PHYSICAL REVIEW B **THIRD SERIES, VOLUME 92, NUMBER 2** **JULY 2015-1(II)**

Superconductivity and spin fluctuations in the actinoid–platinum metal borides {Th,U}Pt_3B *(10 pages)* 024511
E. Bauer, E. Royanian, H. Michor, O. Sologub, E.-W. Scheidt, A. P. Gonçalves, J. Bursik, W. Wolf, D. Reith, C. Blaas-Schenner, R. Moser, R. Podloucky, and P. Rogl

Magnetization induced by odd-frequency spin-triplet Cooper pairs in a Josephson junction with metallic trilayers *(13 pages)* 024512
S. Hikino and S. Yunoki

Speed limit to the Abrikosov lattice in mesoscopic superconductors *(6 pages)* 024513
G. Grimaldi, A. Leo, P. Sabatino, G. Carapella, A. Nigro, S. Pace, V. V. Moshchalkov, and A. V. Silhanek

COMMENTS

Comment on "Molybdenum sound velocity and shear modulus softening under shock compression" *(2 pages)* . . . 026101
D. Errandonea, R. Boehler, and M. Ross

Reply to "Comment on 'Molybdenum sound velocity and shear modulus softening under shock compression' " *(2 pages)* 026102
Jeffrey H. Nguyen, Minta C. Akin, Ricky Chau, Dayne E. Fratanduono, W. Patrick Ambrose, Oleg V. Fat'yanov, Paul D. Asimow, and Neil C. Holmes

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 92, NUMBER 2** **JULY 2015-1(II)**

Barkhausen noise in the random field Ising magnet $Nd_2Fe_{14}B$ *(8 pages)* 024424
J. Xu, D. M. Silevitch, K. A. Dahmen, and T. F. Rosenbaum

Evolution of magnetism in single-crystal $Ca_2Ru_{1-x}Ir_xO_4$ ($0 \leqslant x \leqslant 0.65$) *(5 pages)* 024425
S. J. Yuan, J. Terzic, J. C. Wang, L. Li, S. Aswartham, W. H. Song, F. Ye, and G. Cao

Gyrational modes of benzenelike magnetic vortex molecules *(5 pages)* 024426
Christian F. Adolff, Max Hänze, Matthias Pues, Markus Weigand, and Guido Meier

Tunable permalloy-based films for magnonic devices *(8 pages)* 024427
Yuli Yin, Fan Pan, Martina Ahlberg, Mojtaba Ranjbar, Philipp Dürrenfeld, Afshin Houshang, Mohammad Haidar, Lars Bergqvist, Ya Zhai, Randy K. Dumas, Anna Delin, and Johan Åkerman

Critical current destabilizing perpendicular magnetization by the spin Hall effect *(12 pages)* 024428
Tomohiro Taniguchi, Seiji Mitani, and Masamitsu Hayashi

Dynamics of a bond-disordered $S = 1$ quantum magnet near $z = 1$ criticality *(10 pages)* 024429
K. Yu. Povarov, E. Wulf, D. Hüvonen, J. Ollivier, A. Paduan-Filho, and A. Zheludev

Superfluidity and superconductivity

Giant triplet proximity effect in π-biased Josephson junctions with spin-orbit coupling *(6 pages)* 024501
Sol H. Jacobsen and Jacob Linder

Orbital angular momentum in a nonchiral topological superconductor *(7 pages)* 024502
Atsuo Shitade and Yuki Nagai

Fidelity study of superconductivity in extended Hubbard models *(5 pages)* 024503
N. Plonka, C. J. Jia, Y. Wang, B. Moritz, and T. P. Devereaux

Transport in ultradilute solutions of ^{3}He in superfluid ^{4}He *(8 pages)* 024504
Gordon Baym, D. H. Beck, and C. J. Pethick

Ab initio theory of superconductivity in a magnetic field. I. Spin density functional theory for superconductors and Eliashberg equations *(19 pages)* 024505
A. Linscheid, A. Sanna, F. Essenberger, and E. K. U. Gross

Ab initio theory of superconductivity in a magnetic field. II. Numerical solution *(15 pages)* 024506
A. Linscheid, A. Sanna, and E. K. U. Gross

Mode engineering with a one-dimensional superconducting metamaterial *(12 pages)* 024507
Masahiko Taguchi, Denis M. Basko, and Frank W. J. Hekking

Oxygen isotope effects on lattice properties of $La_{2-x}Ba_xCuO_4$ ($x = 1/8$) *(6 pages)* 024508
Z. Guguchia, D. Sheptyakov, E. Pomjakushina, K. Conder, R. Khasanov, A. Shengelaya, A. Simon, A. Bussmann-Holder, and H. Keller

Magnetoresistance anisotropy in amorphous superconducting thin films: Site-bond percolation approach *(5 pages)* 024509
Elkana Porat and Yigal Meir

Critical temperature and tunneling spectroscopy of superconductor-ferromagnet hybrids with intrinsic Rashba-Dresselhaus spin-orbit coupling *(24 pages)* 024510
Sol H. Jacobsen, Jabir Ali Ouassou, and Jacob Linder

(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 92, NUMBER 2** **JULY 2015-1(II)**

Resonant single-photon and multiphoton coherent transitions in a detuned regime *(5 pages)* 024408
S. Bertaina, M. Martens, M. Egels, D. Barakel, and I. Chiorescu

Three-dimensional Ising critical behavior in $R_{0.6}Sr_{0.4}MnO_3$ (R = Pr, Nd) manganites *(11 pages)* 024409
A. Oleaga, A. Salazar, M. Ciomaga Hatnean, and G. Balakrishnan

Site-selective magnetic order of neptunium in Np_2Ni_{17} *(7 pages)* 024410
A. Hen, N. Magnani, J.-C. Griveau, R. Eloirdi, E. Colineau, J.-P. Sanchez, I. Halevy, A. L. Kozub, A. B. Shick, I. Orion, and R. Caciuffo

Topological spin Hall effect resulting from magnetic skyrmions *(5 pages)* 024411
Gen Yin, Yizhou Liu, Yafis Barlas, Jiadong Zang, and Roger K. Lake

Anisotropic magnetoresistance driven by surface spin-orbit scattering *(6 pages)* 024412
Steven S.-L. Zhang, Giovanni Vignale, and Shufeng Zhang

Hidden symmetries of the extended Kitaev-Heisenberg model: Implications for the honeycomb-lattice iridates A_2IrO_3 *(14 pages)* 024413
Jiří Chaloupka and Giniyat Khaliullin

Spectrum of noncollinear metastable configurations of a finite-size discrete planar spin chain with a collinear ferromagnetic ground state *(14 pages)* 024414
Alexander P. Popov, Angelo Rettori, and Maria Gloria Pini

Strong coupling theory for electron-mediated interactions in double-exchange models *(7 pages)* 024415
Hiroaki Ishizuka and Yukitoshi Motome

Reversible temperature-driven domain transition in bistable Fe magnetic nanostrips grown on Ru(0001) *(6 pages)* 024416
A. Quesada, M. Monti, I. P. Krug, N. Rougemaille, F. Nickel, D. M. Gottlob, H. Doganay, A. T. N'Diaye, G. Chen, A. Serrano, K. F. McCarty, J. F. Fernández, C. M. Schneider, A. K. Schmid, and J. de la Figuera

Crossover between spin swapping and Hall effect in disordered systems *(8 pages)* 024417
Hamed Ben Mohamed Saidaoui, Y. Otani, and A. Manchon

Anomalous Hall effect with giant hysteresis loop in $La_{0.67}Sr_{0.33}MnO_3|SrRuO_3$ superlattices *(4 pages)* 024418
Y. Shiomi, Y. Handa, T. Kikkawa, and E. Saitoh

Nature of antiferromagnetic order in epitaxially strained multiferroic $SrMnO_3$ thin films *(9 pages)* 024419
L. Maurel, N. Marcano, T. Prokscha, E. Langenberg, J. Blasco, R. Guzmán, A. Suter, C. Magén, L. Morellón, M. R. Ibarra, J. A. Pardo, and P. A. Algarabel

Complex antiferromagnetic structure in the intermediate-valence intermetallic Ce_2RuZn_4 *(8 pages)* 024420
Steffen Hartwig, Karel Prokeš, Thomas Hansen, Clemens Ritter, Birgit Gerke, Rainer Pöttgen, J. A. Mydosh, and Tobias Förster

Angular momentum in spin-phonon processes *(6 pages)* 024421
D. A. Garanin and E. M. Chudnovsky

Frustrated three-dimensional antiferromagnet $Li_2CuW_2O_8$: ^{7}Li NMR and the effect of nonmagnetic dilution *(11 pages)* 024422
K. M. Ranjith, M. Majumder, M. Baenitz, A. A. Tsirlin, and R. Nath

Magnetic structure and Dzyaloshinskii-Moriya interaction in the $S = \frac{1}{2}$ helical-honeycomb antiferromagnet α-$Cu_2V_2O_7$ *(10 pages)* 024423
G. Gitgeatpong, Y. Zhao, M. Avdeev, R. O. Piltz, T. J. Sato, and K. Matan

(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 92, NUMBER 2 JULY 2015-1(II)

Atomistic simulations of aromatic polyurea and polyamide for capacitive energy storage *(7 pages)* 024203
Rui Dong, V. Ranjan, Marco Buongiorno Nardelli, and J. Bernholc

Dynamics, dynamical systems, lattice effects:

Semiclassical limit for the many-body localization transition *(5 pages)* 024301
Anushya Chandran and C. R. Laumann

Analog of superradiant emission in thermal emitters *(7 pages)* 024302
Ming Zhou, Soongyu Yi, Ting Shan Luk, Qiaoqiang Gan, Shanhui Fan, and Zongfu Yu

Decay of the Kohn mode in hydrodynamic regime *(5 pages)* 024303
A. Iqbal, A. Levchenko, and M. Khodas

Local response to light excitation in the charge-ordered phase of $(EDO\text{-}TTF)_2SbF_6$ *(9 pages)* 024304
Marina Servol, Nicolas Moisan, Eric Collet, Hervé Cailleau, Wawrzyniec Kaszub, Loïc Toupet, Davide Boschetto, Tadahiko Ishikawa, Alain Moréac, Shinya Koshihara, Mitsuhiko Maesato, Mikio Uruichi, Xiangfeng Shao, Yoshiaki Nakano, Hideki Yamochi, Gunzi Saito, and Maciej Lorenc

Dynamical instabilities and transient short-range order in the fermionic Hubbard model *(6 pages)* 024305
Johannes Bauer, Mehrtash Babadi, and Eugene Demler

Thermally induced nonlinear vibration of single-walled carbon nanotubes *(10 pages)* 024306
Heeyuen Koh, James J. Cannon, Takuma Shiga, Junichiro Shiomi, Shohei Chiashi, and Shigeo Maruyama

Magnetism

Thermally assisted and magnetic field driven isostructural distortion of spinel structure and occurrence of polar order in $CoCr_2S_4$ *(7 pages)* 024401
K. Dey, A. Karmakar, A. Indra, S. Majumdar, U. Rütt, O. Gutowski, M. v. Zimmermann, and S. Giri

Electrical detection of ferromagnetic resonance in single layers of permalloy: Evidence of magnonic charge pumping *(7 pages)* 024402
A. Azevedo, R. O. Cunha, F. Estrada, O. Alves Santos, J. B. S. Mendes, L. H. Vilela-Leão, R. L. Rodríguez-Suárez, and S. M. Rezende

Propagating spin waves excited by spin-transfer torque: A combined electrical and optical study *(7 pages)* 024403
M. Madami, E. Iacocca, S. Sani, G. Gubbiotti, S. Tacchi, R. K. Dumas, J. Åkerman, and G. Carlotti

Anomalous magnetic structure and spin dynamics in magnetoelectric $LiFePO_4$ *(9 pages)* 024404
Rasmus Toft-Petersen, Manfred Reehuis, Thomas B. S. Jensen, Niels H. Andersen, Jiying Li, Manh Duc Le, Mark Laver, Christof Niedermayer, Bastian Klemke, Kim Lefmann, and David Vaknin

Evidence of quantum dimer excitations in $Sr_3Ir_2O_7$ *(8 pages)* 024405
M. Moretti Sala, V. Schnells, S. Boseggia, L. Simonelli, A. Al-Zein, J. G. Vale, L. Paolasini, E. C. Hunter, R. S. Perry, D. Prabhakaran, A. T. Boothroyd, M. Krisch, G. Monaco, H. M. Rønnow, D. F. McMorrow, and F. Mila

Giant reversible rotating cryomagnetocaloric effect in $KEr(MoO_4)_2$ induced by a crystal-field anisotropy *(5 pages)* 024406
V. Tkáč, A. Orendáčová, E. Čižmár, M. Orendáč, A. Feher, and A. G. Anders

Spin waves in ultrathin hexagonal cobalt films on W(110), Cu(111), and Au(111) surfaces *(13 pages)* 024407
E. Michel, H. Ibach, and C. M. Schneider

(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 92, NUMBER 2 JULY 2015-1(II)

V-shaped superconducting artificial atom based on two inductively coupled transmons *(5 pages)* . . . . . 020515(R)
É. Dumur, B. Küng, A. K. Feofanov, T. Weissl, N. Roch, C. Naud, W. Guichard, and O. Buisson

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Crystal structure and phonon softening in $Ca_3Ir_4Sn_{13}$ *(6 pages)* 024101
D. G. Mazzone, S. Gerber, J. L. Gavilano, R. Sibille, M. Medarde, B. Delley, M. Ramakrishnan, M. Neugebauer, L. P. Regnault, D. Chernyshov, A. Piovano, T. M. Fernández-Díaz, L. Keller, A. Cervellino, E. Pomjakushina, K. Conder, and M. Kenzelmann

Elastic anisotropy and Poisson's ratio of solid helium under pressure *(11 pages)* 024102
A. Grechnev, S. M. Tretyak, Yu. A. Freiman, Alexander F. Goncharov, and Eugene Gregoryanz

Molecular nitrogen acceptors in ZnO nanowires induced by nitrogen plasma annealing *(7 pages)* 024103
C. Ton-That, L. Zhu, M. N. Lockrey, M. R. Phillips, B. C. C. Cowie, A. Tadich, L. Thomsen, S. Khachadorian, S. Schlichting, N. Jankowski, and A. Hoffmann

Charge localization in the Verwey structure of magnetite *(7 pages)* 024104
Mark S. Senn, Jon P. Wright, James Cumby, and J. Paul Attfield

Theoretical investigation of the magnetic and structural transitions of Ni-Co-Mn-Sn metamagnetic shape-memory alloys *(9 pages)* 024105
Chun-Mei Li, Qing-Miao Hu, Rui Yang, Börje Johansson, and Levente Vitos

Generalized evolutionary metadynamics for sampling the energy landscapes and its applications *(7 pages)* 024106
Qiang Zhu, Artem R. Oganov, Andriy O. Lyakhov, and Xiaoxiang Yu

Mesoscopic-scale structure and dynamics near the morphotropic phase boundary of $(1\text{-}x)PbTiO_3\text{-}xBiScO_3$ *(7 pages)* 024107
K. Datta, A. Richter, M. Göbbels, R. B. Neder, and B. Mihailova

X-ray absorption spectroscopy of iron at multimegabar pressures in laser shock experiments *(7 pages)* 024108
M. Harmand, A. Ravasio, S. Mazevet, J. Bouchet, A. Denoeud, F. Dorchies, Y. Feng, C. Fourment, E. Galtier, J. Gaudin, F. Guyot, R. Kodama, M. Koenig, H. J. Lee, K. Miyanishi, G. Morard, R. Musella, B. Nagler, M. Nakatsutsumi, N. Ozaki, V. Recoules, S. Toleikis, T. Vinci, U. Zastrau, D. Zhu, and A. Benuzzi-Mounaix

Structural and magnetic phase transitions in $EuTi_{1-x}Nb_xO_3$ *(7 pages)* 024109
Ling Li, James R. Morris, Michael R. Koehler, Zhiling Dun, Haidong Zhou, Jiaqiang Yan, David Mandrus, and Veerle Keppens

Symmetry and light stuffing of $Ho_2Ti_2O_7$, $Er_2Ti_2O_7$, and $Yb_2Ti_2O_7$ characterized by synchrotron x-ray diffraction *(7 pages)* 024110
Kristen Baroudi, Bruce D. Gaulin, Saul H. Lapidus, Jonathan Gaudet, and R. J. Cava

Inhomogeneous, disordered, and partially ordered systems

Spectral tensor networks for many-body localization *(5 pages)* 024201
A. Chandran, J. Carrasquilla, I. H. Kim, D. A. Abanin, and G. Vidal

Coincidence of collective relaxation anomaly and specific heat peak in a bulk metallic glass-forming liquid *(6 pages)* 024202
Abhishek Jaiswal, Andrey Podlesynak, Georg Ehlers, Rebecca Mills, Stephanie O'Keeffe, Joseph Stevick, James Kempton, Glenton Jelbert, Wojciech Dmowski, Konstantin Lokshin, Takeshi Egami, and Yang Zhang

(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 92, NUMBER 2** **JULY 2015-1(II)**

Long-time relaxation of the magnetization in a pure crystal magnet $La_5Mo_4O_{16}$ *(5 pages)* . . . . . 020419(R)
T. Konishi, K. Kobayashi, and T. Katsufuji

Superfluidity and superconductivity

Charge-vortex interplay in a superconducting Coulomb-blockaded island *(5 pages)* . . . . . 020501(R)
I. M. Khaymovich, V. F. Maisi, J. P. Pekola, and A. S. Mel'nikov

Hidden crossover phenomena in strongly Pauli-limited multiband superconductors: Application to $CeCu_2Si_2$ *(5 pages)* . . . . . 020502(R)
Yasumasa Tsutsumi, Kazushige Machida, and Masanori Ichioka

Two-dimensional superconductor-insulator quantum phase transitions in an electron-doped cuprate *(7 pages)* . . . . 020503(R)
S. W. Zeng, Z. Huang, W. M. Lv, N. N. Bao, K. Gopinadhan, L. K. Jian, T. S. Herng, Z. Q. Liu, Y. L. Zhao, C. J. Li, H. J. Harsan Ma, P. Yang, J. Ding, T. Venkatesan, and Ariando

Band-edge superconductivity *(4 pages)* . . . . . 020504(R)
Garry Goldstein, Camille Aron, and Claudio Chamon

Enhancement of low-frequency fluctuations and superconductivity breakdown in Mn-doped $La_{1-y}Y_yFeAsO_{0.89}F_{0.11}$ superconductors *(5 pages)* . . . . . 020505(R)
F. Hammerath, M. Moroni, L. Bossoni, S. Sanna, R. Kappenberger, S. Wurmehl, A. U. B. Wolter, M. A. Afrassa, Y. Kobayashi, M. Sato, B. Büchner, and P. Carretta

Superconductivity by Sr intercalation in the layered topological insulator Bi_2Se_3 *(5 pages)* . . . . . 020506(R)
Shruti, V. K. Maurya, P. Neha, P. Srivastava, and S. Patnaik

Violation of the Wiedemann-Franz law as evidence of the pseudogap in the iron-based superconductor $Ba(Fe_{1-x}Co_x)_2As_2$ *(5 pages)* . . . . . 020507(R)
Marcin Matusiak and Thomas Wolf

Tunable electronic anisotropy in single-crystal $A_2Cr_3As_3$ (A=K, Rb) quasi-one-dimensional superconductors *(6 pages)* . . . . . 020508(R)
X. F. Wang, C. Roncaioli, C. Eckberg, H. Kim, J. Yong, Y. Nakajima, S. R. Saha, P. Y. Zavalij, and J. Paglione

Scalable architecture for quantum information processing with superconducting flux qubits based on purely longitudinal interactions *(6 pages)* . . . . . 020509(R)
P.-M. Billangeon, J. S. Tsai, and Y. Nakamura

Thermodynamic evidence for the Bose glass transition in twinned $YBa_2Cu_3O_{7-\delta}$ crystals *(4 pages)* . . . . . 020510(R)
D. J. Pérez-Morelo, E. Osquiguil, A. B. Kolton, G. Nieva, I. W. Jung, D. López, and H. Pastoriza

Proposal to probe quantum nonlocality of Majorana fermions in tunneling experiments *(5 pages)* . . . . . 020511(R)
Jay D. Sau, Brian Swingle, and Sumanta Tewari

Fully gapped superconductivity in In-doped topological crystalline insulator $Pb_{0.5}Sn_{0.5}Te$ *(5 pages)* . . . . . 020512(R)
Guan Du, Zengyi Du, Delong Fang, Huan Yang, R. D. Zhong, J. Schneeloch, G. D. Gu, and Hai-Hu Wen

Manipulating Andreev and Majorana bound states with microwaves *(5 pages)* . . . . . 020513(R)
Joseph Weston, Benoit Gaury, and Xavier Waintal

Magnetization currents of fluctuating Cooper pairs *(6 pages)* . . . . . 020514(R)
A. V. Kavokin and A. A. Varlamov

(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 92, NUMBER 2** **JULY 2015-1(II)**

Driving magnetic skyrmions with microwave fields *(5 pages)* . . . . . 020403(R)
Weiwei Wang, Marijan Beg, Bin Zhang, Wolfgang Kuch, and Hans Fangohr

Resonant driving of magnetization precession in a ferromagnetic layer by coherent monochromatic phonons *(5 pages)* . . . . . 020404(R)
J. V. Jäger, A. V. Scherbakov, B. A. Glavin, A. S. Salasyuk, R. P. Campion, A. W. Rushforth, D. R. Yakovlev, A. V. Akimov, and M. Bayer

Phase diagram of the Heisenberg-Kitaev model at $T = 0$ *(4 pages)* . . . . . 020405(R)
J. Oitmaa

Importance of XY anisotropy in Sr_2IrO_4 revealed by magnetic critical scattering experiments *(5 pages)* . . . . . 020406(R)
J. G. Vale, S. Boseggia, H. C. Walker, R. Springell, Z. Feng, E. C. Hunter, R. S. Perry, D. Prabhakaran, A. T. Boothroyd, S. P. Collins, H. M. Rønnow, and D. F. McMorrow

Giant voltage modulation of magnetic anisotropy in strained heavy metal/magnet/insulator heterostructures *(5 pages)* . . . . . 020407(R)
P. V. Ong, Nicholas Kioussis, D. Odkhuu, P. Khalili Amiri, K. L. Wang, and Gregory P. Carman

Towards graded-index magnonics: Steering spin waves in magnonic networks *(5 pages)* . . . . . 020408(R)
C. S. Davies, A. Francis, A. V. Sadovnikov, S. V. Chertopalov, M. T. Bryan, S. V. Grishin, D. A. Allwood, Y. P. Sharaevskii, S. A. Nikitov, and V. V. Kruglyak

Antiferromagnet-mediated spin transfer between a metal and a ferromagnet *(5 pages)* . . . . . 020409(R)
So Takei, Takahiro Moriyama, Teruo Ono, and Yaroslav Tserkovnyak

Landau-Lifshitz theory of thermomagnonic torque *(5 pages)* . . . . . 020410(R)
Se Kwon Kim and Yaroslav Tserkovnyak

Switching of magnetic anisotropy in a fcc antiferromagnet with direction-dependent interactions *(4 pages)* . . . . . 020411(R)
Hiroaki Ishizuka and Leon Balents

Control and braiding of Majorana fermions bound to magnetic domain walls *(5 pages)* . . . . . 020412(R)
Se Kwon Kim, Sumanta Tewari, and Yaroslav Tserkovnyak

$CaMn_2Al_{10}$: Itinerant Mn magnetism on the verge of magnetic order *(5 pages)* . . . . . 020413(R)
L. Steinke, J. W. Simonson, W.-G. Yin, G. J. Smith, J. J. Kistner-Morris, S. Zellman, A. Puri, and M. C. Aronson

Comparison of the magneto-Peltier and magneto-Seebeck effects in magnetic tunnel junctions *(5 pages)* . . . . . 020414(R)
J. Shan, F. K. Dejene, J. C. Leutenantsmeyer, J. Flipse, M. Münzenberg, and B. J. van Wees

Field-induced spin density wave and spiral phases in a layered antiferromagnet *(5 pages)* . . . . . 020415(R)
M. B. Stone, M. D. Lumsden, V. O. Garlea, B. Grenier, E. Ressouche, E. C. Samulon, and I. R. Fisher

Universal scaling of the magnetic anisotropy in two-dimensional rare-earth layers *(6 pages)* . . . . . 020416(R)
L. Benito and R. C. C. Ward

Spin-orbit coupled $j_{\text{eff}} = 1/2$ iridium moments on the geometrically frustrated fcc lattice *(6 pages)* . . . . . 020417(R)
A. M. Cook, S. Matern, C. Hickey, A. A. Aczel, and A. Paramekanti

Inverse spin Hall effect in Cr: Independence of antiferromagnetic ordering *(4 pages)* . . . . . 020418(R)
D. Qu, S. Y. Huang, and C. L. Chien

(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™

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

PERIODICALS
Postmaster send address changes to:

APS Subscription Services
P.O. Box 41
Annapolis Junction, MD 20701

THIRD SERIES, VOLUME 92, NUMBER 2 *CONTENTS* **JULY 2015-1(II)**

RAPID COMMUNICATIONS

Structure, structural phase transitions, mechanical properties, defects

Measurement of transverse hyperfine interaction by forbidden transitions *(5 pages)* . . . . . 020101(R)
Mo Chen (陈墨), Masashi Hirose, and Paola Cappellaro

Morphology transition mechanism from icosahedral to decahedral phase during growth of Cu nanoclusters *(5 pages)* . . . . . 020102(R)
Alexey A. Tal, E. Peter Münger, and Igor A. Abrikosov

Segregation-induced phase transformations in grain boundaries *(5 pages)* . . . . . 020103(R)
T. Frolov, M. Asta, and Y. Mishin

Prediction of the material with highest known melting point from *ab initio* molecular dynamics calculations *(6 pages)* . . . . . 020104(R)
Qi-Jun Hong and Axel van de Walle

Residual stress induced stabilization of martensite phase and its effect on the magnetostructural transition in Mn-rich Ni-Mn-In/Ga magnetic shape-memory alloys *(6 pages)* . . . . . 020105(R)
Sanjay Singh, Pallavi Kushwaha, F. Scheibel, Hanns-Peter Liermann, S. R. Barman, M. Acet, C. Felser, and Dhananjai Pandey

Inhomogeneous, disordered, and partially ordered systems

Interference of sound waves in a moving fluid *(4 pages)* . . . . . 020201(R)
Huanan Li, Andrea Kleeman, Tsampikos Kottos, and Boris Shapiro

Dynamics, dynamical systems, lattice effects:

Intrinsic low thermal conductivity in weakly ionic rocksalt structures *(5 pages)* . . . . . 020301(R)
Yi Zhang, Jianjun Dong, Paul R. C. Kent, Jihui Yang, and Changfeng Chen

Magnetism

Topological orbital magnetization and emergent Hall effect of an atomic-scale spin lattice at a surface *(5 pages)* . . . . . 020401(R)
M. Hoffmann, J. Weischenberg, B. Dupé, F. Freimuth, P. Ferriani, Y. Mokrousov, and S. Heinze

Thermophoresis of an antiferromagnetic soliton *(5 pages)* . . . . . 020402(R)
Se Kwon Kim, Oleg Tchernyshyov, and Yaroslav Tserkovnyak

Copyright 2015 by American Physical Society

(Continued)

1098-0121(20150701)92:2;1-9

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).