

PHYSICAL REVIEW B

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 1098-0121)

PERIODICALS
Postmaster send address changes to:
APS Subscription Services
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 82, NUMBER 6

CONTENTS

AUGUST 2010-1(II)

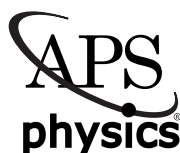
RAPID COMMUNICATIONS

Structure, structural phase transitions, mechanical properties, defects

- ☞ Evidence from x-ray diffraction of orientational ordering in phase III of solid hydrogen at pressures up to 183 GPa (*4 pages*) 060101(R)
Yuichi Akahama, Manabu Nishimura, Haruki Kawamura, Naohisa Hirao, Yasuo Ohishi, and Kenichi Takemura
- Unusual compression behavior of TiO₂ polymorphs from first principles (*4 pages*) 060102(R)
Xiang-Feng Zhou (周向锋), Xiao Dong (董校), Guang-Rui Qian (钱广锐), Lixin Zhang (张立新), Yonjun Tian (田永君), and Hui-Tian Wang (王慧田)
- Unveiling the atomic and electronic structure of the VN/MgO interface (*4 pages*) 060103(R)
Zaoli Zhang, B. Rashkova, G. Dehm, P. Lazar, J. Redinger, and R. Podloucky

Magnetism

- Hidden dimer order in the quantum compass model (*4 pages*) 060401(R)
Wojciech Brzezicki and Andrzej M. Oleś
- ☞ Magnetically induced electric polarization in an organometallic magnet (*4 pages*) 060402(R)
V. S. Zapf, M. Kenzelmann, F. Wolff-Fabris, F. Balakirev, and Y. Chen
- Spin-lattice relaxation via quantum tunneling in an Er³⁺-polyoxometalate molecular magnet (*4 pages*) 060403(R)
F. Luis, M. J. Martínez-Pérez, O. Montero, E. Coronado, S. Cardona-Serra, C. Martí-Gastaldo, J. M. Clemente-Juan, J. Sesé, D. Drung, and T. Schurig
- Magnetism-driven dislocation dissociation, cross slip, and mobility in NiAl (*4 pages*) 060404(R)
Yi Zhao, Chongyu Wang, and Gang Lu
- Impact of electron-electron interactions induced by disorder at interfaces on spin-dependent tunneling in Co-Fe-B/MgO/Co-Fe-B magnetic tunnel junctions (*4 pages*) 060405(R)
J. Bernos, M. Hehn, F. Montaigne, C. Tiusan, D. Lacour, M. Alnot, B. Negulescu, G. Lengaigne, E. Snoeck, and F. G. Aliev
- Dynamical central peak and spinon deconfinement in frustrated spin chains (*4 pages*) 060406(R)
J. Kokalj and P. Prelovšek
- Electronic phase separation in the pyrochlore double-exchange model (*4 pages*) 060407(R)
Yukitoshi Motome and Nobuo Furukawa



Copyright 2010 by The American Physical Society



1098-0121(20100801)82:6;1-K

(Continued)

☐ Selected for a Viewpoint in *Physics*. Please visit <http://physics.aps.org/>.

☞ The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

☞	Antiferromagnetic critical pressure in URu ₂ Si ₂ under hydrostatic conditions (<i>4 pages</i>)	060408(R)
	Nicholas P. Butch, Jason R. Jeffries, Songxue Chi, Juscelino Batista Leão, Jeffrey W. Lynn, and M. Brian Maple	
	Microscopic model of (CuCl)LaNb ₂ O ₇ : Coupled spin dimers replace a frustrated square lattice (<i>4 pages</i>)	060409(R)
	Alexander A. Tsirlin and Helge Rosner	
	Symmetry breaking and criticality in tensor-product states (<i>4 pages</i>)	060410(R)
	Chen Liu, Ling Wang, Anders W. Sandvik, Yu-Cheng Su, and Ying-Jer Kao	
	Fermionization transform for certain higher-dimensional quantum spin models (<i>4 pages</i>)	060411(R)
	Victor Galitski	
☞	Quantum simulation and phase diagram of the transverse-field Ising model with three atomic spins (<i>4 pages</i>)	060412(R)
	E. E. Edwards, S. Korenblit, K. Kim, R. Islam, M.-S. Chang, J. K. Freericks, G.-D. Lin, L.-M. Duan, and C. Monroe	
	Charge-induced spin polarization in nonmagnetic organic molecule Alq ₃ (<i>4 pages</i>)	060413(R)
	K. Tarafder, B. Sanyal, and P. M. Oppeneer	
	Superfluidity and superconductivity	
☞	Frequency-dependent ultrasound attenuation in superfluid ³ He in aerogel (<i>4 pages</i>)	060501(R)
	B. H. Moon, N. Masuhara, P. Bhupathi, M. Gonzalez, M. W. Meisel, Y. Lee, and N. Mulders	
	Transport implications of Fermi arcs in the pseudogap phase of the cuprates (<i>4 pages</i>)	060502(R)
	A. Levchenko, T. Micklitz, M. R. Norman, and I. Paul	
	Tunable phase diagram and vortex pinning in a superconductor-ferromagnet bilayer (<i>4 pages</i>)	060503(R)
	L. Y. Zhu, Marta Z. Cieplak, and C. L. Chien	
☞	Angle-resolved specific heat in iron-based superconductors: The case for a nodeless extended <i>s</i> -wave gap (<i>4 pages</i>)	060504(R)
	A. V. Chubukov and I. Eremin	
☞	Evidence for triplet superconductivity in Josephson junctions with barriers of the ferromagnetic Heusler alloy Cu ₂ MnAl (<i>4 pages</i>)	060505(R)
	D. Sprungmann, K. Westerholt, H. Zabel, M. Weides, and H. Kohlstedt	
	Proposal to detect vortices above the superconducting transition temperature (<i>3 pages</i>)	060506(R)
	Zoran Ristivojevic and M. R. Norman	
	Nodal-antinodal dichotomy from pairing disorder in <i>d</i> -wave superconductors (<i>4 pages</i>)	060507(R)
	Dimitrios Galanakis and Stefanos Papanikolaou	
☞	Nanoscale coexistence of magnetic and superconducting states within the FeAs layers of CeFeAsO _{1-x} F _x (<i>4 pages</i>)	060508(R)
	S. Sanna, R. De Renzi, T. Shiroka, G. Lamura, G. Prando, P. Carretta, M. Putti, A. Martinelli, M. R. Cimberle, M. Tropeano, and A. Palenzona	
☞	Spin zeros and the origin of Fermi-surface reconstruction in the cuprates (<i>4 pages</i>)	060509(R)
	M. R. Norman and Jie Lin	
	Antiferromagnetic ordering induced by paramagnetic depairing in unconventional superconductors (<i>4 pages</i>)	060510(R)
	Ryusuke Ikeda, Yuhki Hatakeyama, and Kazushi Aoyama	

(Continued)

Magnetic quantum oscillations and multiple holon pockets in the underdoped cuprate $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$ (4 pages)	060511(R)
Wei Chen, Oleg P. Sushkov, and Takami Tohyama	
Cotunneling in pairs of coupled flux qubits (4 pages)	060512(R)
T. Lanting, R. Harris, J. Johansson, M. H. S. Amin, A. J. Berkley, S. Gildert, M. W. Johnson, P. Bunyk, E. Tolkacheva, E. Ladizinsky, N. Ladizinsky, T. Oh, I. Perminov, E. M. Chapple, C. Enderud, C. Rich, B. Wilson, M. C. Thom, S. Uchaikin, and G. Rose	
Ultrafast charge dynamics in photoexcited Nd_2CuO_4 and La_2CuO_4 cuprate compounds investigated by femtosecond absorption spectroscopy (4 pages)	060513(R)
H. Okamoto, T. Miyagoe, K. Kobayashi, H. Uemura, H. Nishioka, H. Matsuzaki, A. Sawa, and Y. Tokura	
☞ Interplay of Fe and Nd magnetism in NdFeAsO single crystals (4 pages)	060514(R)
W. Tian, W. Ratcliff, II, M. G. Kim, J.-Q. Yan, P. A. Kienzle, Q. Huang, B. Jensen, K. W. Dennis, R. W. McCallum, T. A. Lograsso, R. J. McQueeney, A. I. Goldman, J. W. Lynn, and A. Kreyssig	
☞ Interacting bosons in one dimension and the applicability of Luttinger-liquid theory as revealed by path-integral quantum Monte Carlo calculations (4 pages)	060515(R)
Adrian Del Maestro and Ian Affleck	
Topological Hall effect in inhomogeneous superconductors (4 pages)	060516(R)
Satoshi Fujimoto	
Multiple Andreev reflections in hybrid multiterminal junctions (4 pages)	060517(R)
M. Houzet and P. Samuelsson	
London penetration depth in $\text{Ba}(\text{Fe}_{1-x}\text{T}_x)_2\text{As}_2$ ($T=\text{Co, Ni}$) superconductors irradiated with heavy ions (4 pages)	060518(R)
H. Kim, R. T. Gordon, M. A. Tanatar, J. Hua, U. Welp, W. K. Kwok, N. Ni, S. L. Bud'ko, P. C. Canfield, A. B. Vorontsov, and R. Prozorov	

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Si-compatible candidates for high- κ dielectrics with the $Pbnm$ perovskite structure (16 pages)	064101
Sinisa Coh, Tassilo Heeg, J. H. Haeni, M. D. Biegalski, J. Lettieri, L. F. Edge, K. E. O'Brien, M. Bernhagen, P. Reiche, R. Uecker, S. Trolier-McKinstry, Darrell G. Schlom, and David Vanderbilt	
Electronic structure of multiferroic BiFeO_3 and related compounds: Electron energy loss spectroscopy and density functional study (9 pages)	064102
Ragnhild Sæterli, Sverre Magnus Selbach, Ponniah Ravindran, Tor Grande, and Randi Holmestad	
Oxygen-vacancy-induced memory effect and large recoverable strain in a barium titanate single crystal (9 pages)	064103
Yihui Zhang, Jiangyu Li, and Daining Fang	
Orientationally disordered H_2 in the high-pressure van der Waals compound $\text{SiH}_4(\text{H}_2)_2$ (6 pages)	064104
Yinwei Li, Guoying Gao, Quan Li, Yanming Ma, and Guangtian Zou	
First-principles study of the effect of pressure on the five zirconia polymorphs. I. Structural, vibrational, and thermoelastic properties (13 pages)	064105
Giuseppe Fadda, Giovanni Zanzotto, and Luciano Colombo	

(Continued)

First-principles study of the effect of pressure on the five zirconia polymorphs. II. Static dielectric properties and Raman spectra (14 pages)	064106
Giuseppe Fadda, Giovanni Zanzotto, and Luciano Colombo	
Basic Co-rich decagonal Al-Co-Ni: Superstructure (5 pages)	064107
Angelica Strutz, Akiji Yamamoto, and Walter Steurer	
Thickness-dependent twinning evolution and ferroelectric behavior of epitaxial BiFeO ₃ (001) thin films (6 pages)	064108
Huajun Liu, Kui Yao, Ping Yang, Yonghua Du, Qing He, Yueliang Gu, Xiaolong Li, Sisheng Wang, Xingtai Zhou, and John Wang	
Elastic properties of perovskite YCrO ₃ up to 60 GPa (7 pages)	064109
M. Ardit, G. Cruciani, M. Dondi, M. Merlini, and P. Bouvier	
Structure of siderite FeCO ₃ to 56 GPa and hysteresis of its spin-pairing transition (7 pages)	064110
Barbara Lavina, Przemyslaw Dera, Robert T. Downs, Wenge Yang, Stanislav Sinogeikin, Yue Meng, Guoyin Shen, and David Schiferl	
Zintl behavior and vacancy formation in type-I Ba-Al-Ge clathrates (6 pages)	064111
Sergio Y. Rodriguez, Laziz Saribaev, and Joseph H. Ross, Jr.	
Postcotunnite phase of the intermetallic compound AuIn ₂ at high pressure (6 pages)	064112
B. K. Godwal, S. Speziale, M. Voltolini, R. Wenk, and R. Jeanloz	
Ablation and spallation of gold films irradiated by ultrashort laser pulses (5 pages)	064113
Brian J. Demaske, Vasily V. Zhakhovsky, Nail A. Inogamov, and Ivan I. Oleynik	
Structural effects and 4 <i>f</i> -5 <i>d</i> transition shifts induced by La codoping in Ce-doped yttrium aluminum garnet: First-principles study (8 pages)	064114
Ana Belén Muñoz-García, José Luis Pascual, Zoila Barandiarán, and Luis Seijo	
Lattice Green's function for crystals containing a planar interface (9 pages)	064115
M. Ghazisaeidi and D. R. Trinkle	
Raman and infrared spectroscopy of pyridine under high pressure (8 pages)	064116
Kirill K. Zhuravlev, Katrina Traikov, Zhaohui Dong, Shuntai Xie, Yang Song, and Zhenxian Liu	
Inhomogeneous, disordered, and partially ordered systems	
<i>Ab initio</i> molecular dynamics simulations using a Chebyshev-filtered subspace iteration technique (7 pages)	064201
K. H. Khoo, M. Kim, G. Schofield, and James R. Chelikowsky	
Growth and morphology transitions in anisotropic disordered media (8 pages)	064202
Belita Koiller and Mark O. Robbins	
Nonlinearity and isotope effect in temporal evolution of mesoscopic structure during hydration of cement (10 pages)	064203
S. Mazumder, D. Sen, J. Bahadur, J. Klepp, H. Rauch, and José Teixeira	
Resolution of interatomic distances in the study of local atomic structure distortions by energy-restricted x-ray absorption spectra (9 pages)	064204
L. A. Bugaev, L. A. Avakyan, V. V. Sraibonyan, and A. L. Bugaev	

(Continued)

Dynamics, dynamical systems, lattice effects

Proton momentum distribution in solid and liquid HF (9 pages)	064301
M. Krzystyniak and T. Abdul-Redah	
Elastic properties of polycrystalline Al and Ag films down to 6 mK (10 pages)	064302
A. D. Fefferman, R. O. Pohl, and J. M. Parpia	

Magnetism

Calculation of the Gilbert damping matrix at low scattering rates in Gd (7 pages)	064401
Jonas Seib and Manfred Fähnle	
Coupling of ferroelasticity and ferromagnetism in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ twin crystals (6 pages)	064402
Tôru Kyômen, Akito Sano, Yohei Murachi, Minoru Hanaya, Kosuke Suzuki, and Masahisa Ito	
Composition dependence of exchange stiffness in $\text{Fe}_x\text{Pt}_{1-x}$ alloys (6 pages)	064403
C. Antoniak, J. Lindner, K. Fauth, J.-U. Thiele, J. Minár, S. Mankovsky, H. Ebert, H. Wende, and M. Farle	
Quantum phase transitions in single-crystal $\text{Mn}_{1-x}\text{Fe}_x\text{Si}$ and $\text{Mn}_{1-x}\text{Co}_x\text{Si}$: Crystal growth, magnetization, ac susceptibility, and specific heat (27 pages)	064404
A. Bauer, A. Neubauer, C. Franz, W. Münzer, M. Garst, and C. Pfleiderer	
First-principles study of structural distortions in frustrated antiferromagnet $\alpha\text{-NaMnO}_2$ (5 pages)	064405
Z. W. Ouyang and B. Wang	
Magnetodielectric and magnetoelastic coupling in $\text{TbFe}_3(\text{BO}_3)_4$ (5 pages)	064406
U. Adem, L. Wang, D. Fausti, W. Schottenhamel, P. H. M. van Loosdrecht, A. Vasiliev, L. N. Bezmaternykh, B. Büchner, C. Hess, and R. Klingeler	
Sliding conductivity of a magnetic kink crystal in a chiral helimagnet (12 pages)	064407
Jun-ichiro Kishine, A. S. Ovchinnikov, and I. V. Proskurin	
Exchange bias induced by domain walls in BiFeO_3 (5 pages)	064408
K. L. Livesey	
Phase transitions and iron-ordered moment form factor in LaFeAsO (6 pages)	064409
H.-F. Li, W. Tian, J.-Q. Yan, J. L. Zarestky, R. W. McCallum, T. A. Lograsso, and D. Vaknin	
Landau model for the phase diagrams of the orthorhombic rare-earth manganites RMnO_3 ($R=\text{Eu, Gd, Tb, Dy, Ho}$) (12 pages)	064410
J. L. Ribeiro and L. G. Vieira	
Evidence of intrinsic magnetism in capped ZnO nanoparticles (9 pages)	064411
J. Chaboy, R. Boada, C. Piquer, M. A. Laguna-Marco, M. García-Hernández, N. Carmona, J. Llopis, M. L. Ruíz-González, J. González-Calbet, J. F. Fernández, and M. A. García	
Antiferromagnetic Mott insulating state in single crystals of the honeycomb lattice material Na_2IrO_3 (7 pages)	064412
Yogesh Singh and P. Gegenwart	
Adiabatic quantum pumping, magnification effects, and quantum size effects of spin torque in magnetic tunnel junctions (9 pages)	064413
A. Sorgente, F. Romeo, and R. Citro	
Controlling the properties of vortex domain walls via magnetic seeding fields (6 pages)	064414
S. Hankemeier, A. Kobs, R. Frömter, and H. P. Oepen	

(Continued)

Micromagnetic analysis of injection locking in spin-transfer nano-oscillators (<i>11 pages</i>)	064415
M. d'Aquino, C. Serpico, R. Bonin, G. Bertotti, and I. D. Mayergoyz	
Elastic and inelastic conductance in Co-Fe-B/MgO/Co-Fe-B magnetic tunnel junctions (<i>8 pages</i>)	064416
Ayaz Arif Khan, J. Schmalhorst, G. Reiss, G. Eilers, M. Münzenberg, H. Schuhmann, and M. Seibt	
Spin-glass ground state in $\text{Mn}_{1-x}\text{Co}_x\text{Si}$ (<i>7 pages</i>)	064417
J. Teyssier, E. Giannini, V. Guritanu, R. Viennois, D. van der Marel, A. Amato, and S. N. Gvasaliya	
Spin-helicity-dependent magnetic domain growth in a spin-driven multiferroic under applied electric field (<i>5 pages</i>)	064418
Taro Nakajima, Setsuo Mitsuda, Keiichi Takahashi, Hiroe Yamazaki, Keisuke Yoshitomi, Minoru Soda, Masato Matsuura, and Kazuma Hirota	
Griffiths phase, metal-insulator transition, and magnetoresistance of doped manganites (<i>11 pages</i>)	064419
V. N. Krivoruchko, M. A. Marchenko, and Y. Melikhov	
Electronic structure and lattice dynamics of the magnetic shape-memory alloy Co_2NiGa (<i>11 pages</i>)	064420
M. Siewert, M. E. Gruner, A. Dannenberg, A. Hucht, S. M. Shapiro, G. Xu, D. L. Schlager, T. A. Lograsso, and P. Entel	
Experimental and theoretical study of the magnetic and structural properties of $\text{Er}_{0.75}\text{Tb}_{0.25}\text{Al}_2$ (<i>8 pages</i>)	064421
Mahmud Khan, Ya. Mudryk, D. Paudyal, K. A. Gschneidner, Jr., and V. K. Pecharsky	
Critical behavior in single-crystalline $\text{La}_{0.67}\text{Sr}_{0.33}\text{CoO}_3$ (<i>8 pages</i>)	064422
N. Khan, A. Midya, K. Mydeen, P. Mandal, A. Loidl, and D. Prabhakaran	
Crystal-field excitations and spin-phonon interactions in $\text{DyNi}_2\text{B}_2\text{C}$: Raman scattering study (<i>5 pages</i>)	064423
Heesuk Rho, Miles V. Klein, and Paul C. Canfield	
Cupric chloride CuCl_2 as an $S=\frac{1}{2}$ chain multiferroic (<i>5 pages</i>)	064424
S. Seki, T. Kurumaji, S. Ishiwata, H. Matsui, H. Murakawa, Y. Tokunaga, Y. Kaneko, T. Hasegawa, and Y. Tokura	
Monte Carlo study of the two-dimensional site-diluted dipolar Ising model (<i>10 pages</i>)	064425
Juan J. Alonso and B. Allés	
Stochastic nature of the domain wall depinning in permalloy magnetic nanowires (<i>5 pages</i>)	064426
Johanna Akerman, Manuel Muñoz, Marco Maicas, and José L. Prieto	
Superfluidity and superconductivity	
 Nodes in the gap structure of the iron arsenide superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ from <i>c</i> -axis heat transport measurements (<i>12 pages</i>)	064501
J.-Ph. Reid, M. A. Tanatar, X. G. Luo, H. Shakeripour, N. Doiron-Leyraud, N. Ni, S. L. Bud'ko, P. C. Canfield, R. Prozorov, and Louis Taillefer	
Evaluating free flux flow in low-pinning molybdenum-germanium superconducting films (<i>5 pages</i>)	064502
Manlai Liang, Milind N. Kunchur, Jiong Hua, and Zhili Xiao	
 Stability of exfoliated $\text{Bi}_2\text{Sr}_2\text{Dy}_x\text{Ca}_{1-x}\text{Cu}_2\text{O}_{8+\delta}$ studied by Raman microscopy (<i>5 pages</i>)	064503
L. J. Sandilands, J. X. Shen, G. M. Chugunov, S. Y. F. Zhao, Shimpei Ono, Yoichi Ando, and K. S. Burch	
Theoretical evidence for strong correlations and incoherent metallic state in FeSe (<i>5 pages</i>)	064504
Markus Aichhorn, Silke Biermann, Takashi Miyake, Antoine Georges, and Masatoshi Imada	

(Continued)

Interacting multicomponent exciton gases in a potential trap: Phase separation and Bose-Einstein condensation (8 pages)	064505
S. Sobkowiak, D. Semkat, H. Stolz, Th. Koch, and H. Fehske	
Macroscopic physical properties and spin dynamics in the layered superconductor $\text{Fe}_{1+\delta}\text{Te}_{1-x}\text{Se}_x$ (7 pages)	064506
Chishiro Michioka, Hiroto Ohta, Mami Matsui, Jinhu Yang, Kazuyoshi Yoshimura, and Minghu Fang	
Magnetic field effect on Fe-induced short-range magnetic correlation and electrical conductivity in $\text{Bi}_{1.75}\text{Pb}_{0.35}\text{Sr}_{1.90}\text{Cu}_{0.91}\text{Fe}_{0.09}\text{O}_{6+y}$ (7 pages)	064507
Shuichi Wakimoto, Haruhiro Hiraka, Kazutaka Kudo, Daichi Okamoto, Terukazu Nishizaki, Kazuhisa Kakurai, Tao Hong, Andrey Zheludev, John M. Tranquada, Norio Kobayashi, and Kazuyoshi Yamada	
Quantum chemical formulation of high- T_c superconductivity applied to α -FeSe (9 pages)	064508
Itai Panas	
Quantum field theory for the three-body constrained lattice Bose gas. I. Formal developments (19 pages) ...	064509
S. Diehl, M. Baranov, A. J. Daley, and P. Zoller	
Quantum field theory for the three-body constrained lattice Bose gas. II. Application to the many-body problem (21 pages)	064510
S. Diehl, M. Baranov, A. J. Daley, and P. Zoller	
☞ Unconventional superconducting phase in the weakly correlated noncentrosymmetric $\text{Mo}_3\text{Al}_2\text{C}$ compound (5 pages)	064511
E. Bauer, G. Rogl, Xing-Qiu Chen, R. T. Khan, H. Michor, G. Hilscher, E. Royanian, K. Kumagai, D. Z. Li, Y. Y. Li, R. Podloucky, and P. Rogl	
☞ Structure and physical properties of the noncentrosymmetric superconductor $\text{Mo}_3\text{Al}_2\text{C}$ (7 pages)	064512
A. B. Karki, Y. M. Xiong, I. Vekhter, D. Browne, P. W. Adams, D. P. Young, K. R. Thomas, Julia Y. Chan, H. Kim, and R. Prozorov	
Systematic study of electron-phonon coupling to oxygen modes across the cuprates (26 pages)	064513
S. Johnston, F. Vernay, B. Moritz, Z.-X. Shen, N. Nagaosa, J. Zaanen, and T. P. Devereaux	
Screening in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ at large wave vectors (6 pages)	064514
Simo Huotari, J. Aleksi Soininen, György Vankó, Giulio Monaco, and Valerio Olevano	
☞ Anisotropic neutron spin resonance in superconducting $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ (6 pages)	064515
O. J. Lipscombe, Leland W. Harriger, P. G. Freeman, M. Enderle, Chenglin Zhang, Miaoying Wang, Takeshi Egami, Jiangping Hu, Tao Xiang, M. R. Norman, and Pengcheng Dai	
Nonequilibrium superconducting and magnetic phases in a correlated electron system coupled to electrodes (5 pages)	064516
Takashi Oka and Hideo Aoki	
Th-substituted SmFeAsO : Structural details and superconductivity with T_c above 50 K (11 pages)	064517
N. D. Zhigadlo, S. Katrych, S. Weyeneth, R. Puzniak, P. J. W. Moll, Z. Bukowski, J. Karpinski, H. Keller, and B. Batlogg	
Cooperative effects of Coulomb and electron-phonon interactions in the two-dimensional 16-band d - p model for iron-based superconductors (10 pages)	064518
Yuki Yanagi, Youichi Yamakawa, Naoko Adachi, and Yoshiaki Ōno	
Charge noise at Cooper-pair resonances (12 pages)	064519
P. G. Kirton, M. Houzet, F. Pistolesi, and A. D. Armour	

(Continued)

Temperature dependence of the second magnetization peak in underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ single crystals (4 pages)	064520
L. Miu, T. Adachi, K. Omori, Y. Koike, and D. Miu	

ERRATA

Publisher's Note: Proton momentum distribution in solid and liquid HF [Phys. Rev. B 82 , 064301 (2010)] (1 page)	069901(E)
M. Krzystyniak and T. Abdul-Redah	
Erratum: Effect of normal stress on the ideal shear strength in covalent crystals [Phys. Rev. B 77 , 100101(R) (2008)] (1 page)	069902(E)
Yoshitaka Umeno and Miroslav Černý	