

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 1N01
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 78, NUMBER 18

CONTENTS

NOVEMBER 2008-1(II)

RAPID COMMUNICATIONS

Structure, structural phase transitions, mechanical properties, defects

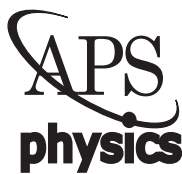
- Shear stresses in shock-compressed diamond from density functional theory (*4 pages*) 180101(R)
Ivan I. Oleynik, Aaron C. Landerville, Sergey V. Zybin, Mark L. Elert, and Carter T. White

Dynamics, dynamical systems, lattice effects, quantum solids

- Lattice dynamics of Eu from nuclear inelastic scattering and first-principles calculations (*4 pages*) 180301(R)
Svetoslav Stankov, Przemysław Piekarczyk, Andrzej M. Oleś, Krzysztof Parlinski, and Rudolf Rüffer

Magnetism

-  Coherent control of nanomagnet dynamics via ultrafast spin torque pulses (*4 pages*) 180401(R)
Samir Garzon, Longfei Ye, Richard A. Webb, Thomas M. Crawford, Mark Covington, and Shehzaad Kaka
-  Influence of oxidation on the spin-filtering properties of CoFe_2O_4 and the resultant spin polarization (*4 pages*) 180402(R)
A. V. Ramos, T. S. Santos, G. X. Miao, M.-J. Guittet, J.-B. Moussy, and J. S. Moodera
- Field-induced spin-state transition in the perovskite cobalt oxide $\text{Sr}_{1-x}\text{Y}_x\text{CoO}_{3-\delta}$ (*4 pages*) 180403(R)
S. Kimura, Y. Maeda, T. Kashiwagi, H. Yamaguchi, M. Hagiwara, S. Yoshida, I. Terasaki, and K. Kindo
- High-field electron spin resonance in the two-dimensional triangular-lattice antiferromagnet NiGa_2S_4 (*4 pages*) 180404(R)
H. Yamaguchi, S. Kimura, M. Hagiwara, Y. Nambu, S. Nakatsuji, Y. Maeno, and K. Kindo
- Time-resolved imaging of current-induced domain-wall oscillations (*4 pages*) 180405(R)
Lars Bocklage, Benjamin Krüger, René Eiselt, Markus Bolte, Peter Fischer, and Guido Meier
- Doping-dependent charge and spin superstructures in layered cobalt perovskites (*4 pages*) 180406(R)
N. Sakiyama, I. A. Zaliznyak, S.-H. Lee, Y. Mitsui, and H. Yoshizawa
- Unusual heavy-mass nearly ferromagnetic state with a surprisingly large Wilson ratio in the double layered ruthenates $(\text{Sr}_{1-x}\text{Ca}_x)_3\text{Ru}_2\text{O}_7$ (*4 pages*) 180407(R)
Zhe Qu, Leonard Spinu, Huiqiu Yuan, Vladimir Dobrosavljević, Wei Bao, Jeffrey W. Lynn, M. Nicklas, Jin Peng, Tijiang Liu, David Fobes, Etienne Flesch, and Z. Q. Mao



Copyright 2008 by The American Physical Society

(Continued)



1098-0121(20081101)78:18;1-H

 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).

Pinned Co moments in a polycrystalline permalloy/CoO exchange-biased bilayer (4 pages)	180408(R)
E. Blackburn, C. Sanchez-Hanke, S. Roy, D. J. Smith, J.-I. Hong, K. T. Chan, A. E. Berkowitz, and S. K. Sinha	
Effect of electron doping the metamagnet $\text{Sr}_{3-y}\text{La}_y\text{Ru}_2\text{O}_7$ (4 pages)	180409(R)
J. Farrell, R. S. Perry, A. Rost, J. F. Mercure, N. Kikugawa, S. A. Grigera, and A. P. Mackenzie	
Chiral spin states in the pyrochlore Heisenberg magnet: Fermionic mean-field theory and variational Monte Carlo calculations (4 pages)	180410(R)
Jung Hoon Kim and Jung Hoon Han	
Temperature dependence of giant tunnel magnetoresistance in epitaxial Fe/MgO/Fe magnetic tunnel junctions (4 pages)	180411(R)
S. G. Wang, R. C. C. Ward, G. X. Du, X. F. Han, C. Wang, and A. Kohn	
Analytical solution of the equation of motion for a rigid domain wall in a magnetic material with perpendicular anisotropy (4 pages)	180412(R)
M. C. Hickey	
☞ Numerical evidence for unstable magnons at high fields in the Heisenberg antiferromagnet on the square lattice (4 pages)	180413(R)
Olav F. Syljuåsen	
Direct observation of the spin structures of vortex domain walls in ferromagnetic nanowires (4 pages)	180414(R)
T. Nagai, H. Yamada, M. Konoto, T. Arima, M. Kawasaki, K. Kimoto, Y. Matsui, and Y. Tokura	
Effect of spin fluctuations on the thermodynamic and transport properties of the itinerant ferromagnet CoS_2 (4 pages)	180415(R)
M. Otero-Leal, F. Rivadulla, M. García-Hernández, A. Piñeiro, V. Pardo, D. Baldomir, and J. Rivas	
Superfluidity and superconductivity	
Model for modulated electronic configurations in selectively doped multilayered La_2CuO_4 nanostructures (3 pages)	180501(R)
V. M. Loktev and Yu. G. Pogorelov	
☞ Vacuum Rabi splitting due to strong coupling of a flux qubit and a coplanar-waveguide resonator (4 pages)	180502(R)
Abdulfarrukh A. Abdumalikov, Jr., Oleg Astafiev, Yasunobu Nakamura, Yuri A. Pashkin, and JawShen Tsai	
☞ SrFeAsF as a parent compound for iron pnictide superconductors (4 pages)	180503(R)
Fei Han, Xiyu Zhu, Gang Mu, Peng Cheng, and Hai-Hu Wen	
Strong coupling between magnetic and structural order parameters in SrFe_2As_2 (4 pages)	180504(R)
A. Jesche, N. Caroca-Canales, H. Rosner, H. Borrmann, A. Ormeci, D. Kasinathan, H. H. Klauss, H. Luetkens, R. Khasanov, A. Amato, A. Hoser, K. Kaneko, C. Krellner, and C. Geibel	
Pauli-limited upper critical field in dirty d -wave superconductors (4 pages)	180505(R)
A. B. Vorontsov, I. Vekhter, and M. J. Graf	
Valence-band and core-level photoemission spectroscopy of $\text{LaFeAsO}_{1-x}\text{F}_x$ (4 pages)	180506(R)
A. Koitzsch, D. Inosov, J. Fink, M. Knupfer, H. Eschrig, S. V. Borisenko, G. Behr, A. Köhler, J. Werner, B. Büchner, R. Follath, and H. A. Dürr	
Transverse commensurability effect for vortices in periodic pinning arrays (4 pages)	180507(R)
C. Reichhardt and C. J. Olson Reichhardt	

(Continued)

- ☞ Pressure-induced shift of T_c in $K_xSr_{1-x}Fe_2As_2$ ($x=0.2, 0.4, 0.7$): Analogy to the high- T_c cuprate superconductors (4 pages) 180508(R)
 Melissa Gooch, Bing Lv, Bernd Lorenz, Arnold M. Guloy, and Ching-Wu Chu

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

- Defect-induced incompatibility of elastic strains: Dislocations within the Landau theory of martensitic phase transformations (14 pages) 184101
 R. Gröger, T. Lookman, and A. Saxena
- Hydrogen/silicon complexes in silicon from computational searches (8 pages) 184102
 Andrew J. Morris, Chris J. Pickard, and R. J. Needs
- Acoustic emission in the fcc-fct martensitic transition of $Fe_{68.8}Pd_{31.2}$ (7 pages) 184103
 Erell Bonnot, Lluís Mañosa, Antoni Planes, Daniel Soto-Parra, Eduard Vives, Benno Ludwig, Christian Strothkaemper, Takashi Fukuda, and Tomoyuki Kakeshita
- Modeling the plastic relaxation onset in realistic SiGe islands on Si(001) (12 pages) 184104
 R. Gatti, A. Marzeggalli, V. A. Zinovyev, F. Montalenti, and Leo Miglio
- First-principles characterization of Ni diffusion kinetics in β -NiAl (11 pages) 184105
 Kristen A. Marino and Emily A. Carter
- Influence of ion energy and ion species on ion channeling in $LiNbO_3$ (8 pages) 184106
 T. Steinbach, F. Schrempel, Th. Gischkat, and W. Wesch
- Wave propagation and instabilities in monolithic and periodically structured elastomeric materials undergoing large deformations (16 pages) 184107
 K. Bertoldi and M. C. Boyce
- ☞ First-principles study of microscopic properties of the Nb antisite in $LiNbO_3$: Comparison to phenomenological polaron theory (7 pages) 184108
 H. H. Nahm and C. H. Park
- Relative stability, electronic structure, and magnetism of MnN and (Ga,Mn)N alloys (11 pages) 184109
 J. A. Chan, Jefferson Z. Liu, Hannes Raebiger, Stephan Lany, and Alex Zunger
- Phase-field crystal study of grain-boundary premelting (22 pages) 184110
 Jesper Mellenthin, Alain Karma, and Mathis Plapp
- Energetics of nonequilibrium solidification in Al-Sm (9 pages) 184111
 S. H. Zhou and R. E. Napolitano
- Disorder-order transitions in Na_xCoO_2 ($x \sim 0.58$) (6 pages) 184112
 Dai Igarashi, Yuzuru Miyazaki, Tsuyoshi Kajitani, and Kunio Yubuta
- Inhomogeneous, disordered, and partially ordered systems**
- Conductivity of electronic liquid-crystalline mesophases (9 pages) 184201
 Rafael M. Fernandes, Jörg Schmalian, and Harry Westfahl, Jr.
- Rheology of liquid fcc metals: Equilibrium and transient-time correlation-function nonequilibrium molecular dynamics simulations (9 pages) 184202
 Caroline Desgranges and Jerome Delhommelle

(Continued)

Vibrational modes and local order in permanently densified silica glasses: Femtosecond and Raman spectroscopy study (9 pages)	184203
J. Burgin, C. Guillon, P. Langot, F. Vallée, B. Hehlen, and M. Foret	
Short- and medium-range order in a $\text{Zr}_{73}\text{Pt}_{27}$ glass: Experimental and simulation studies (9 pages)	184204
S. Y. Wang, C. Z. Wang, M. Z. Li, L. Huang, R. T. Ott, M. J. Kramer, D. J. Sordelet, and K. M. Ho	
Dynamics, dynamical systems, lattice effects, quantum solids	
Location- and observation time-dependent quantum tunneling (11 pages)	184301
V. Fleurov, R. Schilling, and B. Bayani	
Quantum cutting effect in $\text{KY}_3\text{F}_{10}:\text{Tm}^{3+}$ (11 pages)	184302
Léna Beuzamy, Bernard Moine, Richard S. Meltzer, Yi Zhou, Patrick Gredin, Anis Jouini, and Kyoungh Jin Kim	
Anomalous phonon properties in the silicide superconductors CaAlSi and SrAlSi (10 pages)	184303
S. Kuroiwa, T. Hasegawa, T. Kondo, N. Ogita, M. Udagawa, and J. Akimitsu	
Dynamical stabilization of cubic ZrO_2 by phonon-phonon interactions: <i>Ab initio</i> calculations (6 pages)	184304
P. Souvatzis and S. P. Rudin	
Polarized reflectivity and lattice dynamics calculation of multiferroic YMnO_3 (6 pages)	184305
M. Zaghrioui, V. Ta Phuoc, R. A. Souza, and M. Gervais	
Magnetism	
Interplay between structure and magnetism in hydride iron-vanadium systems (7 pages)	184401
A. Lebon, A. Mokrani, and A. Vega	
Field-induced staggered magnetic moment in the quasi-two-dimensional organic Mott insulator $\kappa\text{-(BEDT-TTF)}_2\text{Cu[N(CN)}_2\text{]Cl}$ (10 pages)	184402
F. Kagawa, Y. Kurosaki, K. Miyagawa, and K. Kanoda	
Effects of radio-frequency current on spin-transfer-torque-induced dynamics (7 pages)	184403
S. H. Florez, J. A. Katine, M. Carey, L. Folks, O. Ozatay, and B. D. Terris	
Vacancy-induced magnetism in SnO_2 : A density functional study (5 pages)	184404
Gul Rahman, Víctor M. García-Suárez, and Soon Cheol Hong	
Theory of manganite superlattices (10 pages)	184405
Chungwei Lin and Andrew J. Millis	
Quantum phase transition in the one-dimensional compass model using the pseudospin approach (8 pages)	184406
Wen-Long You and Guang-Shan Tian	
Magnetic crossover and complex excitation spectrum of the ferromagnetic/antiferromagnetic spin- $\frac{1}{2}$ chain system $\alpha\text{-TeVO}_4$ (10 pages)	184407
V. Gnezdilov, P. Lemmens, A. A. Zvyagin, V. O. Cheranovskii, K. Lamonova, Yu. G. Pashkevich, R. K. Kremer, and H. Berger	
Perturbative quantum Monte Carlo study of LiHoF_4 in a transverse magnetic field (20 pages)	184408
S. M. A. Tabei, M. J. P. Gingras, Y.-J. Kao, and T. Yavors'kii	
Extended scaling for ferromagnetic Ising models with zero-temperature transitions (8 pages)	184409
Helmut G. Katzgraber, I. A. Campbell, and A. K. Hartmann	

(Continued)

Low-temperature magnetic ordering in SrEr_2O_4 (6 pages)	184410
O. A. Petrenko, G. Balakrishnan, N. R. Wilson, S. de Brion, E. Suard, and L. C. Chapon	
Three-dimensional micromagnetic simulations of multidomain bubble-state excitation spectrum in ferromagnetic cylindrical nanodots (10 pages)	184411
N. Vukadinovic and F. Boust	
Quantum phase transitions in the $S=\frac{1}{2}$ distorted diamond chain (8 pages)	184412
Yan-Chao Li and Shu-Shen Li	
Exchange bias and magnetotransport properties in IrMn/NiFe/FeMn structures (6 pages)	184413
Z. B. Guo, Y. H. Wu, J. J. Qiu, B. Y. Zong, and G. C. Han	
Theory of the piezomagnetic effect in Mn-based antiperovskites (5 pages)	184414
Pavel Lukashev, Renat F. Sabirianov, and Kirill Belashchenko	
Quantum phase transitions of the asymmetric three-leg spin tube (11 pages)	184415
Tôru Sakai, Masahiro Sato, Kouichi Okunishi, Yuichi Otsuka, Kiyomi Okamoto, and Chigak Itoi	
Pressure effects on the magnetic transition temperature in ordered double perovskites (5 pages)	184416
D. Di Castro, P. Dore, R. Khasanov, H. Keller, P. Mahadevan, Sugata Ray, D. D. Sarma, and P. Postorino	
☞ Determination of the exchange anisotropy in perovskite antiferromagnets using powder inelastic neutron scattering (8 pages)	184417
R. J. McQueeney, J.-Q. Yan, S. Chang, and J. Ma	
☞ Mechanisms for spin supersolidity in $S=\frac{1}{2}$ spin-dimer antiferromagnets (11 pages)	184418
J.-D. Picon, A. F. Albuquerque, K. P. Schmidt, N. Laflorencie, M. Troyer, and F. Mila	
Thermodynamics of itinerant magnets in a classical spin-fluctuation model (7 pages)	184419
A. L. Wysocki, J. K. Glasbrenner, and K. D. Belashchenko	
Influence of spin-transfer torque on thermally activated ferromagnetic resonance excitations in magnetic tunnel junctions (13 pages)	184420
S. Petit, N. de Mestier, C. Baraduc, C. Thirion, Y. Liu, M. Li, P. Wang, and B. Dieny	
Enhancement of magnetoelectric coupling in functionally graded ferroelectric and ferromagnetic bilayers (8 pages)	184421
V. M. Petrov and G. Srinivasan	
Influence of electric fields on spin waves in simple ferromagnets: Role of the flexoelectric interaction (4 pages)	184422
D. L. Mills and I. E. Dzyaloshinskii	
Spin reorientation and glassy dynamics in $\text{La}_{1.55}\text{Sr}_{0.45}\text{NiO}_4$ (9 pages)	184423
S. R. Giblin, P. G. Freeman, K. Hradil, D. Prabhakaran, and A. T. Boothroyd	
Tb^{3+} in TbCo_3B_2 : A singlet ground state system studied by inelastic neutron scattering (6 pages)	184424
Oleg Rivin, Raymond Osborn, Alexander I. Kolesnikov, El'ad N. Caspi, and Hagai Shaked	
Canted magnetization texture in ferromagnetic tunnel junctions (5 pages)	184425
Igor Kuzmenko and Vladimir Fal'ko	
Temperature dependence of the training effect in exchange coupled ferromagnetic bilayers (8 pages)	184426
S. Polisetty, S. Sahoo, A. Berger, and Ch. Binek	

(Continued)

Monte Carlo study of the influence of antiferromagnetic exchange interactions on the phase transitions of ferromagnetic Ni-Mn-X alloys ($X=\text{In, Sn, Sb}$) (11 pages)	184427
V. D. Buchelnikov, P. Entel, S. V. Taskaev, V. V. Sokolovskiy, A. Hucht, M. Ogura, H. Akai, M. E. Gruner, and S. K. Nayak	
⁵⁵ Mn nuclear magnetic resonance study of highly Sr-doped $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$ ($x=0.5-0.8$) (8 pages)	184428
D. Rybicki, Cz. Kapusta, W. Tokarz, H. Štěpánková, V. Procházka, J. Haase, Z. Jiráček, D. T. Adroja, and J. F. Mitchell	
Spin dynamics in the magnetoelectric effect compound LiCoPO_4 (6 pages)	184429
Wei Tian, Jiying Li, Jeffrey W. Lynn, Jerel L. Zarestky, and David Vaknin	
Second-harmonic response and temperature differential resistivity of noncollinear spin valves (12 pages)	184430
Julie Dubois and Jean-Philippe Ansermet	
Nonequilibrium critical dynamics of the three-dimensional gauge glass (6 pages)	184431
Federico Romá and Daniel Domínguez	
Symmetry-allowed phase transitions realized by the two-dimensional fully frustrated XY class (7 pages)	184432
Petter Minnhagen, Beom Jun Kim, Sebastian Bernhardtsson, and Gerardo Cristofano	
Inhomogeneous phases in a double-exchange magnet with long range Coulomb interactions (15 pages)	184433
Gideon Wachtel, Dror Orgad, and Denis I. Golosov	
Modeling and characterization of irreversible switching and viscosity phenomena in perpendicular exchange-spring Fe-FePt bilayers (10 pages)	184434
R. Pellicelli, C. Pernechele, M. Solzi, M. Ghidini, F. Casoli, and F. Albertini	
Persistent ferromagnetism in antiferromagnetic $\text{Pr}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$ (6 pages)	184435
N. Biškup, A. de Andrés, and M. García Hernández	
Understanding the extraordinary magnetoelastic behavior in GdNi (5 pages)	184436
Durga Paudyal, Ya. Mudryk, Y. B. Lee, V. K. Pecharsky, K. A. Gschneidner, Jr., and B. N. Harmon	
Signature of the Luttinger liquid phase in alternating Heisenberg spin- $\frac{1}{2}$ chains: Analytical and numerical approaches (7 pages)	184437
J. Abouie and S. Mahdaviifar	
Evidence of local moment formation in Co-based Heusler alloys (7 pages)	184438
N. D. Telling, P. S. Keatley, G. van der Laan, R. J. Hicken, E. Arenholz, Y. Sakuraba, M. Oogane, Y. Ando, K. Takanashi, A. Sakuma, and T. Miyazaki	

Superfluidity and superconductivity

Superconductivity and antiferromagnetic ordering in the high-field paramagnetic oxypnictide $\text{NdFeAsO}_{0.94}\text{F}_{0.06}$ (5 pages)	184501
Chiara Tarantini, Alex Gurevich, David C. Larbalestier, Zhi-An Ren, Xiao-Li Dong, Wei Lu, and Zhong-Xian Zhao	
Flux-pinning mechanism in silicone-oil-doped MgB_2 : Evidence for charge-carrier mean free path fluctuation pinning (5 pages)	184502
S. R. Ghorbani, X. L. Wang, S. X. Dou, Sung-IK Lee, and M. S. A. Hossain	
Rabi-like oscillations of an anharmonic oscillator: Classical versus quantum interpretation (8 pages)	184503
J. Claudon, A. Zazunov, F. W. J. Hekking, and O. Buisson	

(Continued)

Hysteretic jumps in the response of layered superconductors to electromagnetic fields (<i>6 pages</i>)	184504
V. A. Yampol'skii, T. M. Slipchenko, Z. A. Mayzelis, D. V. Kadygrob, S. S. Apostolov, S. E. Savel'ev, and Franco Nori	
Supersolids in one-dimensional Bose-Fermi mixtures (<i>6 pages</i>)	184505
F. Hébert, G. G. Batrouni, X. Roy, and V. G. Rousseau	
Ni-based superconductor: Heusler compound ZrNi_2Ga (<i>9 pages</i>)	184506
Jürgen Winterlik, Gerhard H. Fecher, Claudia Felser, Martin Jourdan, Kai Grube, Frédéric Hardy, Hilbert von Löhneysen, K. L. Holman, and R. J. Cava	
Normal and anomalous solitons in the theory of dynamical Cooper pairing (<i>19 pages</i>)	184507
Emil A. Yuzbashyan	
☞ Momentum dependence of superconducting gap, strong-coupling dispersion kink, and tightly bound Cooper pairs in the high- T_c $(\text{Sr,Ba})_{1-x}(\text{K,Na})_x\text{Fe}_2\text{As}_2$ superconductors (<i>5 pages</i>)	184508
L. Wray, D. Qian, D. Hsieh, Y. Xia, L. Li, J. G. Checkelsky, A. Pasupathy, K. K. Gomes, C. V. Parker, A. V. Fedorov, G. F. Chen, J. L. Luo, A. Yazdani, N. P. Ong, N. L. Wang, and M. Z. Hasan	
☞ Spin fluctuation dynamics and multiband superconductivity in iron pnictides (<i>10 pages</i>)	184509
Valentin Stanev, Jian Kang, and Zlatko Tesanovic	
Dissipationless BCS dynamics with large branch imbalance (<i>10 pages</i>)	184510
A. Nahum and E. Bettelheim	
Effective pairing interaction in the two-dimensional Hubbard model within a spin rotationally invariant approach (<i>12 pages</i>)	184511
V. A. Apinyan and T. K. Kopeć	
Coexistence of superconductivity and antiferromagnetic ordering in the layered superconductor SmFePO (<i>7 pages</i>)	184512
Yoichi Kamihara, Hidenori Hiramatsu, Masahiro Hirano, Yasuhiro Kobayashi, Shinji Kitao, Satoshi Higashitaniguchi, Yoshitaka Yoda, Makoto Seto, and Hideo Hosono	
Odd-frequency pairing in a binary mixture of bosonic and fermionic cold atoms (<i>5 pages</i>)	184513
Ryan M. Kalas, Alexander V. Balatsky, and Dmitry Mozyrsky	
Fermi surface and band renormalization of $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ from angle-resolved photoemission spectroscopy (<i>6 pages</i>)	184514
Haiyun Liu, Wentao Zhang, Lin Zhao, Xiaowen Jia, Jianqiao Meng, Guodong Liu, Xiaoli Dong, G. F. Chen, J. L. Luo, N. L. Wang, Wei Lu, Guiling Wang, Yong Zhou, Yong Zhu, Xiaoyang Wang, Zuyan Xu, Chuangtian Chen, and X. J. Zhou	
Density functional theory of the structure of magnesium-doped helium nanodroplets (<i>19 pages</i>)	184515
Alberto Hernando, Manuel Barranco, Ricardo Mayol, Martí Pi, and Francesco Ancilotto	
Effect of pressure on the magnetostructural transition in SrFe_2As_2 (<i>5 pages</i>)	184516
M. Kumar, M. Nicklas, A. Jesche, N. Caroca-Canales, M. Schmitt, M. Hanfland, D. Kasinathan, U. Schwarz, H. Rosner, and C. Geibel	
☞ Pressure-induced volume-collapsed tetragonal phase of CaFe_2As_2 as seen via neutron scattering (<i>6 pages</i>)	184517
A. Kreyssig, M. A. Green, Y. Lee, G. D. Samolyuk, P. Zajdel, J. W. Lynn, S. L. Bud'ko, M. S. Torikachvili, N. Ni, S. Nandi, J. B. Leão, S. J. Poulton, D. N. Argyriou, B. N. Harmon, R. J. McQueeney, P. C. Canfield, and A. I. Goldman	

(Continued)

Low-energy magnetic response of the noncentrosymmetric heavy-fermion superconductor CePt ₃ Si studied via inelastic neutron scattering (<i>8 pages</i>)	184518
B. Fåk, S. Raymond, D. Braithwaite, G. Lapertot, and J.-M. Mignot	
Monte Carlo studies of extensions of the Blume-Emery-Griffiths model (<i>9 pages</i>)	184519
C. C. Loois, G. T. Barkema, and C. Morais Smith	
Vortex-dynamics approach to the Nernst effect in extreme type-II superconductors dominated by phase fluctuations (<i>5 pages</i>)	184520
S. Raghu, D. Podolsky, A. Vishwanath, and David A. Huse	