

LETTERS

Structure, structural phase transitions, mechanical properties, defects

- Higher-order hybrid adiabatic topological states in photonic crystals (6 pages) L020101
Jose A. Medina-Vázquez and Evelyn Y. González-Ramírez
- Quantum loops in the 1T transition metal dichalcogenides (5 pages) L020102
Ashland Knowles, G. Baskaran, and R. Ganesh
- Hydrogen and deuterium tunneling in niobium (7 pages) L020103
Abdulaziz Abogoda, W. A. Shelton, I. Vekhter, and J. A. Sauls

Dynamics, dynamical systems, lattice effects:

- Complex-frequency calculation in acoustics with real-frequency solvers (7 pages) L020301
Shuowei An, Tuo Liu, Jie Zhu, and Li Cheng
- Towards absolutely stable ergodicity breaking in two and three dimensions (5 pages) L020302
Charles Stahl, Oliver Hart, and Rahul Nandkishore

Magnetism

- ☞ Altermagnetism from interaction-driven itinerant magnetism (7 pages) L020401
Samuele Giuli, Carlos Mejuto-Zaera, and Massimo Capone
- Enhanced ferromagnetism in an artificially stretched lattice in quasi-two-dimensional $\text{Cr}_2\text{Ge}_2\text{Te}_6$ (7 pages) L020402
Hiroshi Idzuchi, Andres E. Llacsahuanga Allica, Anh Khoa Augustin Lu, Mitsuhiro Saito, Subhadip Das, John F. Ribeiro, Michel Houssa, Ruishen Meng, Kazutoshi Inoue, Xing-Chen Pan, Katsumi Tanigaki, Yuichi Ikuhara, Takeshi Nakanishi, and Yong P. Chen
- Persistence of antiferromagnetic ordering after pressure-induced gap closure in the Slater insulator NaOsO_3 (6 pages) L020403
Prasun Boyal and Priya Mahadevan
- Non-Landau quantum phase transition in modulated $\text{SU}(N)$ Heisenberg spin chains (7 pages) L020404
Sylvain Capponi, Lukas Devos, Philippe Lecheminant, Keisuke Totsuka, and Laurens Vanderstraeten
- ☞ Atomic-scale Dzyaloshinskii-Moriya-modified Yoshimori spirals in an Fe double layer on Ir(110) (6 pages) L020405
Timo Knispel, Vasily Tseplyaev, Gustav Bihlmayer, Stefan Blügel, Thomas Michely, and Jeison Fischer
- Magnetization reversal of a ferromagnetic Pt/Co/Pt film by helicity dependent absorption of visible to near-infrared laser pulses (7 pages) L020406
Kihiro T. Yamada, Carl S. Davies, Fuyuki Ando, Tian Li, Teruo Ono, Theo Rasing, Alexey V. Kimel, and Andrei Kirilyuk



(Continued)



2469-9950(20250101)111:2;1-M

	Magnon spectrum of altermagnets beyond linear spin wave theory: Magnon-magnon interactions via time-dependent matrix product states versus atomistic spin dynamics (<i>8 pages</i>) Federico Garcia-Gaitan, Ali Kefayati, John Q. Xiao, and Branislav K. Nikolić	L020407
	Magnetic order and long-range interactions in mesoscopic Ising chains (<i>6 pages</i>) Christina Vantaraki, Matías P. Grassi, Kristina Ignatova, Michael Foerster, Unnar B. Arnalds, Daniel Primetzhofer, and Vassilios Kapaklis	L020408
	Magnetoelastic coupling and large uniaxial pressure dependence of antiferromagnetic order in two-dimensional van der Waals $\text{Fe}_2\text{P}_2\text{S}_6$ and $\text{Ni}_2\text{P}_2\text{S}_6$ single crystals (<i>7 pages</i>) K. K. Bestha, V. Kocsis, O. Janson, Y. Shemerliuk, S. Selter, S. Aswartham, T. Nakajima, H. Saito, B. Büchner, L. T. Corredor, and A. U. B. Wolter	L020409
	Hidden hyperspace geometry and long-distance quantum coupling (<i>6 pages</i>) Junmo Jeon and SungBin Lee	L020411
	Spontaneous crystal thermal Hall effect in insulating altermagnets (<i>8 pages</i>) Rhea Hoyer, Rodrigo Jaeschke-Ubiergo, Kyo-Hoon Ahn, Libor Šmejkal, and Alexander Mook	L020412
	Superfluidity and superconductivity	
	Edge optical effect as a probe of chiral topological superconductors (<i>7 pages</i>) Linghao Huang and Jing Wang	L020501
	Nodal nematic superconductivity in multiple flat-band systems (<i>7 pages</i>) Chao-Xing Liu and B. Andrei Bernevig	L020502
	Scale-invariant phase transition of disordered bosons in one dimension (<i>5 pages</i>) Tanul Gupta, Guido Masella, Francesco Mattiotti, Nikolay V. Prokof'ev, and Guido Pupillo	L020503
	Type-II t - J model in charge transfer regime in bilayer $\text{La}_3\text{Ni}_2\text{O}_7$ and trilayer $\text{La}_4\text{Ni}_3\text{O}_{10}$ (<i>7 pages</i>) Hanbit Oh, Boran Zhou, and Ya-Hui Zhang	L020504
	Orbital-driven competition: Ferromagnetism and superconductivity in Li-intercalated transition metal dichalcogenides (<i>7 pages</i>) Xiaotong Liao, Liangliang Liu, Liying Zhang, Xiaoyu Zhao, Chongze Wang, Bing Wang, Yu Jia, and J. Cho	L020505
	Robustness of flat band superconductivity against disorder in a two-dimensional Lieb lattice model (<i>6 pages</i>) G. Bouzerar and M. Thumin	L020506
	Implementation of a transverse Cooper-pair rectifier using an N-S junction (<i>8 pages</i>) Pei-Hao Fu, Yong Xu, Jun-Feng Liu, Ching Hua Lee, and Yee Sin Ang	L020507
	Unidirectional superconductivity and superconducting diode effect induced by dissipation (<i>7 pages</i>) Akito Daido and Youichi Yanase	L020508
	Superconducting-insulating phase transition in pressurized $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$ (<i>6 pages</i>) Jinyu Han, Xiangde Zhu, Jianfeng Zhang, Shu Cai, Luhong Wang, Yang Gao, Fuyang Liu, Haozhe Liu, Saori I. Kawaguchi, Jing Guo, Yazhou Zhou, Jinyu Zhao, Pengyu Wang, Lixin Cao, Mingliang Tian, Qi Wu, Tao Xiang, and Liling Sun	L020509

(Continued)

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Ferroelectricity in charge-density-wave 1T-TiX ₂ (X = S, Se, and Te) bilayers (14 pages)	024101
Yu Liu, Shuaiyu Wang, Yapeng Wu, Fengyu Li, and Lei Wang	
Pressure-induced structure change and anomalies in thermodynamic quantities and transport properties in liquid lithium hydride (6 pages)	024102
Xiao Z. Yan, Yang M. Chen, Hua Y. Geng, Yi F. Wang, Yi Sun, Lei L. Zhang, Hao Wang, and Yin L. Xu	
Exploring x-ray irradiation conditions for triggering ultrafast diamond graphitization (7 pages)	024103
Vladimir Lipp, Victor Tkachenko, Ichiro Inoue, Philip Heimann, Anastasiia Ryzhkova, Abdelkhalek Bashandi, and Beata Ziaja	
Evidence of distinct nonpolar/polar ordering at long/short ranges in relaxor ferroelectrics (9 pages)	024104
Anuvrat Tripathi, Sanjit Ghose, Rudolph Erasmus, and Saurabh Tripathi	
Evidence of quadratic time dependence of the kinetics in a continuous order-disorder transition (6 pages)	024105
Sabyasachi Karmakar, Mrinmay K. Mukhopadhyay, Milan K. Sanyal, Alexander Meinhardt, and Thomas F. Keller	
Diffusion coefficients predicting facet-dependent crystallization in amorphous silicon nitride (9 pages)	024106
Tesia D. Janicki, Jason B. Gibson, Carlos Chacon, Edwin Chiu, Khalid Hattar, Richard G. Hennig, Paul Kotula, Hojun Lim, Calvin Parkin, Jennie Podlevsky, Aashique Rezwan, Christopher Bishop, and J. Matthew D. Lane	
Low-temperature state in strontium titanate microcrystals using <i>in situ</i> multireflection Bragg coherent x-ray diffraction imaging (14 pages)	024107
David Yang, Ana F. Suzana, Longlong Wu, Sung Soo Ha, Sungwook Choi, Hieu Minh Ngo, Muhammad Mahmood Nawaz, Hyunjung Kim, Jialun Liu, Daniel Treuherz, Nan Zhang, Zheyi An, Gareth Nisbet, Daniel G. Porter, and Ian K. Robinson	
Temperature-dependent spin-phonon coupling of boron-vacancy centers in hexagonal boron nitride (7 pages)	024108
Zhongyuan Liu, Ruotian Gong, Benchen Huang, Yu Jin, Xinyi Du, Guanghui He, Eli Janzen, Li Yang, Erik A. Henriksen, James H. Edgar, Giulia Galli, and Chong Zu	
 Phase transitions in H ₂ -HD-D ₂ mixtures up to 350 GPa (6 pages)	024109
Haian Xu, Wan Xu, Pu Wang, Lin Liu, Xiao-Di Liu, and Eugene Gregoryanz	
Anomalies and gauging of U(1) symmetries (12 pages)	024110
Andrea Antinucci and Francesco Benini	
Multistage phase transitions in photoexcited ReS ₂ monolayer: Real-time time-dependent density functional theory calculations (9 pages)	024111
Liyuan Chen (陈丽媛), Li Chen (陈立), Hongli Chen (陈红丽), Liyan Shang (商丽燕), Yawei Li (李亚巍), Liangqing Zhu (朱亮清), Shijing Gong (龚士静), and Zhigao Hu (胡志高)	
Learning thermodynamics and topological order of the two-dimensional XY model with generative real-valued restricted Boltzmann machines (11 pages)	024112
Kai Zhang	
Topoelectrical circuit simulation of two-dimensional graphyne structures (8 pages)	024113
Shan Luo, Lingling Song, Huanhuan Yang, Peng Yan, and Yunshan Cao	

(Continued)

Pressure effect on low-temperature photoluminescence of the SiV, GeV, and SnV color centers in high-pressure high-temperature diamonds (<i>11 pages</i>)	024114
A. A. Razgulov, S. G. Lyapin, A. P. Novikov, and E. A. Ekimov	
Pressure-induced crystallization and metallization in glassy As ₂₀ Se ₈₀ (<i>8 pages</i>)	024115
Wenting Lu, Lintong Zhang, Chenxin Wei, Qian Zhang, Martin Kunz, Saori Kawaguchi, Hirokazu Kadobayashi, Catherine Boussard-Plédel, Bruno Bureau, Jianzhong Jiang (蒋建中), Azkar Saeed Ahmad, Yair Ein-Eli, and Elissaios Stavrou	
Inhomogeneous, disordered, and partially ordered systems	
Controllable suppression of non-Hermitian skin effects (<i>6 pages</i>)	024201
Chao Xu, Zhiqiang Guan, and Hongxing Xu	
Long-range correlation of transmitted light through transmission eigenchannels in disordered media (<i>6 pages</i>) . . .	024202
Peilong Hong, Mingfang Yi, Liwei Zhang, Yi Liang, and Guoquan Zhang	
Experimental probe of band structures of bilayer valley photonic crystals (<i>9 pages</i>)	024203
Xiang-Fei Guo, Jian-Wei Liu, Hong-Xiang Chen, Fu-Long Shi, Xiao-Dong Chen, and Jian-Wen Dong	
 Measurement-induced transitions for interacting fermions (<i>39 pages</i>)	024204
Igor Poboiko, Paul Pöppel, Igor V. Gornyi, and Alexander D. Mirlin	
Stark localization near Aubry-André criticality (<i>12 pages</i>)	024205
Ayan Sahoo, Aitijhya Saha, and Debraj Rakshit	
Brillouin zone folding method for quasiperiodic superconductivity in multilayer systems: Application to electronic structure and optical responses (<i>17 pages</i>)	024206
Mao Yoshii, Sota Kitamura, and Takahiro Morimoto	
Critical filaments and superconductivity in quasiperiodic twisted bilayer graphene (<i>20 pages</i>)	024207
Xinghai Zhang, Justin H. Wilson, and Matthew S. Foster	
Variational encoder-decoder architecture for charge and energy transport in disordered materials (<i>13 pages</i>)	024208
Fatemehsadat Mousavi, Mehdi Ansari-Rad, and Sergei D. Baranovskii	
Shock-driven amorphization and melting in Fe ₂ O ₃ (<i>10 pages</i>)	024209
Céline Crépinsson, Alexis Amouretti, Marion Harmand, Chrystèle Sanloup, Patrick Heighway, Sam Azadi, David McGonegle, Thomas Campbell, Juan Pintor, David Alexander Chin, Ethan Smith, Linda Hansen, Alessandro Forte, Thomas Gawne, Hae Ja Lee, Bob Nagler, YuanFeng Shi, Guillaume Fiquet, François Guyot, Mikako Makita, Alessandra Benuzzi-Mounaix, Tommaso Vinci, Kohei Miyanishi, Norimasa Ozaki, Tatiana Pikuz, Hirotaka Nakamura, Keiichi Sueda, Toshinori Yabuuchi, Makina Yabashi, Justin S. Wark, Danae N. Polsin, and Sam M. Vinko	
Dynamics, dynamical systems, lattice effects:	
Exact correlation functions for dual-unitary quantum circuits with exceptional points (<i>11 pages</i>)	024301
Xi-Dan Hu and Dan-Bo Zhang	
Phonon collapse, second-order phase transition, and glassy thermal transport in halide perovskites Cs ₃ Bi ₂ I ₆ Cl ₃ and Cs ₃ Bi ₂ Br ₉ (<i>13 pages</i>)	024302
Qing-Yu Xie, Feng Xiao, Zhun-Yun Tang, Kai-Wang Zhang, and Bao-Tian Wang	

(Continued)

Lindbladian dynamics with loss of quantum jumps (<i>11 pages</i>)	024303
Yu-Guo Liu and Shu Chen	
Dynamical deconfinement transition driven by density of excitations (<i>7 pages</i>)	024304
Nishan Ranabhat, Alessandro Santini, Emanuele Tirrito, and Mario Collura	
Atomic-scale polarization switching driven by terahertz light in ferroelectric KNbO_3 (<i>9 pages</i>)	024305
Nan Feng, Hao-Cheng Thong, Ke Wang, Ke Bi, and Ben Xu	
Role of A-site ions in the negative thermal expansion of tetracyanidoborates (<i>11 pages</i>)	024306
Shibo Zhao, Kaiyue Zhao, Yixin Jiao, Qiang Sun, Andrea Sanson, Erjun Liang, and Qilong Gao	
Exact formula with two dynamically screened electron-phonon couplings for positive phonon-linewidths approximations (<i>5 pages</i>)	024307
Gianluca Stefanucci and Enrico Perfetto	
Influence of H_2S on carbon aggregation processes under high temperature and pressure conditions (<i>10 pages</i>)	024308
D. Murayama, S. Ohmura, R. Kodama, and N. Ozaki	
Efficient post-selection in light cone correlations of monitored quantum circuits (<i>16 pages</i>)	024309
Jimin Li, Robert L. Jack, Bruno Bertini, and Juan P. Garrahan	
Robust Hilbert space fragmentation in group-valued loop models (<i>25 pages</i>)	024310
Alexey Khudorozhkov, Charles Stahl, Oliver Hart, and Rahul Nandkishore	
Adiabatic perturbation theory for two-component systems with one heavy component (<i>10 pages</i>)	024311
Ryan Requist	
Quantum entanglement phase transitions and computational complexity: Insights from Ising models (<i>30 pages</i>)	024312
Hanchen Liu, Vikram Ravindranath, and Xiao Chen	
Interlayer thermal transport and glasslike behavior in crystalline CsCu_4Se_3 (<i>14 pages</i>)	024313
Jincheng Yue, Yanhui Liu, and Jiongzhi Zheng	
Percolation renormalization group analysis of confinement in $\mathbb{Z}_2$ lattice gauge theories (<i>14 pages</i>)	024314
Gesa D�nnweber, Simon M. Linsel, Annabelle Bohrdt, and Fabian Grusdt	
Prethermal Floquet time crystals in chiral multiferroic chains and applications as quantum sensors of AC fields (<i>10 pages</i>)	024315
Rohit Kumar Shukla, Levan Chotorlishvili, Sunil K. Mishra, and Fernando Iemini	
Magnetism	
Domain-wall skyrmion dynamics driven by current and waveguide spin wave: Synergistic acceleration effect (<i>11 pages</i>)	024402
An-Ping Xiao, Long Xiong, Chen Yang, Jin-Yi Jiang, and Bo Zheng	
Amplifying the antiferromagnetic spin Seebeck effect through topological magnons (<i>10 pages</i>)	024403
Feodor Svetlanov Konomaev and Kjetil M. D. Hals	
Resonant inelastic x-ray scattering spectra of spinon, doublon, and quarton excitations of a spin- $\frac{1}{2}$ antiferromagnetic Heisenberg trimer chain (<i>13 pages</i>)	024404
Junli Li, Jun-Qing Cheng, Trinanjan Datta, and Dao-Xin Yao	

(Continued)

Symmetry origin and microscopic mechanism of electrical magnetochiral anisotropy in tellurium (7 pages)	024405
Manuel Suárez-Rodríguez, Beatriz Martín-García, Francesco Calavalle, Stepan S. Tsirkin, Ivo Souza, Fernando de Juan, Albert Fert, Marco Gobbi, Luis E. Hueso, and Fèlix Casanova	
Multicritical point of an $S = 1$ XXZ chain with single-ion anisotropy (9 pages)	024406
Shuichi Shiraishi and Kiyohide Nomura	
Magnetic interactions in the polar ferrimagnet $\text{Mn}_2\text{Mo}_3\text{O}_8$ with a bipartite structure (8 pages)	024407
Junbo Liao, Zhentao Huang, Bo Zhang, Yanyan Shangguan, Shufan Cheng, Hao Xu, Zihang Song, Shuai Dong, Devashibhai Adroja, Song Bao, and Jinsheng Wen	
Tunable unidirectional spin Hall magnetoresistance in ferrimagnetic CoGd films (7 pages)	024408
K. Hasegawa, Y. Hibino, T. Koyama, and D. Chiba	
Quantum-critical and dynamical properties of the XXZ bilayer with long-range interactions (17 pages)	024409
Patrick Adelhardt, Antonia Duft, and Kai Phillip Schmidt	
Magnetostatic effect on spin dynamics properties in the antiferromagnetic Van der Waals material CrSBr (9 pages)	024410
Hongyue Xu, Nan Jiang, Haoran Chen, Yi Chen, Tong Wu, Yongwei Cui, Yunzhuo Wu, Zhiyuan Sheng, Zeyuan Sun, Jia Xu, Qixi Mi, Shiwei Wu, Weichao Yu, and Yizheng Wu	
Soliton penetration from edges in a monoaxial chiral magnet (13 pages)	024411
Kotaro Shimizu, Shun Okumura, Yasuyuki Kato, and Yukitoshi Motome	
 Element-selective observation of the orbital angular momentum of Fe and Co in the noncentrosymmetric magnets $\text{Fe}_{1-x}\text{Co}_x\text{Si}$ ($x = 0.25$ and 0.50) (6 pages)	024412
M. Mito, M. Ohkuma, T. Tajiri, Y. Kousaka, J. Akimitsu, K. Inoue, and K. Amemiya	
<i>Ab initio</i> statistical mechanics of the Néel transition in monolayer FePS_3 (13 pages)	024413
Shashank Chaturvedi and Umesh V. Waghmare	
Quasi-two-dimensional magnetism and antiferromagnetic ground state in $\text{Li}_2\text{FeSiO}_4$ (10 pages)	024414
W. Hergett, N. Bouldi, M. Jonak, C. Neef, C. Ritter, M. Abdel-Hafiez, F. Seewald, H.-H. Klauss, M. W. Haverkort, and R. Klingeler	
Electronic structure of CrO_2 probed by NMR and DFT (7 pages)	024415
Vojtěch Chlan, Anna A. Shmyreva, and Helena Štěpánková	
Thermal transport properties of magnons on the $\alpha\text{-T}_3$ lattice (10 pages)	024416
Luqman Saleem, Hasan M. Abdullah, Udo Schwingenschlögl, and Aurélien Manchon	
Magnetism in twisted triangular bilayer graphene quantum dots (14 pages)	024417
Mohammad Mirzakhani, Zebih Cetin, Mehmet Yagmurcukardes, Hee Chul Park, Francois M. Peeters, and Diego R. da Costa	
Anisotropy of the Gilbert damping constant in NiFe grown on the chiral antiferromagnet Mn_3Sn (7 pages)	024418
Hidetoshi Kosaki, Shoya Sakamoto, Tempei Hatajiri, Tomoya Higo, Satoru Nakatsuji, and Shinji Miwa	
Tunable multi- q states caused by frustrated and long-range exchange interactions in monolayer $1T\text{-CrTe}_2$ and related heterostructures (10 pages)	024419
Guifang Xu, Fan Zhang, Xue Jiang, Yi Wang, Weiwei Gao, and Jijun Zhao	

(Continued)

Multipartite entanglement and quantum sensing in a spin- $\frac{5}{2}$ Heisenberg molecular iron(III) triangle (13 pages) . . .	024420
Hamid Arian Zad, Jozef Strečka, and Winfried Plass	
Large negative magnetoresistance in the off-stoichiometric topological semimetal $\text{PrSb}_x\text{Te}_{2-x}$ (11 pages)	024421
Gokul Acharya, Krishna Pandey, M. M. Sharma, Jian Wang, Santosh Karki Chhetri, Md Rafique Un Nabi, Dinesh Upreti, Rabindra Basnet, Josh Sakon, and Jin Hu	
Strong and tunable coupling between antiferromagnetic magnons and surface plasmons (8 pages)	024422
H. Y. Yuan, Yaroslav M. Blanter, and H. Q. Lin	
Low-energy spin excitations in field-induced phases of the spin-ladder antiferromagnet BiCu_2PO_6 (12 pages) . . .	024423
Patrick Pilch, Kirill Amelin, Gary Schmiedinghoff, Anneke Reinold, Changqing Zhu, Kirill Yu. Povarov, Sergei Zvyagin, Hans Engelkamp, Yin-Ping Lan, Guo-Jiun Shu, F. C. Chou, Urmas Nagel, Toomas Rõõm, Götz S. Uhrig, Benedikt Fauseweh, and Zhe Wang	
Chemical and structural disorder in the kagome spin $S = \frac{1}{2}$ systems $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$ and $\text{YCu}_3(\text{OH})_6\text{Br}_2[\text{Br}_x(\text{OH})_{1-x}]$ (9 pages)	024424
Reinhard K. Kremer, Sebastian Bette, Jürgen Nuss, and Pascal Puphal	
Ultrafast dynamics and efficient manipulation of antiferromagnetic skyrmioniums by voltage-controlled magnetic anisotropy gradient (10 pages)	024425
Qing-Fa Luo, Jia Luo, Xue Liang, Jing Xia, Ping Lai, Ya-Gang Teng, Zi-Yu Deng, Lei Gu, and Guo-Ping Zhao	
Elastic softness of low-symmetry frustrated ATi_2O_5 ($A = \text{Co}, \text{Fe}$) (9 pages)	024426
Tadataka Watanabe, Kazuya Takayanagi, Ray Nishimura, Yoshiaki Hara, Dharmalingam Prabhakaran, Roger D. Johnson, and Stephen J. Blundell	
Superfluidity and superconductivity	
Measuring weak microwave signals via current-biased Josephson junctions: Approaching the quantum limit of energy detection (10 pages)	024501
Y. Q. Chai, S. N. Wang, P. H. OuYang, and L. F. Wei	
Effects of disorder on quantum transport properties in the topologically nontrivial metal PbTaSe_2 (7 pages)	024502
Longfei Sun, Yue Sun, Qiang Hou, R. Sankar, R. Kalaivanan, Xiaofeng Xu, Zhixiang Shi, and Tsuyoshi Tamegai	
Transport and quantum oscillations in the quasi-one-dimensional superconductor V_2Ga_5 (8 pages)	024503
Y. L. Huang, Z. Y. Zhang, Z. Y. Liu, P. T. Yang, B. Li, C. Q. Xu, B. S. Wang, W. Zhou, Wen-He Jiao, S. Xu, Ziming Zhu, T. Shiroka, Xiangzhuo Xing, Zhu'an Xu, Dong Qian, Shiyan Li, Xianglin Ke, J.-G. Cheng, and Xiaofeng Xu	
Valley polarization, magnetization, and superconductivity in bilayer graphene near the van Hove singularity (17 pages)	024504
Alex Friedlan, Heqiu Li, and Hae-Young Kee	
Synthesis of medium-entropy alloy superhydride $(\text{La}, \text{Y}, \text{Ce})\text{H}_{10\pm x}$ with high-temperature superconductivity under high pressure (9 pages)	024505
Chuanheng Ma, Mi Zhou, Jingkai Bi, Yuan Ma, Dongdong Li, Hanyu Liu, Guangtao Liu, Hongbo Wang, and Yanming Ma	

(Continued)

Gate-tunable nonlocal Josephson effect through magnetic van der Waals bilayers (<i>11 pages</i>)	024506
G. A. Bobkov, D. S. Rabinovich, A. M. Bobkov, and I. V. Bobkova	
Odd-frequency superconducting pairing due to multiple Majorana edge modes in driven topological superconductors (<i>17 pages</i>)	024507
Eslam Ahmed, Shun Tamura, Yukio Tanaka, and Jorge Cayao	
Superconductivity, valence skipping, and topological crystalline metallic phase in AgSnSe_2 (<i>7 pages</i>)	024508
Shubham Patel and A. Taraphder	
Dominant p -wave pairing induced by nearest-neighbor attraction in the square-lattice extended Hubbard model (<i>9 pages</i>)	024509
Zhangkai Cao, Jianyu Li, Jiahao Su, Tao Ying, and Ho-Kin Tang	
Magnetoelectric effects in diffusive two-dimensional superconductors studied by the nonlinear σ model (<i>10 pages</i>)	024510
P. Virtanen	
Dipolar bosons in a twisted bilayer geometry (<i>7 pages</i>)	024511
Chao Zhang, Zhijie Fan, Barbara Capogrosso-Sansone, and Youjin Deng	
Effects of gravity on supersolid order in bubble-trapped bosons (<i>9 pages</i>)	024512
Matteo Ciardi, Fabio Cinti, Giuseppe Pellicane, and Santi Prestipino	
Nodeless two-gap superconductivity revealed by low-temperature specific heat and lower critical field in $4H_a\text{-NbSe}_2$ (<i>8 pages</i>)	024513
Menghu Zhou, Shunli Ni, Yunqing Shi, Lewei Chen, Junkun Yi, Yadong Gu, Qingsong Liu, Binbin Ruan, Qingsong Yang, Jia Yu, and Zhi-An Ren	
Determination of the London penetration depth with the tunnel diode oscillator technique (<i>11 pages</i>)	024514
G. P. Mikitik	