

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

- Phase transitions and electrical conductivity of selenium disulfide at high pressure (7 pages) 214101
Huixin Hu, Israel Osmond, Calum Strain, Hannah A. Shuttleworth, Callum R. Stevens, Andrew Huxley,
Mikhail A. Kuzovnikov, Federico A. Gorelli, Eugene Gregoryanz, Miriam Peña-Alvarez,
Philip Dalladay-Simpson, and Ross T. Howie
- Systematic studies on phase transitions, phase compositions, and phase diagram of the methane-helium binary
system under isothermal compression (8 pages) 214102
Xiangdong Li, Di Mai, Wentao Liang, Cheng Zhong, Xiaoyu Sun, Rucheng Dai, Zhongping Wang,
Chan Gao, Sergey S. Lobanov, and Zengming Zhang
- Thermophysical properties of Li_2C_2 at elevated temperatures and pressures and its influence on thermal
equation of state: A systematic *ab initio* study (21 pages) 214103
S. Gorai and Aditi Ray
- Nonlinear breakdown of antisymmetric flexoelectric coupling (7 pages) 214104
Yingzhuo Lun, Yida Yang, Tingjun Wang, Qi Ren, Sang-Wook Cheong,
Xueyun Wang, and Jiawang Hong
- Stabilizing MgB_2 -like superconductivity in LiB_2C_2 -derived borocarbides through isovalent metal
cosubstitution (10 pages) 214105
Renhai Wang, Yanwei Liang, Huafeng Dong, and Zhenyu Zhang
- Lead transition metal oxides: Globally alike, locally very diverse (12 pages) 214106
A. Bussmann-Holder, A. M. Glazer, A. Majchrowski, I. Lazar, A. Soszyński, and K. Roleder
- Ultrahigh-pressure structural evolution of holmium to 327 GPa (8 pages) 214107
Hongkai Li, Mingyu Li, Xiaokuan Hao, Zhongyan Wu, Hechong Wang, Shaojie Wang, Jing Song,
Ke Yang, Guoying Gao, Lin Wang, and Yongjun Tian
- Sound velocities of BaSO_4 and SrSO_4 under shock compression to 10 GPa and implications for elastic softening
in BaSO_4 (13 pages) 214108
Kaile Tang, Xilong Dou, Bo Gan, Feng Gao, Qing He, Wenhao Song, and Youjun Zhang
- ☞ Defect-mediated melting of square-lattice solids (12 pages) 214109
William Grampel and Daniel Podolsky
- X-ray reciprocal space imaging of a screw-dislocation network at a low-angle twist boundary in a SrTiO_3
membrane transfer-bonded to bulk SrTiO_3 (13 pages) 214110
Jeremy Maltitz, Martin Schmidbauer, Carsten Richter, Michael Hanke, Ferris Stümpel, Thomas Schroeder,
Jutta Schwarzkopf, and Jens Martin



(Continued)



2469-9950(20260601)113:21;1-Z

Distinguishing polarization orientation via second-harmonic generation in the potential sliding ferroelectric SnP_2S_6 (12 pages)	214111
Fengfeng Ye, Qiankun Li, Zhuocheng Lu, Xinfeng Chen, Yang Li, Hua Wang, Lu You, and Gaoyang Gou	
Probing the equation of state of hydrogen and deuterium across an expanded phase space via static-dynamic compression (12 pages)	214112
Xuyang Ma, Yuchun Tu, Zhiyu He, Qili Zhang, Guo Jia, Haifeng Liu, Zhiheng Fang, Peipei Wang, Haifeng Song, Qiong Li, Zhiyong Xie, Junjian Ye, Benyuan Cheng, Fan Zhang, Jun Xiong, Jiaqin Dong, Chen Wang, Siyuan Li, Pei Guo, Boyang Song, Jinren Sun, Wei Wang, Yuqiu Gu, and Xiuguang Huang	
Stability of lithium-xenon compounds at high pressures (8 pages)	214113
Xiaomeng Wang, Pei Zhou, Junjie Wang, Chi Ding, Qing Lu, Yu Han, Yang Ni, and Zhijie Cao	
First-principles prediction of a multiferroic semiconductor with switchable spin-polarized Berry curvature dipole: $\text{PbMnO}_3\text{:PbVO}_3$ (10 pages)	214114
Arpita Paul and Umesh V. Waghmare	
Inhomogeneous, disordered, and partially ordered systems	
 Regularized universal topological markers for Dirac systems (10 pages)	214201
Yulin Qin, Chang-An Li, and Jian Li	
Inverse determination of light-matter coupling in disordered systems from transmittance spectra (13 pages)	214202
Thales F. Macedo, Julián Faúndez, Antônio S. Coelho, Caio Lewenkopf, Mauro S. Ferreira, Felipe A. Pinheiro, and Natanael C. Costa	
Transport scaling and critical tilt effects in disordered two-dimensional Dirac fermions (15 pages)	214203
Swadeepan Nanda and Pavan Hosur	
Resurgent reentrant localization in a non-Hermitian quasiperiodic chain (11 pages)	214204
Haoyu Wang, Fuming Xu, Liantuan Xiao, Suotang Jia, Jun Chen, and Lei Zhang	
Krylov-space anatomy and spread complexity of a disordered quantum spin chain (15 pages)	214205
Bikram Pain, David E. Logan, and Sthitadhi Roy	
Correlation between nanoscale spatial heterogeneity and primary crystallization in amorphous $\text{Ge}_2\text{Sb}_2\text{Te}_5$ materials (9 pages)	214206
Huang Huang, Jiong Zhou, Junhan Hou, Xi Yang, Huipu Liu, and Fan Zhu	
Dynamics, dynamical systems, lattice effects:	
Domain switching dynamics regulated by depolarization fields in ferroelectric thin films (12 pages)	214301
Jian Zhu, Zhaolin Wang, Xueqian Geng, Haohua Wen, Weiquan Shao, Yongcheng Zhang, and Jianyi Liu	
When rare events control time-crystalline dynamics (6 pages)	214302
Carlos Caro and Francisco Gámez	
Discrete time crystals enabled by Floquet strong Hilbert space fragmentation (10 pages)	214303
Ling-Zhi Tang, Xiao Li, Z. D. Wang, and Dan-Wei Zhang	
Anisotropic electron-phonon coupling and chiral phonons in the van der Waals room temperature ferromagnet Fe_5GeTe_2 (13 pages)	214304
Smrutiranjana Meikap, Andrzej Ptak, Jyoti Saini, Changgu Lee, Subhasis Ghosh, and Anushree Roy	

(Continued)

Quartic level repulsion in a quantum chaotic three-body system without symplectic symmetry (9 pages)	214305
Alex D. Kerin, Barbara Dietz, and Joachim Brand	
Interference-induced suppression of doublon transport and prethermalization in the extended Bose-Hubbard model (14 pages)	214306
Zhen-Ting Bao, Kai Xu, and Heng Fan	
☞ Affine transformations for purely anisotropic cloaking in flexural elastic thin plates (14 pages)	214307
Léo Pradier, Baptiste Chomette, Manuel Collet, Grégoire Pizon, Morvan Ouisse, Valentin Rapine, and Arnaud Hubert	
Phonon-mediated thermal transport in two-dimensional MoSe ₂ at cryogenic temperatures from accelerated <i>ab initio</i> calculations (10 pages)	214309
Xinyu Zhang, Cheng Shao, and Hua Bao	
Nonlinear topological edge states, topological gap solitons, and self-induced topological edge states in nonlinear Su-Schrieffer-Heeger circuit lattices (38 pages)	214310
Ruijiang Li, Wencai Wang, Xiangyu Kong, Ce Shang, Yongtao Jia, Gui-Geng Liu, Huibin Tao, Ying Liu, and Baile Zhang	
Quantum Mpemba effect in subsystem gauge symmetry restoration (12 pages)	214311
Hao-Yue Qi and Wei Zheng	
Quantum complexity and localization in random and time-periodic unitary circuits (13 pages)	214312
Himanshu Sahu, Aranya Bhattacharya, and Pingal Pratyush Nath	
Periodic dynamics in an Ising chain with a quadratic transverse field (8 pages)	214313
H. P. Zhang and Z. Song	
☞ Beyond trotterization: Variational product formulas for quantum simulation (22 pages)	214314
Ibsal Assi, Michael Vogl, Meenu Kumari, and J. P. F. LeBlanc	
Exciton-induced frequency shift in high-harmonic generation from solids (6 pages)	214315
Xiang Li, Tong Wu, Jianshi Lu, Zitan Zuo, Shengzhe Pan, Shicheng Jiang, and Jian Wu	
Bond-rigidity heterogeneity induced anomalous strong bond–strong anharmonicity and coherent phonon transport in the ultralow lattice thermal conductivity compounds $XAgY$ ($X = K, Rb, Cs$; $Y = S, Se, Te$) (18 pages)	214316
Xinrui Li, Yinchang Zhao, Pengfei Sui, Jun Ni, and Zhenhong Dai	
Maxwell-Vlasov-Uehling-Uhlenbeck simulation for coupled laser-electron dynamics in a metal irradiated by ultrashort intense laser pulses (10 pages)	214317
Mizuki Tani, Tomohito Otake, Yasushi Shinohara, and Kenichi L. Ishikawa	
Emergence of prethermal time-quasicrystalline order in a quasiperiodically driven noninteracting spin chain (15 pages)	214318
Davood Marripour and Jahanfar Abouie	
Finite-size effects on the edge loss probability in non-Hermitian quantum walks (9 pages)	214319
Shuaixian Liu, Yulan Dong, Bowen Zeng, and Meng-Qiu Long	
Nonadiabatic phonon renormalization in metallic versus insulating rutile oxides (10 pages)	214320
Reshma Kumawat, Shubham Farswan, Simranjeet Kaur, and Kaushik Sen	

(Continued)

Edge state effects in quantum work statistics (<i>10 pages</i>)	214321
Moallison F. Cavalcante	
Signatures of quantum chaos and complexity in the Ising model on random graphs (<i>25 pages</i>)	214322
G. J. Sreejith and Sandipan Manna	
Universality of dissipative discrete time crystal formation (<i>11 pages</i>)	214323
Roy D. Jara, Jr. and Jayson G. Cosme	
Generalized stochastic spin-wave theory for open quantum spin systems (<i>15 pages</i>)	214324
Zejian Li, Anna Delmonte, and Rosario Fazio	
Collective phonon mixing and eigenvector transport under isotope substitution (<i>11 pages</i>)	214325
Jeff Armstrong, Hamish Cavaye, Pankaj Sharma, and Matthew E. Potter	
Magnetism	
Self-consistent versus non-self-consistent spin-spiral calculations of magnetic exchange interactions in VASP (<i>12 pages</i>)	214401
Umit Daglum, Maria Stamenova, Ersoy Şaşıoğlu, and Stefano Sanvito	
Linear static and dynamic glassy magnetoelectric response without long-range magnetic order in cluster-glass CuMn_2O_4 (<i>12 pages</i>)	214402
A. Hati, J. K. Dey, S. Nandy, A. Kumar, S. D. Kaushik, N. Mondal, O. Ivashko, S. Majumdar, and S. Giri	
Angle-dependent resonant dynamics of stripes and skyrmions in Re/Co/Pt multilayers (<i>17 pages</i>)	214403
Sukanta Kumar Jena, Kilian Lenz, Mateusz Zelent, Mathieu Moalic, Artem Lynnyk, Aleksiej Pietruczik, Paweł Aleszkiewicz, Ewelina Milińska, Jürgen Lindner, and Andrzej Wawro	
Relationship between the two phases in a series of orbital-spin-coupled systems: $\text{Co}_{1-x}\text{Mn}_x\text{V}_2\text{O}_4$ (<i>10 pages</i>)	214404
Taichi Kobayashi, Minato Nakano, and Takuro Katsufuji	
Kitaev interaction stabilized directional spin spirals in monolayer NiBr_2 (<i>10 pages</i>)	214405
Lingzi Jiang, Jingsong Lu, Can Huang, Daning Shi, Chunlan Ma, and Yan Zhu	
Deterministic switching of perpendicular ferromagnets by higher harmonics of spin-orbit torque in noncentrosymmetric Weyl semimetals (<i>14 pages</i>)	214406
Naomi Fokkens and Fei Xue	
Orbital-driven superexchange engineering at molecule/antiferromagnetic-oxide interfaces (<i>11 pages</i>)	214407
Shuangying Ma, Marco Marino, and Guido Fratesi	
All-optical magnetometric characterization of the exchange-coupled antiferromagnet/ferromagnet system $\text{Mn}_2\text{Au} \text{Ni}_{80}\text{Fe}_{20}$ by terahertz spin-orbit torques (<i>20 pages</i>)	214408
Y. Behovits, A. L. Chekhov, B. Rosinus Serrano, A. Ruge, S. Reimers, Y. Lytvynenko, M. Kläui, M. Jourdan, and T. Kampfrath	
Observation of fluctuation driven topological Hall effect in the chiral magnet $\text{Mn}_{1/3}\text{NbS}_2$ with weak Dzyaloshinskii–Moriya interactions (<i>12 pages</i>)	214409
Haocheng Liao, Wenhao Li, Ziyi Zhou, Qisheng Jiang, Hui Cheng, Taisen Zuo, He Cheng, Xinzhi Liu, and Yue Zheng	

(Continued)

Collinear ferromagnetism with reduced moment length in kagome magnet $\text{Nd}_3\text{Ru}_4\text{Al}_{12}$ (10 pages)	214410
Yuki Ishihara, Ryota Nakano, Rinsuke Yamada, Takuya Nomoto, Priya R. Baral, Moritz M. Hirschmann, Kamini Gautam, Kamil K. Kolincio, Akiko Kikkawa, Seno Aji, Hiraku Saitoh, Masaaki Matsuda, Yasujiro Taguchi, Taka-hisa Arima, Yoshinori Tokura, Taro Nakajima, and Max Hirschberger	
Electrically controlled critical behavior of skyrmions in disordered systems (11 pages)	214412
Long Xiong, Meng-Hao Jin, Lei-Lei Nian, Shi-Qian Hu, and Bo Zheng	
Order-by-disorder from Schwinger bosons in a frustrated honeycomb ferromagnet (13 pages)	214413
Arnaud Ralko and Jaime Merino	
Generic long-range order-parameter correlations in metallic quantum magnets (24 pages)	214414
T. R. Kirkpatrick and D. Belitz	
☞ Influence of controlled disorder on the dipolar spin-ice state of Ho-based pyrochlores (15 pages)	214415
Adam A. Aczel, Brenden R. Ortiz, Yi Luo, Ganesh Pokharel, Paul M. Sarte, Clarina dela Cruz, Jue Liu, Gabriele Sala, Stephen D. Wilson, Benjamin A. Frandsen, and Joseph A. M. Paddison	
Equivalence of residual entropy of hexagonal and cubic ices from tensor network methods (10 pages)	214416
Xia-Ze Xu, Tong-Yu Lin, and Guang-Ming Zhang	
Thermodynamic framework for spin-orbit-torque-driven skyrmions: Bridging spin dynamics and energy dissipation (8 pages)	214417
Haohua Wen and Yue Zheng	
Flat bands in the J_1 - J_2 - J_3 XXZ sawtooth chain (18 pages)	214418
Vadim Ohanyan, Johannes Richter, Michael Sekania, Lucas Giambattista, Alexei Andreanov, and Marcus Kollar	
☞ Polar and quadratic magneto-optical Kerr effects in nonmagnetic/ferromagnet bilayers for spin-orbit torque measurements (11 pages)	214419
Yukihiro Marui, Masashi Kawaguchi, Kohji Nakamura, and Masamitsu Hayashi	
Controlling resonant spin photocurrent using magnetic field: Application to the magnetoelectric oxide Cr_2O_3 (10 pages)	214420
Zhuo-Cheng Gu and Hiroaki Ishizuka	
Magnetic field induced modification of a first-order ferromagnetic transition in Eu_2In (15 pages)	214421
Ajay Kumar, Anis Biswas, Trevor A. Tyson, Daniel Haskel, Christopher J. Pollock, and Yaroslav Mudryk	
Fragile long-range antiferromagnetic order in the triangular-lattice quantum magnet ErZn_3P_3 (9 pages)	214422
Yimin Wang, Peiyue Ma, Weijie Lin, Ye Xia, Yujie Wang, Ruixiang Jiang, Xinlei Liu, Chaoxin Huang, Tao Xie, and Meng Wang	
Excitation spectrum and low-temperature magnetism in the disordered defect-fluorite $\text{Ho}_2\text{Zr}_2\text{O}_7$ (10 pages)	214423
P. L. Oliveira Silva, J. G. A. Ramon, Viviane Peçanha-Antonio, Tatiana Guidi, J. S. Gardner, Chun Sheng Fang, and R. S. Freitas	
Many-body skyrmion interactions in helimagnets (10 pages)	214424
N. P. Vizarrim, J. C. Bellizotti Souza, Raí M. Menezes, Clécio C. de Souza Silva, P. A. Venegas, and M. V. Milošević	

(Continued)

Magnetic precession induced spin accumulation in collinear antiferromagnets (<i>10 pages</i>)	214425
Qianqian Xue and Jian Zhou	
Hybridized kagome bands and induced Ti magnetism in RTi_3Bi_4 ($R = Nd, Sm, Gd$) kagome metals studied using angle-resolved photoemission spectroscopy and x-ray magnetic circular dichroism (<i>10 pages</i>)	214426
Chan-young Lim, Francesc Ballester, Arunava Kar, Manex Alkorta, David Subires, Ji Dai, Massimo Tallarida, Elio Vescovo, Timur K. Kim, Cephise Cacho, Changjiang Yi, Subhajit Roychowdhury, Avdhesh Kumar Sharma, Yongseong Choi, Gilberto Fabbri, Joerg Strempfer, Pierluigi Gargiani, Chandra Shekhar, Claudia Felser, Ion Errea, Maia G. Vergniory, and Santiago Blanco-Canosa	
Dimerization in the Ising ladder with four-spin plaquette interaction induced by a random transverse field (<i>10 pages</i>)	214427
Wesley Luiz de Souza, Paulo H. L. Martins, and Érica de Mello Silva	
Polaron-mediated anisotropic exchange in two-dimensional magnets (<i>10 pages</i>)	214428
Johanna P. Carbone, Jakob Baumsteiger, and Cesare Franchini	
Effect of spin-orbit coupling on anomalous quantum oscillations in InAs/GaSb quantum wells (<i>11 pages</i>)	214429
Xinlong Du, Chao Wang, Bo Ying, and Juntao Song	
Emergent spin-singlet pairing in the frustrated kagome metal $Sc_3Mn_3Al_7Si_5$ (<i>8 pages</i>)	214430
R. Guehne, A. K. Sharma, P. Yanda, J. Noky, J. Sichelschmidt, R. Koban, W. Schnelle, C. Shekhar, M. Baenitz, and C. Felser	
Orbital altermagnetism on the kagome lattice and possible application to AV_3Sb_5 (<i>8 pages</i>)	214431
Anzumaan R. Chakraborty, Fan Yang, Turan Birol, and Rafael M. Fernandes	
Magnonic properties of hematite $\alpha\text{-Fe}_2\text{O}_3$: A combined <i>ab initio</i> and atomistic spin dynamics study (<i>8 pages</i>)	214432
Shanshan Hu, Ziyang Li, Liya Qiao, Yuzhong Zhang, Zongzhi Zhang, and Yaowen Liu	
Tunable spin-spin coupling mediated by phonons in one-dimensional systems and its application to color centers in hexagonal boron nitride ribbons (<i>6 pages</i>)	214433
Jotaro J. Nakane and Ai Yamakage	
Spin chirality driven tunability and multifunctionality in two-dimensional noncollinear antiferromagnets (<i>8 pages</i>)	214434
Ting Lai, Yongqian Zhu, Jie Zhang, Yuhui Li, Guolin Wan, Xudan Zhang, Jia-Tao Sun, Jinbo Pan, and Shixuan Du	
Topological phase transitions by time-dependent electromagnetic fields in frustrated magnets: Role of dynamical and static magnetic fields (<i>11 pages</i>)	214435
Tatsuya Shirato, Ryota Yambe, and Satoru Hayami	
Spin-correlation dynamics: A semiclassical framework for nonlinear quantum magnetism (<i>20 pages</i>)	214436
Lukas Körber, Pim Coenders, and Johan H. Mentink	
Tetrahedral ferromagnetic correlations and a glassy-freezing anomaly in the breathing pyrochlore magnet $AgInCr_4S_8$ with partial A-site disorder (<i>11 pages</i>)	214437
Yuya Haraguchi, Masahiro Kitamura, Masaki Gen, Yusuke Nambu, Akira Matsuo, Koichi Kindo, Masaki Kondo, Masashi Tokunaga, and Hiroko Aruga Katori	

(Continued)

Mirror-time reversal symmetry controlled antiferromagnetic tunnel junctions (8 pages)	214438
Jing Sun, Xiaohong Zheng, Kang Jia, Xiaoli Fan, and Tengfei Cao	
Altermagnetism of ultrathin CrSb slabs (9 pages)	214439
Brahim Marfoua, Mohammad Amirabbasi, and Marcus Ekholm	
Ferrimagnetic Blume-Emery-Griffiths sawtooth chain: Spin ice and quasiordering (11 pages)	214440
A. A. Zvyagin and G. A. Zvyagina	
Giant anomalous Hall conductivity and magnetostriction in heavy-element substituted Co-based all- <i>d</i> Heusler alloys (9 pages)	214441
Pengju Wu, Tao Zhu, Chengwu Xie, Hang Li, and Wenhong Wang	
Intercalation-induced near room-temperature ferromagnetism in CrI ₃ via synergistic exchange pathways (9 pages)	214442
Qing-Han Yang, Jia-Wen Li, Xin-Wei Yi, Xiang Li, Jing-Yang You, Gang Su, and Bo Gu	
Small Co-doping induced magnetic and electrical transitions in single crystal CaFe _{0.95} Co _{0.05} O ₃ (8 pages)	214443
Hailiang Xia, Zhehong Liu, Yan Wu, Qian Sun, Naoaki Hayashi, Xi Shen, Huibo Cao, Clarina dela Cruz, Richeng Yu, Yi-feng Yang, Mikio Takano, and Youwen Long	
Complex magnetic phases and thermodynamics of CuB ₂ O ₄ (8 pages)	214444
C. H. Lai, M.-J. Hsieh, N. Puri, Yiing-Rei Chen, J. K. Wang, Y. H. Liang, P.-Y. Chen, Shin-ichiro Yano, C.-W. Wang, C. H. Du, C.-L. Huang, and J.-Y. Lin	
X-ray magnetic circular dichroism of altermagnet α -Fe ₂ O ₃ based on multiplet ligand-field theory using Wannier orbitals (11 pages)	214445
Ruiwen Xie, Hamza Zerdoumi, and Hongbin Zhang	
Multiscale study of various topological spin textures in two-dimensional materials (12 pages)	214446
Nan Fei, Yan Luo, Jiabao Liao, Jia Luo, Lei Gu, Jing Xia, Xue Liang, and Guoping Zhao	
Entropy landscape and field-tuned thermodynamics of the large-spin Shastry-Sutherland magnet Eu ₂ MgSi ₂ O ₇ (8 pages)	214447
Huanpeng Bu, Han Ge, Fangli Li, Lei Xu, Jiayue Yuan, Tiantian Li, Junzhe Liu, Jian Chen, Ying Fu, Nan Zhao, Zhongwen Ouyang, Ping Miao, Jieming Sheng, and Liusuo Wu	
Chemical tuning of magnetic ordering and cryogenic magnetocaloric response in zircon-type Gd _{1-x} Er _x VO ₄ (11 pages)	214448
Ming Zeng, Muqing Su, Liang Ming, Xiaolong Yang, Wang Chen, Lingwei Li, and Hai-Feng Li	
Anatomy of the modern theory of orbital magnetism from first principles: Term-by-term analysis in the gauge-covariant formalism (32 pages)	214449
Hojun Lee, Insu Baek, Mirco Sastges, Yuriy Mokrousov, Hyun-Woo Lee, and Dongwook Go	
 Giant magnetoelasticity in FeRh thin films evidenced via strong phonon-magnon coupling (7 pages)	214450
D. Ourdani, C. Gourdon, J. A. Arregi, V. Uhlřř, Y. Roussignć, and L. Thevenard	
Decisive role of an extra Fe sublattice: Frustration, criticality, and skyrmions in the van der Waals ferromagnets Fe ₅ GeTe ₂ versus Fe ₃ GeTe ₂ (13 pages)	214451
Jyoti Saini, Ankita Tiwari, Pawan Kumar Srivastava, Changgu Lee, and Subhasis Ghosh	

(Continued)

 Crystal electric field excitations and spin dynamics in the spin-orbit coupled distorted honeycomb magnet BiErGeO ₅ (16 pages)	214452
S. Mohanty, S. Guchhait, S. S. Islam, Surya P. Patra, M. P. Saravanan, J. A. Krieger, T. J. Hicken, H. Luetkens, D. T. Adroja, Gørn J. Nilsen, M. D. Le, and R. Nath	
Pressure-lifted Néel temperature in the van der Waals antiferromagnet MnPS ₃ (10 pages)	214454
Hongze Zhao, Zeyu Li, Xiangqi Wang, Xiaoyu Sun, Zilong Xu, Di Mai, Chong Zhong, Yang Zhang, He Wang, Rucheng Dai, Zhongping Wang, Zhenhua Qiao, and Zengming Zhang	
Stacking theory for bilayer two-dimensional magnets (6 pages)	214455
Jun-Xi Du, Sike Zeng, and Yu-Jun Zhao	
Antiferromagnetic solitons in NiO as possible entities for logic operations (8 pages)	214456
Z. Li, T. Chirac, J. Tranchida, J.-Y. Chauleau, and M. Viret	
Strain-driven antiferroelastic switching of altermagnetism (11 pages)	214457
Fanjunjie Han, Shuaihao Tang, Jian-Dong Sun, Xin-Gang Zhao, and Haiyang Xu	
Moiré magnetism in a bilayer Ising model (6 pages)	214459
Ryan Flynn and Anders W. Sandvik	
Superfluidity and superconductivity	
Correlation lengths of flat-band superconductivity from quantum geometry (11 pages)	214501
S. S. Elden and M. Iskin	
Two-dimensional coherent spectroscopy of disordered superconductors in the narrow-band and broad-band limits (21 pages)	214502
Naoto Tsuji	
Gate-tunable superconducting spin valve in a van der Waals ferromagnet/superconductor/ferromagnet trilayer (13 pages)	214503
A. S. Ianovskaia, G. A. Bobkov, A. M. Bobkov, and I. V. Bobkova	
Emergence of charge-imbalanced BCS state and suppression of the nonequilibrium Fulde-Ferrell-Larkin-Ovchinnikov state in asymmetric NSN junctions (22 pages)	214504
Taira Kawamura and Yoji Ohashi	
Emblems of pair density waves: Dual identity of topological defects and their transport signatures (6 pages)	214505
Omri Lesser, Chunli Huang, James P. Sethna, and Eun-Ah Kim	
Quantum geometric magnetic monopole and two-phase superconductivity in CeRh ₂ As ₂ (12 pages)	214506
Kosuke Nogaki and Youichi Yanase	
Prediction of 1:1 kagome metals with superconductivity and nontrivial band topology (7 pages)	214507
Na Jiao, Shu-Xiang Qiao, Pan Zhou, Hong-Yan Lu, and Ping Zhang	
Pressure tuning of the charge density wave and superconductivity in the noncentrosymmetric superconductor 4H _a -TaSe ₂ (9 pages)	214508
Zhihan Si, Shaopeng Wang, Yonghui Zhou, Junxiang Yuan, Ranran Zhang, Shuyang Wang, Chao An, Yuzhou Bao, Xuliang Chen, Ying Zhou, Min Zhang, Lili Zhang, Xiaoping Yang, and Zhaorong Yang	
First-principles calculation of the superconducting T_c in superhard B-C-N metals (8 pages)	214509
Adam D. Smith, Yogesh K. Vohra, and Cheng-Chien Chen	

(Continued)

Ramp Josephson junctions of Al/Ti/Sr ₂ RuO ₄ : Observation of single-domain quantum oscillations and the detection of chiral surface current (<i>11 pages</i>)	214510
Zixuan Li, Yiqun Alex Ying, Brian M. Zakrzewski, Yan Xin, Yu Wang, Zhiqiang Mao, and Ying Liu	
Spin-triplet pairing and spin supercurrent in <i>p</i> -wave magnetic superconductors (<i>9 pages</i>)	214511
Xing-Jian Yi, Yue Mao, Peng-Yi Liu, Yu-Fei Sun, and Qing-Feng Sun	
Intrinsic quasiparticle lifetime in superconducting aluminum (<i>10 pages</i>)	214512
K. Norowski, M. Foltyn, A. Savin, and M. Zgirski	
Hall anomaly in the mixed state of type-II superconductors: Evidence for vacancies within vortex lattice domains (<i>4 pages</i>)	214513
Ruonan Guo, Yong-Cong Chen, Da Jiang, and Ping Ao	
Josephson effects in the spin-triplet superconductor/ferromagnet/spin-triplet superconductor junctions: The detection of the intrinsic <i>d</i> -vector (<i>12 pages</i>)	214514
Ya-Ting Han, Li-Juan Chen, Wen-Ting Liu, Qiang Cheng, and Qing-Feng Sun	
Pressure-driven superconductivity and unexpected semiconducting behavior in Li-Pt electrides (<i>10 pages</i>)	214515
Xinrui Jia, Yao Sun, Ailing Liu, Shoutao Zhang, Xin Zhong, and Hanyu Liu	
Marginal influence of anomalous Josephson current on odd-frequency spin-triplet pairing in ferromagnetic Josephson diodes (<i>38 pages</i>)	214516
Subhajit Pal and Colin Benjamin	
Anisotropic vortex motion and two-dimensional superconducting transition (<i>6 pages</i>)	214517
Zhipeng Xu, Kun Jiang, and Jiangping Hu	
Geometric superfluid weight in multigap superconductors (<i>10 pages</i>)	214518
Jie Cao, Fenghua Qi, Yuanyuan Xiang, and Guojun Jin	
Bistable fourth sound resonance in superfluid ³ He-B due to gap suppression (<i>12 pages</i>)	214519
Alexander J. Shook, Daksh Malhotra, Aymar Muhikira, and John P. Davis	
Semiclassical theory for the orbital magnetic moment of superconducting quasiparticles (<i>12 pages</i>)	214520
Jian-Hua Zeng, Zhongbo Yan, Zhi Wang, and Qian Niu	
Anharmonic superconducting density functional theory: A general framework for superconductivity with anharmonic corrections (<i>6 pages</i>)	214521
Xiaozheng Fan, Panshi Jing, Chuanguang Zhang, Junshuai Wang, Chunlan Ma, Shijing Gong, Chuanxi Zhao, Tianxing Wang, and Yipeng An	