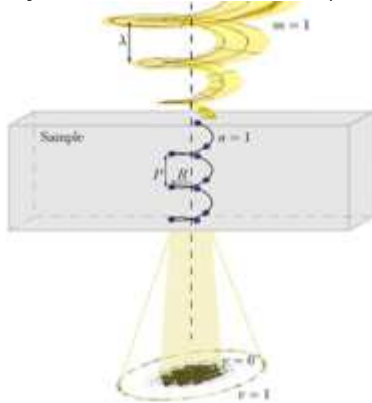


Featured in Physics Editors' Suggestion

Using electron vortex beams to determine chirality of crystals in transmission electron microscopy

Roeland Juchtmans, Armand Béch , Artem Abakumov, Maria Batuk, and Jo Verbeeck
Phys. Rev. B **91**, 094112 (2015) – Published 26 March 2015



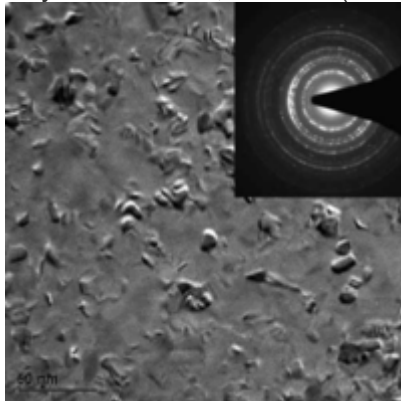
Chiral crystals come in left- and right-handed forms. Methods for using electron diffraction to determine crystal chirality have heretofore required the use of multiple scattering and depended sensitively on the sample thickness. Here it is shown that these constraints can be removed with the use of electron vortex beams (which carry orbital angular momentum) in a transmission electron microscope. In accordance with theoretical expectation, the chirality of a sample of $\text{Mn}_2\text{Sb}_2\text{O}_7$ is experimentally determined.

Editors' Suggestion

Coexistence of electron-glass phase and persistent photoconductivity in GeSbTe compounds

Z. Ovadyahu

Phys. Rev. B **91**, 094204 (2015) – Published 23 March 2015



Using infrared excitation at cryogenic temperatures in thin films of GeSbTe compounds, the authors observe persistent-photoconductivity (charge generation by exposure to light without change of stoichiometry) in a material that also exhibits intrinsic electron-glass behavior and has high carrier concentration.

Editors' Suggestion

Distributions of phonon lifetimes in Brillouin zones

Atsushi Togo, Laurent Chaput, and Isao Tanaka

Phys. Rev. B **91**, 094306 (2015) – Published 20 March 2015

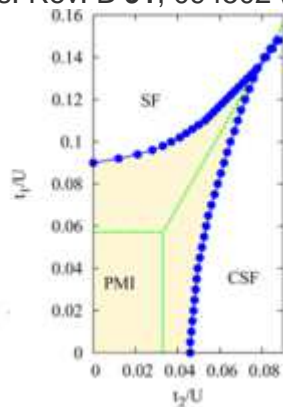


A collaboration of researchers from Japan and France present a comprehensive study of phonon lifetimes and thermal conductivity for 33 zincblende- and wurtzite compounds using linearized phonon Boltzmann equation and first-principles anharmonic phonon calculations. The software that the authors created for this study will be released as an open source package and should be of help in the search of new materials for thermoelectric applications.

Editors' Suggestion

Chiral bosonic phases on the Haldane honeycomb lattice

Ivana Vasić, Alexandru Petrescu, Karyn Le Hur, and Walter Hofstetter
 Phys. Rev. B **91**, 094502 (2015) – Published 3 March 2015

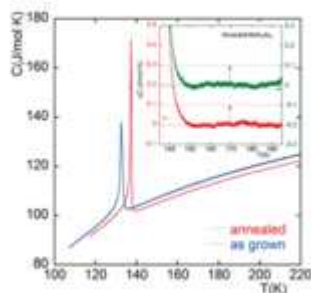


Recent experiments in ultracold atoms and photonic systems have realized lattice models with artificial gauge fields. Here the authors introduce a bosonic version of the Haldane Hubbard Hamiltonian on the honeycomb lattice and use several analytical and numerical methods to uncover a consistent picture of the phase diagram. Three distinct phases are found: chiral superfluid, uniform superfluid, and a plaquette Mott insulator, all of which should be accessible to future experiments.

Editors' Suggestion

Antiferromagnetic and nematic phase transitions in BaFe2(As1-xPx)2 studied by ac microcalorimetry and SQUID magnetometry

X. Luo, V. Stanev, B. Shen, L. Fang, X. S. Ling, R. Osborn, S. Rosenkranz, T. M. Benseman, R. Divan, W.-K. Kwok, and U. Welp
 Phys. Rev. B **91**, 094512 (2015) – Published 23 March 2015



Using high-resolution specific heat and SQUID magnetization measurements, this group studies the thermodynamic phase transitions of BaFe2(As1-xPx)2 (x=0.0, 0.3). The experiments, assisted by theoretical

modeling, show that there is no additional 2nd order “true” nematic phase transition at temperatures above the conventional antiferromagnetic/structural transition.

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

[Role of \$N\$ defects in paramagnetic CrN at finite temperatures from first principles](#)

E. Mozafari, B. Alling, P. Steneteg, and Igor A. Abrikosov

Phys. Rev. B **91**, 094101 (2015) – Published 2 March 2015

[Normal modes and acoustic properties of an elastic solid with line defects](#)

Fernando Lund

Phys. Rev. B **91**, 094102 (2015) – Published 2 March 2015

[Impact of homogeneous strain on uranium vacancy diffusion in uranium dioxide](#)

Anuj Goyal, Simon R. Phillpot, Gopinath Subramanian, David A. Andersson, Chris R. Stanek, and Blas P. Uberuaga

Phys. Rev. B **91**, 094103 (2015) – Published 3 March 2015

[High-pressure neutron scattering of the magnetoelastic Ni-Cr Prussian blue analog](#)

D. M. Pajerowski, S. E. Conklin, J. Leão, L. W. Harriger, and D. Phelan

Phys. Rev. B **91**, 094104 (2015) – Published 3 March 2015

[First-principles prediction of kink-pair activation enthalpy on screw dislocations in bcc transition metals: V, Nb, Ta, Mo, W, and Fe](#)

L. Dezerald, L. Proville, Lisa Ventelon, F. Willaime, and D. Rodney

Phys. Rev. B **91**, 094105 (2015) – Published 9 March 2015

[Hydrogen influence on diffusion in nickel from first-principles calculations](#)

Yu Wang, D. Connétable, and D. Tanguy

Phys. Rev. B **91**, 094106 (2015) – Published 9 March 2015

[Theoretical search for half-Heusler topological insulators](#)

Shi-Yuan Lin, Ming Chen, Xiao-Bao Yang, Yu-Jun Zhao, Shu-Chun Wu, Claudia Felser, and Binghai Yan

Phys. Rev. B **91**, 094107 (2015) – Published 12 March 2015

[Energetics of neutral Si dopants in InGaAs: An ab initio and semiempirical Tersoff model study](#)

Cheng-Wei Lee, Binit Lukose, Michael O. Thompson, and Paulette Clancy

Phys. Rev. B **91**, 094108 (2015) – Published 16 March 2015

[Polaronic deformation at the \$Fe^{2+/3+}\$ impurity site in \$Fe:LiNbO_3\$ crystals](#)

A. Sanson, A. Zaltron, N. Argiolas, C. Sada, M. Bazzan, W. G. Schmidt, and S. Sanna

Phys. Rev. B **91**, 094109 (2015) – Published 17 March 2015

[Magnetic and transport properties of structural variants of Remeika phases: \$Th_3Ir_4Ge_{13}\$ and \$U_3Ir_4Ge_{13}\$](#)

Roman Gumeniuk, Kristina O. Kvashnina, Walter Schnelle, Andreas Leithe-Jasper, and Yuri Grin

Phys. Rev. B **91**, 094110 (2015) – Published 18 March 2015

[Persistence of ferroelectricity above the Curie temperature at the surface of \$Pb\(Zn_{1/3}Nb_{2/3}\)O_3-12\%PbTiO_3\$](#)

N. Domingo, N. Bagués, J. Santiso, and G. Catalan

Phys. Rev. B **91**, 094111 (2015) – Published 26 March 2015

Featured in Physics Editors' Suggestion

[Using electron vortex beams to determine chirality of crystals in transmission electron microscopy](#)

Roeland Juchtmans, Armand Béché, Artem Abakumov, Maria Batuk, and Jo Verbeeck

Phys. Rev. B **91**, 094112 (2015) – Published 26 March 2015

Inhomogeneous, disordered, and partially ordered systems

[Localized Bose-Einstein condensation in disordered liquid \$He_4\$ films](#)

Jacques Bossy, Helmut Schober, and H. R. Glyde

Phys. Rev. B **91**, 094201 (2015) – Published 3 March 2015

Many-body delocalization in a strongly disordered system with long-range interactions: Finite-size scaling

Alexander L. Burin

Phys. Rev. B **91**, 094202 (2015) – Published 4 March 2015

Chemical disorder as an engineering tool for spin polarization in Mn_3Ga -based Heusler systems

S. Chadov, S. W. D'Souza, L. Wollmann, J. Kiss, G. H. Fecher, and C. Felser

Phys. Rev. B **91**, 094203 (2015) – Published 11 March 2015

Editors' Suggestion

Coexistence of electron-glass phase and persistent photoconductivity in $GeSbTe$ compounds

Z. Ovadyahu

Phys. Rev. B **91**, 094204 (2015) – Published 23 March 2015

Dynamics, dynamical systems, lattice effects

Non-Hermitian Hamiltonian approach to quantum transport in disordered networks with sinks: Validity and effectiveness

Giulio G. Giusteri, Francesco Mattiotti, and G. Luca Celardo

Phys. Rev. B **91**, 094301 (2015) – Published 9 March 2015

Giant two-phonon Raman scattering from nanoscale NbC precipitates in Nb

C. Cao, R. Tao, D. C. Ford, R. F. Klie, T. Proslir, L. D. Cooley, A. Dzyuba, P. Zapol, M. Warren, H. Lind, and J. F. Zasadzinski

Phys. Rev. B **91**, 094302 (2015) – Published 16 March 2015

Redirection of sound in straight fluid channel with elastic boundaries

Andrey Bozhko, Victor M. García-Chocano, José Sánchez-Dehesa, and Arkadii Krokhin

Phys. Rev. B **91**, 094303 (2015) – Published 16 March 2015

Inelastic neutron scattering studies of phonon spectra, and simulations of pressure-induced amorphization in tungstates AWO_4 ($A=Ba, Sr, Ca, \text{ and } Pb$)

Prabhathasree Goel, M. K. Gupta, R. Mittal, S. Rols, S. N. Achary, A. K. Tyagi, and S. L. Chaplot

Phys. Rev. B **91**, 094304 (2015) – Published 17 March 2015

Nature of the metal-insulator transition in NbO_2

Andrew O'Hara and Alexander A. Demkov

Phys. Rev. B **91**, 094305 (2015) – Published 20 March 2015

Editors' Suggestion

Distributions of phonon lifetimes in Brillouin zones

Atsushi Togo, Laurent Chaput, and Isao Tanaka

Phys. Rev. B **91**, 094306 (2015) – Published 20 March 2015

Heavy-impurity resonance, hybridization, and phonon spectral functions in $Fe_{1-x}M_xSi$ ($M=Ir, Os$)

O. Delaire, I. I. Al-Qasir, A. F. May, C. W. Li, B. C. Sales, J. L. Niedziela, J. Ma, M. Matsuda, D. L. Abernathy, and T. Berlijn

Phys. Rev. B **91**, 094307 (2015) – Published 31 March 2015

Coherent modulation of the $YBa_2Cu_3O_{6+x}$ atomic structure by displacive stimulated ionic Raman scattering

R. Mankowsky, M. Först, T. Loew, J. Porras, B. Keimer, and A. Cavalleri

Phys. Rev. B **91**, 094308 (2015) – Published 31 March 2015

Magnetism

Theoretical study of thermally activated magnetization switching under microwave assistance: Switching paths and barrier height

H. Suto, K. Kudo, T. Nagasawa, T. Kanao, K. Mizushima, R. Sato, S. Okamoto, N. Kikuchi, and O. Kitakami

Phys. Rev. B **91**, 094401 (2015) – Published 2 March 2015

Magnetic reversal in Dy -doped $DyFe_2/YFe_2$ superlattice films

G. B. G. Stenning, G. J. Bowden, P. A. J. de Groot, G. van der Laan, A. I. Figueroa, P. Bencok, P. Steadman, and T. Hesjedal

Phys. Rev. B **91**, 094403 (2015) – Published 4 March 2015

Nonlinear bond-operator theory and I/d expansion for coupled-dimer magnets. I. Paramagnetic phase

Darshan G. Joshi, Kris Coester, Kai P. Schmidt, and Matthias Vojta

Phys. Rev. B **91**, 094404 (2015) – Published 4 March 2015

Nonlinear bond-operator theory and I/d expansion for coupled-dimer magnets. II. Antiferromagnetic phase and quantum phase transition

Darshan G. Joshi and Matthias Vojta

Phys. Rev. B **91**, 094405 (2015) – Published 4 March 2015

Low-temperature spin-glass behavior in a diluted dipolar Ising system

Juan J. Alonso

Phys. Rev. B **91**, 094406 (2015) – Published 10 March 2015

Electrical determination of vortex state in submicron magnetic elements

Ajay Gangwar, Hans G. Bauer, Jean-Yves Chauleau, Matthias Noske, Markus Weigand, Hermann Stoll, Gisela Schütz, and Christian H. Back

Phys. Rev. B **91**, 094407 (2015) – Published 10 March 2015

Ferroelectric control of spin-transfer torque in multiferroic tunnel junctions

Artur Useinov, Alan Kalitsov, Julian Velez, and Nicholas Kioussis

Phys. Rev. B **91**, 094408 (2015) – Published 11 March 2015

Antiferromagnetic phase of the gapless semiconductor V_3Al

M. E. Jamer, B. A. Assaf, G. E. Sterbinsky, D. Arena, L. H. Lewis, A. A. Saúl, G. Radtke, and D. Heiman

Phys. Rev. B **91**, 094409 (2015) – Published 11 March 2015

Site-specific magnetism of half-metallic Mn_2Ru_xGa thin films determined by x-ray absorption spectroscopy

Davide Betto, Naganivetha Thiyagarajah, Yong-Chang Lau, Cinthia Piamonteze, Marie-Anne Arrio, Plamen Stamenov, J. M. D. Coey, and Karsten Rode

Phys. Rev. B **91**, 094410 (2015) – Published 12 March 2015

Role of spin diffusion in current-induced domain wall motion for disordered ferromagnets

Collins Ashu Akosa, Won-Seok Kim, André Bisig, Mathias Kläui, Kyung-Jin Lee, and Aurélien Manchon

Phys. Rev. B **91**, 094411 (2015) – Published 12 March 2015

Momentum-space structure of quasielastic spin fluctuations in $Ce_3Pd_{20}Si_6$

P. Y. Portnichenko, A. S. Cameron, M. A. Surmach, P. P. Deen, S. Paschen, A. Prokofiev, J.-M. Mignot, A. M. Strydom, M. T. F. Telling, A. Podlesnyak, and D. S. Inosov

Phys. Rev. B **91**, 094412 (2015) – Published 13 March 2015

Depth-resolved magnetic and structural analysis of relaxing epitaxial Sr_2CrReO_6

J. M. Lucy, A. J. Hauser, Y. Liu, H. Zhou, Y. Choi, D. Haskel, S. G. E. te Velthuis, and F. Y. Yang

Phys. Rev. B **91**, 094413 (2015) – Published 16 March 2015

Thermal phase transition of generalized Heisenberg models for $SU(N)$ spins on square and honeycomb lattices

Takafumi Suzuki, Kenji Harada, Haruhiko Matsuo, Syngge Todo, and Naoki Kawashima

Phys. Rev. B **91**, 094414 (2015) – Published 16 March 2015

Dynamics and efficiency of magnetic vortex circulation reversal

Michal Urbánek, Vojtěch Uhlíř, Charles-Henri Lambert, Jimmy J. Kan, Nasim Eibagi, Marek Vaňatka, Lukáš Flajšman, Radek Kalousek, Mi-Young Im, Peter Fischer, Tomáš Šikola, and Eric E. Fullerton

Phys. Rev. B **91**, 094415 (2015) – Published 16 March 2015

Macroscopic magnetic structures with balanced gain and loss

J. M. Lee, T. Kottos, and B. Shapiro

Phys. Rev. B **91**, 094416 (2015) – Published 17 March 2015

Magnetic excitations in the spin-spiral state of TbMnO₃ and DyMnO₃

Alexander I. Milstein and Oleg P. Sushkov

Phys. Rev. B **91**, 094417 (2015) – Published 17 March 2015

Crystal structure and antiferromagnetic spin ordering of LnFe_{2/3}Mo_{1/3}O₃ (Ln=Nd,Pr,Ce,La) perovskites

S. A. Ivanov, P. Beran, G. V. Bazuev, T. Ericsson, R. Tellgren, P. Anil Kumar, P. Nordblad, and R. Mathieu

Phys. Rev. B **91**, 094418 (2015) – Published 17 March 2015

Zero-field NMR and NQR studies of magnetically ordered state in charge-ordered EuPtP

T. Koyama, T. Maruyama, K. Ueda, T. Mito, A. Mitsuda, M. Umeda, M. Sugishima, and H. Wada

Phys. Rev. B **91**, 094419 (2015) – Published 18 March 2015

Two-dimensional magnetic correlations and partial long-range order in geometrically frustrated CaOFeS with triangle lattice of Fe ions

S. F. Jin, Q. Huang, Z. P. Lin, Z. L. Li, X. Z. Wu, T. P. Ying, G. Wang, and X. L. Chen

Phys. Rev. B **91**, 094420 (2015) – Published 18 March 2015

Dynamic rotor mode in antiferromagnetic nanoparticles

K. Lefmann, H. Jacobsen, J. Garde, P. Hedegård, A. Wischnewski, S. N. Ancona, H. S. Jacobsen, C. R. H. Bahl, and L. Theil Kuhn

Phys. Rev. B **91**, 094421 (2015) – Published 19 March 2015

Successive magnetic phase transitions in α -RuCl₃: XY-like frustrated magnet on the honeycomb lattice

Yumi Kubota, Hidekazu Tanaka, Toshio Ono, Yasuo Narumi, and Koichi Kindo

Phys. Rev. B **91**, 094422 (2015) – Published 23 March 2015

Exchange magnon-polaritons in microwave cavities

Yunshan Cao, Peng Yan, Hans Huebl, Sebastian T. B. Goennenwein, and Gerrit E. W. Bauer

Phys. Rev. B **91**, 094423 (2015) – Published 24 March 2015

Effectiveness of classical spin simulations for describing NMR relaxation of quantum spins

Tarek A. Elsayed and Boris V. Fine

Phys. Rev. B **91**, 094424 (2015) – Published 24 March 2015

Switching of a target skyrmion by a spin-polarized current

Yan Liu, Haifeng Du, Min Jia, and An Du

Phys. Rev. B **91**, 094425 (2015) – Published 24 March 2015

Emergent topological excitations in a two-dimensional quantum spin system

Hui Shao, Wenan Guo, and Anders W. Sandvik

Phys. Rev. B **91**, 094426 (2015) – Published 24 March 2015

μ SR and neutron diffraction investigations on the reentrant ferromagnetic superconductor Eu(Fe_{0.86}Ir_{0.14})₂As₂

V. K. Anand, D. T. Adroja, A. Bhattacharyya, U. B. Paramanik, P. Manuel, A. D. Hillier, D. Khalyavin, and Z. Hossain

Phys. Rev. B **91**, 094427 (2015) – Published 25 March 2015

Magnetic detonation structure in crystals of nanomagnets controlled by thermal conduction and volume viscosity

O. Jukimenko, M. Modestov, M. Marklund, and V. Bychkov

Phys. Rev. B **91**, 094428 (2015) – Published 25 March 2015

Field and temperature dependence of intrinsic diamagnetism in graphene: Theory and experiment

Zhilin Li, Lianlian Chen, Sheng Meng, Liwei Guo, Jiao Huang, Yu Liu, Wenjun Wang, and Xiaolong Chen

Phys. Rev. B **91**, 094429 (2015) – Published 27 March 2015

Low- and high-temperature magnetism of Cr and Fe nanoclusters in iron-chromium alloys

Chu-Chun Fu, M. Y. Lavrentiev, R. Soulaïrol, S. L. Dudarev, and D. Nguyen-Manh

Phys. Rev. B **91**, 094430 (2015) – Published 27 March 2015

[Ferromagnetic Coulomb phase in classical spin ice](#)

Stephen Powell

Phys. Rev. B **91**, 094431 (2015) – Published 27 March 2015

[Antiferromagnetism in \$Ru_2MnZ\$ \(\$Z=Sn, Sb, Ge, Si\$ \) full Heusler alloys: Effects of magnetic frustration and chemical disorder](#)

Sergii Khmelevskiy, Eszter Simon, and László Szunyogh

Phys. Rev. B **91**, 094432 (2015) – Published 30 March 2015

[Interface formation for a ferromagnetic/antiferromagnetic bilayer system studied by scanning tunneling microscopy and first-principles theory](#)

Andrada-Oana Mandru, Jeongihm Pak, Arthur R. Smith, Jonathan Guerrero-Sanchez, and Noboru Takeuchi

Phys. Rev. B **91**, 094433 (2015) – Published 30 March 2015

[Magnetic ordering and ferroelectricity in multiferroic \$2H-AgFeO_2\$: Comparison between hexagonal and rhombohedral polytypes](#)

Noriki Terada, Dmitry D. Khalyavin, Pascal Manuel, Yoshihiro Tsujimoto, and Alexei A. Belik

Phys. Rev. B **91**, 094434 (2015) – Published 30 March 2015

[Effects of surface oxidation on the exchange-bias properties of the single-crystal antiferromagnetic/ferromagnetic junction \$Mn/Co/Cu\(001\)\$](#)

M. Caminale, R. Moroni, P. Torelli, G. Panaccione, W. C. Lin, M. Canepa, L. Mattera, and F. Bisio

Phys. Rev. B **91**, 094435 (2015) – Published 31 March 2015

Superfluidity and superconductivity

[Metamaterial superconductors](#)

Igor I. Smolyaninov and Vera N. Smolyaninova

Phys. Rev. B **91**, 094501 (2015) – Published 2 March 2015

Editors' Suggestion

[Chiral bosonic phases on the Haldane honeycomb lattice](#)

Ivana Vasić, Alexandru Petrescu, Karyn Le Hur, and Walter Hofstetter

Phys. Rev. B **91**, 094502 (2015) – Published 3 March 2015

[Visualization of the normal-fluid turbulence in counterflowing superfluid \$He_4\$](#)

A. Marakov, J. Gao, W. Guo, S. W. Van Sciver, G. G. Ihas, D. N. McKinsey, and W. F. Vinen

Phys. Rev. B **91**, 094503 (2015) – Published 6 March 2015

[Antiferromagnetic order oriented by Fulde-Ferrell-Larkin-Ovchinnikov superconducting order](#)

Yuhki Hatakeyama and Ryusuke Ikeda

Phys. Rev. B **91**, 094504 (2015) – Published 6 March 2015

[Majorana fermions in chiral topological ferromagnetic nanowires](#)

Eugene Dumitrescu, Brenden Roberts, Sumanta Tewari, Jay D. Sau, and S. Das Sarma

Phys. Rev. B **91**, 094505 (2015) – Published 12 March 2015

[Doping evolution of antiferromagnetism and transport properties in nonsuperconducting \$BaFe_{2-2x}Ni_xCr_xAs_2\$](#)

Rui Zhang, Dongliang Gong, Xingye Lu, Shiliang Li, Mark Laver, Christof Niedermayer, Sergey Danilkin, Guochu Deng, Pengcheng Dai, and Huiqian Luo

Phys. Rev. B **91**, 094506 (2015) – Published 12 March 2015

[Nontopological nature of the edge current in a chiral \$p\$ -wave superconductor](#)

Wen Huang, Samuel Lederer, Edward Taylor, and Catherine Kallin

Phys. Rev. B **91**, 094507 (2015) – Published 12 March 2015

[Fluctuation-induced first-order phase transitions in type-1.5 superconductors in zero external field](#)

Hannes Meier, Egor Babaev, and Mats Wallin

Phys. Rev. B **91**, 094508 (2015) – Published 19 March 2015

[Point-contact tunneling spectroscopy measurement of \$Cu_xTiSe_2\$: Disorder-enhanced Coulomb effects](#)

Katherine Luna, Phillip M. Wu, Justin S. Chen, Emilia Morosan, and Malcolm R. Beasley
Phys. Rev. B **91**, 094509 (2015) – Published 20 March 2015

Superconducting dome in MoS_2 and $TiSe_2$ generated by quasiparticle-phonon coupling

Tanmoy Das and Kapildeb Dolui

Phys. Rev. B **91**, 094510 (2015) – Published 20 March 2015

Fermi surface effect on spontaneous breaking of time-reversal symmetry in unconventional superconducting films

Nobumi Miyawaki and Seiji Higashitani

Phys. Rev. B **91**, 094511 (2015) – Published 23 March 2015

Editors' Suggestion

Antiferromagnetic and nematic phase transitions in $BaFe_2(As_{1-x}P_x)_2$ studied by ac microcalorimetry and SQUID magnetometry

X. Luo, V. Stanev, B. Shen, L. Fang, X. S. Ling, R. Osborn, S. Rosenkranz, T. M. Benseman, R. Divan, W.-K. Kwok, and U. Welp

Phys. Rev. B **91**, 094512 (2015) – Published 23 March 2015

Proposal for observing non-Abelian statistics of Majorana-Shockley fermions in an optical lattice

Dong-Ling Deng, Sheng-Tao Wang, Kai Sun, and Lu-Ming Duan

Phys. Rev. B **91**, 094513 (2015) – Published 23 March 2015

High-pressure and doping studies of the superconducting antiperovskite $SrPt_3P$

BenMaan I. Jawdat, Bing Lv, Xiyu Zhu, Yuyi Xue, and Ching-wu Chu

Phys. Rev. B **91**, 094514 (2015) – Published 23 March 2015

Effect of disorder on the pressure-induced superconducting state of $CeAu_2Si_2$

Z. Ren, G. Girit, G. W. Scheerer, G. Lapertot, and D. Jaccard

Phys. Rev. B **91**, 094515 (2015) – Published 24 March 2015

Detecting nonlocal Cooper pair entanglement by optical Bell inequality violation

Simon E. Nigg, Rakesh P. Tiwari, Stefan Walter, and Thomas L. Schmidt

Phys. Rev. B **91**, 094516 (2015) – Published 30 March 2015

Circuit-QED-based scalable architectures for quantum information processing with superconducting qubits

P.-M. Billangeon, J. S. Tsai, and Y. Nakamura

Phys. Rev. B **91**, 094517 (2015) – Published 30 March 2015

Long range p -wave proximity effect into a disordered metal

Aydin Cem Keser, Valentin Stanev, and Victor Galitski

Phys. Rev. B **91**, 094518 (2015) – Published 30 March 2015

Low-temperature thermal transport at the interface of a topological insulator and a d -wave superconductor

Adam C. Durst

Phys. Rev. B **91**, 094519 (2015) – Published 31 March 2015

ERRATA

Publisher's Note: Stabilizing and increasing the magnetic moment of half-metals:

*The role of Li in half-Heusler $LiMnZ$ ($Z=N, P, Si$) [Phys. Rev. B **91**, 064409 (2015)]*

L. Damewood, B. Busemeyer, M. Shaughnessy, C. Y. Fong, L. H. Yang, and C. Felser

Phys. Rev. B **91**, 099901 (2015) – Published 4 March 2015

*Publisher's Note: High-temperature superconductivity stabilized by electron-hole interband coupling in collapsed tetragonal phase of KFe_2As_2 under high pressure [Phys. Rev. B **91**, 060508(R) (2015)]*

Yasuyuki Nakajima, Renxiong Wang, Tristin Metz, Xiangfeng Wang, Limin Wang, Hyunhae Cynn, Samuel T. Weir, Jason R. Jeffries, and Johnpierre Paglione

Phys. Rev. B **91**, 099902 (2015) – Published 9 March 2015

*Publisher's Note: Enhancement of superconductivity
in $La_{1-x}Sm_xO_{0.5}F_{0.5}BiS_2$ [Phys. Rev. B **91**, 064510 (2015)]*

Y. Fang, D. Yazici, B. D. White, and M. B. Maple

Phys. Rev. B **91**, 099903 (2015) – Published 9 March 2015

*Erratum: Propulsion of a domain wall in an antiferromagnet by magnons [Phys. Rev. B **90**, 104406 (2014)]*

Se Kwon Kim, Yaroslav Tserkovnyak, and Oleg Tchernyshyov

Phys. Rev. B **91**, 099904 (2015) – Published 12 March 2015

*Erratum: Classical spin models with broken symmetry: Random-field-induced order and persistence of spontaneous magnetization in the presence of a random field [Phys. Rev. B **90**, 174408 (2014)]*

Anindita Bera, Debraj Rakshit, Maciej Lewenstein, Aditi Sen(De), Ujjwal Sen, and Jan Wehr

Phys. Rev. B **91**, 099905 (2015) – Published 27 March 2015

*Erratum: Ultrafast dephasing of coherent optical phonons in atomically controlled $GeTe/Sb_2Te_3$ superlattices [Phys. Rev. B **79**, 174112 (2009)]*

Muneaki Hase, Yoshinobu Miyamoto, and Junji Tominaga

Phys. Rev. B **91**, 099906 (2015) – Published 30 March 2015

*Erratum: Predicting low-thermal-conductivity Si-Ge nanowires with a modified cluster expansion method [Phys. Rev. B **91**, 054105 (2015)]*

Jesper Kristensen and Nicholas J. Zabaras

Phys. Rev. B **91**, 099907 (2015) – Published 30 March 2015