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 79, NUMBER 5 *CONTENTS* **FEBRUARY 2009-1(I)**

BRIEF REPORTS

Structure, structural phase transitions, mechanical properties, defects

Temperature evolution of short- and medium-range ionic correlations in relaxor ferroelectric $[Pb(Zn_{1/3}Nb_{2/3})O_3]_{1-x}[PbTiO_3]_x$ (x=0.05, 0.12) *(4 pages)* 052101
I.-K. Jeong

Tomographic image alignment in three-dimensional coherent diffraction microscopy *(4 pages)* 052102
Chien-Chun Chen, Jianwei Miao, and T. K. Lee

Inhomogeneous, disordered, and partially ordered systems

Influence of disorder on electrically and optically detected electron spin nutation *(4 pages)* 052201
C. Michel, A. Gliesche, S. D. Baranovskii, K. Lips, F. Gebhard, and C. Boehme

Dynamics, dynamical systems, lattice effects, quantum solids

Phonon density of states of α- and δ-plutonium by inelastic x-ray scattering *(4 pages)* 052301
M. E. Manley, A. H. Said, M. J. Fluss, M. Wall, J. C. Lashley, A. Alatas, K. T. Moore, and Yu. Shvyd'ko

Magnetism

Jahn-Teller contribution to the magneto-optical effect in thin-film ferromagnetic manganites *(4 pages)* 052401
D. Hrabovský, J. M. Caicedo, G. Herranz, I. C. Infante, F. Sánchez, and J. Fontcuberta

Frozen magnetostructural order in Gd_5Ge_4: A calorimetric study *(4 pages)* 052402
L. S. Sharath Chandra, Swati Pandya, P. N. Vishwakarma, Deepti Jain, and V. Ganesan

Correlation of crystallographic and magnetic domains at Co/NiO(001) interfaces *(4 pages)* 052403
H. Ohldag, G. van der Laan, and E. Arenholz

Experimental determination of the dipolar field in Mn_{12}-acetate *(3 pages)* 052404
S. McHugh, R. Jaafar, M. P. Sarachik, Y. Myasoedov, H. Shtrikman, E. Zeldov, R. Bagai, and G. Christou

Electronic and crystal-field effects in the fine structure of electron energy-loss spectra of manganites *(4 pages)* 052405
Weidong Luo, Maria Varela, Jing Tao, Stephen J. Pennycook, and Sokrates T. Pantelides

Copyright 2009 by The American Physical Society

(Continued)

1098-0121(20090201)79:5;1-9

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).

PHYSICAL REVIEW B THIRD SERIES, VOLUME 79, NUMBER 5 FEBRUARY 2009-1(I)

Extended *s-d* model for magnetization dynamics of strongly noncollinear configurations *(4 pages)* 052406
L. De Angeli, D. Steiauf, R. Singer, I. Köberle, F. Dietermann, and M. Fähnle

Contrasting the magnetic response between a magnetic glass and a reentrant spin glass *(4 pages)* 052407
S. B. Roy and M. K. Chattopadhyay

Superfluidity and superconductivity

Theory of reduced singlet pairing without the underlying state of charge stripes in the high-temperature superconductor $YBa_2Cu_3O_{6.45}$ *(4 pages)* 052501
Hiroyuki Yamase

Effects of strong correlations and disorder in *d*-wave superconductors *(4 pages)* 052502
Marcos Rigol, B. Sriram Shastry, and Stephan Haas

Temperature-induced 0-π coexistence in clean superconductor-ferromagnet-superconductor Josephson junctions *(4 pages)* 052503
R. Zikic, L. Dobrosavljević-Grujić, and B. Vujičić

First-order magnetic transition in single-crystalline $CaFe_2As_2$ detected by ^{75}As nuclear magnetic resonance *(4 pages)* 052504
S.-H. Baek, N. J. Curro, T. Klimczuk, E. D. Bauer, F. Ronning, and J. D. Thompson

Character of magnetic instabilities in $CaFe_2As_2$ *(4 pages)* 052505
G. D. Samolyuk and V. P. Antropov

Possible two-gap behavior in noncentrosymmetric superconductor $Mg_{10}Ir_{19}B_{16}$: A penetration depth study *(4 pages)* 052506
I. Bonalde, R. L. Ribeiro, W. Brämer-Escamilla, G. Mu, and H. H. Wen

Doping and temperature dependence of Raman scattering from $NdFeAsO_{1-x}F_x$ (x=0–0.2) superconductor *(4 pages)* 052507
L. Zhang, T. Fujita, F. Chen, D. L. Feng, S. Maekawa, and M. W. Chen

Enhanced superfluid stiffness, lowered superconducting transition temperature, and field-induced magnetic state of the pnictide superconductor LiFeAs *(4 pages)* 052508
F. L. Pratt, P. J. Baker, S. J. Blundell, T. Lancaster, H. J. Lewtas, P. Adamson, M. J. Pitcher, D. R. Parker, and S. J. Clarke

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Absence of superconductivity in the high-pressure polymorph of MgB_2 *(5 pages)* 054101
Yanming Ma, Yanchao Wang, and Artem R. Oganov

^{59}Co NMR study of the allotropic phase transformation in small ferromagnetic cobalt particles *(8 pages)* 054102
R. Speight, A. Wong, P. Ellis, P. T. Bishop, T. I. Hyde, T. J. Bastow, and M. E. Smith

Ab initio calculations of *f*-orbital electron-phonon interaction in laser cooling *(5 pages)* 054103
Jedo Kim and Massoud Kaviany

Evidence for dielectric aging due to progressive 180° domain wall pinning in polydomain $Pb(Zr_{0.45}Ti_{0.55})O_3$ thin films *(9 pages)* 054104
Pavel Mokrý, Yongli Wang, Alexander K. Tagantsev, Dragan Damjanovic, Igor Stolichnov, and Nava Setter

(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).

PHYSICAL REVIEW B THIRD SERIES, VOLUME 79, NUMBER 5 FEBRUARY 2009-1(I)

Intrinsic dipolar glass behavior in epitaxial films of relaxor $PbMg_{1/3}Nb_{2/3}O_3$ *(11 pages)* 054105
M. Tyunina, M. Plekh, and J. Levoska

Phase noise induced due to amplitude fluctuations in dynamic force microscopy *(6 pages)* 054106
S. Rast, U. Gysin, and E. Meyer

Equation of state and phase diagram of water at ultrahigh pressures as in planetary interiors *(11 pages)* 054107
Martin French, Thomas R. Mattsson, Nadine Nettelmann, and Ronald Redmer

Hydrogen-vacancy complexes in electron-irradiated niobium *(18 pages)* 054108
Jakub Čížek, Ivan Procházka, Stanislav Daniš, Gerhard Brauer, Wolfgang Anwand, Ryota Gemma, Eugen Nikitin, Reiner Kirchheim, Astrid Pundt, and Rinat K. Islamgaliev

Atomistic simulations of crystal-melt interfaces in a model binary alloy: Interfacial free energies, adsorption coefficients, and excess entropy *(13 pages)* 054109
C. A. Becker, D. L. Olmsted, M. Asta, J. J. Hoyt, and S. M. Foiles

Two coherent phonon modes at the metal-insulator transition of the spinel $CuIr_2S_4$ compound using femtosecond pump-probe spectroscopy *(4 pages)* 054110
I. Matsubara, S. Ebihara, T. Mishina, J. Nakahara, N. Matsumoto, and S. Nagata

Photoinduced domain-type collective structural changes with interlayer σ-bonds in the visible region of graphite *(6 pages)* 054111
Hiromasa Ohnishi and Keiichiro Nasu

Tight-binding molecular dynamics simulations of radiation-induced C_{60} fragmentation *(10 pages)* 054112
Titus A. Beu, Lóránd Horváth, and Ioan Ghişoiu

First-principles study of H ordering in α-RH_x (R=Sc, Y, Ho, Er, Tm, and Lu) *(7 pages)* 054113
Jorge Garcés, Rafael González, and Peter Vajda

Inhomogeneous, disordered, and partially ordered systems

Augmented-space cluster coherent potential approximation for binary random and short-range ordered alloys *(11 pages)* 054201
Moshiour Rahaman and Abhijit Mookerjee

Electronic structure and effective chemical and magnetic exchange interactions in bcc Fe-Cr alloys *(16 pages)* 054202
P. A. Korzhavyi, A. V. Ruban, J. Odqvist, J.-O. Nilsson, and B. Johansson

Charge carrier localization due to ferromagnetic clusters in concentrated AuFe alloys *(6 pages)* 054203
B. Gorshunov, S. Kaiser, E. S. Zhukova, A. S. Prokhorov, M. B. S. Hesselberth, J. Aarts, G. J. Nieuwenhuys, and M. Dressel

Chemical origin of polarization-dependent photoinduced changes in an $As_{36}Se_{64}$ glass film via *in situ* synchrotron x-ray photoelectron spectroscopy *(7 pages)* 054204
K. Antoine, H. Jain, M. Vlcek, S. D. Senanayake, and D. A. Drabold

Dynamics, dynamical systems, lattice effects, quantum solids

Vibrational properties of rare-earth nitrides: Raman spectra and theory *(6 pages)* 054301
S. Granville, C. Meyer, A. R. H. Preston, B. M. Ludbrook, B. J. Ruck, H. J. Trodahl, T. R. Paudel, and W. R. L. Lambrecht

(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).

PHYSICAL REVIEW B THIRD SERIES, VOLUME 79, NUMBER 5 FEBRUARY 2009-1(I)

Vibrational cavity modes in a free cylindrical disk *(18 pages)* 054302
Shin-ichiro Tamura

Spin-phonon coupling and magnetoelectric properties: $EuMnO_3$ versus $GdMnO_3$ *(10 pages)* 054303
W. S. Ferreira, J. Agostinho Moreira, A. Almeida, M. R. Chaves, J. P. Araújo, J. B. Oliveira, J. M. Machado Da Silva, M. A. Sá, T. M. Mendonça, P. Simeão Carvalho, J. Kreisel, J. L. Ribeiro, L. G. Vieira, P. B. Tavares, and S. Mendonça

Impurity diffusion activation energies in Al from first principles *(12 pages)* 054304
Darko Simonovic and Marcel H. F. Sluiter

Adsorption and melting of hydrogen in potassium-intercalated graphite *(7 pages)* 054305
J. J. Purewal, J. B. Keith, C. C. Ahn, B. Fultz, C. M. Brown, and M. Tyagi

Magnetism

Reversal time of the magnetization of single-domain ferromagnetic particles with mixed uniaxial and cubic anisotropy *(9 pages)* 054401
William T. Coffey, Pierre-Michel Déjardin, and Yuri P. Kalmykov

X-ray resonant scattering study of the structural and magnetic transitions in PrB_6 *(8 pages)* 054402
H. C. Walker, K. A. McEwen, D. F. McMorrow, M. Bleckmann, J.-G. Park, S. Lee, F. Iga, and D. Mannix

Exact low-temperature properties of a class of highly frustrated Hubbard models *(7 pages)* 054403
Oleg Derzhko, Andreas Honecker, and Johannes Richter

Anisotropic Heisenberg model with dipolar interactions: Monte Carlo simulations of the planar-to-paramagnetic phase transition in a bilayer system *(8 pages)* 054404
L. A. S. Mól and B. V. Costa

Bias dependence of magnetic exchange interactions: Application to interlayer exchange coupling in spin valves *(9 pages)* 054405
Paul M. Haney, Christian Heiliger, and Mark D. Stiles

Magnetic anisotropy in Gd, GdN, and $GdFe_2$ tuned by the energy of gadolinium 4*f* states *(7 pages)* 054406
Samir Abdelouahed and M. Alouani

Exchange bias in self-organized nanopatterned Cr/Fe junctions *(6 pages)* 054407
F. Bisio, L. Anghinolfi, M. Canepa, and L. Mattera

Entanglement and Bell's inequality violation above room temperature in metal carboxylates *(5 pages)* 054408
A. M. Souza, D. O. Soares-Pinto, R. S. Sarthour, I. S. Oliveira, M. S. Reis, P. Brandão, and A. M. dos Santos

Structural effects on the spin-state transition in epitaxially strained $LaCoO_3$ films *(7 pages)* 054409
James M. Rondinelli and Nicola A. Spaldin

Suppression of Mn photoluminescence in ferromagnetic state of Mn-doped ZnS nanocrystals *(6 pages)* 054410
I. Sarkar, M. K. Sanyal, S. Takeyama, S. Kar, H. Hirayama, H. Mino, F. Komori, and S. Biswas

Magnetic and dielectric properties of hexagonal $InMnO_3$ *(7 pages)* 054411
Alexei A. Belik, Stanislav Kamba, Maxim Savinov, Dmitry Nuzhnyy, Makoto Tachibana, Eiji Takayama-Muromachi, and V. Goian

Quantum phase diagram and excitations for the one-dimensional $S=1$ Heisenberg antiferromagnet with single-ion anisotropy *(8 pages)* 054412
A. Fabricio Albuquerque, Chris J. Hamer, and Jaan Oitmaa

(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).

PHYSICAL REVIEW B THIRD SERIES, VOLUME 79, NUMBER 5 FEBRUARY 2009-1(I)

Collective excitations in a two-dimensional antiferromagnet in a strong magnetic field *(6 pages)* 054413
A. V. Syromyatnikov

Dependence of domain wall pinning potential landscapes on domain wall chirality and pinning site geometry in planar nanowires *(8 pages)* 054414
L. K. Bogart, D. Atkinson, K. O'Shea, D. McGrouther, and S. McVitie

Interlayer coupling enhanced by the interface roughness: A perturbative method *(7 pages)* 054415
Ching-Hao Chang and Tzay-Ming Hong

Transport, magnetic, and structural properties of $La_{0.7}Ce_{0.3}MnO_3$ thin films: Evidence for hole-doping *(8 pages)* 054416
R. Werner, C. Raisch, V. Leca, V. Ion, S. Bals, G. Van Tendeloo, T. Chassé, R. Kleiner, and D. Koelle

Transformation of propagating spin-wave modes in microscopic waveguides with variable width *(5 pages)* 054417
Vladislav E. Demidov, Johann Jersch, Sergej O. Demokritov, Karsten Rott, Patryk Krzysteczko, and Guenter Reiss

Theory of magnetic resonance as an orbital state probe *(8 pages)* 054418
A. A. Mozhegorov, A. V. Larin, A. E. Nikiforov, L. E. Gontchar, and A. V. Efremov

Giant magnetostriction of $Fe_{1-x}Be_x$ alloy: A first-principles study *(5 pages)* 054419
Soon Cheol Hong, Won Seok Yun, and Ruqian Wu

^{31}P-NMR study of hyperfine interactions and magnetic fluctuations in the neptunium-based filled skutterudite $NpFe_4P_{12}$ *(7 pages)* 054420
Y. Tokunaga, S. Kambe, H. Sakai, H. Chudo, T. D. Matsuda, Y. Haga, H. Yasuoka, D. Aoki, Y. Homma, Y. Shiokawa, and Y. Ōnuki

Multimagnon bound states in an easy-axis frustrated ferromagnetic spin chain *(10 pages)* 054421
D. V. Dmitriev and V. Ya. Krivnov

Incommensurate magnetic ordering in Ti-doped $Sr_3Ru_2O_7$ *(8 pages)* 054422
P. Steffens, J. Farrell, S. Price, A. P. Mackenzie, Y. Sidis, K. Schmalzl, and M. Braden

Anomalous Hall conductivity due to vector spin chirality in the weak coupling regime *(5 pages)* 054423
Katsuhisa Taguchi and Gen Tatara

Spin and charge pumping in magnetic tunnel junctions with precessing magnetization: A nonequilibrium Green function approach *(8 pages)* 054424
Son-Hsien Chen, Ching-Ray Chang, John Q. Xiao, and Branislav K. Nikolić

Deconfinement criticality in the spatially anisotropic triangular antiferromagnet with ring exchange *(6 pages)* 054425
Yoshihiro Nishiyama（西山由弘）

Static and dynamic magnetic properties of $Ni_{80}Fe_{20}$ square antidot arrays *(9 pages)* 054426
D. H. Y. Tse, S. J. Steinmuller, T. Trypiniotis, D. Anderson, G. A. C. Jones, J. A. C. Bland, and C. H. W. Barnes

Magnetocaloric effect in kinetically frustrated diamond chains *(7 pages)* 054427
M. S. S. Pereira, F. A. B. F. de Moura, and M. L. Lyra

Electronic and magnetic structure of the $(LaMnO_3)_{2n}/(SrMnO_3)_n$ superlattices *(6 pages)* 054428
B. R. K. Nanda and S. Satpathy

(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).

PHYSICAL REVIEW B THIRD SERIES, VOLUME 79, NUMBER 5 FEBRUARY 2009-1(I)

Domain structure of epitaxial Co films with perpendicular anisotropy *(7 pages)* 054429
J. Brandenburg, R. Hühne, L. Schultz, and V. Neu

Heat capacity proportional to T^2 induced by Ru substitution in $CaCu_3(Ti_{4-x}Ru_x)O_{12}$ ($x \approx 0.5$) *(8 pages)* 054430
I. Tsukada, R. Kammuri, T. Kida, S. Yoshii, T. Takeuchi, M. Hagiwara, M. Iwakawa, W. Kobayashi, and I. Terasaki

Ferromagnetism and lattice distortions in the perovskite $YTiO_3$ *(10 pages)* 054431
W. Knafo, C. Meingast, A. V. Boris, P. Popovich, N. N. Kovaleva, P. Yordanov, A. Maljuk, R. K. Kremer, H. v. Löhneysen, and B. Keimer

Interplay between Jahn-Teller instability, uniaxial magnetism, and ferroelectricity in Ca_3CoMnO_6 *(6 pages)* 054432
Y. Zhang, H. J. Xiang, and M.-H. Whangbo

Thermally induced rotation of 3*d* orbital stripes in $Pr(Sr_{0.1}Ca_{0.9})_2Mn_2O_7$ *(5 pages)* 054433
T. A. W. Beale, S. R. Bland, R. D. Johnson, P. D. Hatton, J. C. Cezar, S. S. Dhesi, M. v. Zimmermann, D. Prabhakaran, and A. T. Boothroyd

Superfluidity and superconductivity

Josephson tunnel junctions with a strong ferromagnetic interlayer *(7 pages)* 054501
A. A. Bannykh, J. Pfeiffer, V. S. Stolyarov, I. E. Batov, V. V. Ryazanov, and M. Weides

Supercell studies of the Fermi surface changes in the electron-doped superconductor $LaFeAsO_{1-x}F_x$ *(7 pages)* 054502
P. Larson and S. Satpathy

First-order magnetic and structural phase transitions in $Fe_{1+y}Se_xTe_{1-x}$ *(7 pages)* 054503
Shiliang Li, Clarina de la Cruz, Q. Huang, Y. Chen, J. W. Lynn, Jiangping Hu, Yi-Lin Huang, Fong-Chi Hsu, Kuo-Wei Yeh, Maw-Kuen Wu, and Pengcheng Dai

Spin-orbital frustrations and anomalous metallic state in iron-pnictide superconductors *(15 pages)* 054504
Frank Krüger, Sanjeev Kumar, Jan Zaanen, and Jeroen van den Brink

Nonlocal Andreev transport through an interacting quantum dot *(5 pages)* 054505
David Futterer, Michele Governale, Marco G. Pala, and Jürgen König

Two-dimensional frustrated magnetic state in superconducting $RuSr_2Eu_{1.5}Ce_{0.5}Cu_2O_{10}$ *(6 pages)* 054506
S. Garcia, L. Ghivelder, and I. Felner

Nonlinear noninertial response of a quantum Brownian particle in a tilted periodic potential to a strong ac force as applied to a point Josephson junction *(9 pages)* 054507
William T. Coffey, Yuri P. Kalmykov, Serguey V. Titov, and Liam Cleary

Tunneling conductance and local density of states in time-reversal symmetry breaking superconductors under the influence of an external magnetic field *(12 pages)* 054508
Mihail A. Silaev, Takehito Yokoyama, Jacob Linder, Yukio Tanaka, and Asle Sudbø

Magnetothermal instability in the organic layered superconductor κ-(BEDT-TTF)$_2$Cu(NCS)$_2$ *(5 pages)* 054509
T. Konoike, K. Uchida, T. Osada, T. Yamaguchi, M. Nishimura, T. Terashima, S. Uji, and J. Yamada

Electronic and structural properties of low-temperature superconductors and ternary pnictides ANi_2Pn_2 (A = Sr, Ba and Pn = P, As) *(7 pages)* 054510
I. R. Shein and A. L. Ivanovskii

Anisotropy of the pairing gap of FeAs-based superconductors induced by spin fluctuations *(9 pages)* 054511
Rastko Sknepnek, German Samolyuk, Yong-bin Lee, and Jörg Schmalian

(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).

PHYSICAL REVIEW B THIRD SERIES, VOLUME 79, NUMBER 5 FEBRUARY 2009-1(I)

Exploring exotic superfluidity of polarized ultracold fermions in optical lattices *(6 pages)* 054512
Yan Chen, Z. D. Wang, F. C. Zhang, and C. S. Ting

Numerical study of the phase slips in ultrathin doubly connected superconducting cylinders *(9 pages)* 054513
Chunyin Qiu and Tiezheng Qian

Fluctuation-induced first-order transition in *p*-wave superconductors *(5 pages)* 054514
Qi Li, D. Belitz, and John Toner

Experiments with single electrons in liquid helium *(11 pages)* 054515
W. Guo, D. Jin, G. M. Seidel, and H. J. Maris

Classical analysis of capacitively coupled superconducting qubits *(5 pages)* 054516
James A. Blackburn, Jeffrey E. Marchese, Matteo Cirillo, and Niels Grønbech-Jensen

Momentum dependence of the superconducting gap in $Ba_{1-x}K_xFe_2As_2$ *(13 pages)* 054517
D. V. Evtushinsky, D. S. Inosov, V. B. Zabolotnyy, A. Koitzsch, M. Knupfer, B. Büchner, M. S. Viazovska, G. L. Sun, V. Hinkov, A. V. Boris, C. T. Lin, B. Keimer, A. Varykhalov, A. A. Kordyuk, and S. V. Borisenko

Superconducting/ferromagnetic diffusive bilayer with a spin-active interface: A numerical study *(7 pages)* . . . 054518
Audrey Cottet and Jacob Linder

Probing the Yb^{3+} spin relaxation in $Y_{0.98}Yb_{0.02}Ba_2Cu_3O_x$ by electron paramagnetic resonance *(8 pages)* 054519
A. Maisuradze, A. Shengelaya, B. I. Kochelaev, E. Pomjakushina, K. Conder, H. Keller, and K. A. Müller

Two-band conduction in superconducting $ThPt_4Ge_{12}$ *(5 pages)* 054520
V. H. Tran, D. Kaczorowski, W. Miiller, and A. Jezierski

Effects of cobalt doping and phase diagrams of $LFe_{1-x}Co_xAsO$ (L=La and Sm) *(9 pages)* 054521
C. Wang, Y. K. Li, Z. W. Zhu, S. Jiang, X. Lin, Y. K. Luo, S. Chi, L. J. Li, Z. Ren, M. He, H. Chen, Y. T. Wang, Q. Tao, G. H. Cao, and Z. A. Xu

Generation of turbulence by vibrating forks and other structures in superfluid ^{4}He *(11 pages)* 054522
M. Blažková, D. Schmoranzer, L. Skrbek, and W. F. Vinen

Theory of superconducting and magnetic proximity effect in S/F structures with inhomogeneous magnetization textures and spin-active interfaces *(15 pages)* 054523
Jacob Linder, Takehito Yokoyama, and Asle Sudbø

Superconductivity in lithium under high pressure investigated with density functional and Eliashberg theory *(11 pages)* 054524
Yansun Yao, J. S. Tse, K. Tanaka, F. Marsiglio, and Y. Ma

Thermal expansion and anisotropic pressure derivatives of T_c in $Ba(Fe_{1-x}Co_x)_2As_2$ single crystals *(6 pages)* 054525
S. L. Bud'ko, N. Ni, S. Nandi, G. M. Schmiedeshoff, and P. C. Canfield

Anisotropic itinerant magnetism and spin fluctuations in $BaFe_2As_2$: A neutron scattering study *(7 pages)* 054526
K. Matan, R. Morinaga, K. Iida, and T. J. Sato

Self-organized mode-locking effect in superconductor/ferromagnet hybrids *(9 pages)* 054527
J. Van de Vondel, A. V. Silhanek, V. Metlushko, P. Vavassori, B. Ilic, and V. V. Moshchalkov

Nature of the nodal kink in angle-resolved photoemission spectra of cuprate superconductors *(8 pages)* 054528
H. S. Ruiz and A. Badía-Majós

(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).

PHYSICAL REVIEW B THIRD SERIES, VOLUME 79, NUMBER 5 FEBRUARY 2009-1(I)

Impurity effects on the $\pm s$-wave state of the iron-based superconductors *(8 pages)* 054529
Yunkyu Bang, Han-Yong Choi, and Hyekyung Won

ERRATA

Erratum: First-principles calculations of spin relaxation times of conduction electrons in Cu with nonmagnetic impurities [Phys. Rev. B **77**, 092406 (2008)] *(2 pages)* . . . . . 059901(E)
D. V. Fedorov, P. Zahn, M. Gradhand, and I. Mertig

Erratum: Magnetic behavior and Coulomb-lattice-gas ordering of Mn^{2+} and Sn^{4+} ions in K_2MnSnS_4 [Phys. Rev. B **55**, 11056 (1997)] *(1 page)* . . . . . 059902(E)
Guy D. Albertelli, J. A. Cowen, C. N. Hoff, T. A. Kaplan, S. D. Mahanti, J. H. Liao, and M. G. Kanatzidis

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).