

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 80, NUMBER 17

CONTENTS

NOVEMBER 2009-1(I)

BRIEF REPORTS

Structure, structural phase transitions, mechanical properties, defects

- Proton-irradiation-induced anomaly in the electrical conductivity of a hydrogen-bonded ferroelastic system
(4 pages) 172101
Se-Hun Kim, Kyu Won Lee, Kwang-Sei Lee, and Cheol Eui Lee
- Relationship between low-temperature boson heat capacity peak and high-temperature shear modulus
relaxation in a metallic glass (4 pages) 172102
A. N. Vasiliev, T. N. Voloshok, A. V. Granato, D. M. Joncich, Yu. P. Mitrofanov, and V. A. Khonik
- Magnetoelectric coupling in polycrystalline FeVO_4 (4 pages) 172103
Bohdan Kundys, Christine Martin, and Charles Simon
- High-pressure Raman and x-ray diffraction studies on LaB_6 (4 pages) 172104
B. K. Godwal, E. A. Petruska, S. Speziale, J. Yan, S. M. Clark, M. B. Kruger, and R. Jeanloz

Inhomogeneous, disordered, and partially ordered systems

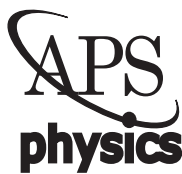
- Fragility and elasticity: Description of flow in highly viscous liquids (3 pages) 172201
U. Buchenau

Dynamics, dynamical systems, lattice effects, quantum solids

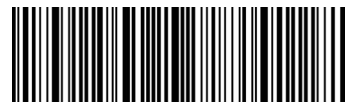
- Reversal of thermal rectification in quantum systems (4 pages) 172301
Lifa Zhang, Yonghong Yan, Chang-Qin Wu, Jian-Sheng Wang, and Baowen Li
- Zero-point divacancy concentration in the shadow wave function model for solid ^4He (4 pages) 172302
R. Pessoa, M. de Koning, and S. A. Vitiello

Magnetism

- Measuring the magnetization of three monolayer thick Co islands and films by x-ray dichroism (4 pages) 172401
A. Mascaraque, L. Aballe, J. F. Marco, T. O. Menteş, F. El Gabaly, C. Klein, A. K. Schmid,
K. F. McCarty, A. Locatelli, and J. de la Figuera
- Origin of electric-field-induced modification of magnetocrystalline anisotropy at $\text{Fe}(001)$ surfaces: Mechanism
of dipole formation from first principles (4 pages) 172402
Kohji Nakamura, Riki Shimabukuro, Toru Akiyama, Tomonori Ito, and A. J. Freeman



Copyright 2009 by The American Physical Society



1098-0121(20091101)80:17;1-3

(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).

Spontaneous generation of voltage in the magnetocaloric compound $\text{La}(\text{Fe}_{0.88}\text{Si}_{0.12})_{13}$ and comparison to SmMn_2Ge_2 (4 pages)	172403
M. Zou, J. A. Sampaio, V. K. Pecharsky, and K. A. Gschneidner, Jr.	
Toroidal moment in the molecular magnet V_{15} (4 pages)	172404
A. K. Zvezdin, V. V. Kostyuchenko, A. I. Popov, A. F. Popkov, and A. Ceulemans	
Origin of the long-wavelength magnetic modulation in $\text{Ca}_3\text{Co}_2\text{O}_6$ (4 pages)	172405
L. C. Chapon	

Superfluidity and superconductivity

Anisotropic inelastic scattering and its interplay with superconductivity in URu_2Si_2 (4 pages)	172501
Zengwei Zhu, Elena Hassinger, Zhu'an Xu, Dai Aoki, Jacques Flouquet, and Kamran Behnia	
Impurity resonance peaks in the vortex core of cuprate superconductors with induced spin density wave order (4 pages)	172502
Wonkee Kim, Yan Chen, and C. S. Ting	
Three-band $s\pm$ Eliashberg theory and the superconducting gaps of iron pnictides (4 pages)	172503
G. A. Ummarino, M. Tortello, D. Daghero, and R. S. Gonnelli	
Observation of a coherent optical phonon in the iron pnictide superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ ($x=0.06$ and 0.08) (4 pages)	172504
B. Mansart, D. Boschetto, A. Savoia, F. Rullier-Albenque, A. Forget, D. Colson, A. Rousse, and M. Marsi	
Validity of the spin-susceptibility “glue” approximation for pairing in the two-dimensional Hubbard model (4 pages)	172505
E. Khatami, A. Macridin, and M. Jarrell	
One- and two-photon spectroscopy of a flux qubit coupled to a microscopic defect (4 pages)	172506
A. Lupaşcu, P. Bertet, E. F. C. Driessen, C. J. P. M. Harmans, and J. E. Mooij	

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Predicted structure and stability of $\text{A}_4\text{B}_3\text{O}_{12}$ δ -phase compositions (11 pages)	174101
C. R. Stanek, C. Jiang, B. P. Uberuaga, K. E. Sickafus, A. R. Cleave, and R. W. Grimes	
Finding the low-energy structures of $\text{Si}[001]$ symmetric tilted grain boundaries with a genetic algorithm (6 pages)	174102
Jian Zhang, Cai-Zhuang Wang, and Kai-Ming Ho	
Damping and decoherence of a nanomechanical resonator due to a few two-level systems (14 pages)	174103
Laura G. Remus, Miles P. Blencowe, and Yukihiro Tanaka	
Structure of self-interstitial atom clusters in iron and copper (10 pages)	174104
Akiyuki Takahashi and Nasr M. Ghoniem	
Preferential stability of the d-BCT phase in ZnO thin films (5 pages)	174105
Benjamin J. Morgan	
Quantitative comparisons of contrast in experimental and simulated bright-field scanning transmission electron microscopy images (5 pages)	174106
James M. LeBeau, Adrian J. D’Alfonso, Scott D. Findlay, Susanne Stemmer, and Leslie J. Allen	

(Continued)

Tricritical Lifshitz point in the temperature-pressure-composition diagram for $(\text{Pb}_y\text{Sn}_{1-y})_2\text{P}_2(\text{Se}_x\text{S}_{1-x})_6$ ferroelectrics (5 pages)	174107
O. Andersson, O. Chobal, I. Rizak, and V. Rizak	
Formation mechanism of a faceted interface: <i>In situ</i> observation of the Si(100) crystal-melt interface during crystal growth (4 pages)	174108
M. Tokairin, K. Fujiwara, K. Kutsukake, N. Usami, and K. Nakajima	
Nuclear magnetic resonance study of Li implanted in a thin film of niobium (8 pages)	174109
T. J. Parolin, J. Shi, Z. Salman, K. H. Chow, P. Dosanjh, H. Saadaoui, Q. Song, M. D. Hossain, R. F. Kiefl, C. D. P. Levy, M. R. Pearson, and W. A. MacFarlane	
Transferred hyperfine interactions for Yb^{3+} ions in CsCaF_3 and Cs_2NaYF_6 single crystals: Experimental and <i>ab initio</i> study (11 pages)	174110
M. L. Falin, O. A. Anikeenok, V. A. Latypov, N. M. Khaidukov, F. Callens, H. Vrielinck, and A. Hoefstaetter	
Carbon nitride: <i>Ab initio</i> investigation of carbon-rich phases (13 pages)	174111
Judy N. Hart, Frederik Claeysens, Neil L. Allan, and Paul W. May	
Picosecond ultrasonic measurements of attenuation of longitudinal acoustic phonons in silicon (5 pages)	174112
B. C. Daly, K. Kang, Y. Wang, and David G. Cahill	
Nucleation and first-stage growth processes of extrinsic defects in GaAs triggered by self-interstitials (13 pages)	174113
F. Gala and G. Zollo	
Accurate Hartree-Fock energy of extended systems using large Gaussian basis sets (8 pages)	174114
Joachim Paier, Cristian V. Diaconu, Gustavo E. Scuseria, Manuel Guidon, Joost VandeVondele, and Jürg Hutter	
Anisotropic dynamics of a vicinal surface under the meandering step instability (9 pages)	174115
Alberto D. Verga	
Temperature and electric field tuning of the ferroelectric soft mode in a strained $\text{SrTiO}_3/\text{DyScO}_3$ heterostructure (6 pages)	174116
C. Kadlec, V. Skoromets, F. Kadlec, H. Němec, J. Hlinka, J. Schubert, G. Panaitov, and P. Kužel	
Thermodynamics of hydrogen vacancies in MgH_2 from first-principles calculations and grand-canonical statistical mechanics (6 pages)	174117
R. Grau-Crespo, K. C. Smith, T. S. Fisher, N. H. de Leeuw, and U. V. Waghmare	
Asymmetric grain distribution in phthalocyanine thin films (5 pages)	174118
K. Paul Gentry, Thomas Gredig, and Ivan K. Schuller	
Inhomogeneous, disordered, and partially ordered systems	
Randomness-induced redistribution of vibrational frequencies in amorphous solids (13 pages)	174201
Valery Ilyin, Itamar Procaccia, Ido Regev, and Yair Shokef	
Annealing effect on the reduction of Fermi-level density of states in CoTiSb : NMR evidence (6 pages)	174202
C. S. Lue, C. F. Chen, Fu-Kuo Chiang, and M.-W. Chu	
Polymerization effects and localized electronic states in condensed-phase eumelanin (6 pages)	174203
L. Sangaletti, P. Borghetti, P. Ghosh, S. Pagliara, P. Vilmercati, C. Castellarin-Cudia, L. Floreano, A. Cossaro, A. Verdini, R. Gebauer, and A. Goldoni	

(Continued)

Inhomogeneity and glass-forming ability in the bulk metallic glass $\text{Pd}_{42.5}\text{Ni}_{7.5}\text{Cu}_{30}\text{P}_{20}$ as seen via x-ray spectroscopies (6 pages)	174204
S. Hosokawa, H. Sato, T. Ichitsubo, M. Nakatake, N. Happo, J.-F. Bérar, N. Boudet, T. Usuki, W.-C. Pilgrim, E. Matsubara, and N. Nishiyama	
Localization-delocalization transitions in a two-dimensional quantum percolation model: von Neumann entropy studies (6 pages)	174205
Longyan Gong and Peiqing Tong	
Dynamics, dynamical systems, lattice effects, quantum solids	
One-dimensional nanostructure-guided chain reactions: Harmonic and anharmonic interactions (10 pages)	174301
Nitish Nair and Michael S. Strano	
<i>Ab initio</i> construction of interatomic potentials for uranium dioxide across all interatomic distances (7 pages)	174302
P. Tiwary, A. van de Walle, and N. Grønbech-Jensen	
Design and characterization of broadband acoustic composite metamaterials (6 pages)	174303
Bogdan-Ioan Popa and Steven A. Cummer	
Magnetism	
Spin excitations in the excitonic spin-density-wave state of the iron pnictides (16 pages)	174401
P. M. R. Brydon and C. Timm	
Magnetic cylindrical nanowires with single modulated diameter (5 pages)	174402
S. Allende, D. Altbir, and K. Nielsch	
Quantum phase transition in the four-spin exchange antiferromagnet (6 pages)	174403
Valeri N. Kotov, Dao-Xin Yao, A. H. Castro Neto, and D. K. Campbell	
Current-induced dynamics in noncollinear dual spin valves (6 pages)	174404
P. Baláž, M. Gmitra, and J. Barnás	
Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions (8 pages)	174405
Rie Matsumoto, Akio Fukushima, Kay Yakushiji, Satoshi Yakata, Taro Nagahama, Hitoshi Kubota, Toshikazu Katayama, Yoshishige Suzuki, Koji Ando, Shinji Yuasa, Benoît Georges, Vincent Cros, Julie Grollier, and Albert Fert	
Prediction of electrically induced magnetic reconstruction at the manganite/ferroelectric interface (6 pages)	174406
J. D. Burton and E. Y. Tsymbal	
In-plane spin reorientation transition in a two-dimensional ferromagnetic/antiferromagnetic system studied using Monte Carlo simulations (6 pages)	174407
J. H. Seok, H. Y. Kwon, S. S. Hong, Y. Z. Wu, Z. Q. Qiu, and C. Won	
Muon spin relaxation studies of the frustrated quasi-two-dimensional square-lattice spin system $\text{Cu}(\text{Cl},\text{Br})\text{La}(\text{Nb},\text{Ta})_2\text{O}_7$: Evolution from spin-gap to antiferromagnetic state (9 pages)	174408
Y. J. Uemura, A. A. Aczel, Y. Ajiro, J. P. Carlo, T. Goko, D. A. Goldfeld, A. Kitada, G. M. Luke, G. J. MacDougall, I. G. Mihailescu, J. A. Rodriguez, P. L. Russo, Y. Tsujimoto, C. R. Wiebe, T. J. Williams, T. Yamamoto, K. Yoshimura, and H. Kageyama	

(Continued)

Quantum phase transition in $(\text{CuCl})\text{La}(\text{Nb}_{1-x}\text{Ta}_x)_2\text{O}_7$ (5 pages)	174409
A. Kitada, Y. Tsujimoto, H. Kageyama, Y. Ajiro, M. Nishi, Y. Narumi, K. Kindo, M. Ichihara, Y. Ueda, Y. J. Uemura, and K. Yoshimura	
Spontaneous antiferromagnetic long-range order in the two-dimensional hybrid model of localized Ising spins and itinerant electrons (8 pages)	174410
Jozef Strečka, Akinori Tanaka, Lucia Čanová, and Taras Verkholyak	
Electrical resistivity and magnetoresistance of single-crystal $\text{Tb}_5\text{Si}_{2.2}\text{Ge}_{1.8}$ (7 pages)	174411
M. Zou, V. K. Pecharsky, K. A. Gschneidner, Jr., Ya. Mudryk, D. L. Schlager, and T. A. Lograsso	
Large extraordinary Hall effect and anomalous scaling relations between the Hall and longitudinal conductivities in $\epsilon\text{-Fe}_3\text{N}$ nanocrystalline films (5 pages)	174412
Y. H. Cheng, R. K. Zheng, Hui Liu, Yong Tian, and Z. Q. Li	
Low-temperature study of field-induced antiferromagnetic-ferromagnetic transition in Pd-doped Fe-Rh (7 pages)	174413
Pallavi Kushwaha, Archana Lakhani, R. Rawat, and P. Chaddah	
Magnetic and electronic properties of $\text{Eu}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0.3 < x < 0.7$) single crystals (8 pages)	174414
Y. Tomioka, R. Kumai, T. Ito, and Y. Tokura	
Temperature, magnetic field, and pressure dependence of the crystal and magnetic structures of the magnetocaloric compound $\text{Mn}_{1.1}\text{Fe}_{0.9}(\text{P}_{0.8}\text{Ge}_{0.2})$ (8 pages)	174415
D. M. Liu, Q. Z. Huang, M. Yue, J. W. Lynn, L. J. Liu, Y. Chen, Z. H. Wu, and J. X. Zhang	
 Anisotropy barrier reduction in fast-relaxing Mn_{12} single-molecule magnets (14 pages)	174416
Stephen Hill, Muralee Murugesu, and George Christou	
Quantum phase transition of the one-dimensional transverse-field compass model (8 pages)	174417
Ke-Wei Sun and Qing-Hu Chen	
Transition from spin-density-wave to layered antiferromagnetic state induced by hydrogen as a test for the origin of spin-density waves in chromium (7 pages)	174418
V. M. Uzdin, H. Zabel, A. Remhof, and B. Hjörvarsson	
Mechanism of exchange bias for isolated nanoparticles embedded in an antiferromagnetic matrix (10 pages)	174419
Valera P. Shcherbakov, Karl Fabian, and Suzanne A. McEnroe	
<i>Ab initio</i> derivation of the low-energy model for alkali-cluster-loaded sodalites (8 pages)	174420
Kazuma Nakamura, Takashi Koretsune, and Ryotaro Arita	
Interaction effects on microwave-assisted switching of $\text{Ni}_{80}\text{Fe}_{20}$ nanowires in densely packed arrays (8 pages)	174421
Jesco Topp, Detlef Heitmann, and Dirk Grundler	
Nagaoka ferromagnetism in large-spin fermionic and bosonic systems (6 pages)	174422
Seiji Miyashita, Masao Ogata, and Hans De Raedt	
$\text{MnSi}_{1.7}$ nanoparticles embedded in Si: Superparamagnetism with collective behavior (5 pages)	174423
Shengqiang Zhou (周生强), Artem Shalimov, Kay Potzger, Manfred Helm, Jürgen Fassbender, and Heidemarie Schmidt	
Magnetic structure of EuFe_2As_2 determined by single-crystal neutron diffraction (8 pages)	174424
Y. Xiao, Y. Su, M. Meven, R. Mittal, C. M. N. Kumar, T. Chatterji, S. Price, J. Persson, N. Kumar, S. K. Dhar, A. Thamizhavel, and Th. Brueckel	

(Continued)

Magnetic properties resulting from core-shell interactions in nanosized $\text{Ni}_{0.25}\text{Co}_{0.25}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ (6 pages)	174425
N. Lakshmi, Hina Bhargava, O. P. Suwalka, K. Venugopalan, Varkey Sebastian, V. R. Reddy, and Ajay Gupta	
Metal-metal transition in perovskite PbRuO_3 (5 pages)	174426
J.-G. Cheng, J.-S. Zhou, and J. B. Goodenough	
Evidence for high- T_c ferromagnetism in $\text{Zn}_x(\text{ZnO})_{1-x}$ granular films mediated by native point defects (6 pages)	174427
X. Zhang, Y. H. Cheng, L. Y. Li, Hui Liu, X. Zuo, G. H. Wen, L. Li, R. K. Zheng, and S. P. Ringer	
Superfluidity and superconductivity	
Dynamic many-body theory: Pair fluctuations in bulk ^4He (14 pages)	174501
C. E. Campbell and E. Krotscheck	
Power-dependent internal loss in Josephson bifurcation amplifiers (8 pages)	174502
Michio Watanabe, Kunihiro Inomata, Tsuyoshi Yamamoto, and Jaw-Shen Tsai	
Off-diagonal long-range order and supersolidity in a quantum solid with vacancies (9 pages)	174503
Yu Shi, Yin Yang, and Shao-Ming Fei	
Negative impurity ions in liquid ^4He (8 pages)	174504
F. Ancilotto, M. Barranco, and M. Pi	
Origin of the checkerboard pattern in scanning tunneling microscopy maps of underdoped cuprate superconductors (7 pages)	174505
Kai-Yu Yang, Wei-Qiang Chen, T. M. Rice, and Fu-Chun Zhang	
Evidence for exchange interaction between donor and acceptor layers in β' -(BEDT-TTF)(TCNQ) (5 pages)	174506
Yoshihiro Eto, Atsushi Kawamoto, Noriaki Matsunaga, Kazushige Nomura, Kaoru Yamamoto, and Kyuya Yakushi	
Anisotropic microwave conductivity of cuprate superconductors in the presence of CuO chain-induced impurities (6 pages)	174507
Zhi Wang and Shiping Feng	
Nonlocal transport through multiterminal diffusive superconducting nanostructures (9 pages)	174508
F. S. Bergeret and A. Levy Yeyati	
Charge-carrier localization induced by excess Fe in the superconductor $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$ (6 pages)	174509
T. J. Liu, X. Ke, B. Qian, J. Hu, D. Fobes, E. K. Vehstedt, H. Pham, J. H. Yang, M. H. Fang, L. Spinu, P. Schiffer, Y. Liu, and Z. Q. Mao	
 Unconventional electronic reconstruction in undoped $(\text{Ba},\text{Sr})\text{Fe}_2\text{As}_2$ across the spin density wave transition (10 pages)	174510
M. Yi, D. H. Lu, J. G. Analytis, J.-H. Chu, S.-K. Mo, R.-H. He, M. Hashimoto, R. G. Moore, I. I. Mazin, D. J. Singh, Z. Hussain, I. R. Fisher, and Z.-X. Shen	
Square lattice hard-core bosons within the random phase approximation (9 pages)	174511
T. N. Antsygina, M. I. Poltavskaya, I. I. Poltavsky, and K. A. Chishko	
Neutron-irradiation effects in polycrystalline $\text{LaFeAsO}_{0.9}\text{F}_{0.1}$ superconductors (6 pages)	174512
A. E. Karkin, J. Werner, G. Behr, and B. N. Goshchitskii	

(Continued)

Theory of two-dimensional macroscopic quantum tunneling in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Josephson junctions coupled to an LC circuit (12 pages)	174513
Shiro Kawabata, Thilo Bauch, and Takeo Kato	
Angular dependence of the upper critical field of Sr_2RuO_4 (6 pages)	174514
S. Kittaka, T. Nakamura, Y. Aono, S. Yonezawa, K. Ishida, and Y. Maeno	
Measurement of spin memory lengths in PdNi and PdFe ferromagnetic alloys (7 pages)	174515
H. Z. Arham, Trupti S. Khaire, R. Loloee, W. P. Pratt, Jr., and Norman O. Birge	
Critical currents in weakly textured MgB_2 : Nonlinear transport in anisotropic heterogeneous media (4 pages)	174516
M. Eisterer, W. Häbeler, and P. Kováč	
Intrinsic pinning on structural domains in underdoped single crystals of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ (5 pages)	174517
R. Prozorov, M. A. Tanatar, N. Ni, A. Kreyssig, S. Nandi, S. L. Bud'ko, A. I. Goldman, and P. C. Canfield	
Collective cavity mode excitations in arrays of Josephson junctions (5 pages)	174518
I. Ottaviani, M. Cirillo, M. Lucci, V. Merlo, M. Salvato, M. G. Castellano, G. Torrioli, F. Mueller, and T. Weimann	
Devil's staircases and supersolids in a one-dimensional dipolar Bose gas (7 pages)	174519
F. J. Burnell, Meera M. Parish, N. R. Cooper, and S. L. Sondhi	
Nonperturbative theory of type-II superconductivity in the presence of a strong Pauli paramagnetic effect (12 pages)	174520
V. Zhuravlev and T. Maniv	
Two magnetic Grüneisen parameters in the ferromagnetic superconductor UGe_2 (7 pages)	174521
F. Hardy, C. Meingast, V. Taufour, J. Flouquet, H. v. Löhneysen, R. A. Fisher, N. E. Phillips, A. Huxley, and J. C. Lashley	
Evidence for non- s -wave symmetry of the π gap in MgB_2 from intermodulation distortion measurements (13 pages)	174522
Y. D. Agassi, D. E. Oates, and B. H. Moeckly	
Effect of impurities on incommensurate spin fluctuations in a d -wave superconductor (7 pages)	174523
De-Cai Zhang and Jian-Xin Li	
Control of Josephson current by Aharonov-Casher phase in a Rashba ring (12 pages)	174524
Xin Liu, M. F. Borunda, Xiong-Jun Liu, and Jairo Sinova	
Mutual enhancement of magnetism and Fulde-Ferrell-Larkin-Ovchinnikov superconductivity in CeCoIn_5 (6 pages)	174525
Marcin Mierzejewski, Andrzej Ptok, and Maciej M. Maška	
Microwave conductivity in the ferropnictides with specific application to $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ (10 pages)	174526
E. Schachinger and J. P. Carbotte	
Shot noise and Coulomb blockade of Andreev reflection (5 pages)	174527
Artem V. Galaktionov and Andrei D. Zaikin	
Superconducting film with randomly magnetized dots: A realization of the two-dimensional XY model with random phase shifts (5 pages)	174528
Zoran Ristivojevic	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 80, NUMBER 17

NOVEMBER 2009-1(I)

Magnetic flux in a mesoscopic SQUID controlled by nonclassical electromagnetic fields (<i>6 pages</i>)	174529
Jerzy Dajka and Jerzy Łuczka	

ERRATA

Publisher's Note: Damping and decoherence of a nanomechanical resonator due to a few two-level systems [Phys. Rev. B 80 , 174103 (2009)] (<i>1 page</i>)	179901(E)
Laura G. Remus, Miles P. Blencowe, and Yukihiro Tanaka	