsuya Inoue	
Laser-induced magnetization switching in synthetic-ferrimagnetic bilayer (<i>6 pages</i>)	054428
V. N. Gridnev	
Low-temperature specific heat and heat transport of Tb ₂ Ti _{2-x} Zr _x O ₇ single crystals (<i>9 pages</i>)	054429
H. L. Che, S. J. Li, J. C. Wu, N. Li, S. K. Guang, K. Xia, X. Y. Yue, Y. Y. Wang, X. Zhao, Q. J. Li, and X. F. Sun	
Electronic structure, magnetic properties, spin orientation, and doping effect in Mn ₃ Si ₂ Te ₆ (<i>11 pages</i>)	054430
Yang Zhang, Ling-Fang Lin, Adriana Moreo, and Elbio Dagotto	
Hybrid symmetry breaking in classical spin models with subsystem symmetries (<i>8 pages</i>)	054431
Giovanni Canossa, Lode Pollet, and Ke Liu (刘科子竞)	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 107, NUMBER 5

FEBRUARY 2023-1(I)

Restricted multicanonical sampling for machine learning potential construction (8 pages)	054313
Kazutoshi Miwa	
Magnetism	
Construction of entangled many-body states via the Higgs mechanism (5 pages)	054401
Pureum Noh and Eun-Gook Moon	
Brillouin light scattering from quantized spin waves in nanowires with antisymmetric exchange interactions (8 pages)	054402
Jun-Wen Xu, Grant A. Riley, Justin M. Shaw, Hans T. Nembach, and Andrew D. Kent	
Electric Grüneisen parameters for a biaxial spin-chain system (8 pages)	054403
A. A. Zvyagin	
Giant efficiency of long-range orbital torque in Co/Nb bilayers (7 pages)	054404
Fu Liu, Bokai Liang, Jie Xu, Chenglong Jia, and Changjun Jiang	
Large exchange bias in Mn-Ni-Sn Heusler alloys: Role of cluster spin glass state (8 pages)	054405
Jyoti Sharma, K. G. Suresh, and Aftab Alam	
Computational capability for physical reservoir computing using a spin-torque oscillator with two free layers (15 pages)	054406
Terufumi Yamaguchi, Sumito Tsunegi, Kohei Nakajima, and Tomohiro Taniguchi	
Coherent description of the magnetic properties of SeCuO_3 versus temperature and magnetic field (8 pages)	054407
Xavier Rocquefelte, Mirta Herak, Atsushi Miyake, William Lafargue-Dit-Hauret, Helmuth Berger, Masashi Tokunaga, and Andres Saúl	
Topological spin textures in 1T-phase Janus magnets: Interplay between Dzyaloshinskii-Moriya interaction, magnetic frustration, and isotropic higher-order interactions (14 pages)	054408
Peng Li, Dongxing Yu, Jinghua Liang, Yonglong Ga, and Hongxin Yang	
Evolution of short-range magnetic correlations in ferromagnetic Ni-V alloys (15 pages)	054409
Shiva Bhattarai, Hind Adawi, Jean-Guy Lussier, Adane Gebretsadik, Maxim Dzero, Kathryn L. Krycka, and Almut Schroeder	
Ultrafast magnetization and energy flow in the laser-induced dynamics of transition metal compounds (14 pages)	054410
G. Stegmann, W. Töws, and G. M. Pastor	
Magnetic phase diagram and possible Kitaev-like behavior of the honeycomb-lattice antimonate $\text{Na}_3\text{Co}_2\text{SbO}_6$ (10 pages)	054411
E. Vavilova, T. Vasilchikova, A. Vasiliev, D. Mikhailova, V. Nalbandyan, E. Zvereva, and S. V. Streltsov	
Replica theory for disorder-free spin-lattice glass transition on a treelike simplex network (15 pages)	054412
Kota Mitsumoto and Hajime Yoshino	
Theory of Floquet-driven dissipative cavity magnonics (8 pages)	054413
Ying Yang, Yang Xiao, and C.-M. Hu	
Possible electronic state quasi-half-valley metal in a VGe_2P_4 monolayer (9 pages)	054414
San-Dong Guo, Yu-Ling Tao, Hao-Tian Guo, Zhuo-Yan Zhao, Bing Wang, Guangzhao Wang, and Xiaotian Wang	

(Continued)

Elastic-stripe formation at electronic transitions (<i>15 pages</i>)	054203
Giuliano Chiriacò and Andrew J. Millis	
Tracking locality in the time evolution of disordered systems (<i>12 pages</i>)	054204
Tomasz Szoldra, Piotr Sierant, Maciej Lewenstein, and Jakub Zakrzewski	
Evidence of the disorder-independent electron-phonon scattering time in thin NbN films (<i>13 pages</i>)	054205
A. I. Lomakin, E. M. Baeva, A. D. Triznova, N. A. Titova, P. I. Zolotov, A. V. Semenov, D. E. Sunegin, A. V. Lubenchenko, A. I. Kolbatova, and G. N. Goltsman	
Electronic states of a disordered two-dimensional quasiperiodic tiling: From critical states to Anderson localization (<i>17 pages</i>)	054206
Anuradha Jagannathan and Marco Tarzia	
Dynamics, dynamical systems, lattice effects:	
Topological effects in two-dimensional quantum emitter systems (<i>15 pages</i>)	054301
Miguel Bello and J. Ignacio Cirac	
Uncovering extreme nonlinear dynamics in solids through time-domain field analysis (<i>9 pages</i>)	054302
P. D. Keathley, S. V. B. Jensen, M. Yeung, M. R. Bionta, and L. B. Madsen	
Quantum-corrected thickness-dependent thermal conductivity in amorphous silicon predicted by machine learning molecular dynamics simulations (<i>10 pages</i>)	054303
Yanzhou Wang, Zheyong Fan, Ping Qian, Miguel A. Caro, and Tapio Ala-Nissila	
Tunneling-induced fractal transmission in valley Hall waveguides (<i>13 pages</i>)	054304
Tirth Shah, Florian Marquardt, and Vittorio Peano	
☞ Influence of chirp and carrier-envelope phase on noninteger high-harmonic generation (<i>15 pages</i>)	054305
Maximilian Graml, Maximilian Nitsch, Adrian Seith, Ferdinand Evers, and Jan Wilhelm	
☞ Surface dynamics of graphite probed by soft x-ray linear dichroism in Auger-emission yield (<i>12 pages</i>)	054306
G. Schiwietz, T. Kachel, R. Mitzner, and K. Holldack	
Theory and simulations of angular momentum transfer from swift electrons to spherical nanoparticles in scanning transmission electron microscopy (<i>11 pages</i>)	054307
José Ángel Castellanos-Reyes, Jesús Castrejón-Figueroa, and Alejandro Reyes-Coronado	
Anomalous transport in periodic photonic chains with designed loss (<i>10 pages</i>)	054308
I. Peshko, G. Ya. Slepyan, and D. Mogilevtsev	
Spin-phonon interaction and short-range order in $\text{Mn}_3\text{Si}_2\text{Te}_6$ (<i>6 pages</i>)	054309
S. Djurdjic Mijin, A. Šolajić, J. Pešić, Y. Liu, C. Petrovic, M. Bockstedte, A. Bonanni, Z. V. Popović, and N. Lazarević	
Maximally charged single-pair multi-Weyl point phonons in $P23$ -type BeH_2 (<i>7 pages</i>)	054310
Ying Yang, Chengwu Xie, Yuting Cui, Xiaotian Wang, and Weikang Wu	
From Green-Kubo to the full Boltzmann kinetic approach to heat transport in crystals and glasses (<i>9 pages</i>)	054311
Alfredo Fiorentino and Stefano Baroni	
Nonharmonic contributions to the high-temperature phonon thermodynamics of Cr (<i>8 pages</i>)	054312
C. M. Bernal-Choban, H. L. Smith, C. N. Saunders, D. S. Kim, L. Mauger, D. L. Abernathy, and B. Fultz	

(Continued)

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

- Hierarchical compositional ordering in lead-based perovskite relaxors (*12 pages*) 054101
Yanxing Zhang, Jiale Zhang, Nan Zhang, Laijun Liu, Alexei A. Bokov, Zuo-Guang Ye, and Dawei Wang
- Quantum theory of light-driven coherent lattice dynamics (*13 pages*) 054102
Fabio Caruso and Marios Zacharias
- ☞ Universality of grain boundary phases in fcc metals: Case study on high-angle [111] symmetric tilt grain boundaries (*17 pages*) 054103
Tobias Brink, Lena Langenohl, Hanna Bishara, and Gerhard Dehm
- Two-dimensional crystal phases of graphene monoxide (*14 pages*) 054104
Danylo Radevych, Marija Gajdardziska-Josifovska, and Michael Weinert
- Exploring interacting topological insulator in the extended Su-Schrieffer-Heeger model (*8 pages*) 054105
Xiaofan Zhou, Jian-Song Pan, and Suotang Jia
- Comparative structural evolution under pressure of powder and single crystals of the layered antiferromagnet FePS₃ (*6 pages*) 054106
David M. Jarvis, Matthew J. Coak, Hayrullo Hamidov, Charles R. S. Haines, Giulio I. Lampronti, Cheng Liu, Shiyu Deng, Dominik Daisenberger, David R. Allan, Mark R. Warren, Andrew R. Wildes, and Siddharth S. Saxena
- Light: A new handle to control the structure of cesium lead iodide (*7 pages*) 054107
Charles Paillard and Laurent Bellaiche
- ☞ Ferroelectric switching pathways and domain structure of SrBi₂(Ta,Nb)₂O₉ from first principles (*11 pages*) 054108
Nabaraj Pokhrel and Elizabeth A. Nowadnick
- Kitaev formula for periodic, quasicrystal, and fractal Floquet topological insulators (*8 pages*) 054109
Yan-kun Chen, Qing-hui Liu, Bingsuo Zou, and Yongyou Zhang
- ### Inhomogeneous, disordered, and partially ordered systems
- Enhanced wave localization in multifractal scattering media (*13 pages*) 054201
Y. Chen, F. Sgrignuoli, Y. Zhu, T. Shubitidze, and L. Dal Negro
- Amorphous-amorphous transformation induced in glasses by intense x-ray beams (*8 pages*) 054202
E. Alfinelli, F. Caporaletti, F. Dallari, A. Martinelli, G. Monaco, B. Ruta, M. Sprung, M. Zanatta, and G. Baldi



(Continued)



2469-9950(20230201)107:5;1-H