

Time-resolved spectral density of interacting fermions following a quench to a superconducting critical point (<i>12 pages</i>)	104506
Yonah Lemonik and Aditi Mitra	
Nodal and nodeless gap in proximity-induced superconductivity: Application to monolayer CuO ₂ on a Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} substrate (<i>5 pages</i>)	104507
Yimeng Wang, Zhen-Hua Wang, and Wei-Qiang Chen	
Quantum oscillations in the SmFeAsO parent compound and superconducting SmFeAs(O,F) (<i>5 pages</i>)	104508
F. Caglieris, A. Leveratto, I. Pallecchi, F. Bernardini, M. Fujioka, Y. Takano, L. Repetto, A. Jost, U. Zeitler, and M. Putti	
Multifaceted impact of a surface step on superconductivity in atomically thin films (<i>7 pages</i>)	104509
L.-F. Zhang, L. Flammia, L. Covaci, A. Perali, and M. V. Milošević	
Quasiparticle relaxation in superconducting nanostructures (<i>12 pages</i>)	104510
Yahor Savich, Leonid Glazman, and Alex Kamenev	
Critical fields and fluctuations determined from specific heat and magnetoresistance in the same nanogram SmFeAs(O,F) single crystal (<i>6 pages</i>)	104511
S. Galeski, P. W. J. Moll, N. Zhigadlo, K. Mattenberger, and B. Batlogg	
Magnetic fluctuations and superconducting properties of CaKFe ₄ As ₄ studied by ⁷⁵ As NMR (<i>8 pages</i>)	104512
J. Cui, Q.-P. Ding, W. R. Meier, A. E. Böhrer, T. Kong, V. Borisov, Y. Lee, S. L. Bud'ko, R. Valentí, P. C. Canfield, and Y. Furukawa	
Nonequilibrium restoration of duality symmetry in the vicinity of the superconductor-to-insulator transition (<i>4 pages</i>)	104513
I. Tamir, A. Doron, T. Levinson, F. Gorniaczyk, G. C. Tewari, and D. Shahar	
Nature of the antiferromagnetic and nematic transitions in Sr _{1-x} Ba _x Fe _{1.97} Ni _{0.03} As ₂ (<i>5 pages</i>)	104514
Dongliang Gong, Zhaoyu Liu, Yanhong Gu, Tao Xie, Xiaoyan Ma, Huiqian Luo, Yi-feng Yang, and Shiliang Li	
Thermospin effects in superconducting heterostructures (<i>9 pages</i>)	104515
I. V. Bobkova and A. M. Bobkov	
Onset of surface superconductivity beyond the Saint-James–de Gennes limit (<i>15 pages</i>)	104516
Hong-Yi Xie, Vladimir G. Kogan, Maxim Khodas, and Alex Levchenko	
Thermodynamics of Meissner effect and flux pinning behavior in the bulk of single-crystal La _{2-x} Sr _x CuO ₄ (<i>x=0.09</i>) (<i>10 pages</i>)	104517
I. Dhiman, R. Ziesche, V. K. Anand, L. Riik, Gian Song, A. T. M. N. Islam, Isao Tanaka, and W. Treimer	
Normal-state gap in the parent cuprate Pr ₂ CuO _{4±δ} (<i>5 pages</i>)	104518
Ge He, Xinjian Wei, Xu Zhang, Lei Shan, Jie Yuan, Beiyi Zhu, Yuan Lin, and Kui Jin	

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 96, NUMBER 10

SEPTEMBER 2017-1(II)

Criticality and phase diagram of quantum long-range $O(N)$ models (11 pages)	104432
Nicolò Defenu, Andrea Trombettoni, and Stefano Ruffo	
Structural and magnetic phase transitions in chromium nitride thin films grown by rf nitrogen plasma molecular beam epitaxy (10 pages)	104433
Khan Alam, Steven M. Disseler, William D. Ratcliff, Julie A. Borchers, Rodrigo Ponce-Pérez, Gregorio H. Coccoletzi, Noboru Takeuchi, Andrew Foley, Andrea Richard, David C. Ingram, and Arthur R. Smith	
Tunable spin-orbit torque in Cu-Ta binary alloy heterostructures (7 pages)	104434
Tian-Yue Chen, Chun-Te Wu, Hung-Wei Yen, and Chi-Feng Pai	
Magnetic field induced phase transitions and phase diagrams of multiferroic $Mn_{0.95}Co_{0.05}WO_4$ with cycloidal spin structure (10 pages)	104435
I. Urcelay-Olabarria, E. Ressouche, Z. Wang, Y. Skourski, V. Yu. Ivanov, Y. F. Popov, G. P. Vorobev, A. M. Balbashov, N. Qureshi, J. L. García-Muñoz, V. Skumryev, and A. A. Mukhin	
Anomalous dynamical phase in quantum spin chains with long-range interactions (7 pages)	104436
Ingo Homrighausen, Nils O. Abeling, Valentin Zauner-Stauber, and Jad C. Halimeh	
Chiral anomaly of Weyl magnons in stacked honeycomb ferromagnets (9 pages)	104437
Ying Su and X. R. Wang	
Spin-orbit torques from interfacial spin-orbit coupling for various interfaces (23 pages)	104438
Kyoung-Whan Kim, Kyung-Jin Lee, Jairo Sinova, Hyun-Woo Lee, and M. D. Stiles	
Three-dimensional Bose-Einstein condensation in the spin- $\frac{1}{2}$ ferromagnetic-leg ladder 3-Br-4-F-V (6 pages)	104439
Yohei Kono, Hironori Yamaguchi, Yuko Hosokoshi, and Toshiro Sakakibara	
High field induced magnetic transitions in the $Y_{0.7}Er_{0.3}Fe_2D_{4.2}$ deuteride (14 pages)	104440
V. Paul-Boncour, M. Guillot, O. Isnard, and A. Hoser	
☞ Nonlocal magnon-polaron transport in yttrium iron garnet (14 pages)	104441
L. J. Cornelissen, K. Oyanagi, T. Kikkawa, Z. Qiu, T. Kuschel, G. E. W. Bauer, B. J. van Wees, and E. Saitoh	
Superfluidity and superconductivity	
Superconductivity in the ferromagnet URhGe under uniaxial pressure (5 pages)	104501
V. P. Mineev	
Spin-singlet superconductivity in the doped topological crystalline insulator $Sn_{0.96}In_{0.04}Te$ (5 pages)	104502
Satoki Maeda, Ryohei Hirose, Kazuaki Matano, Mario Novak, Yoichi Ando, and Guo-qing Zheng	
Quantum dynamics of a Josephson junction driven cavity mode system in the presence of voltage bias noise (8 pages)	104503
Hui Wang (王惠), M. P. Blencowe, A. D. Armour, and A. J. Rimberg	
☞ TRILEX and $GW+EDMFT$ approach to d -wave superconductivity in the Hubbard model (22 pages)	104504
J. Vučićević, T. Ayral, and O. Parcollet	
Hydrostatic pressure effect on the transport properties in TiO superconducting thin films (7 pages)	104505
X. Liu, C. Zhang, F. X. Hao, T. Y. Wang, Y. J. Fan, Y. W. Yin, and X. G. Li	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 96, NUMBER 10

SEPTEMBER 2017-1(II)

Chiral damping, chiral gyromagnetism, and current-induced torques in textured one-dimensional Rashba ferromagnets (<i>11 pages</i>)	104418
Frank Freimuth, Stefan Blügel, and Yuriy Mokrousov	
Piezospintronic effect in honeycomb antiferromagnets (<i>5 pages</i>)	104419
Camilo Ulloa, Roberto E. Troncoso, Scott A. Bender, R. A. Duine, and A. S. Nunez	
☞ Magnetic order, hysteresis, and phase coexistence in magnetoelectric LiCoPO ₄ (<i>10 pages</i>)	104420
Ellen Fogh, Rasmus Toft-Petersen, Eric Ressouche, Christof Niedermayer, Sonja Lindahl Holm, Maciej Bartkowiak, Oleksandr Prokhnenko, Steffen Sloth, Frederik Werner Isaksen, David Vaknin, and Niels Bech Christensen	
Magnetic properties of epitaxial CoO/Fe(001) bilayers: The onset of exchange bias as a function of sublayer thickness and temperature (<i>11 pages</i>)	104421
Jacek Gurgul, Ewa Młyńczak, Anna Koziół-Rachwał, Krzysztof Matlak, Kinga Freindl, Ewa Madej, Nika Spiridis, Tomasz Ślęzak, and Józef Korecki	
Quasistatic remanence in Dzyaloshinskii-Moriya interaction driven weak ferromagnets and piezomagnets (<i>10 pages</i>)	104422
Namrata Pattanayak, Arpan Bhattacharyya, A. K. Nigam, Sang-Wook Cheong, and Ashna Bajpai	
Intrinsic and spatially nonuniform ferromagnetism in Co-doped ZnO films (<i>10 pages</i>)	104423
L. T. Tseng, A. Suter, Y. R. Wang, F. X. Xiang, P. Bian, X. Ding, A. Tseng, H. L. Hu, H. M. Fan, R. K. Zheng, X. L. Wang, Z. Salman, T. Prokscha, K. Suzuki, R. Liu, S. Li, E. Morenzoni, and J. B. Yi	
Magnetic field-temperature phase diagram of multiferroic [(CH ₃) ₂ NH ₂]Mn(HCOO) ₃ (<i>5 pages</i>)	104424
A. J. Clune, K. D. Hughey, C. Lee, N. Abhyankar, X. Ding, N. S. Dalal, M.-H. Whangbo, J. Singleton, and J. L. Musfeldt	
Photomagnonic nanocavities for strong light–spin-wave interaction (<i>9 pages</i>)	104425
P. A. Pantazopoulos, N. Stefanou, E. Almpanis, and N. Papanikolaou	
Off-axis spin orientation in goethite nanoparticles (<i>10 pages</i>)	104426
Erik Brok, Kim Lefmann, Gøran Jan Nilsen, Mathias Kure, and Cathrine Frandsen	
Thermally induced antiferromagnetic exchange in magnetic multilayers (<i>5 pages</i>)	104427
D. M. Polishchuk, Yu. O. Tykhonenko-Polishchuk, E. Holmgren, A. F. Kravets, and V. Korenivski	
Origin of the magnetoelectric effect in the Cs ₂ FeCl ₅ ·D ₂ O compound (<i>9 pages</i>)	104428
Oscar Fabelo, J. Alberto Rodríguez-Velamazán, Laura Canadillas-Delgado, Lidia Mazzuca, Javier Campo, Ángel Millán, Laurent C. Chapon, and Juan Rodríguez-Carvajal	
Anisotropic field-induced gap in the quasi-one-dimensional antiferromagnet KCuMoO ₄ (OH) (<i>10 pages</i>)	104429
Kazuhiro Nawa, Oleg Janson, and Zenji Hiroi	
Relaxation dynamics of modulated magnetic phases in the skyrmion host GaV ₄ S ₈ : An ac magnetic susceptibility study (<i>10 pages</i>)	104430
Ádám Butykai, Sándor Bordács, László F. Kiss, Bertalan György Szigeti, Vladimir Tsurkan, Alois Loidl, and István Kézsmárki	
Improper ferroelectricity at antiferromagnetic domain walls of perovskite oxides (<i>7 pages</i>)	104431
Yali Yang, Hongjun Xiang, Hongjian Zhao, Alessandro Stroppa, Jincang Zhang, Shixun Cao, Jorge Íñiguez, L. Bellaiche, and Wei Ren	

(Continued)

Magnetic structure and magnetization of helical antiferromagnets in high magnetic fields perpendicular to the helix axis at zero temperature (22 <i>pages</i>)	104405
David C. Johnston	
Inhomogeneous hard-core bosonic mixture with checkerboard supersolid phase: Quantum and thermal phase diagram (14 <i>pages</i>)	104406
F. Heydarinasab and J. Abouie	
Spin dynamics of the magnetocaloric compound MnFe_4Si_3 (9 <i>pages</i>)	104407
N. Biniskos, S. Raymond, K. Schmalzl, A. Schneidewind, J. Voigt, R. Georgii, P. Hering, J. Persson, K. Friese, and T. Brückel	
Influence of antisite defects and stacking faults on the magnetocrystalline anisotropy of FePt (8 <i>pages</i>)	104408
M. Wolloch, D. Suess, and P. Mohn	
Spatial distribution of the doped electrons in cubic $\text{Sr}_{1-x}\text{La}_x\text{MnO}_3$ ($x \leq 0.04$) oxides probed by ^{87}Sr NMR (10 <i>pages</i>)	104409
A. Germov, A. Trokiner, Z. Volkova, K. Mikhalev, A. Gerashenko, S. Verkhovskii, A. Korolev, I. Leonidov, E. Konstantinova, and V. Kozhevnikov	
Electronic structure and magnetic properties of magnetically dead layers in epitaxial $\text{CoFe}_2\text{O}_4/\text{Al}_2\text{O}_3/\text{Si}(111)$ films studied by x-ray magnetic circular dichroism (11 <i>pages</i>)	104410
Yuki K. Wakabayashi, Yosuke Nonaka, Yukiharu Takeda, Shoya Sakamoto, Keisuke Ikeda, Zhendong Chi, Goro Shibata, Arata Tanaka, Yuji Saitoh, Hiroshi Yamagami, Masaaki Tanaka, Atsushi Fujimori, and Ryosho Nakane	
Spin-wave nonreciprocity and magnonic band structure in a thin permalloy film induced by dynamical coupling with an array of Ni stripes (7 <i>pages</i>)	104411
M. Mruczkiewicz, P. Graczyk, P. Lupo, A. Adeyeye, G. Gubbiotti, and M. Krawczyk	
Spin Hall effect mediated current-induced deterministic switching in all-metallic perpendicularly magnetized Pt/Co/Pt trilayers (9 <i>pages</i>)	104412
Vineeth Mohanan P, K. R. Ganesh, and P. S. Anil Kumar	
Using rf voltage induced ferromagnetic resonance to study the spin-wave density of states and the Gilbert damping in perpendicularly magnetized disks (11 <i>pages</i>)	104413
Thibaut Devolder	
Spin dynamics in the stripe-ordered buckled honeycomb lattice antiferromagnet $\text{Ba}_2\text{NiTeO}_6$ (6 <i>pages</i>)	104414
Shinichiro Asai, Minoru Soda, Kazuhiro Kasatani, Toshio Ono, V. Ovidiu Garlea, Barry Winn, and Takatsugu Masuda	
First-principles calculations on the origin of ferromagnetism in transition-metal doped Ge (8 <i>pages</i>)	104415
Hikari Shinya, Tetsuya Fukushima, Akira Masago, Kazunori Sato, and Hiroshi Katayama-Yoshida	
Accurate scheme to calculate the interatomic Dzyaloshinskii-Moriya interaction parameters (7 <i>pages</i>)	104416
S. Mankovsky and H. Ebert	
Spin wave damping arising from phase coexistence below T_c in colossal magnetoresistive $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ (7 <i>pages</i>)	104417
Joel S. Helton, Susumu K. Jones, Daniel Parshall, Matthew B. Stone, Dmitry A. Shulyatev, and Jeffrey W. Lynn	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 96, NUMBER 10

SEPTEMBER 2017-1(II)

Stepwise relaxation and stochastic precession in degenerate oscillators dispersively coupled to particles (8 pages)	104302
Christin Rhén and Andreas Isacsson	
Origins of Willis coupling and acoustic bianisotropy in acoustic metamaterials through source-driven homogenization (20 pages)	104303
Caleb F. Sieck, Andrea Alù, and Michael R. Haberman	
Quantum efficiency bound for continuous heat engines coupled to noncanonical reservoirs (6 pages)	104304
Bijay Kumar Agarwalla, Jian-Hua Jiang, and Dvira Segal	
Universality of electronic friction: Equivalence of von Oppen's nonequilibrium Green's function approach and the Head-Gordon–Tully model at equilibrium (7 pages)	104305
Wenjie Dou and Joseph E. Subotnik	
Nonequilibrium <i>ab initio</i> molecular dynamics determination of Ti monovacancy migration rates in B1 TiN (13 pages)	104306
D. Gambino, D. G. Sangiovanni, B. Alling, and I. A. Abrikosov	
Electron-phonon scattering rates in complex polar crystals (11 pages)	104307
M. P. Prange, L. W. Campbell, and S. Kerisit	
Coherent generation of symmetry-forbidden phonons by light-induced electron-phonon interactions in magnetite (12 pages)	104308
S. Borroni, E. Baldini, V. M. Katukuri, A. Mann, K. Parlinski, D. Legut, C. Arrell, F. van Mourik, J. Teyssier, A. Kozłowski, P. Piekarz, O. V. Yazyev, A. M. Oleś, J. Lorenzana, and F. Carbone	
Effects of local periodic driving on transport and generation of bound states (12 pages)	104309
Adhip Agarwala and Diptiman Sen	
<i>Ab initio</i> study of mode-resolved phonon transmission at Si/Ge interfaces using atomistic Green's functions (8 pages)	104310
Benoit Latour, Nina Shulumba, and Austin J. Minnich	
Pillar-type acoustic metasurface (8 pages)	104311
Yabin Jin, Bernard Bonello, Rayisa P. Moiseyenko, Yan Pennec, Olga Boyko, and Bahram Djafari-Rouhani	
Magnetism	
Competition between spin liquids and valence-bond order in the frustrated spin- $\frac{1}{2}$ Heisenberg model on the honeycomb lattice (9 pages)	104401
Francesco Ferrari, Samuel Bieri, and Federico Becca	
Fisher information approach to nonequilibrium phase transitions in a quantum XXZ spin chain with boundary noise (10 pages)	104402
Ugo Marzolino and Tomaž Prosen	
Orbital magnetization of interacting Dirac fermions in graphene (7 pages)	104403
Xin-Zhong Yan and C. S. Ting	
Unexpected structural and magnetic depth dependence of YIG thin films (7 pages)	104404
J. F. K. Cooper, C. J. Kinane, S. Langridge, M. Ali, B. J. Hickey, T. Niizeki, K. Uchida, E. Saitoh, H. Ambaye, and A. Glavic	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 96, NUMBER 10

SEPTEMBER 2017-1(II)

Large carrier-capture rate of Pb_1 antisite in $\text{CH}_3\text{NH}_3\text{PbI}_3$ induced by heavy atoms and soft phonon modes (8 pages)	104103
Jiqiang Li, Hai-Feng Zhu, Yue-Yu Zhang, Zhen-Kun Yuan, Shiyong Chen, and Xin-Gao Gong	
 Lead palladium titanate: A room-temperature multiferroic (9 pages)	104104
Elzbieta Gradauskaite, Jonathan Gardner, Rebecca M. Smith, Finlay D. Morrison, Stephen L. Lee, Ram S. Katiyar, and James F. Scott	
Structural and magnetic properties of [001] CoCr_2O_4 thin films (11 pages)	104105
Roger Guzman, Jeroen Heuver, Sylvia Matzen, César Magén, and Beatriz Noheda	
Local inversion symmetry breaking and spin-phonon coupling in the perovskite GdCrO_3 (9 pages)	104106
Sudipta Mahana, Bipul Rakshit, Raktima Basu, Sandip Dhara, Bobby Joseph, U. Manju, Subhendra D. Mahanti, and D. Topwal	
Atomic defects and dopants in ternary Z-phase transition-metal nitrides CrMN with $M = \text{V, Nb, Ta}$ investigated with density functional theory (10 pages)	104107
Daniel F. Urban and Christian Elsässer	
Novel mechanism for order patterning in alloys driven by irradiation (11 pages)	104108
C. R. Lear, P. Bellon, and R. S. Averbach	
Strain-induced incommensurate phases in hexagonal manganites (9 pages)	104109
Fei Xue, Xueyun Wang, Yin Shi, Sang-Wook Cheong, and Long-Qing Chen	
Frequency conversion induced by time-space modulated media (8 pages)	104110
Kaijun Yi, Manuel Collet, and Sami Karkar	
Local structural distortions in strained $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ thin films (5 pages)	104111
J. C. Woicik, E. L. Shirley, K. Gilmore, K. E. Andersen, and C. Stephen Hellberg	
Inhomogeneous, disordered, and partially ordered systems	
Thouless energy and multifractality across the many-body localization transition (12 pages)	104201
Maksym Serbyn, Z. Papić, and Dmitry A. Abanin	
X-ray absorption of liquid water by advanced <i>ab initio</i> methods (9 pages)	104202
Zhaoru Sun, Mohan Chen, Lixin Zheng, Jianping Wang, Biswajit Santra, Huaze Shen, Limei Xu, Wei Kang, Michael L. Klein, and Xifan Wu	
Noninteracting central site model: Localization and logarithmic entanglement growth (10 pages)	104203
Daniel Hetterich, Maksym Serbyn, Fernando Domínguez, Frank Pollmann, and Björn Trauzettel	
Anderson transition of two-dimensional spinful electrons in the Gaussian unitary ensemble (6 pages)	104204
C. Wang and X. R. Wang	
Transport properties across the many-body localization transition in quasiperiodic and random systems (13 pages)	104205
F. Setiawan, Dong-Ling Deng, and J. H. Pixley	
Bounds on complex polarizabilities and a new perspective on scattering by a lossy inclusion (19 pages)	104206
Graeme W. Milton	
Dynamics, dynamical systems, lattice effects:	
Relation of short-range and long-range lithium ion dynamics in glass-ceramics: Insights from ^7Li NMR field-cycling and field-gradient studies (9 pages)	104301
Michael Haaks, Steve W. Martin, and Michael Vogel	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 96, NUMBER 10

SEPTEMBER 2017-1(II)

Prediction of the new efficient permanent magnet SmCoNiFe_3 (5 pages)	100404(R)
P. Söderlind, A. Landa, I. L. M. Loch, D. Åberg, Y. Kvashnin, M. Pereiro, M. Däne, P. E. A. Turchi, V. P. Antropov, and O. Eriksson	
Real-space observation of nanoscale magnetic phase separation in dysprosium by aberration-corrected Lorentz microscopy (5 pages)	100405(R)
Takuro Nagai, Koji Kimoto, Koji Inoke, and Masaki Takeguchi	
Direct observation of magnon-phonon coupling in yttrium iron garnet (5 pages)	100406(R)
Haoran Man, Zhong Shi, Guangyong Xu, Yadong Xu, Xi Chen, Sean Sullivan, Jianshi Zhou, Ke Xia, Jing Shi, and Pengcheng Dai	
Coherent terahertz spin-wave emission associated with ferrimagnetic domain wall dynamics (5 pages)	100407(R)
Se-Hyeok Oh, Se Kwon Kim, Dong-Kyu Lee, Gyungchoon Go, Kab-Jin Kim, Teruo Ono, Yaroslav Tserkovnyak, and Kyung-Jin Lee	
Superfluidity and superconductivity	
Superuniversal transport near a (2 + 1)-dimensional quantum critical point (5 pages)	100501(R)
F. Rose and N. Dupuis	
Electron-phonon coupling mechanisms for hydrogen-rich metals at high pressure (6 pages)	100502(R)
K. Tanaka, J. S. Tse, and H. Liu	
Signature of multigap nodeless superconductivity in fluorine-doped NdFeAsO (6 pages)	100503(R)
A. Adamski, C. Krellner, and M. Abdel-Hafiez	
Anomalous temperature evolution of the electronic structure of FeSe (5 pages)	100504(R)
Y. S. Kushnirenko, A. A. Kordyuk, A. V. Fedorov, E. Haubold, T. Wolf, B. Büchner, and S. V. Borisenko	
Quasiparticle excitations and evidence for superconducting double transitions in monocrystalline $\text{U}_{0.97}\text{Th}_{0.03}\text{Be}_{13}$ (5 pages)	100505(R)
Yusei Shimizu, Shunichiro Kittaka, Shota Nakamura, Toshiro Sakakibara, Dai Aoki, Yoshiya Homma, Ai Nakamura, and Kazushige Machida	
Tuning pairing amplitude and spin-triplet texture by curving superconducting nanostructures (6 pages)	100506(R)
Zu-Jian Ying, Mario Cuoco, Carmine Ortix, and Paola Gentile	
Observation of two-dimensional superconductivity in bilayers of BaBiO_3 and BaPbO_3 (5 pages)	100507(R)
B. Meir, S. Gorol, T. Kopp, and G. Hammerl	

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Raman spectroscopy and x-ray diffraction of sp^3 CaCO_3 at lower mantle pressures (9 pages)	104101
Sergey S. Lobanov, Xiao Dong, Naira S. Martirosyan, Artem I. Samtsevich, Vladan Stevanovic, Pavel N. Gavryushkin, Konstantin D. Litasov, Eran Greenberg, Vitali B. Prakapenka, Artem R. Oganov, and Alexander F. Goncharov	
Nonlinear flexoelectricity in noncentrosymmetric crystals (5 pages)	104102
Kanghyun Chu and Chan-Ho Yang	

(Continued)

RAPID COMMUNICATIONS

Structure, structural phase transitions, mechanical properties, defects

- Synergy of van der Waals and self-interaction corrections in transition metal monoxides (*5 pages*) 100101(R)
Haowei Peng and John P. Perdew
- Hole polarons and *p*-type doping in boron nitride polymorphs (*4 pages*) 100102(R)
L. Weston, D. Wickramaratne, and C. G. Van de Walle

Inhomogeneous, disordered, and partially ordered systems

- Anomalous random correlations of force constants on the lattice dynamical properties of disordered Au-Fe alloys (*6 pages*) 100201(R)
Jiban Kangsabanik, Rajiv K. Chouhan, D. D. Johnson, and Aftab Alam
- Photonic Chern insulator through homogenization of an array of particles (*5 pages*) 100202(R)
Meng Xiao and Shanhui Fan

Dynamics, dynamical systems, lattice effects:

- The curious case of cuprous chloride: Giant thermal resistance and anharmonic quasiparticle spectra driven by dispersion nesting (*7 pages*) 100301(R)
Saikat Mukhopadhyay, Dipanshu Bansal, Olivier Delaire, Didier Perrodin, Edith Bourret-Courchesne, David J. Singh, and Lucas Lindsay
- Thermal conductivity from phonon quasiparticles with subminimal mean free path in the MgSiO₃ perovskite (*5 pages*) 100302(R)
Dong-Bo Zhang, Philip B. Allen, Tao Sun, and Renata M. Wentzcovitch

Magnetism

- Excitation and tailoring of diffractive spin-wave beams in NiFe using nonuniform microwave antennas (*5 pages*) 100401(R)
H. S. Körner, J. Stigloher, and C. H. Back
- Generalized boundary conditions for spin transfer (*5 pages*) 100402(R)
Yaroslav Tserkovnyak and Hector Ochoa
- Speed and efficiency of femtosecond spin current injection into a nonmagnetic material (*6 pages*) 100403(R)
M. Hofherr, P. Maldonado, O. Schmitt, M. Berritta, U. Bierbrauer, S. Sadashivaiah, A. J. Schellekens, B. Koopmans, D. Steil, M. Cinchetti, B. Stadtmüller, P. M. Oppeneer, S. Mathias, and M. Aeschlimann

