

RAPID COMMUNICATIONS

Electronic structure and strongly correlated systems

- Direct time-domain determination of electron-phonon coupling strengths in chromium (6 pages) 041101(R)
J. Wingert, A. Singer, S. K. K. Patel, R. Kukreja, Matthieu J. Verstraete, Aldo H. Romero, V. Uhlř, S. Festersen, D. Zhu, J. M. Glowina, H. T. Lemke, S. Nelson, M. Kozina, K. Rossnagel, B. M. Murphy, O. M. Magnussen, E. E. Fullerton, and O. G. Shpyrko
- Electronic band structure of (111) SrRuO₃ thin films: An angle-resolved photoemission spectroscopy study (7 pages) 041102(R)
Hanyoung Ryu, Yukiaki Ishida, Bongju Kim, Jeong Rae Kim, Woo Jin Kim, Yoshimitsu Kohama, Shusaku Imajo, Zhuo Yang, Wonshik Kyung, Sungsoo Hahn, Byungmin Sohn, Inkyung Song, Minsoo Kim, Soonsang Huh, Jongkeun Jung, Donghan Kim, Tae Won Noh, Saikat Das, and Changyoung Kim
- Influence of point defects on the electronic and topological properties of monolayer WTe₂ (6 pages) 041103(R)
Lukas Muechler, Wei Hu, Lin Lin, Chao Yang, and Roberto Car
- Observation of inverted band structure in the topological Dirac semimetal candidate CaAuAs (5 pages) 041104(R)
Kosuke Nakayama, Zhiwei Wang, Daichi Takane, Seigo Souma, Yuya Kubota, Yuki Nakata, Cephise Cacho, Timur Kim, Sandy Adhithia Ekahana, Ming Shi, Miho Kitamura, Koji Horiba, Hiroshi Kumigashira, Takashi Takahashi, Yoichi Ando, and Takafumi Sato
- Path integral for spin-1 chain in the fluctuating matrix product state basis (4 pages) 041105(R)
Jintae Kim, Rajarshi Pal, Jin-Hong Park, and Jung Hoon Han
- Plaquette versus ordinary *d*-wave pairing in the *t'*-Hubbard model on a width-4 cylinder (6 pages) 041106(R)
Chia-Min Chung, Mingpu Qin, Shiwei Zhang, Ulrich Schollwöck, and Steven R. White (The Simons Collaboration on the Many-Electron Problem)
- Spin Hall angle fluctuations in a device with disorder (5 pages) 041107(R)
F. A. F. Santana, J. M. da Silva, T. C. Vasconcelos, J. G. G. S. Ramos, and A. L. R. Barbosa
- Nonsymmorphic Dirac semimetal and carrier dynamics in the doped spin-orbit-coupled Mott insulator Sr₂IrO₄ (6 pages) 041108(R)
J. W. Han, Sun-Woo Kim, W. S. Kyung, C. Kim, G. Cao, X. Chen, S. D. Wilson, Sangmo Cheon, and J. S. Lee
- Quantum spin Hall effect in monolayer and bilayer TaIrTe₄ (6 pages) 041109(R)
Peng-Jie Guo, Xiao-Qin Lu, Wei Ji, Kai Liu, and Zhong-Yi Lu



Bardasis-Schrieffer polaritons in excitonic insulators (<i>5 pages</i>)	041110(R)
Zhiyuan Sun and Andrew J. Millis	
Wiedemann-Franz law in a non-Fermi liquid and Majorana central charge: Thermoelectric transport in a two-channel Kondo system (<i>5 pages</i>)	041111(R)
Gerwin A. R. van Dalum, Andrew K. Mitchell, and Lars Fritz	
Charge density wave with anomalous temperature dependence in UPt_2Si_2 (<i>6 pages</i>)	041112(R)
Jooseop Lee, Karel Prokeš, Sohee Park, Igor Zaliznyak, Sachith Dissanayake, Masaaki Matsuda, Matthias Frontzek, Stanislav Stoupin, Greta L. Chappell, Ryan E. Baumbach, Changwon Park, John A. Mydosh, Garrett E. Granroth, and Jacob P. C. Ruff	
Fluctuation-dissipation relations for strongly correlated out-of-equilibrium circuits (<i>5 pages</i>)	041113(R)
Inès Safi	
Mott-Hubbard gaps and their doping-induced collapse in strongly correlated pyrochlore ruthenates (<i>6 pages</i>)	041114(R)
R. Kaneko, K. Ueda, C. Terakura, and Y. Tokura	
Finite-size corrections of defect energy levels involving ionic polarization (<i>5 pages</i>)	041115(R)
Stefano Falletta, Julia Wiktor, and Alfredo Pasquarello	
Many-body flatband localization (<i>6 pages</i>)	041116(R)
Carlo Danieli, Alexei Andreanov, and Sergej Flach	
☞ Isolated Heisenberg magnet as a quantum time crystal (<i>7 pages</i>)	041117(R)
Marko Medenjak, Berislav Buča, and Dieter Jaksch	
☞ Quasilocalized dynamics from confinement of quantum excitations (<i>7 pages</i>)	041118(R)
Alessio Lerose, Federica M. Surace, Paolo P. Mazza, Gabriele Perfetto, Mario Collura, and Andrea Gambassi	
Floquet topological phases of non-Hermitian systems (<i>7 pages</i>)	041119(R)
Hong Wu and Jun-Hong An	
Disorder recovers the Wiedemann-Franz law in the metallic phase of VO_2 (<i>6 pages</i>)	041120(R)
Lei Jin, Steven E. Zeltmann, Hwan Sung Choe, Huili Liu, Frances I. Allen, Andrew M. Minor, and Junqiao Wu	
☞ Deep neural network for the dielectric response of insulators (<i>6 pages</i>)	041121(R)
Linfeng Zhang, Mohan Chen, Xifan Wu, Han Wang, Weinan E, and Roberto Car	
Hybrid-order topology of weak topological insulators (<i>5 pages</i>)	041122(R)
Sander H. Kooi, Guido van Miert, and Carmine Ortix	
Seeing topological edge and bulk currents in time-of-flight images (<i>5 pages</i>)	041123(R)
Alvaro Rubio-García, Chris N. Self, Juan Jose García-Ripoll, and Jiannis K. Pachos	
Self-learning hybrid Monte Carlo: A first-principles approach (<i>6 pages</i>)	041124(R)
Yuki Nagai, Masahiko Okumura, Keita Kobayashi, and Motoyuki Shiga	
Role of virtual band population for high harmonic generation in solids (<i>7 pages</i>)	041125(R)
Yasuyuki Sanari, Hideki Hirori, Tomoko Aharen, Hirokazu Tahara, Yasushi Shinohara, Kenichi L. Ishikawa, Tomohito Otobe, Peiyu Xia, Nobuhisa Ishii, Jiro Itatani, Shunsuke A. Sato, and Yoshihiko Kanemitsu	

(Continued)

Fractional corner charges in a two-dimensional superlattice Bose-Hubbard model (<i>5 pages</i>)	041126(R)
Julian Bibo, Izabella Lovas, Yizhi You, Fabian Grusdt, and Frank Pollmann	

Semiconductors I: bulk

Multitype Dirac fermions protected by orthogonal glide symmetries in a noncentrosymmetric system (<i>6 pages</i>)	041201(R)
Yunyoyou Xia, Xiaochan Cai, and Gang Li	

Sign-reversal electron magnetization in Mn-doped semiconductor structures (<i>6 pages</i>)	041202(R)
I. A. Kokurin, A. Yu. Silov, and N. S. Averkiev	

Large spin splittings due to the orbital degree of freedom and spin textures in a ferroelectric nitride perovskite (<i>6 pages</i>)	041203(R)
Hong Jian Zhao, Peng Chen, Charles Paillard, Rémi Arras, Yue-Wen Fang, Xu Li, Julien Gosteau, Yurong Yang, and Laurent Bellaïche	

Quantum oscillation beyond the quantum limit in pseudospin Dirac materials (<i>6 pages</i>)	041204(R)
C. M. Wang, Hai-Zhou Lu, and X. C. Xie	

Semiconductors II: surfaces, interfaces, microstructures, and related topics

Current scaling of the topological quantum phase transition between a quantum anomalous Hall insulator and a trivial insulator (<i>6 pages</i>)	041301(R)
Minoru Kawamura, Masataka Mogi, Ryutaro Yoshimi, Atsushi Tsukazaki, Yusuke Kozuka, Kei S. Takahashi, Masashi Kawasaki, and Yoshinori Tokura	

Surface physics, nanoscale physics, low-dimensional systems

Fast nuclear-spin conversion of H ₂ trapped and polarized in a CO ₂ matrix (<i>5 pages</i>)	041401(R)
Koichiro Yamakawa, Atsuki Ishibashi, Toshinobu Namiyoshi, Yuichi Azuma, and Ichiro Arakawa	

 Landau level of fragile topology (<i>7 pages</i>)	041402(R)
Biao Lian, Fang Xie, and B. Andrei Bernevig	

Emergence of intraparticle entanglement and time-varying violation of Bell's inequality in Dirac matter (<i>6 pages</i>)	041403(R)
Bruna Gabrielly de Moraes, Aron W. Cummings, and Stephan Roche	

Many-particle effects in optical transitions from zero-mode Landau levels in HgTe quantum wells (<i>6 pages</i>)	041404(R)
S. S. Krishtopenko, A. M. Kadykov, S. Gebert, S. Ruffenach, C. Consejo, J. Torres, C. Avogadri, B. Jouault, W. Knap, N. N. Mikhailov, S. A. Dvoretiskii, and F. Teppe	

ARTICLES

Electronic structure and strongly correlated systems

Stability of Weyl semimetals with quasiperiodic disorder (<i>8 pages</i>)	045101
Vieri Mastropietro	

Entanglement entropy of generalized Moore-Read fractional quantum Hall state interfaces (<i>29 pages</i>)	045102
Ramanjit Sohal, Bo Han, Luiz H. Santos, and Jeffrey C. Y. Teo	

Many-body electronic structure of LaScO ₃ by real-space quantum Monte Carlo (<i>11 pages</i>)	045103
Cody A. Melton and Lubos Mitas	

(Continued)

Fractonlike phases from subsystem symmetries (<i>14 pages</i>)	045104
J. P. Ibieta-Jimenez, L. N. Queiroz Xavier, M. Petrucci, and P. Teotonio-Sobrinho	
Flat bands and ferrimagnetic order in electronically correlated dice-lattice ribbons (<i>14 pages</i>)	045105
Rahul Soni, Nitin Kaushal, Satoshi Okamoto, and Elbio Dagotto	
Electronic structure of the Si-containing topological Dirac semimetal CaAl_2Si_2 (<i>8 pages</i>)	045106
Tao Deng, Cheng Chen, Hao Su, Junyi He, Aiji Liang, Shengtao Cui, Haifeng Yang, Chengwei Wang, Kui Huang, Chris Jozwiak, Aaron Bostwick, Eli Rotenberg, Donghui Lu, Makoto Hashimoto, Lexian Yang, Zhi Liu, Yanfeng Guo, Gang Xu, Zhongkai Liu, and Yulin Chen	
Band structure and insulating states driven by Coulomb interaction in twisted bilayer graphene (<i>6 pages</i>)	045107
Tommaso Cea and Francisco Guinea	
Phase diagram of an interacting staggered Su-Schrieffer-Heeger two-chain ladder close to a quantum critical point (<i>15 pages</i>)	045108
A. A. Nersesyan	
Systematic first-principles study of the on-site spin-orbit coupling in crystals (<i>7 pages</i>)	045109
Kensuke Kurita and Takashi Koretsune	
Correlation effects in quadrupole insulators: A quantum Monte Carlo study (<i>8 pages</i>)	045110
Chen Peng, Rong-Qiang He, and Zhong-Yi Lu	
Distinguishing between topological and quasi Majorana zero modes with a dissipative resonant level (<i>9 pages</i>)	045111
Gu Zhang and Christian Spånslätt	
Symmetry-breaking polymorphous descriptions for correlated materials without interelectronic U (<i>15 pages</i>)	045112
Yubo Zhang, James Furness, Ruiqi Zhang, Zhi Wang, Alex Zunger, and Jianwei Sun	
Pressure and electric field dependence of quasicrystalline electronic states in 30° twisted bilayer graphene (<i>7 pages</i>)	045113
Guodong Yu, Mikhail I. Katsnelson, and Shengjun Yuan	
Speed of quantum information spreading in chaotic systems (<i>26 pages</i>)	045114
Josiah Couch, Stefan Eccles, Phuc Nguyen, Brian Swingle, and Shenglong Xu	
Algorithmic approach to diagrammatic expansions for real-frequency evaluation of susceptibility functions (<i>6 pages</i>)	045115
Amir Taheridehkordi, S. H. Curnoe, and J. P. F. LeBlanc	
Magnetic behavior of T' -type Eu_2CuO_4 revealed by muon spin rotation and relaxation measurements (<i>7 pages</i>)	045116
M. Fujita, K. M. Suzuki, S. Asano, H. Okabe, A. Koda, R. Kadono, and I. Watanabe	
Influence of high-energy local orbitals and electron-phonon interactions on the band gaps and optical absorption spectra of hexagonal boron nitride (<i>9 pages</i>)	045117
Tong Shen, Xiao-Wei Zhang, Honghui Shang, Min-Ye Zhang, Xinqiang Wang, En-Ge Wang, Hong Jiang, and Xin-Zheng Li	
Charge-transfer energy in iridates: A hard x-ray photoelectron spectroscopy study (<i>9 pages</i>)	045119
D. Takegami, D. Kasinathan, K. K. Wolff, S. G. Altendorf, C. F. Chang, K. Hoefer, A. Melendez-Sans, Y. Utsumi, F. Meneghin, T. D. Ha, C. H. Yen, K. Chen, C. Y. Kuo, Y. F. Liao, K. D. Tsuei, R. Morrow, S. Wurmehl, B. Büchner, B. E. Prasad, M. Jansen, A. C. Komarek, P. Hansmann, and L. H. Tjeng	

(Continued)

Crystal fields of lithium rare-earth tetrafluorides and multiplet splitting of the +3 rare-earth ions (24 pages)	045120
Leila Mollabashi and S. Jalali-Asadabadi	
Dynamically screened vertex correction to <i>GW</i> (22 pages)	045121
Y. Pavlyukh, G. Stefanucci, and R. van Leeuwen	
Topological charge of finite-size photonic crystal modes (8 pages)	045122
Zhixin Wang, Yong Liang, Mattias Beck, Giacomo Scalari, and Jérôme Faist	
Quantum chaos of unitary Fermi gases in the strong pairing fluctuation region (8 pages)	045123
Xinloong Han and Boyang Liu	
Importance of interactions for the band structure of the topological Dirac semimetal Na ₃ Bi (7 pages)	045124
I. Di Bernardo, J. Collins, W. Wu, Ju Zhou, Shengyuan A. Yang, Sheng Ju, M. T. Edmonds, and M. S. Fuhrer	
Thermodynamic signatures of an antiferromagnetic quantum critical point inside a superconducting dome (10 pages)	045125
Vanuildo S. de Carvalho, Andrey V. Chubukov, and Rafael M. Fernandes	
Fully anharmonic nonperturbative theory of vibronically renormalized electronic band structures (10 pages)	045126
Marios Zacharias, Matthias Scheffler, and Christian Carbogno	
Electronic structure beyond the generalized gradient approximation for Ni ₂ MnGa (7 pages)	045127
D. R. Baigutlin, V. V. Sokolovskiy, O. N. Miroshkina, M. A. Zagrebin, J. Nokelainen, A. Pulkkinen, B. Barbiellini, K. Pussi, E. Lähderanta, V. D. Buchelnikov, and A. T. Zayak	
Effects of structural distortions on the electronic structure of <i>T</i> -type transition metal dichalcogenides (18 pages)	045128
Daniel T. Larson, Wei Chen, Steven B. Torrisi, Jennifer Coulter, Shiang Fang, and Efthimios Kaxiras	
Edge modes in two-dimensional electromagnetic slab waveguides: Analogs of acoustic plasmons (6 pages)	045129
Daniel Leykam, Konstantin Y. Bliokh, and Franco Nori	
Intrinsic axion insulating behavior in antiferromagnetic MnBi ₆ Te ₁₀ (10 pages)	045130
Na Hyun Jo, Lin-Lin Wang, Robert-Jan Slager, Jiaqiang Yan, Yun Wu, Kyungchan Lee, Benjamin Schrunk, Ashvin Vishwanath, and Adam Kaminski	
Critical behavior for point monopole and dipole electric impurities in uniformly and uniaxially strained graphene (9 pages)	045131
Julio César Pérez-Pedraza, Erik Díaz-Bautista, Alfredo Raya, and David Valenzuela	
Anomalous Andreev reflection in an 8- <i>Pmmn</i> borophene-based superconducting junction (8 pages)	045132
Xingfei Zhou	
Effect of Stern-Gerlach force on negative magnetoresistance and Hall resistance in spin-dependent viscous flow (6 pages)	045133
Ya Zhang, Feng Zhai, and Wei Jiang	
Floquet spectrum and electronic transitions of tilted anisotropic Dirac materials under electromagnetic radiation: Monodromy matrix approach (13 pages)	045134
A. Kunold, J. C. Sandoval-Santana, V. G. Ibarra-Sierra, and Gerardo G. Naumis	
Electronic band structure of layers within meta generalized gradient approximation of density functionals (8 pages)	045135
Abhilash Patra, Bikash Patra, Lucian A. Constantin, and Prasanjit Samal	

(Continued)

First-principles description of the exciton-phonon interaction: A cumulant approach (<i>11 pages</i>)	045136
Pierluigi Cudazzo	
Density dynamics in the mass-imbalanced Hubbard chain (<i>11 pages</i>)	045137
Tjark Heitmann, Jonas Richter, Thomas Dahm, and Robin Steinigeweg	
Topological phase transition on the edge of two-dimensional $\mathbb{Z}_2$ topological order (<i>19 pages</i>)	045139
Wei-Qiang Chen, Chao-Ming Jian, Liang Kong, Yi-Zhuang You, and Hao Zheng	
Quantum coherence in ergodic and many-body localized systems (<i>7 pages</i>)	045140
Sayandip Dhara, Alioscia Hamma, and Eduardo R. Mucciolo	
Berry flux diagonalization: Application to electric polarization (<i>8 pages</i>)	045141
John Bonini, David Vanderbilt, and Karin M. Rabe	
Mott and pseudogap localization in pressurized NbO ₂ (<i>7 pages</i>)	045142
L. Craco and S. Leoni	
Strong enhancement of magnetic susceptibility induced by spin-nematic fluctuations in an excitonic insulating system with spin-orbit coupling (<i>9 pages</i>)	045143
Joji Nasu, Makoto Naka, and Sumio Ishihara	
Magnetic Kondo regimes in a frustrated half-filled trimer (<i>15 pages</i>)	045144
Krzysztof P. Wójcik, Ireneusz Weymann, and Johann Kroha	
Collective excitations of quantum Hall states under tilted magnetic field (<i>14 pages</i>)	045145
Kang Yang, Mark O. Goerbig, and Benoît Douçot	
Compositional phase stability of correlated electron materials within DFT+DMFT (<i>11 pages</i>)	045146
Eric B. Isaacs and Chris A. Marianetti	
How non-Fermi liquids cure their infrared divergences (<i>14 pages</i>)	045147
Jeremias Aguilera Damia, Mario Solís, and Gonzalo Torroba	
Interaction and temperature effects on the magneto-optical conductivity of Weyl liquids (<i>11 pages</i>)	045148
S. Acheche, R. Nourafkan, J. Padayasi, N. Martin, and A.-M. S. Tremblay	
NMR study of the spin excitations in the frustrated antiferromagnet Yb(BaBO ₃) ₃ with a triangular lattice (<i>6 pages</i>)	045149
K. Y. Zeng, Long Ma, Y. X. Gao, Z. M. Tian, L. S. Ling, and Li Pi	
☞ Magnetic breakdown and charge density wave formation: A quantum oscillation study of the rare-earth tritellurides (<i>10 pages</i>)	045150
P. Walmsley, S. Aeschlimann, J. A. W. Straquadine, P. Giraldo-Gallo, S. C. Riggs, M. K. Chan, R. D. McDonald, and I. R. Fisher	
Strain-induced pseudomagnetic field and quantum oscillations in kagome crystals (<i>8 pages</i>)	045151
Tianyu Liu	
Extending the Gutzwiller approximation to intersite interactions (<i>38 pages</i>)	045152
Garry Goldstein, Nicola Lanata, and Gabriel Kotliar	

(Continued)

Semiconductors I: bulk

Optical conductivity of the type-II Weyl semimetal TaIrTe ₄ (6 pages)	045201
F. Le Mardelé, D. Santos-Cottin, E. Martino, K. Semeniuk, S. Ben David, F. Orbanić, M. Novak, Z. Rukelj, C. C. Homes, and Ana Akrap	
Magnon-bipolar carrier drag thermopower in antiferromagnetic/ferromagnetic semiconductors: Theoretical formulation and experimental evidence (17 pages)	045202
Md Mobarak Hossain Polash and Daryoosh Vashaee	
Optical harmonic generation on the exciton-polariton in ZnSe (13 pages)	045203
Johannes Mund, Dmitri R. Yakovlev, Marina A. Semina, and Manfred Bayer	
 Time- and angle-resolved photoemission spectroscopy for the saddle-point excitons in GaAs (16 pages)	045204
Hiroshi Tanimura and Katsumi Tanimura	

Semiconductors II: surfaces, interfaces, microstructures, and related topics

Evaluation of the vortex core size in gate-tunable Josephson junctions in Corbino geometry (5 pages)	045301
Sadashige Matsuo, Mizuki Tateno, Yosuke Sato, Kento Ueda, Yuusuke Takeshige, Hiroshi Kamata, Joon Sue Lee, Borzoyeh Shojaei, Christopher J. Palmstrøm, and Seigo Tarucha	
Effect of electric current on the optical orientation of interface electrons in AlGaAs/GaAs heterostructures (10 pages)	045302
O. S. Ken, E. A. Zhukov, I. A. Akimov, V. L. Korenev, N. E. Kopteva, I. V. Kalitukha, V. F. Sapega, A. D. Wieck, A. Ludwig, R. Schott, Yu. G. Kusrayev, D. R. Yakovlev, and M. Bayer	
Signatures of the Majorana spin in electrical transport through a Majorana nanowire (16 pages)	045303
Alexander Schuray, Manuel Rammler, and Patrik Recher	
Entanglement robustness to excitonic spin precession in a quantum dot (7 pages)	045304
Samir Bounouar, Gabriel Rein, Kisa Barkemeyer, Julian Schleibner, Peter Schnauber, Manuel Gschrey, Jan-Hindrik Schulze, André Strittmatter, Sven Rodt, Andreas Knorr, Alexander Carmele, and Stephan Reitzenstein	
Quantum point contact potential curvature under correlated disorder potentials (12 pages)	045305
T. Aono, M. Takahashi, M. H. Fauzi, and Y. Hirayama	
Magnetic field enhanced detection of coherent phonons in a GaMnAs/GaAs film (9 pages)	045306
Brenden A. Magill, Sunil Thapa, Jade Holleman, Stephen McGill, Hiro Munekata, Christopher J. Stanton, and Giti A. Khodaparast	
Attractive interactions, molecular complexes, and polarons in coupled dipolar exciton fluids (12 pages)	045307
C. Hubert, K. Cohen, A. Ghazaryan, M. Lemesko, R. Rapaport, and P. V. Santos	
Tunneling mechanism in a (Ga,Mn)As/GaAs-based spin Esaki diode investigated by bias-dependent shot noise measurements (7 pages)	045308
T. Arakawa, J. Shiogai, M. Maeda, M. Ciorga, M. Utz, D. Schuh, Y. Niimi, M. Kohda, J. Nitta, D. Bougeard, D. Weiss, and K. Kobayashi	
Spiraling vortices in exciton-polariton condensates (7 pages)	045309
Xuekai Ma, Yaroslav V. Kartashov, Tingge Gao, Lluís Torner, and Stefan Schumacher	
Scattering in InAs/GaSb coupled quantum wells as a probe of higher order subband hybridization (11 pages)	045310
C. S. Knox, L. H. Li, M. C. Rosamond, E. H. Linfield, and C. H. Marrows	

(Continued)

Resonant tunneling anisotropic magnetoresistance induced by magnetic proximity (<i>15 pages</i>)	045312
Chenghao Shen, Timothy Leeney, Alex Matos-Abiague, Benedikt Scharf, Jong E. Han, and Igor Žutić	
Mechanisms of spin-charge conversion for the electrical readout of $4f$ quantum states in a TbPc ₂ single-molecule magnet spin transistor (<i>10 pages</i>)	045313
Kieran Hymas and Alessandro Soncini	
Surface physics, nanoscale physics, low-dimensional systems	
Relaxation of the degenerate one-dimensional Fermi gas (<i>10 pages</i>)	045401
K. A. Matveev and Zoran Ristivojevic	
Evidence of tunable magnetic coupling in hydrogenated graphene (<i>7 pages</i>)	045402
Shimin Cao, Chuanwu Cao, Shibing Tian, and Jian-Hao Chen	
Generalized dipole correction for charged surfaces in the repeated-slab approach (<i>12 pages</i>)	045403
Christoph Freysoldt, Arpit Mishra, Michael Ashton, and Jörg Neugebauer	
Interaction-induced current asymmetries in resonant transport through interacting quantum-dot spin valves revealed by iterative summation of path integrals (<i>10 pages</i>)	045404
S. Mundinar, A. Hucht, J. König, and S. Weiss	
Plasmon-assisted two-photon absorption in a semiconductor quantum dot–metallic nanoshell composite (<i>8 pages</i>)	045405
Bintoro S. Nugroho, Alexander A. Iskandar, Victor A. Malyshev, and Jasper Knoester	
 Edge photocurrent driven by terahertz electric field in bilayer graphene (<i>10 pages</i>)	045406
S. Candussio, M. V. Durnev, S. A. Tarasenko, J. Yin, J. Keil, Y. Yang, S.-K. Son, A. Mishchenko, H. Plank, V. V. Bel'kov, S. Slizovskiy, V. Fal'ko, and S. D. Ganichev	
Acoustomagnetolectric effect in two-dimensional materials: Geometric resonances and Weiss oscillations (<i>9 pages</i>)	045407
I. G. Savenko, A. V. Kalameitsev, L. G. Mourokh, and V. M. Kovalev	
Vanishing influence of the band gap on the charge exchange of slow highly charged ions in freestanding single-layer MoS ₂ (<i>8 pages</i>)	045408
S. Creutzburg, J. Schwestka, A. Niggas, H. Inani, M. Tripathi, A. George, R. Heller, R. Kozubek, L. Madauß, N. McEvoy, S. Facsko, J. Kotakoski, M. Schleberger, A. Turchanin, P. L. Grande, F. Aumayr, and R. A. Wilhelm	
High-order minibands and interband Landau level reconstruction in graphene moiré superlattices (<i>5 pages</i>)	045409
Xiaobo Lu, Jian Tang, John R. Wallbank, Shuopei Wang, Cheng Shen, Shuang Wu, Peng Chen, Wei Yang, Jing Zhang, Kenji Watanabe, Takashi Taniguchi, Rong Yang, Dongxia Shi, Dmitri K. Efetov, Vladimir I. Fal'ko, and Guangyu Zhang	
Unit cell restricted Bloch functions basis for first-principle transport models: Theory and application (<i>12 pages</i>)	045410
M. G. Pala, P. Giannozzi, and D. Esseni	
Nonreciprocal second-harmonic generation in few-layer chromium triiodide (<i>7 pages</i>)	045411
Wenshen Song, Ruixiang Fei, Linghan Zhu, and Li Yang	
Bulk-boundary correspondence in non-Hermitian Hopf-link exceptional line semimetals (<i>10 pages</i>)	045412
Zhicheng Zhang, Zhesen Yang, and Jiangping Hu	

(Continued)

Photon-assisted resonant Andreev reflections: Yu-Shiba-Rusinov and Majorana states (<i>18 pages</i>)	045413
Sergio Acero González, Larissa Melischek, Olof Peters, Karsten Flensberg, Katharina J. Franke, and Felix von Oppen	
Dual topological insulator device with disorder robustness (<i>6 pages</i>)	045414
Bruno Focassio, Gabriel R. Schleder, Armando Pezo, Marcio Costa, and Adalberto Fazzio	
Entropy current and efficiency of quantum machines driven by nonequilibrium incoherent reservoirs (<i>8 pages</i>) . . .	045415
Sebastian E. Deghi and Raúl A. Bustos-Marín	
Engineering valley quantum interference in anisotropic van der Waals heterostructures (<i>6 pages</i>)	045416
Muralidhar Nalabothula, Pankaj K. Jha, Tony Low, and Anshuman Kumar	
Valley caloritronics in a photodriven heterojunction of Dirac materials (<i>11 pages</i>)	045417
Priyadarshini Kapri, Bashab Dey, and Tarun Kanti Ghosh	
Universal description of potential energy surface of interlayer interaction in two-dimensional materials by first spatial Fourier harmonics (<i>12 pages</i>)	045418
Alexander V. Lebedev, Irina V. Lebedeva, Andrey M. Popov, Andrey A. Knizhnik, Nikolai A. Poklonski, and Sergey A. Vyrko	
Electromagnetic control of transport across a barrier on a topological insulator surface (<i>18 pages</i>)	045419
Adithi Udupa, K. Sengupta, and Diptiman Sen	
Plasmons in two-dimensional lattices of near-field coupled nanoparticles (<i>22 pages</i>)	045420
François Fernique and Guillaume Weick	
Order improvement of surface nanopatterns via substrate rocking under ion bombardment: Experiments and nonlinear models (<i>14 pages</i>)	045421
Sujin Jo, Jihee Jun, Eunsu Lee, S. M. Yoon, J. Seo, J. Muñoz-García, R. Cuerno, and J.-S. Kim	
Antiresonance in the spin current through a quantum dot induced by electron-phonon interaction (<i>6 pages</i>)	045422
Li-Ling Zhou, Zhao-Yang Zeng, Xue-Yun Zhou, and Yi-Gao Wang	
Theory of wave-packet transport under narrow gaps and spatial textures: Nonadiabaticity and semiclassicality (<i>15 pages</i>)	045423
Matisse Wei-Yuan Tu, Ci Li, and Wang Yao	
Topological bulk states and their currents (<i>10 pages</i>)	045424
Chris N. Self, Alvaro Rubio-García, Juan Jose García-Ripoll, and Jiannis K. Pachos	
Spin polarization of graphene on $\text{Co}_2\text{FeGe}_{0.5}\text{Ga}_{0.5}(001)$ observed by spin-polarized surface positronium spectroscopy (<i>4 pages</i>)	045425
A. Miyashita, S. Li, S. Sakai, M. Maekawa, and A. Kawasuso	
Sign reversal of nonlocal response due to electron collisions (<i>4 pages</i>)	045426
K. E. Nagaev	
Electronic and transport properties of anisotropic semiconductor quantum wires (<i>11 pages</i>)	045427
S. M. Cunha, D. R. da Costa, L. C. Felix, Andrey Chaves, and J. Milton Pereira Jr.	
Chirality-induced tunneling asymmetry at a semiconductor interface (<i>6 pages</i>)	045428
I. V. Rozhansky, D. Quang To, H. Jaffrès, and H.-J. Drouhin	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 102, NUMBER 4

JULY 2020-15(II)

Coupling theory of quasinormal modes for lossy and dispersive plasmonic nanoresonators (<i>17 pages</i>)	045430
Can Tao, Junda Zhu, Ying Zhong, and Haitao Liu	
Half-integer charge injection by a Josephson junction without excess noise (<i>10 pages</i>)	045431
F. Hassler, A. Grabsch, M. J. Pacholski, D. O. Oriekhov, O. Ovdatt, I. Adagideli, and C. W. J. Beenakker	
Nanoparticle lattices with bases: Fourier modal method and dipole approximation (<i>9 pages</i>)	045432
Ilia M. Fradkin, Sergey A. Dyakov, and Nikolay A. Gippius	
Self-duality triggered dynamical transition (<i>17 pages</i>)	045433
Italo Guarneri, Chushun Tian, and Jiao Wang	