PHYSICAL REVIEW B THIRD SERIES, VOLUME 81, NUMBER 9 MARCH 2010-1(I)

Optical activity of noncentrosymmetric metals *(9 pages)* 094525
V. P. Mineev and Yu. Yoshioka

Andreev tunneling through a double quantum-dot system coupled to a ferromagnet and a superconductor: Effects of mean-field electronic correlations *(10 pages)* 094526
E. C. Siqueira and G. G. Cabrera

Vortex state in *d*-wave superconductors with strong paramagnetism: Transport and specific heat anisotropy *(10 pages)* 094527
A. B. Vorontsov and I. Vekhter

COMMENTS

Comment on "Diameter dependence of ferromagnetic spin moment in Au nanocrystals" *(1 page)* 096401
Lin He

ERRATA

Publisher's Note: Phase diagram of the hard-core Bose-Hubbard model on a checkerboard superlattice [Phys. Rev. B **81**, 064503 (2010)] *(1 page)* . . . . . 099901(E)
Itay Hen, M. Iskin, and Marcos Rigol

Erratum: Interatomic potentials for hydrogen in α–iron based on density functional theory [Phys. Rev. B **79**, 174101 (2009)] *(1 page)* . . . . . 099902(E)
Ashwin Ramasubramaniam, Mitsuhiro Itakura, and Emily A. Carter

Publisher's Note: Hall effect in superconducting $Fe(Se_{0.5}Te_{0.5})$ thin films [Phys. Rev. B **81**, 054515 (2010)] *(1 page)* . . . . . 099903(E)
I. Tsukada, M. Hanawa, Seiki Komiya, T. Akiike, R. Tanaka, Y. Imai, and A. Maeda

Erratum: Synthesis and properties of superconducting T'-R_2CuO_4 (R=Pr,Nd,Sm,Eu,Gd) [Phys. Rev. B **79**, 100508 (2009)] *(1 page)* . . . . . 099904(E)
Osamu Matsumoto, Aya Utsuki, Akio Tsukada, Hideki Yamamoto, Takaaki Manabe, and Michio Naito

Publisher's Note: Theory of superconductor-ferromagnet point-contact spectra: The case of strong spin polarization [Phys. Rev. B **81**, 094508 (2010)] *(1 page)* . . . . . 099905(E)
Roland Grein, Tomas Löfwander, Georgo Metalidis, and Matthias Eschrig

Erratum: Dissociation of spin objects in geometrically frustrated $CdFe_2O_4$ [Phys. Rev. B **70**, 024418 (2004)] *(1 page)* . . . . . 099906(E)
K. Kamazawa, S. Park, S.-H. Lee, T. J. Sato, and Y. Tsunoda

Erratum: Magnetic quantum oscillations in doped antiferromagnetic insulators [Phys. Rev. B **77**, 132403 (2008)] *(1 page)* . . . . . 099907(E)
V. V. Kabanov and A. S. Alexandrov

Publisher's Note: Microscopic structures and dynamics of high- and low-density liquid *trans*-1,2-dichloroethylene [Phys. Rev. B **81**, 092202 (2010)] *(1 page)* . . . . . 099908(E)
M. Rovira-Esteva, A. Murugan, L. C. Pardo, S. Busch, M. D. Ruiz-Martín, M.-S. Appavou, J. Ll. Tamarit, C. Smuda, T. Unruh, F. J. Bermejo, G. J. Cuello, and S. J. Rzoska

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 81, NUMBER 9** **MARCH 2010-1(I)**

Application of a small oscillating magnetic field to reveal the peak effect in the resistivity of Nb_3Sn *(6 pages)* 094510
M. Reibelt, A. Schilling, and N. Toyota

Coexistence of bulk superconducting and antiferromagnetic order in the spin-ladder system $Sr_2Ca_{12}Cu_{24}O_{41}$ *(5 pages)* 094511
S. Vanishri, D. Braithwaite, B. Salce, C. Marin, and J. Flouquet

Directionally controlled superconductivity in ferromagnet/superconductor/ferromagnet trilayers with biaxial easy axes *(7 pages)* 094512
C. Visani, N. M. Nemes, M. Rocci, Z. Sefrioui, C. Leon, S. G. E. te Velthuis, A. Hoffmann, M. R. Fitzsimmons, F. Simon, T. Feher, M. Garcia-Hernandez, and J. Santamaria

Electron cooling by diffusive normal metal–superconductor tunnel junctions *(9 pages)* 094513
A. S. Vasenko, E. V. Bezuglyi, H. Courtois, and F. W. J. Hekking

Influence of thermal phase fluctuations on the spectral function for a two-dimensional *d*-wave superconductor *(5 pages)* 094514
M. Khodas and A. M. Tsvelik

Strong carrier-scattering in iron-pnictide superconductors $LnFeAsO_{1-y}$ (Ln=La and Nd) obtained from charge transport experiments *(6 pages)* 094515
S. Ishida, M. Nakajima, Y. Tomioka, T. Ito, K. Miyazawa, H. Kito, C. H. Lee, M. Ishikado, S. Shamoto, A. Iyo, H. Eisaki, K. M. Kojima, and S. Uchida

Electronic and lattice structures in $SmFeAsO_{1-x}F_x$ probed by x-ray absorption spectroscopy *(5 pages)* 094516
C. J. Zhang, H. Oyanagi, Z. H. Sun, Y. Kamihara, and H. Hosono

Quantum Kelvin-Helmholtz instability in phase-separated two-component Bose-Einstein condensates *(5 pages)* 094517
Hiromitsu Takeuchi, Naoya Suzuki, Kenichi Kasamatsu, Hiroki Saito, and Makoto Tsubota

Pauli-limited upper critical field of $Fe_{1+y}Te_{1-x}Se_x$ *(7 pages)* 094518
Hechang Lei (雷和畅), Rongwei Hu (胡荣伟), E. S. Choi, J. B. Warren, and C. Petrovic

Large pseudogap and nodal superconducting gap in $Bi_2Sr_{2-x}La_xCuO_{6+\delta}$ and $Bi_2Sr_2CaCu_2O_{8+\delta}$: Scanning tunneling microscopy and spectroscopy *(7 pages)* 094519
T. Kurosawa, T. Yoneyama, Y. Takano, M. Hagiwara, R. Inoue, N. Hagiwara, K. Kurusu, K. Takeyama, N. Momono, M. Oda, and M. Ido

Thermal conductivity of overdoped $BaFe_{1.73}Co_{0.27}As_2$ single crystal: Evidence for nodeless multiple superconducting gaps and interband interactions *(5 pages)* 094520
J. K. Dong, S. Y. Zhou, T. Y. Guan, X. Qiu, C. Zhang, P. Cheng, L. Fang, H. H. Wen, and S. Y. Li

Filamentary flow of vortices in a $Bi_2Sr_2Ca_1Cu_2O_{8+\delta}$ single crystal *(7 pages)* 094521
L. Ammor, A. Ruyter, V. A. Shaidiuk, N. H. Hong, and D. Plessis

Theory of oxygen *K* edge x-ray absorption spectra of cuprates *(5 pages)* 094522
Xin Wang, Luca de' Medici, and A. J. Millis

Neutron diffraction study of phase transitions and thermal expansion of SrFeAsF *(5 pages)* 094523
Y. Xiao, Y. Su, R. Mittal, T. Chatterji, T. Hansen, S. Price, C. M. N. Kumar, J. Persson, S. Matsuishi, Y. Inoue, H. Hosono, and Th. Brueckel

Multiple electronic transitions and superconductivity in Pd_xTiSe_2 *(5 pages)* 094524
E. Morosan, K. E. Wagner, Liang L. Zhao, Y. Hor, A. J. Williams, J. Tao, Y. Zhu, and R. J. Cava

(Continued)

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 81, NUMBER 9 MARCH 2010-1(I)

Antivortex state in crosslike nanomagnets *(5 pages)* 094436
V. L. Mironov, O. L. Ermolaeva, S. A. Gusev, A. Yu. Klimov, V. V. Rogov, B. A. Gribkov, O. G. Udalov, A. A. Fraerman, R. Marsh, C. Checkley, R. Shaikhaidarov, and V. T. Petrashov

First-principles study of magnetic properties of $L1_0$-ordered MnPt and FePt alloys *(8 pages)* 094437
Zhihong Lu, Roman V. Chepulskii, and W. H. Butler

Nonmonotonic thickness dependence of spin wave energy in ultrathin Fe films: Experiment and theory *(5 pages)* 094438
Y. Zhang (张雨), P. Buczek, L. Sandratskii, W. X. Tang (唐文新), J. Prokop, I. Tudosa, T. R. F. Peixoto, Kh. Zakeri, and J. Kirschner

Sample-to-sample fluctuations and bond chaos in the *m*-component spin glass *(9 pages)* 094439
T. Aspelmeier and A. Braun

Superfluidity and superconductivity

Effect of Mg/B ratio on the superconductivity of MgB_2 bulk with SiC addition *(7 pages)* 094501
Y. Zhang, S. X. Dou, C. Lu, S. H. Zhou, and W. X. Li

Visualizing supercurrents in ferromagnetic Josephson junctions with various arrangements of 0 and π segments *(13 pages)* 094502
C. Gürlich, S. Scharinger, M. Weides, H. Kohlstedt, R. G. Mints, E. Goldobin, D. Koelle, and R. Kleiner

Interplay between superconductivity and ferromagnetism in epitaxial Nb(110)/Au(111)/Co(0001) trilayers *(9 pages)* 094503
Hiroki Yamazaki, Nic Shannon, and Hidenori Takagi

Temperature and pressure dependence of the Fe-specific phonon density of states in $Ba(Fe_{1-x}Co_x)_2As_2$ *(9 pages)* 094504
O. Delaire, M. S. Lucas, A. M. dos Santos, A. Subedi, A. S. Sefat, M. A. McGuire, L. Mauger, J. A. Muñoz, C. A. Tulk, Y. Xiao, M. Somayazulu, J. Y. Zhao, W. Sturhahn, E. E. Alp, D. J. Singh, B. C. Sales, D. Mandrus, and T. Egami

Itinerant nature of magnetism in iron pnictides: A first-principles study *(9 pages)* 094505
Yu-Zhong Zhang, Ingo Opahle, Harald O. Jeschke, and Roser Valentí

Electronic phase diagram of $NdFe_{1-x}Rh_xAsO$ *(6 pages)* 094506
David Bérardan, Lidong Zhao, Loreynne Pinsard-Gaudart, and Nita Dragoe

Superconductivity from a non-Fermi-liquid metal: Kondo fluctuation mechanism in slave-fermion theory *(10 pages)* 094507
Ki-Seok Kim

Theory of superconductor-ferromagnet point-contact spectra: The case of strong spin polarization *(17 pages)* 094508
Roland Grein, Tomas Löfwander, Georgo Metalidis, and Matthias Eschrig

Magneto-optical study of $Ba(Fe_{1-x}M_x)_2As_2$ (M=Co and Ni) single crystals irradiated with heavy ions *(5 pages)* 094509
R. Prozorov, M. A. Tanatar, B. Roy, N. Ni, S. L. Bud'ko, P. C. Canfield, J. Hua, U. Welp, and W. K. Kwok

(Continued)

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 81, NUMBER 9** **MARCH 2010-1(I)**

Kondo screening coexisting with ferromagnetic order as a possible ground state for Kondo lattice systems *(6 pages)* 094420
Guang-Bin Li, Guang-Ming Zhang, and Lu Yu

Orbital order and partial electronic delocalization in a triangular magnetic metal Ag_2MnO_2 *(7 pages)* 094421
S. Ji, E. J. Kan, M.-H. Whangbo, J.-H. Kim, Y. Qiu, M. Matsuda, H. Yoshida, Z. Hiroi, M. A. Green, T. Ziman, and S.-H. Lee

Magnetic moment and magnetic anisotropy of linear and zigzag 4*d* and 5*d* transition metal nanowires: First-principles calculations *(14 pages)* 094422
J. C. Tung and G. Y. Guo

Experimental study of magnetic ordering in single-crystalline U_2NiSi_3 *(5 pages)* 094423
Maria Szlawska, Dariusz Kaczorowski, and Manfred Reehuis

Van Hemmen-Kondo model for disordered strongly correlated electron systems *(7 pages)* 094424
S. G. Magalhaes, F. M. Zimmer, and B. Coqblin

Specific heat and structure factor in the square ANNNI model by Monte Carlo simulation *(11 pages)* 094425
E. Rastelli, S. Regina, and A. Tassi

Phase diagrams of the *XXZ* model on a depleted square lattice *(6 pages)* 094426
Kwai-Kong Ng

Ferromagnetic domain structures and spin configurations measured in doped manganite *(7 pages)* 094427
J. Q. He, V. V. Volkov, M. Beleggia, T. Asaka, J. Tao, M. A. Schofield, and Y. Zhu

Size effect on the magnetic properties of antiferromagnetic $La_{0.2}Ca_{0.8}MnO_3$ nanoparticles *(11 pages)* 094428
V. Markovich, I. Fita, A. Wisniewski, D. Mogilyansky, R. Puzniak, L. Titelman, C. Martin, and G. Gorodetsky

Single magnetic chirality in the magnetoelectric $NdFe_3(^{11}BO_3)_4$ *(13 pages)* 094429
M. Janoschek, P. Fischer, J. Schefer, B. Roessli, V. Pomjakushin, M. Meven, V. Petricek, G. Petrakovskii, and L. Bezmaternikh

Unconventional Néel and dimer orders in a spin-$\frac{1}{2}$ frustrated ferromagnetic chain with easy-plane anisotropy *(9 pages)* 094430
Shunsuke Furukawa, Masahiro Sato, and Akira Furusaki

Multiple vortex-antivortex pair generation in magnetic nanodots *(11 pages)* 094431
Yuri Gaididei, Volodymyr P. Kravchuk, Denis D. Sheka, and Franz G. Mertens

Nonlinear longitudinal relaxation of a quantum superparamagnet with arbitrary spin value *S*: Phase space and density matrix formulations *(14 pages)* 094432
Yuri P. Kalmykov, Serguey V. Titov, and William T. Coffey

Theoretical studies of the incommensurate magnetic structure of a heavy fermion system: $CeRhIn_5$ *(5 pages)* 094433
Torbjörn Björkman, Raquel Lizárraga, Fredrik Bultmark, Olle Eriksson, John M. Wills, Anders Bergman, Per H. Andersson, and Lars Nordström

Spin dynamics in CeB_6 studied by muon spin relaxation *(11 pages)* 094434
F. N. Gygax, A. Schenck, G. Solt, and O. Zaharko

Resolving the genuine laser-induced ultrafast dynamics of exchange interaction in ferromagnet/antiferromagnet bilayers *(5 pages)* 094435
F. Dalla Longa, J. T. Kohlhepp, W. J. M. de Jonge, and B. Koopmans

(Continued)

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 81, NUMBER 9 MARCH 2010-1(I)

High-frequency susceptibility of a weak ferromagnet with magnetostrictive magnetoelectric coupling: Using heterostructures to tailor electromagnon frequencies *(9 pages)* 094405
K. L. Livesey and R. L. Stamps

Tailoring interlayer exchange coupling of ferromagnetic films across MgO with Fe nanoclusters *(8 pages)* 094406
Jared J. I. Wong, Luciana Ramirez, A. G. Swartz, A. Hoff, Wei Han, Yan Li, and R. K. Kawakami

Incommensurate magnetic order and phase separation in the two-dimensional Hubbard model with nearest- and next-nearest-neighbor hopping *(9 pages)* 094407
P. A. Igoshev, M. A. Timirgazin, A. A. Katanin, A. K. Arzhnikov, and V. Yu. Irkhin

Choice of dynamics for spin-crossover systems *(7 pages)* 094408
Nikolay Klinduhov, Dmitry Chernyshov, and Kamel Boukheddaden

Ferromagnetic resonance studies of accumulation and diffusion of spin momentum density in Fe/Ag/Fe/GaAs(001) and Ag/Fe/GaAs(001) structures *(7 pages)* 094409
B. Kardasz and B. Heinrich

Effects of Au nanoparticles on the magnetic and transport properties of $La_{0.67}Sr_{0.33}MnO_3$ ultrathin layers *(10 pages)* 094410
S. Brivio, C. Magen, A. A. Sidorenko, D. Petti, M. Cantoni, M. Finazzi, F. Ciccacci, R. De Renzi, M. Varela, S. Picozzi, and R. Bertacco

First-principles and Monte Carlo study of magnetostructural transition and magnetocaloric properties of $Ni_{2+x}Mn_{1-x}Ga$ *(19 pages)* 094411
V. D. Buchelnikov, V. V. Sokolovskiy, H. C. Herper, H. Ebert, M. E. Gruner, S. V. Taskaev, V. V. Khovaylo, A. Hucht, A. Dannenberg, M. Ogura, H. Akai, M. Acet, and P. Entel

Magnetic aftereffect in compressively strained GaMnAs studied using Kerr microscopy *(6 pages)* 094412
L. Herrera Diez, J. Honolka, K. Kern, H. Kronmüller, E. Placidi, F. Arciprete, A. W. Rushforth, R. P. Campion, and B. L. Gallagher

Phase coexistence and magnetocaloric effect in $La_{5/8-y}Pr_yCa_{3/8}MnO_3$ (y=0.275) *(6 pages)* 094413
M. H. Phan, M. B. Morales, N. S. Bingham, H. Srikanth, C. L. Zhang, and S. W. Cheong

Charge transport and magnetization profile at the interface between the correlated metal $CaRuO_3$ and the antiferromagnetic insulator $CaMnO_3$ *(7 pages)* 094414
J. W. Freeland, J. Chakhalian, A. V. Boris, J.-M. Tonnerre, J. J. Kavich, P. Yordanov, S. Grenier, P. Zschack, E. Karapetrova, P. Popovich, H. N. Lee, and B. Keimer

Magnetic field effects on the NiO magnon spectra *(7 pages)* 094415
J. Milano and M. Grimsditch

Quantized spin-wave modes in magnetic tunnel junction nanopillars *(16 pages)* 094416
A. Helmer, S. Cornelissen, T. Devolder, J.-V. Kim, W. van Roy, L. Lagae, and C. Chappert

Magnetic structure of $CaBaCo_4O_7$: Lifting of geometrical frustration towards ferrimagnetism *(6 pages)* 094417
V. Caignaert, V. Pralong, V. Hardy, C. Ritter, and B. Raveau

Microstructure and magnetism of nanoparticles with γ-Fe core surrounded by α-Fe and iron oxide shells *(10 pages)* 094418
Maria Paz Fernández-García, Pedro Gorria, Jesús A. Blanco, Antonio B. Fuertes, Marta Sevilla, Roberto Boada, Jesús Chaboy, David Schmool, and Jean-Marc Grenèche

Relation between susceptibility and Knight shift in $La_2NiO_{4.17}$ and K_2NiF_4 by ^{61}Ni NMR *(7 pages)* 094419
J. J. van der Klink and H. B. Brom

(Continued)

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 81, NUMBER 9 MARCH 2010-1(I)

Structure-property maps and optimal inversion in configurational thermodynamics *(11 pages)* 094116
Björn Arnold, Alejandro Díaz Ortiz, Gus L. W. Hart, and Helmut Dosch

Structures and energetics of Bi_2O_3 polymorphs in a defective fluorite family derived by systematic first-principles lattice dynamics calculations *(11 pages)* 094117
Akifumi Matsumoto, Yukinori Koyama, and Isao Tanaka

Short- and medium-range order in amorphous Zr_2Ni metallic alloy *(6 pages)* 094118
Li Huang, C. Z. Wang, S. G. Hao, M. J. Kramer, and K. M. Ho

Diffuse phase transitions in ferroelectric ultrathin films from first principles *(6 pages)* 094119
S. Bin-Omran, I. Kornev, I. Ponomareva, and L. Bellaiche

Inhomogeneous, disordered, and partially ordered systems

Universality and deviations in disordered systems *(6 pages)* 094201
Giorgio Parisi and Tommaso Rizzo

Density variations in liquid tellurium: Roles of rings, chains, and cavities *(7 pages)* 094202
J. Akola, R. O. Jones, S. Kohara, T. Usuki, and E. Bychkov

Generation and performance of special quasirandom structures for studying the elastic properties of random alloys: Application to Al-Ti *(7 pages)* 094203
Johann von Pezold, Alexey Dick, Martin Friák, and Jörg Neugebauer

Computational study of configurational and vibrational contributions to the thermodynamics of substitutional alloys: The case of Ni_3Al *(9 pages)* 094204
M. F. Michelon and A. Antonelli

Disorder effects on heat transport properties of orientationally disordered crystals *(6 pages)* 094205
I. V. Sharapova, A. I. Krivchikov, O. A. Korolyuk, A. Jezowski, M. Rovira-Esteva, J. Ll. Tamarit, L. C. Pardo, M. D. Ruiz-Martin, and F. J. Bermejo

Dynamics, dynamical systems, lattice effects, quantum solids

Efficient non-reflecting boundary condition constructed via optimization of damped layers *(13 pages)* 094301
Reese E. Jones and Christopher J. Kimmer

Coherent acoustic phonon generation in exciton self-trapping *(6 pages)* 094302
F. X. Morrissey and S. L. Dexheimer

Magnetism

Magnetic properties of the spin trimer compound $Ca_3Cu_2Mg(PO_4)_4$ from susceptibility measurements *(5 pages)* 094401
M. Ghosh, M. Majumder, K. Ghoshray, and S. Banerjee

Optically induced magnetization dynamics and variation of damping parameter in epitaxial Co_2MnSi Heusler alloy films *(12 pages)* 094402
Y. Liu, L. R. Shelford, V. V. Kruglyak, R. J. Hicken, Y. Sakuraba, M. Oogane, and Y. Ando

☙ High-field metamagnetism in the antiferromagnet $CeRh_2Si_2$ *(9 pages)* 094403
W. Knafo, D. Aoki, D. Vignolles, B. Vignolle, Y. Klein, C. Jaudet, A. Villaume, C. Proust, and J. Flouquet

Spin transfer torque in the presence of Andreev reflections *(7 pages)* 094404
Shuai Wang, Ling Tang, and Ke Xia

(Continued)

☙ 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 81, NUMBER 9 MARCH 2010-1(I)

Muon-spin-spectroscopy study of the penetration depth of $FeTe_{0.5}Se_{0.5}$ *(4 pages)* 092510
P. K. Biswas, G. Balakrishnan, D. M. Paul, C. V. Tomy, M. R. Lees, and A. D. Hillier

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Equation of state, phase stability, and amorphization of SnI_4 at high pressure and temperature *(7 pages)* 094101
Brent Grocholski, Sergio Speziale, and Raymond Jeanloz

Strain-field effects on the formation and migration energies of self interstitials in α-Fe from first principles *(10 pages)* 094102
Zhengzheng Chen, Nicholas Kioussis, Nasr Ghoniem, and Dariush Seif

Thermally activated precipitation at deformation-induced defects in Fe-Cu and Fe-Cu-B-N alloys studied by positron annihilation spectroscopy *(10 pages)* 094103
S. M. He, N. H. van Dijk, H. Schut, E. R. Peekstok, and S. van der Zwaag

Cohesive and magnetic properties of grain boundaries in bcc Fe with Cr additions *(9 pages)* 094104
E. Wachowicz, T. Ossowski, and A. Kiejna

First-principles thermal equation of state and thermoelasticity of hcp Fe at high pressures *(10 pages)* 094105
Xianwei Sha and R. E. Cohen

Density functional theory study of the relative stability of the iron disulfide polymorphs pyrite and marcasite *(9 pages)* 094106
D. Spagnoli, K. Refson, K. Wright, and J. D. Gale

Effects of disorder in ferroelastics: A spin model for strain glass *(7 pages)* 094107
Romain Vasseur and Turab Lookman

Anomalies in the response of V, Nb, and Ta to tensile and shear loading: *Ab initio* density functional theory calculations *(13 pages)* 094108
Naoyuki Nagasako, Michal Jahnátek, Ryoji Asahi, and Jürgen Hafner

Impact of electrostatic forces in contact-mode scanning force microscopy *(8 pages)* 094109
F. Johann, Á. Hoffmann, and E. Soergel

Ab initio study of hydrogen insertion in ultrathin transition metal doped V films: Structural and electronic properties *(10 pages)* 094110
A. Lebon, A. Vega, and A. Mokrani

Ab initio study of the solubility and kinetics of hydrogen in austenitic high Mn steels *(9 pages)* 094111
L. Ismer, T. Hickel, and J. Neugebauer

Coherence approach in neutron, x-ray, and neutron spin-echo reflectometry *(15 pages)* 094112
Victor O. de Haan, Jeroen Plomp, M. Theo Rekveldt, Ad A. van Well, Robert M. Dalgliesh, Sean Langridge, Amarante J. Böttger, and Ruud Hendrikx

Natural formation of bcc Co: Initial stage of Co precipitation in supersaturated $Au_{90}Co_{10}$ *(6 pages)* 094113
R. Bauer, E. Bischoff, and E. J. Mittemeijer

Oxygen-vacancy-induced 90°-domain clamping in ferroelectric $Bi_4Ti_3O_{12}$ single crystals *(8 pages)* 094114
Yuuki Kitanaka, Yuji Noguchi, and Masaru Miyayama

From antiferromagnetism to superconductivity in $Fe_{1+y}Te_{1-x}Se_x$ $(0 \leq x \leq 0.20)$: Neutron powder diffraction analysis *(10 pages)* 094115
A. Martinelli, A. Palenzona, M. Tropeano, C. Ferdeghini, M. Putti, M. R. Cimberle, T. D. Nguyen, M. Affronte, and C. Ritter

(Continued)

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).