

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 96, NUMBER 6

AUGUST 2017-1(II)

Spin correlation and entanglement detection in Cooper pair splitters by current measurements using magnetic detectors (<i>8 pages</i>)	064520
Piotr Busz, Damian Tomaszewski, and Jan Martinek	
Superconducting and normal-state properties of the noncentrosymmetric superconductor Re_6Zr (<i>10 pages</i>)	064521
D. A. Mayoh, J. A. T. Barker, R. P. Singh, G. Balakrishnan, D. McK. Paul, and M. R. Lees	
Spectral linewidth of parallel Josephson junction array with intermediate-to-large damping (<i>8 pages</i>)	064522
V. A. Shamporov, A. S. Myasnikov, E. V. Pankratova, and A. L. Pankratov	
Collective modes and ultrasonic attenuation in a pseudogapped superconductor (<i>8 pages</i>)	064523
A. V. Shtyk and M. V. Feigel'man	
Highly anisotropic superconducting gaps and possible evidence of antiferromagnetic order in FeSe single crystals (<i>8 pages</i>)	064524
Guan-Yu Chen, Xiyu Zhu, Huan Yang, and Hai-Hu Wen	
Transport properties of ultrathin $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ nanowires: A route to single-photon detection (<i>11 pages</i>)	064525
Riccardo Arpaia, Dmitri Golubev, Reza Baghdadi, Regina Ciancio, Goran Dražić, Pasquale Orgiani, Domenico Montemurro, Thilo Bauch, and Floriana Lombardi	
Terahertz field control of interlayer transport modes in cuprate superconductors (<i>12 pages</i>)	064526
Frank Schlawin, Anastasia S. D. Dietrich, Martin Kiffner, Andrea Cavalleri, and Dieter Jaksch	
Optimal inhomogeneity for pairing in Hubbard systems with next-nearest-neighbor hopping (<i>6 pages</i>)	064527
Gideon Wachtel, Shirit Baruch, and Dror Orgad	
Topological phase transition under pressure in the topological nodal-line superconductor PbTaSe_2 (<i>7 pages</i>)	064528
C. Q. Xu, R. Sankar, W. Zhou, Bin Li, Z. D. Han, B. Qian, J. H. Dai, Hengbo Cui, A. F. Bangura, F. C. Chou, and Xiaofeng Xu	
Odd-triplet superconductivity in single-level quantum dots (<i>11 pages</i>)	064529
Stephan Weiss and Jürgen König	

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 96, NUMBER 6

AUGUST 2017-1(II)

Electronic decoherence of two-level systems in a Josephson junction (<i>12 pages</i>)	064504
Alexander Bilmes, Sebastian Zanker, Andreas Heimes, Michael Marthaler, Gerd Schön, Georg Weiss, Alexey V. Ustinov, and Jürgen Lisenfeld	
Universal phase diagrams with superconducting domes for electronic flat bands (<i>9 pages</i>)	064505
Tomas Löthman and Annica M. Black-Schaffer	
Critical pairing fluctuations in the normal state of a superconductor: Pseudogap and quasiparticle damping (<i>27 pages</i>)	064506
Philipp Lange, Oleksandr Tsypliyatyev, and Peter Kopietz	
Electromagnetic response during quench dynamics to the superconducting state: Time-dependent Ginzburg-Landau analysis (<i>9 pages</i>)	064507
D. M. Kennes and A. J. Millis	
Supercurrent vortex pinball via a triplet Cooper pair inverse Edelstein effect (<i>5 pages</i>)	064508
Morten Amundsen and Jacob Linder	
Proximity Eliashberg theory of electrostatic field-effect doping in superconducting films (<i>9 pages</i>)	064509
G. A. Ummarino, E. Piatti, D. Daghero, R. S. Gonnelli, Irina Yu. Sklyadneva, E. V. Chulkov, and R. Heid	
Photoinduced filling of near-nodal gap in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ (<i>7 pages</i>)	064510
Z. Zhang, C. Piovera, E. Papalazarou, M. Marsi, M. d'Astuto, C. J. van der Beek, A. Taleb-Ibrahimi, and L. Perfetti	
Wave-packet dynamics of Bogoliubov quasiparticles: Quantum metric effects (<i>14 pages</i>)	064511
Long Liang, Sebastiano Peotta, Ari Harju, and Päivi Törmä	
Extreme anisotropy and anomalous transport properties of heavily electron doped $\text{Li}_x(\text{NH}_3)_y\text{Fe}_2\text{Se}_2$ single crystals (<i>8 pages</i>)	064512
Shanshan Sun (孙珊珊), Shaohua Wang (王少华), Rong Yu (俞榕), and Hechang Lei (雷和畅)	
Superfluidity in density imbalanced bilayers of dipolar fermions (<i>8 pages</i>)	064513
Azadeh Mazloom and Saeed H. Abedinpour	
Superconductor-insulator transition in disordered Josephson-junction chains (<i>23 pages</i>)	064514
M. Bard, I. V. Protopopov, I. V. Gornyi, A. Shnirman, and A. D. Mirlin	
Nonequilibrium superconductivity in driven alkali-doped fullerenes (<i>10 pages</i>)	064515
Giacomo Mazza and Antoine Georges	
Spin-switch Josephson junctions with magnetically tunable $\sin(\delta\varphi/n)$ current-phase relation (<i>7 pages</i>)	064516
Jabir Ali Ouassou and Jacob Linder	
High-temperature superconducting phase of HBr under pressure predicted by first-principles calculations (<i>7 pages</i>)	064517
Qinyan Gu, Pengchao Lu, Kang Xia, Jian Sun, and Dingyu Xing	
Fulde-Ferrell states in inverse proximity-coupled magnetically doped topological heterostructures (<i>10 pages</i>)	064518
Moon Jip Park, Junyoung Yang, Youngseok Kim, and Matthew J. Gilbert	
θ_0 thermal Josephson junction (<i>6 pages</i>)	064519
M. A. Silaev	

(Continued)

Magnetization processes of zigzag states on the honeycomb lattice: Identifying spin models for α -RuCl ₃ and Na ₂ IrO ₃ (14 pages)	064430
Lukas Janssen, Eric C. Andrade, and Matthias Vojta	
Magnetoelectric properties of multiferroic CuCrO ₂ studied by means of <i>ab initio</i> calculations and Monte Carlo simulations (6 pages)	064431
Ahmed Albaalbaky, Yaroslav Kvashnin, Denis Ledue, Renaud Patte, and Raymond Frésard	
☞ Magnetic hexadecapole order and magnetopiezoelectric metal state in Ba _{1-x} K _x Mn ₂ As ₂ (18 pages)	064432
Hikaru Watanabe and Youichi Yanase	
Temperature evolution of spin dynamics in two- and three-dimensional Kitaev models: Influence of fluctuating Z ₂ flux (11 pages)	064433
Junki Yoshitake, Joji Nasu, and Yukitoshi Motome	
Charge and spin order in Ca _{0.5} Bi _{0.5} FeO ₃ : Idle spins and frustration in the charge-disproportionated state (5 pages)	064434
Fabio Denis Romero, Yoshiteru Hosaka, Noriya Ichikawa, Takashi Saito, Graham McNally, J. Paul Attfield, and Yuichi Shimakawa	
Interfacial exchange interactions and magnetism of Ni ₂ MnAl/Fe bilayers (7 pages)	064435
R. Yanes, E. Simon, S. Keller, B. Nagyfalusi, S. Khmelevsky, L. Szunyogh, and U. Nowak	
Evidence for a low-temperature magnetic ground state in double-perovskite iridates with Ir ⁵⁺ (5d ⁴) ions (8 pages)	064436
J. Terzic, H. Zheng, Feng Ye, H. D. Zhao, P. Schlottmann, L. E. De Long, S. J. Yuan, and G. Cao	
☞ Resistance-area product and size dependence of spin-torque switching efficiency in CoFeB-MgO based magnetic tunnel junctions (14 pages)	064437
J. Z. Sun	
Magnon-magnon interactions in a room-temperature magnonic Bose-Einstein condensate (6 pages)	064438
Oleksandr Dzyapko, Ivan Lisenkov, Patrik Nowik-Boltyk, Vladislav E. Demidov, Sergej O. Demokritov, Benny Koene, Andrei Kirilyuk, Theo Rasing, Vasyl Tiberkevich, and Andrei Slavin	
Nonadiabaticity in spin pumping under relaxation (12 pages)	064439
Kazunari Hashimoto, Gen Tatara, and Chikako Uchiyama	
Tunable giant exchange bias in the single-phase rare-earth-transition-metal intermetallics YMn _{12-x} Fe _x with highly homogenous intersublattice exchange coupling (7 pages)	064440
Yuanhua Xia, Rui Wu, Yinfeng Zhang, Shunquan Liu, Honglin Du, Jingzhi Han, Changsheng Wang, Xiping Chen, Lei Xie, Yingchang Yang, and Jinbo Yang	
Superfluidity and superconductivity	
BCS-like critical fluctuations with limited overlap of Cooper pairs in FeSe (10 pages)	064501
Huan Yang, Guanyu Chen, Xiyu Zhu, Jie Xing, and Hai-Hu Wen	
Universal upper bounds on the Bose-Einstein condensate and the Hubbard star (8 pages)	064502
Felix Tennie, Vlatko Vedral, and Christian Schilling	
Onset of nanoscale dissipation in superfluid ⁴ He at zero temperature: Role of vortex shedding and cavitation (6 pages)	064503
Francesco Ancilotto, Manuel Barranco, Jussi Eloranta, and Martí Pi	

(Continued)

Theory of linear spin wave emission from a Bloch domain wall (5 pages)	064415
N. J. Whitehead, S. A. R. Horsley, T. G. Philbin, A. N. Kuchko, and V. V. Kruglyak	
Zeeman interaction and Jahn-Teller effect in the Γ_8 multiplet (11 pages)	064416
Naoya Iwahara, Veatcheslav Vieru, Liviu Ungur, and Liviu F. Chibotaru	
Magnetic resonance spectroscopy on the spin-frustrated magnets $\text{YBaCo}_3\text{MO}_7$ ($M=\text{Al, Fe}$) (11 pages)	064417
M. Iakovleva, S. Zimmermann, J. Zeisner, A. Alfonsov, H.-J. Grafe, M. Valldor, E. Vavilova, B. Büchner, and V. Kataev	
Correlation between structure, electronic properties, and magnetism in $\text{Co}_x\text{Gd}_{1-x}$ thin amorphous films (10 pages)	064418
N. Bergeard, A. Mougin, M. Izquierdo, E. Fonda, and F. Sirotti	
Collective and local excitations in $\text{Ba}_2\text{CoTeO}_6$: A composite system of a spin-1/2 triangular-lattice Heisenberg antiferromagnet and a honeycomb-lattice $J_1 - J_2$ Ising antiferromagnet (6 pages)	064419
Purinton Chanlert, Nobuyuki Kurita, Hidekazu Tanaka, Motoi Kimata, and Hiroyuki Nojiri	
Fast vortex wall motion in wide permalloy strips from double switching of the vortex core (11 pages)	064420
Virginia Estévez and Lasse Laurson	
Analytical calculation and observation of the magnetic contrast in magneto-optical studies of magnetic cylinders (11 pages)	064421
K. Richter, A. Thiaville, and R. Varga	
Magnetocrystalline anisotropy of Laves phase $\text{Fe}_2\text{Ta}_{1-x}\text{W}_x$ from first principles: Effect of 3d-5d hybridization (13 pages)	064422
Alexander Edström	
Consistent microscopic analysis of spin pumping effects (23 pages)	064423
Gen Tatara and Shigemi Mizukami	
Temperature dependence of the effective interdimer exchange interaction in a weakly coupled antiferromagnetic dimer copper compound (7 pages)	064424
Rafael Calvo, Vinicius T. Santana, and Otaciro R. Nascimento	
Tuning the magnetic and structural transitions in TbCo_2Mn_x compounds (11 pages)	064425
Chunsheng Fang, Jianli Wang, Fang Hong, Wayne D. Hutchison, M. F. Md Din, A. J. Studer, J. A. Kimpton, Shixue Dou, and Zhenxiang Cheng	
Hierarchy of correlations for the Ising model in the Majorana representation (13 pages)	064426
Álvaro Gómez-León	
 Griffiths singularities in the random quantum Ising antiferromagnet: A tree tensor network renormalization group study (12 pages)	064427
Yu-Ping Lin, Ying-Jer Kao, Pochung Chen, and Yu-Cheng Lin	
Spin Seebeck effect in Y-type hexagonal ferrite thin films (8 pages)	064428
J. Hirschner, M. Maryško, J. Hejtmánek, R. Uhrecký, M. Soroka, J. Buršík, A. Anadón, M. H. Aguirre, and K. Knížek	
Analytic expression for the giant fieldlike spin torque in spin-filter magnetic tunnel junctions (5 pages)	064429
Y.-H. Tang, Z.-W. Huang, and B.-H. Huang	

(Continued)

Magnetism

Interfacial Rashba magnetoresistance of the two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ interface (6 pages)	064401
Kulothungasagaran Narayanapillai, Gyungchoon Go, Rajagopalan Ramaswamy, Kalon Gopinadhan, Dongwook Go, Hyun-Woo Lee, Thirumalai Venkatesan, Kyung-Jin Lee, and Hyunsoo Yang	
Strain-gradient-induced magnetic anisotropy in straight-stripe mixed-phase bismuth ferrites: Insight into flexomagnetism (11 pages)	064402
Jin Hong Lee, Kwang-Eun Kim, Byung-Kweon Jang, Ahmet A. Ünal, Sergio Valencia, Florian Kronast, Kyung-Tae Ko, Stefan Kowarik, Jan Seidel, and Chan-Ho Yang	
Gate-controlled ballistic conductance of magnetic nanowires with double point contacts (6 pages)	064403
V. Fallahi	
From magnetic order to spin-liquid ground states on the $S = \frac{3}{2}$ triangular lattice (7 pages)	064404
J. Tapp, C. R. dela Cruz, M. Bratsch, N. E. Amuneke, L. Postulka, B. Wolf, M. Lang, H. O. Jeschke, R. Valentí, P. Lemmens, and A. Möller	
Enhanced spin-orbit torque by engineering Pt resistivity in Pt/Co/AlO _x structures (6 pages)	064405
Jae Wook Lee, Young-Wan Oh, Seung-Young Park, Adriana I. Figueroa, Gerrit van der Laan, Gyungchoon Go, Kyung-Jin Lee, and Byong-Guk Park	
Spin-orbit torque switching of ultralarge-thickness ferrimagnetic GdFeCo (5 pages)	064406
Niklas Roschewsky, Charles-Henri Lambert, and Sayeef Salahuddin	
Thermal control of the magnon-photon coupling in a notch filter coupled to a yttrium iron garnet/platinum system (6 pages)	064407
Vincent Castel, Rodolphe Jeunehomme, Jamal Ben Youssef, Nicolas Vukadinovic, Alexandre Manchec, Fasil Kidane Dejene, and Gerrit E. W. Bauer	
Combined effect of magnetic field and charge current on antiferromagnetic domain-wall dynamics (5 pages)	064408
Yuta Yamane, Olena Gomonay, Hristo Velkov, and Jairo Sinova	
Magnetic charge and moment dynamics in artificial kagome spin ice (9 pages)	064409
A. Farhan, P. M. Derlet, L. Anghinolfi, A. Kleibert, and L. J. Heyderman	
Temperature dependence of spin-orbit torques across the magnetic compensation point in a ferrimagnetic TbCo alloy film (6 pages)	064410
Kohei Ueda, Maxwell Mann, Paul W. P. de Brouwer, David Bono, and Geoffrey S. D. Beach	
Static spin susceptibility in magnetically ordered states (8 pages)	064411
Kazuhiro Kuboki and Hiroyuki Yamase	
Role of 4 <i>f</i> electrons in crystallographic and magnetic complexity (8 pages)	064412
Arjun K. Pathak, Durga Paudyal, Yaroslav Mudryk, and Vitalij K. Pecharsky	
Spin order and dynamics in the diamond-lattice Heisenberg antiferromagnets CuRh ₂ O ₄ and CoRh ₂ O ₄ (14 pages)	064413
L. Ge, J. Flynn, J. A. M. Paddison, M. B. Stone, S. Calder, M. A. Subramanian, A. P. Ramirez, and M. Mourigal	
Investigation of the commensurate magnetic structure in the heavy-fermion compound CePt ₂ In ₇ using magnetic resonant x-ray diffraction (9 pages)	064414
Nicolas Gauthier, Didier Wermeille, Nicola Casati, Hironori Sakai, Ryan E. Baumbach, Eric D. Bauer, and Jonathan S. White	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 96, NUMBER 6

AUGUST 2017-1(II)

Cluster evolution in molecular three-dimensional spin-crossover systems (<i>6 pages</i>)	064115
Laurentiu Stoleriu, Masamichi Nishino, Seiji Miyashita, Alexandru Stancu, Andreas Hauser, and Cristian Enachescu	
Evolution of phonon anharmonicity in Se-doped Sb ₂ Te ₃ thermoelectrics (<i>10 pages</i>)	064116
Diptasikha Das, Subarna Das, P. Singha, K. Malik, A. K. Deb, A. Bhattacharyya, V. A. Kulbachinskii, Raktima Basu, Sandip Dhara, S. Bandyopadhyay, and Aritra Banerjee	
Inhomogeneous, disordered, and partially ordered systems	
Analysis of the fragility of the Zr ₇₇ Ni ₂₃ metallic glass based on low-temperature heat capacity measurements (<i>7 pages</i>)	064201
Amra Salčinović Fetić, Georgy Remenyi, Damir Starešinić, Ahmed Kuršumović, Emil Babić, Suada Sulejmanović, and Katica Biljaković	
Level compressibility for the Anderson model on regular random graphs and the eigenvalue statistics in the extended phase (<i>7 pages</i>)	064202
Fernando L. Metz and Isaac Pérez Castillo	
Quantitative analytical theory for disordered nodal points (<i>7 pages</i>)	064203
Björn Sbierski, Kevin A. Madsen, Piet W. Brouwer, and Christoph Karrasch	
Dynamics, dynamical systems, lattice effects:	
Role of fivefold symmetry in the dynamical slowing down of metallic glass-forming liquids (<i>7 pages</i>)	064301
Y. J. Lü, Q. L. Bi, H. S. Huang, and H. H. Pang	
Analysis of the conditional average and conditional variance of dissipated energy in the driven spin-boson model (<i>8 pages</i>)	064302
Philip Wollfarth, Yasuhiro Utsumi, and Alexander Shnirman	
Spreading of correlations in a quenched repulsive and attractive one-dimensional integrable system (<i>7 pages</i>)	064303
L. Barbiero and L. Dell'Anna	
Tailoring phonon band structures with broken symmetry by shaping spatiotemporal modulations of stiffness in a one-dimensional elastic waveguide (<i>14 pages</i>)	064304
Pierre A. Deymier, Vitthal Gole, Pierre Lucas, Jérôme O. Vasseur, and Keith Runge	
Flat bands in lattices with non-Hermitian coupling (<i>7 pages</i>)	064305
Daniel Leykam, Sergej Flach, and Y. D. Chong	
Hopping processes explain linear rise in temperature of thermal conductivity in thermoelectric clathrates with off-center guest atoms (<i>10 pages</i>)	064306
Qing Xi, Zhongwei Zhang, Jie Chen, Jun Zhou, Tsuneyoshi Nakayama, and Baowen Li	
Spatial localization and thermal rectification in inhomogeneously deformed lattices (<i>9 pages</i>)	064307
Alexander V. Savin and Yuri S. Kivshar	
Charge state of vacancy defects in Eu-doped GaN (<i>8 pages</i>)	064308
B. Mitchell, N. Hernandez, D. Lee, A. Koizumi, Y. Fujiwara, and V. Dierolf	

(Continued)

-  Pressure-induced superconductivity up to 13.1 K in the pyrite phase of palladium diselenide PdSe₂ (5 pages) 060509(R)
Moaz A. ElGhazali, Pavel G. Naumov, Hossein Mirhosseini, Vicky Süß, Lukas Mühler, Walter Schnelle, Claudia Felser, and Sergey A. Medvedev

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

- Equation of state for charge-doping-induced deformation and hardening in cubic crystals (7 pages) 064101
Yao Li, Xiaofei Liu, and Wanlin Guo
- Robustness of topological states with respect to lattice instability in the nonsymmorphic topological insulator KHgSb (8 pages) 064102
D. Chen, T.-T. Zhang, C.-J. Yi, Z.-D. Song, W.-L. Zhang, T. Zhang, Y.-G. Shi, H.-M. Weng, Z. Fang, P. Richard, and H. Ding
- Lattice dynamics of Dirac node-line semimetal ZrSiS (7 pages) 064103
Wei Zhou, Heng Gao, Junran Zhang, Ruiyang Fang, Hao Song, Tao Hu, Alessandro Stroppa, Ling Li, Xuefeng Wang, Shuangchen Ruan, and Wei Ren
- Structural characterization of water-metal interfaces (10 pages) 064104
Kevin Ryczko and Isaac Tamblyn
- Thermoelectric and structural correlations in (Sr_{1-x-y}Ca_xNd_y)TiO₃ perovskites (12 pages) 064105
H. Sornay, S. Kolesnik, B. Dabrowski, and O. Chmaissem
- Model for topological phononics and phonon diode (7 pages) 064106
Yizhou Liu, Yong Xu, Shou-Cheng Zhang, and Wenhui Duan
- Interplay of phase sequence and electronic structure in the modulated martensites of Mn₂NiGa from first-principles calculations (13 pages) 064107
Ashis Kundu, Markus E. Gruner, Mario Siewert, Alfred Hucht, Peter Entel, and Subhradip Ghosh
- Energy landscape of ZnO clusters and low-density polymorphs (14 pages) 064108
Robabe Rasoulkhani, Hossein Tahmasbi, S. Alireza Ghasemi, Somayeh Faraji, Samare Rostami, and Maximilian Amsler
- Pressure-induced magnetic collapse and metallization of TlFe_{1.6}Se₂ (7 pages) 064109
P. G. Naumov, K. Filsinger, S. I. Shylin, O. I. Barkalov, V. Ksenofontov, Y. Qi, T. Palasyuk, W. Schnelle, S. A. Medvedev, M. Greenblatt, and C. Felser
- Dynamical effects in Bragg coherent x-ray diffraction imaging of finite crystals (15 pages) 064111
A. G. Shabalin, O. M. Yefanov, V. L. Nosik, V. A. Bushuev, and I. A. Vartanyants
- Ferroelectricity of structural origin in the spin-chain compounds Ca₃Co_{2-x}Mn_xO₆ (10 pages) 064112
J. Shi, J. D. Song, J. C. Wu, X. Rao, H. L. Che, Z. Y. Zhao, H. D. Zhou, J. Ma, R. R. Zhang, L. Zhang, X. G. Liu, X. Zhao, and X. F. Sun
- Energy deposition around swift proton tracks in polymethylmethacrylate: How much and how far (12 pages) 064113
Maurizio Dapor, Isabel Abril, Pablo de Vera, and Rafael Garcia-Molina
- Enhanced acousto-optic properties in layered media (10 pages) 064114
M. J. A. Smith, C. Martijn de Sterke, C. Wolff, M. Lapine, and C. G. Poulton

(Continued)

Antiferromagnetic skyrmion crystals: Generation, topological Hall, and topological spin Hall effect (5 pages)	060406(R)
Börge Göbel, Alexander Mook, Jürgen Henk, and Ingrid Mertig	
Encoding orbital angular momentum of light in magnets (6 pages)	060407(R)
Hiroyuki Fujita and Masahiro Sato	
Giant spin-charge conversion driven by nanoscopic particles of Ag in Pt (6 pages)	060408(R)
O. Alves-Santos, E. F. Silva, M. Gamino, R. O. Cunha, J. B. S. Mendes, R. L. Rodríguez-Suárez, S. M. Rezende, and A. Azevedo	
Exact zero modes in frustrated Haldane chains (5 pages)	060409(R)
Natalia Chepiga and Frédéric Mila	
SEMPA investigation of the Dzyaloshinskii-Moriya interaction in the single, ideally grown Co/Pt(111) interface (6 pages)	060410(R)
Edna C. Corredor, Susanne Kuhrau, Fabian Klodt-Twesten, Robert Frömter, and Hans Peter Oepen	
Anisotropic phase diagram and spin fluctuations of the hyperkagome magnet $\text{Gd}_3\text{Ga}_5\text{O}_{12}$ as revealed by sound velocity measurements (5 pages)	060411(R)
Alexandre Rousseau, Jean-Michel Parent, and Jeffrey A. Quilliam	
Superfluidity and superconductivity	
High-energy electronic interaction in the 3d band of high-temperature iron-based superconductors (5 pages)	060501(R)
D. V. Evtushinsky, A. N. Yaresko, V. B. Zabolotnyy, J. Maletz, T. K. Kim, A. A. Kordyuk, M. S. Viazovska, M. Roslova, I. Morozov, R. Beck, S. Aswartham, L. Harnagea, S. Wurmehl, H. Berger, V. A. Rogalev, V. N. Strocov, T. Wolf, N. D. Zhigadlo, B. Büchner, and S. V. Borisenko	
Usadel equation in the presence of intrinsic spin-orbit coupling: A unified theory of magnetoelectric effects in normal and superconducting systems (5 pages)	060502(R)
I. V. Tokatly	
Time-reversal symmetry breaking and gapped surface states due to spontaneous emergence of new order in d-wave nanoislands (5 pages)	060503(R)
Yuki Nagai, Yukihiro Ota, and K. Tanaka	
Orbital superconductivity, defects, and pinned nematic fluctuations in the doped iron chalcogenide $\text{FeSe}_{0.45}\text{Te}_{0.55}$ (5 pages)	060504(R)
Saheli Sarkar, John Van Dyke, Peter O. Sprau, Freek Massee, Ulrich Welp, Wai-Kwong Kwok, J. C. Seamus Davis, and Dirk K. Morr	
Majorana zero modes in a two-dimensional p-wave superconductor (5 pages)	060505(R)
Võ Tiến Phong, Niels R. Walet, and Francisco Guinea	
Anisotropic thermomagnetic avalanche activity in field-cooled superconducting films (5 pages)	060506(R)
F. Colauto, D. Carmo, A. M. H. de Andrade, A. A. M. Oliveira, W. A. Ortiz, and T. H. Johansen	
Magnetic and superconducting properties of a heavy-fermion CeCoIn_5 epitaxial film probed by nuclear quadrupole resonance (5 pages)	060507(R)
Takayoshi Yamanaka, Masaaki Shimozaawa, Hiroaki Shishido, Shunsaku Kitagawa, Hiroaki Ikeda, Takasada Shibauchi, Takahito Terashima, Yuji Matsuda, and Kenji Ishida	
Broadening of the Berezinskii-Kosterlitz-Thouless transition by correlated disorder (5 pages)	060508(R)
I. Maccari, L. Benfatto, and C. Castellani	

(Continued)

RAPID COMMUNICATIONS

Structure, structural phase transitions, mechanical properties, defects

- Spatial design and control of graphene flake motion (5 pages) 060101(R)
H. Ghorbanfekr-Kalashami, F. M. Peeters, K. S. Novoselov, and M. Neek-Amal

Inhomogeneous, disordered, and partially ordered systems

- Strongly angle-dependent magnetoresistance in Weyl semimetals with long-range disorder (5 pages) 060201(R)
Jan Behrends and Jens H. Bardarson

- One-particle density matrix occupation spectrum of many-body localized states after a global quench (6 pages) 060202(R)
Talía L. M. Lezama, Soumya Bera, Henning Schomerus, Fabian Heidrich-Meisner, and Jens H. Bardarson

- Many-body mobility edges in a one-dimensional system of interacting fermions (5 pages) 060203(R)
Sabyasachi Nag and Arti Garg

Dynamics, dynamical systems, lattice effects:

- Weak quantum chaos (6 pages) 060301(R)
Ivan Kukuljan, Sašo Grozdanov, and Tomaž Prosen

Magnetism

- Spin wave propagation in a uniformly biased curved magnonic waveguide (6 pages) 060401(R)
A. V. Sadovnikov, C. S. Davies, V. V. Kruglyak, D. V. Romanenko, S. V. Grishin, E. N. Beginin, Y. P. Sharaevskii, and S. A. Nikitov

- Longitudinal spin Seebeck effect in a half-metallic $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ film (6 pages) 060402(R)
B. W. Wu, G. Y. Luo, J. G. Lin, and S. Y. Huang

- Finite-temperature dynamics and thermal intraband magnon scattering in Haldane spin-one chains (6 pages) 060403(R)
J. Becker, T. Köhler, A. C. Tiegel, S. R. Manmana, S. Wessel, and A. Honecker

- Quantum phase transitions driven by rhombic-type single-ion anisotropy in the $S = 1$ Haldane chain (7 pages) ... 060404(R)
Yu-Chin Tzeng (曾郁欽), Hiroaki Onishi (大西弘明), Tsuyoshi Okubo (大久保毅), and Ying-Jer Kao (高英哲)

- Chirality-mediated bistability and strong frequency downshifting of the gyrotropic resonance of a magnetic vortex due to dynamic destiffening (5 pages) 060405(R)
Manu Sushruth, Jasper P. Fried, Abdelmadjid Anane, Stephane Xavier, Cyrile Deranlot, Vincent Cros, and Peter J. Metaxas

