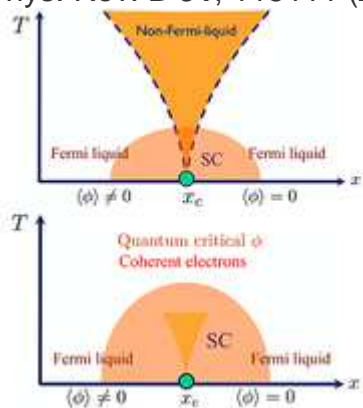


HIGHLIGHTED ARTICLES

Editors' Suggestion

Cooper pairing in non-Fermi liquids

Max A. Metlitski, David F. Mross, Subir Sachdev, and T. Senthil
 Phys. Rev. B **91**, 115111 (2015) – Published 4 March 2015

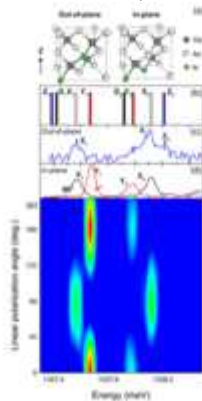


Whether the non-Fermi-liquid behavior of fermionic systems, developing in the proximity of a quantum critical point, is stable or not toward the formation of Cooper pairs is an interesting and challenging open question in the physics of strongly correlated systems. In this new and interesting contribution to the field, the authors study systems where the non-Fermi-liquid behavior arises as a result of the interaction of a gapless bosonic mode with fermions in the vicinity of the Fermi surface.

Editors' Suggestion

Dynamics of excitons bound to nitrogen isoelectronic centers in GaAs

P. St-Jean, G. Éthier-Majcher, and S. Francoeur
 Phys. Rev. B **91**, 115201 (2015) – Published 9 March 2015

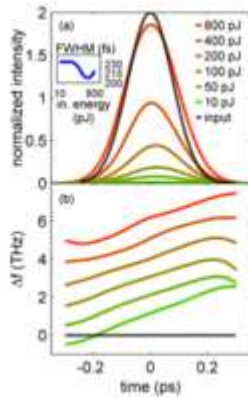


The first comprehensive study is made of the exciton dynamics and spin-relaxation processes in isoelectronic centers in GaAs, single excitons bound to two nitrogen atoms. Such atomic defects may offer advantageous properties for quantum information applications over the more established quantum dots and NV centers in diamond. Time-resolved spectroscopy is coupled with a unique analytical model.

Editors' Suggestion

Nonlinear pulse propagation in InAs/InP quantum dot optical amplifiers: Rabi oscillations in the presence of nonresonant nonlinearities

O. Karni, A. K. Mishra, G. Eisenstein, and J. P. Reithmaier
 Phys. Rev. B **91**, 115304 (2015) – Published 9 March 2015



There is interest in what happens to ultrashort light pulses propagating through a quantum-dot semiconductor optical amplifier waveguide. In this experiment, the influence of nonresonant propagation effects, such as linear dispersion, two-phonon absorption, and Kerr-like, on the intensity and frequency profile of the pulses is shown to be strong enough that they must be included in any modeling.

ARTICLES

Electronic structure and strongly correlated systems

[X-ray spectroscopic study of BaFeO₃ thin films: An Fe⁴⁺ ferromagnetic insulator](#)

T. Tsuyama, T. Matsuda, S. Chakraverty, J. Okamoto, E. Ikenaga, A. Tanaka, T. Mizokawa, H. Y. Hwang, Y. Tokura, and H. Wadati

Phys. Rev. B **91**, 115101 (2015) – Published 2 March 2015

[Nonequilibrium gap collapse near a first-order Mott transition](#)

Matteo Sandri and Michele Fabrizio

Phys. Rev. B **91**, 115102 (2015) – Published 2 March 2015

[Interplay between pair- and charge-density-wave orders in underdoped cuprates](#)

Yuxuan Wang, Daniel F. Agterberg, and Andrey Chubukov

Phys. Rev. B **91**, 115103 (2015) – Published 2 March 2015

[Diagrammatic expansion for positive density-response spectra: Application to the electron gas](#)

A.-M. Uimonen, G. Stefanucci, Y. Pavlyukh, and R. van Leeuwen

Phys. Rev. B **91**, 115104 (2015) – Published 2 March 2015

[Convergence of quasiparticle self-consistent GW calculations of transition-metal monoxides](#)

Suvadip Das, John E. Coulter, and Efstratios Manousakis

Phys. Rev. B **91**, 115105 (2015) – Published 2 March 2015

[Iterative backflow renormalization procedure for many-body ground-state wave functions of strongly interacting normal Fermi liquids](#)

Michele Taddei, Michele Ruggeri, Saverio Moroni, and Markus Holzmann

Phys. Rev. B **91**, 115106 (2015) – Published 2 March 2015

[Localization length index and subleading corrections in a Chalker-Coddington model: A numerical study](#)

W. Nuding, A. Klümper, and A. Sedrakyan

Phys. Rev. B **91**, 115107 (2015) – Published 3 March 2015

[Ultrafast electronic photoinduced phase transition in a two-dimensional charge-ordering system](#)

K. Iwano

Phys. Rev. B **91**, 115108 (2015) – Published 3 March 2015

[Probing the \$\nu=52\$ quantum Hall state with electronic Mach-Zehnder interferometry](#)

Guang Yang

Phys. Rev. B **91**, 115109 (2015) – Published 3 March 2015

[High-field ultrasound measurements in UPt₃ and the single-energy-scale model of metamagnetism](#)

B. S. Shivaram, V. W. Ulrich, Pradeep Kumar, and V. Celli

Phys. Rev. B **91**, 115110 (2015) – Published 3 March 2015

Editors' Suggestion

[Cooper pairing in non-Fermi liquids](#)

Max A. Metlitski, David F. Mross, Subir Sachdev, and T. Senthil

Phys. Rev. B **91**, 115111 (2015) – Published 4 March 2015

[Topological properties of the bond-modulated honeycomb lattice](#)

F. Grandi, F. Manghi, O. Corradini, and C. M. Bertoni

Phys. Rev. B **91**, 115112 (2015) – Published 5 March 2015

[PT-symmetry-induced wave confinement and guiding in \$\epsilon\$ -near-zero metamaterials](#)

Silvio Savoia, Giuseppe Castaldi, Vincenzo Galdi, Andrea Alù, and Nader Engheta

Phys. Rev. B **91**, 115114 (2015) – Published 5 March 2015

[Dynamical vertex approximation in its parquet implementation: Application to Hubbard nanorings](#)

A. Valli, T. Schäfer, P. Thunström, G. Rohringer, S. Andergassen, G. Sangiovanni, K. Held, and A. Toschi

Phys. Rev. B **91**, 115115 (2015) – Published 6 March 2015

[Electronic properties of \$\alpha\$ -UH₃ stabilized by Zr](#)

I. Tkach, M. Paukov, D. Drozdenko, M. Cieslar, B. Vondráčková, Z. Matěj, D. Kriegner, A.

V. Andreev, N.-T. H. Kim-Ngan, I. Turek, M. Diviš, and L. Havela

Phys. Rev. B **91**, 115116 (2015) – Published 6 March 2015

[Strongly correlated states of trapped ultracold fermions in deformed Landau levels](#)

M. Burrello, M. Rizzi, M. Roncaglia, and A. Trombettoni

Phys. Rev. B **91**, 115117 (2015) – Published 9 March 2015

[Detecting edge degeneracy in interacting topological insulators through entanglement entropy](#)

Da Wang, Shenglong Xu, Yu Wang, and Congjun Wu

Phys. Rev. B **91**, 115118 (2015) – Published 10 March 2015

[Magnetoelectric coupling in nonidentical plasmonic nanoparticles: Theory and applications](#)

R. Alaee, M. Albooyeh, M. Yazdi, N. Komjani, C. Simovski, F. Lederer, and C. Rockstuhl

Phys. Rev. B **91**, 115119 (2015) – Published 10 March 2015

[Exotic quantum phase transitions of strongly interacting topological insulators](#)

Kevin Slagle, Yi-Zhuang You, and Cenke Xu

Phys. Rev. B **91**, 115121 (2015) – Published 11 March 2015

[Exact results for itinerant ferromagnetism in a \$t_2g\$ -orbital system on cubic and square lattices](#)

Yi Li

Phys. Rev. B **91**, 115122 (2015) – Published 11 March 2015

[Higgs criticality in a two-dimensional metal](#)

Debanjan Chowdhury and Subir Sachdev

Phys. Rev. B **91**, 115123 (2015) – Published 11 March 2015

[Quantum oscillations in the Luttinger model with quadratic band touching: Applications to pyrochlore iridates](#)

Jun-Won Rhim and Yong Baek Kim

Phys. Rev. B **91**, 115124 (2015) – Published 12 March 2015

[Dilute magnetic topological semiconductors](#)

Kyoung-Min Kim, Yong-Soo Jho, and Ki-Seok Kim

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[Switchable conductivity at the ferroelectric interface: Nonpolar oxides](#)

Kurt D. Fredrickson and Alexander A. Demkov

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[Metal-to-insulator transition in \$\text{LaAl}_{1-x}\text{Cr}_x\text{O}_3/\text{SrTiO}_3\$ oxide heterostructures guided by electronic reconstruction](#)

Pramod Kumar, Prabir Pal, A. K. Shukla, J. J. Pulikkotil, and Anjana Dogra

Phys. Rev. B **91**, 115127 (2015) – Published 13 March 2015

[Generating functional approach for spontaneous coherence in semiconductor electron-hole-photon systems](#)

Makoto Yamaguchi, Ryota Nii, Kenji Kamide, Tetsuo Ogawa, and Yoshihisa Yamamoto
Phys. Rev. B **91**, 115129 (2015) – Published 16 March 2015

[Spin and thermal conductivity of quantum spin chains and ladders](#)

C. Karrasch, D. M. Kennes, and F. Heidrich-Meisner
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[Nematic fluctuations and their wave vector in two-dimensional metals](#)

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Phys. Rev. B **91**, 115131 (2015) – Published 17 March 2015

[Gap generation and phase diagram in strained graphene in a magnetic field](#)

D. O. Rybalka, E. V. Gorbar, and V. P. Gusynin
Phys. Rev. B **91**, 115132 (2015) – Published 18 March 2015

[Criticality in translation-invariant parafermion chains](#)

Wei Li, Shuo Yang, Hong-Hao Tu, and Meng Cheng
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[Condensation of collective charge ordering in chromium](#)

A. Singer, M. J. Marsh, S. H. Dietze, V. Uhlíř, Y. Li, D. A. Walko, E. M. Dufresne, G. Srajer, M. P. Cosgriff, P. G. Evans, E. E. Fullerton, and O. G. Shpyrko
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[Quantum transport in Dirac materials: Signatures of tilted and anisotropic Dirac and Weyl cones](#)

Maximilian Trescher, Björn Sbierski, Piet W. Brouwer, and Emil J. Bergholtz
Phys. Rev. B **91**, 115135 (2015) – Published 20 March 2015

[Nonmagnetic ground state in the cubic compounds PrNi₂Cd₂₀ and PrPd₂Cd₂₀](#)

D. Yazici, T. Yanagisawa, B. D. White, and M. B. Maple
Phys. Rev. B **91**, 115136 (2015) – Published 23 March 2015

[Fast convergence of imaginary time evolution tensor network algorithms by recycling the environment](#)

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Phys. Rev. B **91**, 115137 (2015) – Published 25 March 2015

[Electronic structure of Li₂RuO₃ studied by LDA and LDA+DMFT calculations and soft x-ray spectroscopy](#)

Z. V. Pchelkina, A. L. Pitman, A. Moewes, E. Z. Kurmaev, Teck-Yee Tan, D. C. Peets, Je-Geun Park, and S. V. Streltsov

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[Electronic structure of the heavy-fermion caged compound Ce₃Pd₂₀X₆ \(X=Si,Ge\) studied by density functional theory and photoelectron spectroscopy](#)

Hitoshi Yamaoka, Eike F. Schwier, Masashi Arita, Kenya Shimada, Naohito Tsujii, Ignace Jarrige, Jian Jiang, Hirokazu Hayashi, Hideaki Iwasawa, Hirofumi Namatame, Masaki Taniguchi, and Hideaki Kitazawa

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[Metal-insulator transition induced by mass imbalance in a three-component Hubbard model](#)

Duong-Bo Nguyen, Duy-Khuong Phung, Van-Nham Phan, and Minh-Tien Tran
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[Spin-orbit coupling in fluorinated graphene](#)

Susanne Irmer, Tobias Frank, Sebastian Putz, Martin Gmitra, Denis Kochan, and Jaroslav Fabian

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[Charge ordering in three-band models of the cuprates](#)

Alexandra Thomson and Subir Sachdev
Phys. Rev. B **91**, 115142 (2015) – Published 31 March 2015

[Electronic and magnetic properties of Ti₄O₇ predicted by self-interaction-corrected density functional theory](#)

X. Zhong, I. Rungger, P. Zapol, and O. Heinonen

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[Spectral functions and time evolution from the Chebyshev recursion](#)

F. Alexander Wolf, Jorge A. Justiniano, Ian P. McCulloch, and Ulrich Schollwöck

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[Identifying quantum phases from the injectivity of symmetric matrix product states](#)

Sukhwinder Singh

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Semiconductors I: bulk

Editors' Suggestion

[Dynamics of excitons bound to nitrogen isoelectronic centers in GaAs](#)

P. St-Jean, G. Éthier-Majcher, and S. Francoeur

Phys. Rev. B **91**, 115201 (2015) – Published 9 March 2015

[Stable kagome lattices from group IV elements](#)

O. Leenaerts, B. Schoeters, and B. Partoens

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[Chiral magnetic effect in a two-band lattice model of Weyl semimetal](#)

Ming-Che Chang and Min-Fong Yang

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

[Depinning transition of bubble phases in a high Landau level](#)

Xuebin Wang, Hailong Fu, Lingjie Du, Xiaoxue Liu, Pengjie Wang, L. N. Pfeiffer, K. W. West, Rui-Rui Du, and Xi Lin

Phys. Rev. B **91**, 115301 (2015) – Published 2 March 2015

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Satyaprasad P. Senanayak, A. Z. Ashar, Catherine Kanimozhi, Satish Patil, and K. S. Narayan

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[Accumulation, inversion, and depletion layers in SrTiO₃](#)

K. V. Reich, M. Schechter, and B. I. Shklovskii

Phys. Rev. B **91**, 115303 (2015) – Published 6 March 2015

Editors' Suggestion

[Nonlinear pulse propagation in InAs/InP quantum dot optical amplifiers: Rabi oscillations in the presence of nonresonant nonlinearities](#)

O. Karni, A. K. Mishra, G. Eisenstein, and J. P. Reithmaier

Phys. Rev. B **91**, 115304 (2015) – Published 9 March 2015

[Perfect magnetic mirror and simple perfect absorber in the visible spectrum](#)

C. A. Valagiannopoulos, A. Tukiainen, T. Aho, T. Niemi, M. Guina, S. A. Tretyakov, and C. R. Simovski

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[Effect of lateral electric field on the transition energies of neutral and charged excitons in In_{0.5}Ga_{0.5}As/GaAs quantum dots](#)

Toshio Saito, Toshihiro Nakaoka, and Yasuhiko Arakawa

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A. V. Trifonov, S. N. Korotan, A. S. Kurdyubov, I. Ya. Gerlovin, I. V. Ignatiev, Yu. P. Efimov, S. A. Eliseev, V. V. Petrov, Yu. K. Dolgikh, V. V. Ovsyankin, and A. V. Kavokin

Phys. Rev. B **91**, 115307 (2015) – Published 16 March 2015

[Effect of a SiO₂ layer on the thermal transport properties of <100> Si nanowires: A molecular dynamics study](#)

Tomofumi Zushi, Kenji Ohmori, Keisaku Yamada, and Takanobu Watanabe

Phys. Rev. B **91**, 115308 (2015) – Published 18 March 2015

[Visibility study of S–T+ Landau-Zener-Stückelberg oscillations without applied initialization](#)
G. Granger, G. C. Aers, S. A. Studenikin, A. Kam, P. Zawadzki, Z. R. Wasilewski, and A. S. Sachrajda
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[Mechanically encoded single-photon sources: Stress-controlled excitonic fine structures of droplet epitaxial quantum dots](#)
Shun-Jen Cheng, Yu-Huai Liao, and Pei-Yi Lin
Phys. Rev. B **91**, 115310 (2015) – Published 20 March 2015

[Off-resonant polarized light-controlled thermoelectric transport in ultrathin topological insulators](#)
M. Tahir and P. Vasilopoulos
Phys. Rev. B **91**, 115311 (2015) – Published 23 March 2015

[Ultrafast electron scattering from surface to bulk states at the InP\(100\) surface](#)
Philipp Sippel, Jodi M. Szarko, Thomas Hannappel, and Rainer Eichberger
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[Many-body effects of a two-dimensional electron gas on trion-polaritons](#)
Maarten Baeten and Michiel Wouters
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[Theory of biexcitons and biexciton-exciton cascade in graphene quantum dots](#)
Isil Ozfidan, Marek Korkusinski, and Pawel Hawrylak
Phys. Rev. B **91**, 115314 (2015) – Published 24 March 2015

[Intrinsic origin of two-dimensional electron gas at the \(001\) surface of SrTiO₃](#)
Pietro Delugas, Vincenzo Fiorentini, Alessandro Mattoni, and Alessio Filippetti
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Wei Zhang, Matthias B. Jungfleisch, Wanjun Jiang, Yaohua Liu, John E. Pearson, Suzanne G. E. te Velthuis, Axel Hoffmann, Frank Freimuth, and Yuriy Mokrousov
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[Topological magnetic crystalline insulators and corepresentation theory](#)
Rui-Xing Zhang and Chao-Xing Liu
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[Anisotropic nuclear-spin diffusion in double quantum wells](#)
T. Hatano, W. Kume, S. Watanabe, K. Akiba, K. Nagase, and Y. Hirayama
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[Polarization degenerate solid-state cavity quantum electrodynamics](#)
Morten P. Bakker, Ajit V. Barve, Thomas Ruytenberg, Wolfgang Löffler, Larry A. Coldren, Dirk Bouwmeester, and Martin P. van Exter
Phys. Rev. B **91**, 115319 (2015) – Published 31 March 2015

Surface physics, nanoscale physics, low-dimensional systems

[Friedel oscillations responsible for stacking fault of adatoms: The case of Mg\(0001\) and Be\(0001\)](#)
Marisol Alcántara Ortigoza, Maral Aminpour, and Talat S. Rahman
Phys. Rev. B **91**, 115401 (2015) – Published 2 March 2015

[Accurate surface energies from first principles](#)
Petr Lazar and Michal Otyepka
Phys. Rev. B **91**, 115402 (2015) – Published 2 March 2015

[Effects of a random gauge field on the conductivity of graphene sheets with disordered ripples](#)
Rhonald Burgos, Jesus Warnes, Leandro R. F. Lima, and Caio Lewenkopf
Phys. Rev. B **91**, 115403 (2015) – Published 2 March 2015

[Modeling the reduction of thermal conductivity in core/shell and diameter-modulated silicon nanowires](#)

Etienne Blandre, Laurent Chaput, Samy Merabia, David Lacroix, and Konstantinos Termentzidis
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[Landau quantization in graphene monolayer, Bernal bilayer, and Bernal trilayer on graphite surface](#)

Long-Jing Yin, Si-Yu Li, Jia-Bin Qiao, Jia-Cai Nie, and Lin He
Phys. Rev. B **91**, 115405 (2015) – Published 5 March 2015
[Radiative heat transfer in nonlinear Kerr media](#)

Chinmay Khandekar, Adi Pick, Steven G. Johnson, and Alejandro W. Rodriguez
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T. Stauber, D. Noriega-Pérez, and J. Schliemann
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[Generating stable tractor beams with dielectric metasurfaces](#)

Carl Pfeiffer and Anthony Grbic
Phys. Rev. B **91**, 115408 (2015) – Published 6 March 2015
[Positron states at a lithium-adsorbed Al\(100\) surface: Two-component density functional theory simulation](#)

Satoshi Hagiwara, Chunping Hu, and Kazuyuki Watanabe
Phys. Rev. B **91**, 115409 (2015) – Published 6 March 2015
[Thermoelectric effect enhanced by resonant states in graphene](#)

M. Inglot, A. Dyrdał, V. K. Dugaev, and J. Barnaś
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[Low-temperature linear transport of two-dimensional massive Dirac fermions in silicene: Residual conductivity and spin/valley Hall effects](#)

Yuan Yao, S. Y. Liu, and X. L. Lei
Phys. Rev. B **91**, 115411 (2015) – Published 10 March 2015
[Modulation of electronic and mechanical properties of phosphorene through strain](#)

Mohammad Elahi, Kaveh Khaliji, Seyed Mohammad Tabatabaei, Mahdi Pourfath, and Reza Asgari
Phys. Rev. B **91**, 115412 (2015) – Published 10 March 2015
[Simulated scanning tunneling microscopy images of few-layer phosphorus capped by graphene and hexagonal boron nitride monolayers](#)

Pablo Rivero, Cedric M. Horvath, Zhen Zhu, Jie Guan, David Tománek, and Salvador Barraza-Lopez
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[Thermal conductance of strongly bonded metal-oxide interfaces](#)

R. B. Wilson, Brent A. Apgar, Wen-Pin Hsieh, Lane W. Martin, and David G. Cahill
Phys. Rev. B **91**, 115414 (2015) – Published 11 March 2015
[Flat Majorana bands in two-dimensional lattices with inhomogeneous magnetic fields: Topology and stability](#)

N. Sedlmayr, J. M. Aguiar-Hualde, and C. Bena
Phys. Rev. B **91**, 115415 (2015) – Published 11 March 2015
[Hydrodynamic theory for quantum plasmonics: Linear-response dynamics of the inhomogeneous electron gas](#)

Wei Yan
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[Efficiency fluctuations in quantum thermoelectric devices](#)

Massimiliano Esposito, Maicol A. Ochoa, and Michael Galperin
Phys. Rev. B **91**, 115417 (2015) – Published 12 March 2015
[X-ray standing wave study of Si clusters on a decagonal Al-Co-Ni quasicrystal surface](#)

D. P. Woodruff, J. Ledieu, K. R. J. Lovelock, Robert G. Jones, A. Deyko, L. H. Wearing, R. McGrath, A. Chaudhuri, H. I. Li, S. Y. Su, A. Mayer, N. A. Stanisha, and R. D. Diehl
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[Graphene on weakly interacting metals: Dirac states versus surface states](#)
Wouter Jolie, Fabian Craes, and Carsten Busse
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[Tuning the spin signal from a highly symmetric unpolarized electronic state](#)
H. Wortelen, H. Mirhosseini, K. Miyamoto, A. B. Schmidt, J. Henk, and M. Donath
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[Optical spectral weight: Comparison of weak and strong spin-orbit coupling](#)
Zhou Li and J. P. Carbotte
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Mohamed Assili, Sonia Haddad, and Woun Kang
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[Graphene on graphene antidot lattices: Electronic and transport properties](#)
Søren Schou Gregersen, Jesper Goor Pedersen, Stephen R. Power, and Antti-Pekka Jauho
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[Finding the quantum thermoelectric with maximal efficiency and minimal entropy production at given power output](#)
Robert S. Whitney
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[Frequency-dependent phonon mean free path in carbon nanotubes from nonequilibrium molecular dynamics](#)
K. Sääskilähti, J. Oksanen, S. Volz, and J. Tulkki
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[Fractional shot noise in partially gapped Tomonaga-Luttinger liquids](#)
Eyal Cornfeld, Izhar Neder, and Eran Sela
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[Edge configurational effect on band gaps in graphene nanoribbons](#)
Deepika, T. J. Dhilip Kumar, Alok Shukla, and Rakesh Kumar
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[Exact Green's function for a multiorbital Anderson impurity at high bias voltages](#)
Akira Oguri and Rui Sakano
Phys. Rev. B **91**, 115429 (2015) – Published 24 March 2015

[Polarization rotation by an rf-SQUID metasurface](#)
J.-G. Caputo, I. Gabbitov, and A. I. Maimistov
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[Localized surface plasmon resonance in silver nanoparticles: Atomistic first-principles time-dependent density-functional theory calculations](#)
M. Kuisma, A. Sakko, T. P. Rossi, A. H. Larsen, J. Enkovaara, L. Lehtovaara, and T. T. Rantala
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[Chemically functionalized magnetic exchange interactions of hybrid organic-ferromagnetic metal interfaces](#)
Rico Friedrich, Vasile Caciuc, Nikolai S. Kiselev, Nicolae Atodiresei, and Stefan Blügel
Phys. Rev. B **91**, 115432 (2015) – Published 25 March 2015

[Electric field induced gap modification in ultrathin blue phosphorus](#)
Barun Ghosh, Suhas Nahas, Somnath Bhowmick, and Amit Agarwal
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Klaus Wittmaack
Phys. Rev. B **91**, 115434 (2015) – Published 26 March 2015

[Interaction effects on a Majorana zero mode leaking into a quantum dot](#)

David A. Ruiz-Tijerina, E. Vernek, Luis G. G. V. Dias da Silva, and J. C. Egues
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[Transport and optical properties of single- and bilayer black phosphorus with defects](#)

Shengjun Yuan, A. N. Rudenko, and M. I. Katsnelson
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[Exciton binding energies and luminescence of phosphorene under pressure](#)

L. Seixas, A. S. Rodin, A. Carvalho, and A. H. Castro Neto
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[Interference and multiparticle effects in a Mach-Zehnder interferometer with single-particle sources](#)

Guillem Rosselló, Francesca Battista, Michael Moskalets, and Janine Splettstoesser
Phys. Rev. B **91**, 115438 (2015) – Published 27 March 2015

[Tuning antiferromagnetism of vacancies with magnetic fields in graphene nanoflakes](#)

Matthias Droth and Guido Burkard
Phys. Rev. B **91**, 115439 (2015) – Published 30 March 2015

[Aharonov-Bohm oscillations and electron gas transitions in hexagonal core-shell nanowires with an axial magnetic field](#)

Miquel Royo, Carlos Segarra, Andrea Bertoni, Guido Goldoni, and Josep Planelles
Phys. Rev. B **91**, 115440 (2015) – Published 30 March 2015

[Measuring the local quantum capacitance of graphene using a strongly coupled graphene nanoribbon](#)

D. Bischoff, M. Eich, A. Varlet, P. Simonet, T. Ihn, and K. Ensslin
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