

LETTERS

Structure, structural phase transitions, mechanical properties, defects

- ☞ Elastically buckled film-substrate system as a two-dimensional crystal (8 pages) L100101
Wenqing Zhu (朱文清)

- Missing link between the two-dimensional quantum Hall problem and one-dimensional
quasicrystals (6 pages) L100102
Anuradha Jagannathan

Dynamics, dynamical systems, lattice effects:

- ☞ Phonon-assisted upconversion photoluminescence with high thermal sensitivity of rare-earth doped
nanoparticles in vacuum optical tweezers (7 pages) L100301
Xiaojun Guo, Yanzhen Xiao, Xiangtai Xi, Sihan Wang, Hairong Zheng, Volker Deckert,
Zhengkun Fu, and Zhenglong Zhang

- Effects of four-phonon scattering on phonon hydrodynamics in monolayer graphene (7 pages) L100302
Xun Li, Zherui Han, Xiulin Ruan, and Li Shi

Magnetism

- Large anomalous Nernst effect in a metallic altermagnet CrSb single crystal (8 pages) L100401
Wei Li, Chunqiang Xu, Minjun Wang, Mengting Zou, Wan Li, Hongwei Wang,
Wei Jiang, and Baomin Wang

- Rational control of magnonic and electronic band splittings (7 pages) L100402
Subhadeep Bandyopadhyay, Anoop Raj, Philippe Ghosez, Sumiran Pujari, and Sayantika Bhowal

- Spin liquid mimicry in the hydroxide double perovskite CuSn(OD)₆ induced by correlated proton
disorder (7 pages) L100403
Anton A. Kulbakov, Ellen Häußler, Kaushick K. Parui, Nikolai S. Pavlovskii,
Aswathi Mannathanath Chakkingal, Sergey A. Granovsky, Sebastian Gaß,
Laura Teresa Corredor Bohórquez, Anja U. B. Wolter, Sergei A. Zvyagin, Yurii V. Skourski,
Vladimir Yu. Pomjakushin, Inés Puente-Orench, Darren C. Peets, Thomas Doert, and Dmytro S. Inosov

- ☞ Topological switching in bilayer magnons via electrical control (8 pages) L100404
Xueqing Wan, Quanchao Du, Jinlian Lu, Zhenlong Zhang, Jinyang Ni, Lei Zhang,
Zhijun Jiang, and Laurent Bellaïche

- Proposal for spin superfluid quantum interference device (6 pages) L100405
Yanyan Zhu, Eric Kleinherbers, Leonid Levitov, and Yaroslav Tserkovnyak



(Continued)



2469-9950(20250901)112:10;1-#

Optical detection of four-spin chiral interaction in a two-dimensional honeycomb ferrimagnet (<i>6 pages</i>)	L100406
B. Murzaliyev, M. I. Katsnelson, and M. Titov	
Microscopic correlation between magnetostriction and magnetic damping (<i>6 pages</i>)	L100407
Ivan Kurniawan, Keita Ito, Takeshi Seki, Keisuke Masuda, and Yoshio Miura	
Nonreciprocal magnons in layered antiferromagnets VPX ₃ (<i>X</i> = S, Se, Te) (<i>7 pages</i>)	L100408
Quanchao Du, Zhenlong Zhang, Jinyang Ni, Zhijun Jiang, and Laurent Bellaiche	
Superfluidity and superconductivity	
Finite-momentum mixed singlet-triplet pairing in chiral antiferromagnets induced by even-parity spin texture (<i>8 pages</i>)	L100501
Song-Bo Zhang and Lun-Hui Hu	
Superconducting junctions with flat bands (<i>6 pages</i>)	L100502
P. Virtanen, R. P. S. Penttilä, P. Törmä, A. Díez-Carlón, D. K. Efetov, and T. T. Heikkilä	
Orbital-selective spin-triplet superconductivity in infinite-layer LaNiO ₂ (<i>8 pages</i>)	L100503
Fabian Jakubczyk, Armando Consiglio, Domenico Di Sante, Ronny Thomale, and Carsten Timm	
Bosonic quantum breakdown Hubbard model (<i>6 pages</i>)	L100504
Yu-Min Hu and Biao Lian	
Anomalous lattice relaxation dynamics in optimally doped La _{2-x} Sr _x CuO ₄ (<i>7 pages</i>)	L100505
A. N. Petsch, L. Shen, Z. Porter, A. Alshemi, A. Stellan, A. Israelski, C. Peng, H. Yavas, V. Thampy, R. J. Arthur, Z. Ren, F. Westermeier, M. Sprung, S. M. Hayden, E. Blackburn, and J. J. Turner	
Fermi surface reconstruction and enhanced spin fluctuations in strained La ₃ Ni ₂ O ₇ on LaAlO ₃ (001) and SrTiO ₃ (001) (<i>8 pages</i>)	L100506
Benjamin Geisler, James J. Hamlin, Gregory R. Stewart, Richard G. Hennig, and P. J. Hirschfeld	
Excess quasiparticles and their dynamics in the presence of subgap states (<i>7 pages</i>)	L100507
P. B. Fischer and G. Catelani	
Theory of three-terminal Andreev spin qubits (<i>6 pages</i>)	L100508
Aleksandr Svetogorov, Kiryl Piasotski, Wolfgang Belzig, and Mikhail Pletyukhov	
Enhanced Cooper pairing in nanopatterned metals (<i>6 pages</i>)	L100509
Masoud Mohammadi-Arzanagh, Andrey Grankin, Victor Galitski, and Mohammad Hafezi	

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Absorption lines of <i>F</i> centers in MgO and CaO through time-dependent hybrid-functional theory calculations (<i>13 pages</i>)	104101
Mathilde L. D. Franckel, Stefano Falletta, Wei Chen, and Alfredo Pasquarello	
Determination of the melting temperature of hexagonal ice using Lee-Yang phase transition theory (<i>10 pages</i>) . . .	104102
Ling Liu, Yihua Dong, Qi-Jun Ye, and Xin-Zheng Li	

(Continued)

 Ultrafast x-ray diffraction of high-pressure phases in dynamically compressed TiO_2 (9 pages)	104103
I. K. Ocampo, R. F. Smith, D. Kim, V. Prakapenka, S. Speziale, M. Schoelmerich, K. Appel, D. N. Polsin, M. Marshall, S. J. Tracy, F. Miozzi, H. J. Lee, E. Galtier, E. Cunningham, C. McGuire, C. Vennari, A. E. Gleason, and T. S. Duffy	
Persistent quantum vibronic dynamics in a $5d^1$ double perovskite oxide (7 pages)	104104
Naoya Iwahara, Jian-Rui Soh, Daigorou Hirai, Ivica Živković, Yuan Wei, Wenliang Zhang, Carlos Galdino, Tianlun Yu, Kenji Ishii, Federico Pisani, Oleg Malanyuk, Thorsten Schmitt, and Henrik M. Rønnow	
Pressure-induced ferromagnetism and structural phase transition in the van der Waals material CrCl_3 (11 pages)	104105
O. N. Lis, D. P. Kozlenko, E. V. Lukin, S. E. Kichanov, I. Yu. Zel, A. V. Belushkin, S. S. Agafonov, P. A. Borisova, and B. N. Savenko	
Condensation completion and defects in 2+1D topological orders (28 pages)	104106
Gen Yue, Longye Wang, and Tian Lan	
Zero-order Landau modes propagating along bulk and edge channels in an aperiodic acoustic structure enabled by a synthetic gauge field (10 pages)	104107
Yu-Xin Fang, Wen-Hao Zhu, Yuhui Cai, Xi-Hui Li, Meng-Qi Zhang, Jiayao Huang, Zhao-Xian Chen, Yongyao Li, and Shi-Qiao Wu	
Manipulation of topological phases in acoustic crystals through Rashba-Dresselhaus spin-orbit coupling (7 pages)	104108
Xu-Feng Wang, Chun-Zhen Fan, and Gang Wang	
Ori-kirigami modules for constructing multistable systems and deployable engineering structures (16 pages)	104109
Zhaoyu Wang, Xuhong Zhou, Yongtao Bai, Cheng Xie, Yanke Tan, and Michael Beer	
Significant impact of quantum and anharmonic effects on the structural stability and superconductivity of NbH_3 at high pressures (9 pages)	104110
Pugeng Hou, Yao Ma, Hui Xie, Mingqi Li, Yongmao Cai, Yuhua Shen, Xuewu Wang, and Mi Pang	
Simultaneous increase of d_{33} and the Curie point of $\text{PbZr}_y\text{Ti}_{1-y}\text{O}_3$: The phenomenon and the mechanism (15 pages)	104111
Gudeta Jafo Muleta, Gobinda Das Adhikary, Anil Adukkadan, Pooja Punetha, and Rajeev Ranjan	
Inhomogeneous, disordered, and partially ordered systems	
Topological in-gap states in a non-Hermitian quasicrystal with p -wave pairing (12 pages)	104201
Shaina Gandhi and Jayendra N. Bandyopadhyay	
Electronic structure of high-entropy ROBiS_2 ($R = \text{La, Ce, Pr, Nd, Sm, Gd}$) superconductors studied by soft x-ray absorption and photoemission spectroscopy (9 pages)	104202
F. Minati, G. Tomassucci, F. Bondino, I. Pis, I. Napal Azcona, Y. Fujita, M. Nagao, L. Tortora, G. Campi, L. Boeri, T. Mizokawa, and N. L. Saini	
Emergent scale and anomalous dynamics in certain nearest-neighbor quasiperiodic tight binding models in one dimension (8 pages)	104203
Parvathy S. Nair, Dintomon Joy, Rohit Deb, Soumadip Pakrashi, and Sambuddha Sanyal	
Localization and topological properties of the nonequilibrium steady state in one-dimensional homogenous systems with disorder and dissipation (7 pages)	104204
Xixi Feng, Ao Zhou, Feng Lu, Gao Xianlong, and Shujie Cheng	

(Continued)

Universal localization-delocalization transition in chiral-symmetric Floquet drives (22 pages)	104205
Adrian B. Culver, Pratik Sathe, Albert Brown, Fenner Harper, and Rahul Roy	
Thermoelectric transport in graphene under strain fields modeled by Dirac oscillators (14 pages)	104206
Juan A. Cañas, Daniel A. Bonilla, and A. Martín-Ruiz	
Exact multiple complex mobility edges and quantum state engineering in coupled one-dimensional quasicrystals (12 pages)	104207
Li Wang, Zhenbo Wang, Jiaqi Liu, and Shu Chen	
Hydrogen liquid-liquid transition from first principles and machine learning (8 pages)	104208
Giacomo Tenti, Bastian Jäckl, Kousuke Nakano, Matthias Rupp, and Michele Casula	
Dynamics, dynamical systems, lattice effects:	
Stabilizer entropy in nonintegrable quantum evolutions (14 pages)	104301
J. Odavić, M. Viscardi, and A. Hamma	
Entanglement transition in a cluster spin chain coupled with free spins (14 pages)	104302
Kevissen Sellapillay, Laurent Raymond, and Alberto D. Verga	
Dynamics of interacting particles on a rhombus chain: Aharonov-Bohm caging and inverse Anderson transition (10 pages)	104304
Sitaram Maity, Biswajit Paul, Saumya Prakash Sharma, and Tapan Mishra	
Exciton dynamics in marginally twisted WSe ₂ homobilayer: Role of interlayer coupling, phonons, and intervalley scattering (17 pages)	104305
Hansol Kim, Gyusu Lee, Jinjae Kim, Jiwon Park, Andrew S. Kim, Jongyun Choi, Kenji Watanabe, Takashi Taniguchi, Moon-Ho Jo, and Hyunyoung Choi	
Analog Unruh effect of inhomogeneous one-dimensional Dirac fermions (8 pages)	104306
Khristian B. Tallent and Daniel E. Sheehy	
Distinct Jahn-Teller-induced negative thermal expansion behaviors in Cr ₂ P ₂ O ₇ (9 pages)	104307
Yuan Liang, Gaojie Zeng, Xiangkai Hao, Juan Guo, Xiansheng Liu, Qilong Gao, Yu Jia, and Erjun Liang	
From superconductivity to nonsuperconductivity in LiPdH: A first principles approach (10 pages)	104308
Zahra Alizadeh, Yue-Wen Fang, Ion Errea, and M. R. Mohammadizadeh	
Kibble-Zurek dynamics across the first-order quantum transitions of quantum Ising chains in the thermodynamic limit (17 pages)	104309
Andrea Pelissetto, Davide Rossini, and Ettore Vicari	
☞ Onset of coherent phonon motion in Peierls-distorted antimony by attosecond transient absorption (18 pages)	104310
Lauren B. Drescher, Bethany R. de Roulet, Yoong Sheng Phang, and Stephen R. Leone	
Phonon-limited carrier transport in the Weyl semimetal TaAs (9 pages)	104311
Zhe Liu, Shashi B. Mishra, Jae-Mo Lihm, Samuel Poncé, and Elena R. Margine	
Simulating quantum circuits with tree tensor networks using density-matrix renormalization group algorithm (12 pages)	104312
Aditya Dubey, Zeki Zeybek, and Peter Schmelcher	

(Continued)

System symmetry and the classification of out-of-time-ordered correlator dynamics in quantum chaos (<i>12 pages</i>)	104313
Fuxing Chen and Ping Fang	
Nonadiabatic phonon self-energy due to electrons with finite linewidths (<i>12 pages</i>)	104314
Cheol-Hwan Park	
Emergent deterministic entanglement dynamics in monitored infinite-range bosonic systems (<i>10 pages</i>)	104315
Zejian Li, Anna Delmonte, and Rosario Fazio	
Strong Hilbert space fragmentation and fractons from subsystem and higher-form symmetries (<i>9 pages</i>)	104316
Charles Stahl, Oliver Hart, Alexey Khudorozhkov, and Rahul Nandkishore	
Floquet engineered inhomogeneous quantum chaos in critical systems (<i>7 pages</i>)	104317
Bastien Lapierre, Tokiro Numasawa, Titus Neupert, and Shinsei Ryu	
Collective enhancement in nonreciprocal multimode quantum batteries (<i>9 pages</i>)	104318
Niaz Ali Khan, Xingyu Zhang, Chenlong Huang, Yue Liu, and Dahai He	
 Mean-field mixed quantum-classical approach for many-body quantum dynamics of exciton polaritons (<i>10 pages</i>)	104319
Pritha Ghosh, Arshath Manjalingal, Sachith Wickramasinghe, Saeed Rahmanian Koshkaki, and Arkajit Mandal	
Phonon-mode-specific modulation of electronic states in molybdenum dioxide (<i>8 pages</i>)	104320
Florence Burri, Marko Hollm, Erik W. de Vos, Lukas Gallmann, Ursula Keller, and Sergej Neb	
Nonreciprocal phase shifts in spatiotemporally modulated systems (<i>13 pages</i>)	104321
Jiuda Wu and Behrooz Yousefzadeh	
Driven nonunitary dynamics of quantum critical systems (<i>18 pages</i>)	104322
Bastien Lapierre, Pietro Pelliconi, Shinsei Ryu, and Julian Sonner	
Pressure-induced phase transitions in (EDO-TTF) ₂ SbF ₆ single crystals revealed by ultrafast optical spectroscopy (<i>12 pages</i>)	104323
Thomas Gauthier, Nicolas Godin, Elzbieta Trzop, Roman Bertoni, Xiangfeng Shao, Mitsuhiro Maesato, Yoshiaki Nakano, and Hideki Yamochi	
Role of long-range dipolar interactions in the simulation of the properties of polar crystals using effective atomic potentials (<i>9 pages</i>)	104324
Miao Yu, Fernando Gómez-Ortiz, Louis Bastogne, Jin-Zhu Zhao, and Philippe Ghosez	
Magnetism	
Excitations and dynamical structure factor of J_1 - J_2 spin- $\frac{3}{2}$ and spin- $\frac{5}{2}$ Heisenberg spin chains (<i>15 pages</i>)	104401
Aman Sharma, Mithilesh Nayak, Natalia Chepiga, and Frédéric Mila	
Spontaneous symmetry breaking in the Heisenberg antiferromagnet on a triangular lattice (<i>15 pages</i>)	104402
Bastián Pradenas, Grigor Adamyan, and Oleg Tchernyshyov	
 Rethinking α -RuCl ₃ : Parameters, models, and phase diagram (<i>37 pages</i>)	104403
Marius Möller, P. A. Maksimov, Shengtao Jiang (蒋晨韬), Steven R. White, Roser Valentí, and A. L. Chernyshev	

(Continued)

Real-space Chebyshev-Bogoliubov method for topological thermal transport in magnon systems (<i>13 pages</i>)	104404
Hengyi Xu	
Thermodynamics of the $S = \frac{1}{2}$ maple-leaf Heisenberg antiferromagnet (<i>8 pages</i>)	104405
Taras Hutak	
Spin waves in $\text{Na}_2\text{Co}_2\text{TeO}_6$ studied by high-frequency/high-field ESR: Successes and failures of the triple- $\mathbf{q}$ model (<i>13 pages</i>)	104406
Luca Bischof, Jan Arneth, Raju Kalaivanan, Raman Sankar, Kwang-Yong Choi, and Rüdiger Klingeler	
Applied-field magnetic structure and spectroscopy shifts of the effective spin- $\frac{1}{2}$ XY -like magnet Li_2CoCl_4 (<i>10 pages</i>)	104407
Zachary W. Riedel, Mykhaylo Ozerov, Stuart Calder, and Daniel P. Shoemaker	
 Identifying switching of antiferromagnets by spin-orbit torques (<i>8 pages</i>)	104408
Martin Jourdan, Jonathan Bläßer, Guzmán Orero Gámez, Sonka Reimers, Lukas Odenbreit, Miriam Fischer, Yuran R. Niu, Evangelos Golias, Francesco Maccherozzi, Armin Kleibert, Hermann Stoll, and Mathias Kläui	
Switching magnetic texture via in-plane magnetic field in noncentrosymmetric dipolar magnets: From skyrmions to antiskyrmions and nontopological magnetic bubbles (<i>13 pages</i>)	104409
Tatsuki Muto and Masahito Mochizuki	
Strain-induced manipulation of noncollinear antiferromagnets (<i>9 pages</i>)	104410
Mithuss Tharmalingam, Feodor Svetlanov Konomaev, and Kjetil M. D. Hals	
 G -type antiferromagnetic BiFeO_3 is a multiferroic g -wave altermagnet (<i>14 pages</i>)	104411
Andrea Urru, Daniel Seleznev, Yujia Teng, Se Young Park, Sebastian E. Reyes-Lillo, and Karin M. Rabe	
Correlation between unconventional spin Hall effect and crystal structure in the noncollinear antiferromagnet Mn_3Sn (<i>7 pages</i>)	104412
Dequan Meng, Meng Zhu, Hao Yan, Chuangwen Wu, Sha Lu, Pan Zhang, Yurong Su, Cuimei Cao, Yong Liu, Rui Xiong, Long You, Hao Wu, Shiwei Chen, Jia Zhang, and Shiheng Liang	
From continuum excitations to sharp magnons via transverse magnetic field in the spin- $\frac{1}{2}$ Ising-like triangular lattice antiferromagnet $\text{Na}_2\text{BaCo}(\text{PO}_4)_2$ (<i>21 pages</i>)	104413
Leonie Woodland, Ryutaro Okuma, J. Ross Stewart, Christian Balz, and Radu Coldea	
Thermomagnetic irreversibility in a $\text{Cr}_{1.45}\text{Te}_2$ crystal: Role of spin-phonon coupling (<i>14 pages</i>)	104414
Ruihuan Lan, Xuan Luo, Nan Zhou, Aile Wang, Ming Cheng, Lanxin Liu, Yongqiang Pan, Ranran Zhang, Jingxin Li, Yubin Hou, Wenhai Song, Qingyou Lu, and Yuping Sun	
Quantum entanglement generation in heterometallic $\text{Ni}_4^{2+}\text{Gd}_4^{3+}$ complexes (<i>12 pages</i>)	104415
Hamid Arian Zad, Michal Jaščur, Azam Zoshki, Ralph Kenna, and Nerses Ananikian	
Electric field regulation of exchange bias in BiFeO_3/Co bilayers with different crystal orientations (<i>9 pages</i>)	104416
Anpeng He, Yu Lu, Yihang Guo, Yuan Yuan, Lin Liu, Yechao Ling, Xiao Yu, Meng Yang, Yi Xie, Fan Zhang, Fengzhen Huang, Xingsen Gao, Jun Du, and Qingyu Xu	
Magnetocalorics of singlet ground state induced moment magnets (<i>15 pages</i>)	104417
Peter Thalmeier	

(Continued)

Analytical dispersion relation for forward volume spin waves in ferrimagnets near the angular momentum compensation condition (<i>8 pages</i>)	104418
Luis Sánchez-Tejerina, David Osuna Ruiz, Víctor Raposo, Eduardo Martínez, Luis López Díaz, and Óscar Alejos	
Impurity band driven ferromagnetism in nonmetal-doped holey graphyne (<i>9 pages</i>)	104419
Han-Bing Li and Zhi-Gang Shao	
 Spin glass effects and nonexistence of a ferromagnetic quantum critical point in the compositionally tuned FeGa _{3-x} Ge _x metallic quantum ferromagnets ($x = 0.0 - 0.16$) (<i>15 pages</i>)	104420
Stanislav Vrtnik, Primož Koželj, Magdalena Wencka, Kristian Bader, Julia Petrović, Jože Luzar, Peter Mihor, Andreja Jelen, Peter Gille, and Janez Dolinšek	
Anisotropic piezomagnetism in noncollinear antiferromagnets (<i>18 pages</i>)	104421
Vu Thi Ngoc Huyen, Yuki Yanagi, and Michi-To Suzuki	
Trilinear coupling and toroidicity in multiferroics (<i>10 pages</i>)	104422
Andrea Urru, Alessio Filippetti, Jorge Íñiguez-González, and Vincenzo Fiorentini	
Emergence of insulating ferro- and ferrimagnetism with enhanced optical properties in double-double perovskite oxides (<i>10 pages</i>)	104423
Monirul Shaikh, Fengyi Zhou, Sathiyamoorthy Buvaneswaran, Rajan Gowsalya, Trilochan Sahoo, Duo Wang, and Saurabh Ghosh	
Transfer matrix and lattice dilatation operator for high-quality fixed points in tensor network renormalization group (<i>21 pages</i>)	104424
Nikolay Ebel, Tom Kennedy, and Slava Rychkov	
Pinch line spin liquids as layered Coulomb phases and applications to cubic models (<i>21 pages</i>)	104425
N. Davier, F. A. Gómez Albarracín, H. Diego Rosales, P. Pujol, and Ludovic D. C. Jaubert	
Magnetic dynamics in NiTiO ₃ honeycomb antiferromagnet using neutron scattering (<i>8 pages</i>)	104426
Srimal Rathnayaka, Luke Daemen, Tao Hong, Songxue Chi, Stuart Calder, John A. Schneeloch, Yongqiang Cheng, Bing Li, and Despina Louca	
Giant bulk spin photovoltaic effect in the two-dimensional altermagnetic multiferroics VOX ₂ (<i>9 pages</i>)	104427
Yao Yang	
Spin fluctuations, absence of magnetic order, and crystal electric field studies in the Yb ³⁺ -based triangular lattice antiferromagnet Rb ₃ Yb(VO ₄) ₂ (<i>13 pages</i>)	104428
Sebin J. Sebastian, R. Kolay, Abhidev. B, Q.-P. Ding, Y. Furukawa, and R. Nath	
Classification of spin- $\frac{1}{2}$ fermionic quantum spin liquids on the trillium lattice (<i>27 pages</i>)	104429
Ming-Hao Li, Sounak Biswas, and S. A. Parameswaran	
 Noncollinear antiferromagnetism in a quantum paraelectric EuTiO ₃ thin film (<i>10 pages</i>)	104430
J. Bedard, J. Franklin, Z. Ritchey, M. D. Morales-Acosta, M. Jain, and I. Sochnikov	
Richness of the nature of intermolecular interactions in spin-crossover materials and its implications (<i>8 pages</i>)	104431
Oleksandr Markin, Iurii Gudyma, and Kamel Boukheddaden	

(Continued)

 Emerging magnetic phase in the orthoferrite HoFeO_3 detected by spin Hall magnetoresistance and spin Seebeck effect (6 pages)	104432
M. Basit, H. G. Giil, T. W. J. Metzger, O. Alves Santos, F. Johnson, P. Pathak, M. Hehn, S. Mangin, A. Brataas, A. V. Kimel, and C. Ciccarelli	
Identification of mechanisms of magnetic transitions using an efficient method for converging on first-order saddle points (20 pages)	104433
Hendrik Schrautzer, Moritz Sallermann, Pavel F. Bessarab, and Hannes Jónsson	
Breakdown of superdiffusion in perturbed quantum integrable spin chains and ladders (7 pages)	104434
Kevin Wang and Joel E. Moore	
Achieving giant tunneling magnetoresistance and electroresistance through electrical control of Néel vectors (12 pages)	104435
Fangqi Liu, Shichen Zhang, Zhenhua Zhang, Tongtong Wang, Yong Liu, Zhihong Lu, Lei Shen, Sicong Zhu, and Rui Xiong	
Complex magnetic properties of the double perovskite $\text{Hg}_2\text{MnTeO}_6$ probed by thermodynamic measurements and neutron diffraction (13 pages)	104436
En-Pei Liu, Sagar Mal Kumawat, Chi-Cheng Lee, Tzu-Hao Liu, Angel M. Arévalo-López, Wei-Tin Chen, and Chien-Lung Huang	
 Large spin accumulation signals in ultrafast magneto-optical experiments (9 pages)	104437
Alberto Anadón, Harjinder Singh, Eva Díaz, Yann Le-Guen, Julius Hohlfeld, Richard B. Wilson, Gregory Malinowski, Michel Hehn, and Jon Gorchon	
 Skyrmion motion in synthetic antiferromagnets and ferrimagnets driven by asymmetric spin wave emission (15 pages)	104438
Christopher E. A. Barker, Charles Parton-Barr, Christopher H. Marrows, Olga Kazakova, and Craig Barton	
Prediction of room-temperature polar ferromagnetism in a two-dimensional pentalattice (8 pages)	104439
Shanbao Chen, Huasheng Sun, Yarui Wang, Chaoyong Wang, Kai Wang, Chengxi Huang, and Erjun Kan	
 Magnon-induced scalar spin chirality in kagome and honeycomb ferromagnets (10 pages)	104440
Nanse Esaki, Gyungchoon Go, and Se Kwon Kim	
Magnetic ground state, critical analysis of magnetization, and large magnetocaloric effect in ferromagnetically coupled kagome lattice $\text{YCa}_3(\text{MnO})_3(\text{BO}_3)_4$ (13 pages)	104441
A. Choudhary, A. Magar, S. Ghosh, S. Kanungo, and R. Nath	
Accelerated ultrafast demagnetization of an interlayer-exchange-coupled Co/Mn/Co trilayer (7 pages)	104442
Jendrik Gördes, Ivar Kumberg, Chowdhury S. Awsaf, Marcel Walter, Tauqir Shinwari, Sangeeta Thakur, Sangeeta Sharma, Christian Schüßler-Langeheine, Niko Pontius, and Wolfgang Kuch	
Magnetoelastic-coupling-assisted first-order antiferromagnetic transitions in the corrugated honeycomb-lattice compounds $(\text{Ca}, \text{Sr})\text{Mn}_2\text{P}_2$ (8 pages)	104443
Santanu Pakhira, Liran Wang, N. S. Sangeetha, Aashish Sapkota, Teslin R. Thomas, Andreas Kreyssig, Frédéric Hardy, Anna E. Böhmer, Christoph Meingast, and David C. Johnston	
Orbital magnetic moments in FeCr_2S_4 studied by x-ray magnetic circular dichroism (8 pages)	104444
V. K. Verma, J. Patra, V. R. Singh, Y. Nonaka, G. Shibata, K. Ishigami, A. Tanaka, K. Ohgushi, Y. Tokura, T. Koide, and A. Fujimori	

(Continued)

Observation of Dzyaloshinskii-Moriya interaction and efficient perpendicular magnetization switching in sputtered $(\text{BiSb})_2\text{Te}_3$ -ferromagnet heterostructures (8 pages)	104445
Ying Feng, Yichi Zhang, Jianrong Zhang, Yalu Zuo, Fanyu Meng, Tuo Zhang, Liu Yang, Donglin Song, Mingyang Sun, Aleksei G. Kozlov, Alexey V. Ognev, Li Xi, Jijun Zhao, and Yi Wang	
Spin current direction dependent terahertz emission induced by directional interfacial alloying in Co/Al/Pt trilayers (10 pages)	104446
Jia Xu, Shaohua Zhang, Xianguo Jiang, Yaxuan Jin, Lei Hao, Mengyang Jing, Xitong Cao, Tianfu He, Hao Meng, Mengci He, Yizheng Wu, Wendeng Huang, Yan Zhou, and Chao Zhou	
Superfluidity and superconductivity	
Ratchet Hall effect in fluctuating superconductors (8 pages)	104501
A. V. Parafilo, V. M. Kovalev, and I. G. Savenko	
Theoretical prediction of superconductivity in intrinsic and hydrogenated transition metal mononitride monolayers (10 pages)	104502
Shiye Chen, Meiling Xu, Yiming Zhang, Weishuo Xu, Caoping Niu, and Yinwei Li	
MBenes: A two-dimensional platform for high-temperature superconductivity via hydrogenation-induced Van Hove singularities (12 pages)	104503
Xianghui Meng, Yanqing Shen, Xin Yang, Kunpeng Cai, Qing Ai, Yong Shuai, and ZhongXiang Zhou	
Normal-state quantum geometry, nonlocality, and superconductivity (11 pages)	104504
Florian Simon	
Pressure-induced superconductivity in the van der Waals semiconductor violet phosphorus (7 pages)	104505
Yiyuan Wu, Lei Mu, Xu Zhang, Dongzhe Dai, Lu Xin, Xiangming Kong, Shenyang Huang, Ke Meng, Xiaofan Yang, Chengpeng Tu, Jiamin Ni, Hugen Yan, and Shiyan Li	
Tunable Josephson diode effect in singlet superconductor-altermagnet-triplet superconductor junctions (10 pages)	104506
Lovya Sharma and Manisha Thakurathi	
Phonon-mediated intrinsic topological superconductivity in Fermi arcs (15 pages)	104507
Kristian Mæland, Masoud Bahari, and Björn Trauzettel	
Tuning the fundamental periodicity of the current-phase relation in multiterminal diffusive Josephson junctions (6 pages)	104508
Venkat Chandrasekhar	
Ferroelectrically switchable chirality in topological superconductivity (10 pages)	104509
Kai-Zhi Bai, Bo Fu, and Shun-Qing Shen	
Phonon-mediated spin-polarized superconductivity in altermagnets (12 pages)	104510
Kristoffer Leraand, Kristian Mæland, and Asle Sudbø	
Vortex stability in interacting Bose-Einstein condensates (11 pages)	104511
Ajay Srinivasan, Aaron Wirthwein, and Stephan Haas	
Pressure-induced nearly perfect rectangular lattice and superconductivity in the organic molecular crystal $(\text{DMET-TTF})_2\text{AuBr}_2$ (12 pages)	104513
Taiga Kato, Hanming Ma, Kazuyoshi Yoshimi, Takahiro Misawa, Shigen Kumagai, Youhei Iida, Yoshiaki Sasaki, Masashi Sawada, Jun Gouchi, Takuya Kobayashi, Hiromi Taniguchi, Yoshiya Uwatoko, Hiroyasu Sato, Noriaki Matsunaga, Atsushi Kawamoto, and Kazushige Nomura	

(Continued)

Quantum-geometric spin and charge Josephson diode effects (<i>6 pages</i>)	104514
Niklas L. Schulz, Danilo Nikolić, and Matthias Eschrig	
Theory of quantum-geometric charge and spin Josephson diode effects in strongly spin-polarized hybrid structures with noncoplanar spin textures (<i>24 pages</i>)	104515
Niklas L. Schulz, Danilo Nikolić, and Matthias Eschrig	
Nonequilibrium charge-vortex duality (<i>9 pages</i>)	104516
Lazaros Tsaloukidis, Francisco Peña-Benítez, and Piotr Surówka	
Axion electrodynamics of Weyl superconductors with broken time-reversal symmetry (<i>11 pages</i>)	104517
Vira Shyta, Jeroen van den Brink, and Flavio S. Nogueira	

