



Schematic of two optically coupled optomechanical oscillators consisting of two vertically stacked, suspended Si_3N_4 disks. The arrows indicate oscillation, and the rectangle highlights the region of evanescent optical coupling. Selected for an Editors' Suggestion. [Mian Zhang, Gustavo S. Wiederhecker, Sasikanth Manipatruni, Arthur Barnard, Paul McEuen, and Michal Lipson, Phys. Rev. Lett., **109**, 233906 (2012)]

PHYSICAL REVIEW LETTERS™

Contents

Articles published 1 December–7 December 2012

VOLUME 109, NUMBER 23

7 December 2012

General Physics: Statistical and Quantum Mechanics, Quantum Information, etc.

	Semistochastic Projector Monte Carlo Method	230201
	F.R. Petruzielo, A.A. Holmes, Hitesh J. Changlani, M.P. Nightingale, and C.J. Umrigar	
	Observation of Free-Space Single-Atom Matter Wave Interference	230401
	L. P. Parazzoli, A.M. Hankin, and G.W. Biedermann	
	Weak Values are Universal in Von Neumann Measurements	230402
	Justin Dressel and Andrew N. Jordan	
	Anisotropic Polarizability of Ultracold Polar $^{40}\text{K}^{87}\text{Rb}$ Molecules	230403
	B. Neyenhuis, B. Yan, S.A. Moses, J.P. Covey, A. Chotia, A. Petrov, S. Kotochigova, J. Ye, and D.S. Jin	
	Universal Four-Body States in Heavy-Light Mixtures with a Positive Scattering Length	230404
	D. Blume	
	Mixed-State Evolution in the Presence of Gain and Loss	230405
	Dorje C. Brody and Eva-Maria Graefe	
	Steady-State Many-Body Entanglement of Hot Reactive Fermions	230501
	Michael Foss-Feig, Andrew J. Daley, James K. Thompson, and Ana Maria Rey	
	Continuous-Variable Blind Quantum Computation	230502
	Tomoyuki Morimae	
	Positive Wigner Functions Render Classical Simulation of Quantum Computation Efficient	230503
	A. Mari and J. Eisert	
	Nonequilibrium Phase Transitions in Systems with Long-Range Interactions	230601
	Tarcísio N. Teles, Fernanda P. da C. Benetti, Renato Pakter, and Yan Levin	
	Comparison of Two Independent Sr Optical Clocks with 1×10^{-17} Stability at 10^3 s	230801
	T.L. Nicholson, M.J. Martin, J.R. Williams, B.J. Bloom, M. Bishof, M.D. Swallows, S.L. Campbell, and J. Ye	
	Ytterbium in Quantum Gases and Atomic Clocks: van der Waals Interactions and Blackbody Shifts	230802
	M.S. Safronova, S.G. Porsev, and Charles W. Clark	

Gravitation and Astrophysics

	Possible Daily and Seasonal Variations in Quantum Interference Induced by Chern-Simons Gravity	231101
	Hiroki Okawara, Kei Yamada, and Hideki Asada	
	Construction of Solar-Wind-Like Magnetic Fields	231102
	D. Aaron Roberts	
	Is Dark Matter with Long-Range Interactions a Solution to All Small-Scale Problems of A Cold Dark Matter Cosmology?	231301
	Laura G. van den Aarssen, Torsten Bringmann, and Christoph Pfrommer	

(Continued Inside)

Selected for a Viewpoint in *Physics*. Please visit <http://physics.aps.org/>.

By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. Lett. 98, 010001 (2007).



Elementary Particles and Fields

Compressible Matter at a Holographic Interface	231601
Moshe Rozali	
Measurements of B_c^+ Production and Mass with the $B_c^+ \rightarrow J/\psi \pi^+$ Decay	232001
R. Aaij <i>et al.</i> (LHCb Collaboration)	
Evidence for the $\eta_b(2S)$ and Observation of $h_b(1P) \rightarrow \eta_b(1S)\gamma$ and $h_b(2P) \rightarrow \eta_b(1S)\gamma$	232002
R. Mizuk <i>et al.</i> (Belle Collaboration)	

Nuclear Physics

Chiral Anomaly and Local Polarization Effect from the Quantum Kinetic Approach	232301
Jian-Hua Gao, Zuo-Tang Liang, Shi Pu, Qun Wang, and Xin-Nian Wang	
Unresolved Question of the ^{10}He Ground State Resonance	232501
Z. Kohley, J. Snyder, T. Baumann, G. Christian, P.A. DeYoung, J.E. Finck, R.A. Haring-Kaye, M. Jones, E. Lunderberg, B. Luther, S. Mosby, A. Simon, J.K. Smith, A. Spyrou, S.L. Stephenson, and M. Thoennessen	
Interplay Between Valence and Core Excitation Mechanisms in the Breakup of Halo Nuclei	232502
A.M. Moro and J.A. Lay	
Existence of an Exotic Torus Configuration in High-Spin Excited States of ^{40}Ca	232503
T. Ichikawa, J.A. Maruhn, N. Itagaki, K. Matsuyanagi, P.-G. Reinhard, and S. Ohkubo	
Measurement of the -3 keV Resonance in the Reaction $^{13}\text{C}(\alpha, n)^{16}\text{O}$ of Importance in the s -Process	232701
M. La Cognata, C. Spitaleri, O. Trippella, G.G. Kiss, G.V. Rogachev, A.M. Mukhamedzhanov, M. Avila, G.L. Guardo, E. Koshchiy, A. Kuchera, L. Lamia, S.M. Puglia, S. Romano, D. Santiago, and R. Sparta	

Atomic, Molecular, and Optical Physics

Maximal Refraction and Superluminal Propagation in a Gaseous Nanolayer	233001
J. Keaveney, I.G. Hughes, A. Sargsyan, D. Sarkisyan, and C.S. Adams	
Laser-Induced Electron Diffraction for Probing Rare Gas Atoms	233002
Junliang Xu, Cosmin I. Blaga, Anthony D. DiChiara, Emily Sistrunk, Kaikai Zhang, Zhangjin Chen, Anh-Thu Le, Toru Morishita, C.D. Lin, Pierre Agostini, and Louis F. DiMauro	
Dissipative Binding of Lattice Bosons through Distance-Selective Pair Loss	233003
C. Ates, B. Olmos, W. Li, and I. Lesanovsky	
Single Ions Trapped in a One-Dimensional Optical Lattice	233004
Martin Enderlein, Thomas Huber, Christian Schneider, and Tobias Schaetz	
Pinning an Ion with an Intracavity Optical Lattice	233005
Rasmus B. Linnet, Ian D. Leroux, Mathieu Marcianti, Aurélien Dantan, and Michael Drewsen	
Coherence-Assisted Resonance with Sub-Transit-Limited Linewidth	233006
Lei Feng, Pengxiong Li, Liang Jiang, Jianming Wen, and Yanhong Xiao	
Zero-Energy Resonances of Hydrogen Diatom Isotopologs: Tuning Quasiresonant Transitions in Vibration Space	233201
Benhui Yang, R.C. Forrey, P.C. Stancil, S. Fonseca dos Santos, and N. Balakrishnan	
Millikelvin Reactive Collisions between Sympathetically Cooled Molecular Ions and Laser-Cooled Atoms in an Ion-Atom Hybrid Trap	233202
Felix H. Hall and Stefan Willitsch	
Van der Waals Coefficients for Nanostructures: Fullerenes Defy Conventional Wisdom	233203
Adrienn Ruzsinszky, John P. Perdew, Jianmin Tao, Gábor I. Csonka, and J.M. Pitarke	
Quantum Metrology in Non-Markovian Environments	233601
Alex W. Chin, Susana F. Huelga, and Martin B. Plenio	
Observation and Measurement of Interaction-Induced Dispersive Optical Nonlinearities in an Ensemble of Cold Rydberg Atoms	233602
Valentina Parigi, Erwan Bimbard, Jovica Stanojevic, Andrew J. Hilliard, Florence Nogrette, Rosa Tualle-Brouiri, Alexei Ourjoumtsev, and Philippe Grangier	
Superresolving Multiphoton Interferences with Independent Light Sources	233603
S. Oppel, T. Büttner, P. Kok, and J. von Zanthier	

(Continued on Preceding Page)



Selected for a Viewpoint in *Physics*. Please visit <http://physics.aps.org/>.

By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. Lett. 98, 010001 (2007).

Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc.

Low-Pump-Power, Low-Phase-Noise, and Microwave to Millimeter-Wave Repetition Rate Operation in Microcombs Jiang Li, Hansuek Lee, Tong Chen, and Kerry J. Vahala	233901
Quantitative Experimental Determination of Scattering and Absorption Cross-Section Spectra of Individual Optical Metallic Nanoantennas Martin Husnik, Stefan Linden, Richard Diehl, Jens Niegemann, Kurt Busch, and Martin Wegener	233902
High-Harmonic Spectroscopy of Oriented OCS Molecules: Emission of Even and Odd Harmonics P.M. Kraus, A. Rupenyan, and H.J. Wörner	233903
Probing Polar Molecules with High Harmonic Spectroscopy E. Frumker, N. Kajumba, J.B. Bertrand, H.J. Wörner, C.T. Hebeisen, P. Hockett, M. Spanner, S. Patchkovskii, G.G. Paulus, D.M. Villeneuve, A. Naumov, and P.B. Corkum	233904
Dissociative X-ray Lasing Q. Miao, J.-C. Liu, H. Ågren, J.-E. Rubensson, and F. Gel'mukhanov	233905
🎧 Synchronization of Micromechanical Oscillators Using Light Mian Zhang, Gustavo S. Wiederhecker, Sasikanth Manipatruni, Arthur Barnard, Paul McEuen, and Michal Lipson	233906
X-ray Waveguide Mode in Resonance with a Periodic Structure K. Okamoto, T. Noma, A. Komoto, W. Kubo, M. Takahashi, A. Iida, and H. Miyata	233907
Universal Quantum Localizing Transition of a Partial Barrier in a Chaotic Sea Matthias Michler, Arnd Bäcker, Roland Ketzmerick, Hans-Jürgen Stöckmann, and Steven Tomsovic	234101
New Approach to Resonance Crossing G. Franchetti and F. Zimmermann	234102

Plasma and Beam Physics

Laser-Driven Proton Acceleration Enhancement by Nanostructured Foils D. Margarone, O. Klimo, I.J. Kim, J. Prokūpek, J. Limpouch, T.M. Jeong, T. Mocek, J. Pšikal, H.T. Kim, J. Proška, K. H Nam, L. Štolcová, I.W. Choi, S.K. Lee, J.H. Sung, T.J. Yu, and G. Korn	234801
Woltjer-Taylor State without Taylor's Conjecture: Plasma Relaxation at all Wavelengths Hong Qin, Wandong Liu, Hong Li, and Jonathan Squire	235001
🎧 Long-Range Correlations and Coherent Structures in Magnetohydrodynamic Equilibria Peter B. Weichman	235002
Locality and Universality in Gyrokinetic Turbulence Bogdan Teaca, Alejandro Bañón Navarro, Frank Jenko, Stephan Brunner, and Laurent Villard	235003

Condensed Matter: Structure, etc.

Dynamics of Single Neutral Impurity Atoms Immersed in an Ultracold Gas Nicolas Spethmann, Farina Kindermann, Shincy John, Claudia Weber, Dieter Meschede, and Artur Wiedera	235301
Nontrivial Haldane Phase of an Atomic Two-Component Fermi Gas Trapped in a 1D Optical Lattice Keita Kobayashi, Masahiko Okumura, Yukihiro Ota, Susumu Yamada, and Masahiko Machida	235302
Signatures of Fermion Pairing with Unconventional Symmetry Around the BCS-BEC Crossover in a Quasi-2D Lattice Dušan Volčko and Khandker F. Quader	235303
Mott Criticality and Pseudogap in Bose-Fermi Mixtures Ehud Altman, Eugene Demler, and Achim Rosch	235304
Super-Tonks-Girardeau State in an Attractive One-Dimensional Dipolar Gas M.D. Girardeau and G.E. Astrakharchik	235305
🎧 Observation of Self-Binding in Monolayer ^3He D. Sato, K. Naruse, T. Matsui, and Hiroshi Fukuyama	235306
Excitations and Stripe Phase Formation in a Two-Dimensional Dipolar Bose Gas with Tilted Polarization A. Macia, D. Hufnagl, F. Mazzanti, J. Boronat, and R.E. Zillich	235307
SU(3) Spin-Orbit Coupling in Systems of Ultracold Atoms Ryan Barnett, G.R. Boyd, and Victor Galitski	235308
🎧 Nanoplasmonic Lattices for Ultracold Atoms M. Gullans, T.G. Tiecke, D.E. Chang, J. Feist, J.D. Thompson, J.I. Cirac, P. Zoller, and M.D. Lukin	235309

(Continued on Preceding Page)



Selected for a Viewpoint in *Physics*. Please visit <http://physics.aps.org/>.

By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. Lett. 98, 010001 (2007).

Contents (Continued)

Structural Transformations on Vitrification in the Fragile Glass-Forming System CaAl_2O_4	235501
James W. Drewitt, Louis Hennet, Anita Zeidler, Sandro Jahn, Philip S. Salmon, Daniel R. Neuville, and Henry E. Fischer	
Step-Edge-Induced Oxide Growth During the Oxidation of Cu Surfaces	235502
Guangwen Zhou, Langli Luo, Liang Li, Jim Ciston, Eric A. Stach, and Judith C. Yang	
Contact Angles on a Soft Solid: From Young's Law to Neumann's Law	236101
Antonin Marchand, Siddhartha Das, Jacco H. Snoeijer, and Bruno Andreotti	
Universal Phase Diagram for Wetting on Mesoscale Roughness	236102
S. Herminghaus	
Condensed Matter: Electronic Properties, etc.	
Commensurability Oscillations of Hole-Flux Composite Fermions	236401
D. Kamburov, M. Shayegan, L.N. Pfeiffer, K.W. West, and K.W. Baldwin	
Relaxation Dynamics of the Holstein Polaron	236402
Denis Golež, Janez Bonča, Lev Vidmar, and Stuart A. Trugman	
Fermi Surface Topology of LaFePO and LiFeP	236403
Johannes Ferber, Harald O. Jeschke, and Roser Valentí	
Nonlocal Order Parameters for the 1D Hubbard Model	236404
Arianna Montorsi and Marco Roncaglia	
Charge-Doping-Driven Evolution of Magnetism and Non-Fermi-Liquid Behavior in the Filled Skutterudite $\text{CePt}_4\text{Ge}_{12-x}\text{Sb}_x$	236405
M. Nicklas, S. Kirchner, R. Borth, R. Gumeniuk, W. Schnelle, H. Rosner, H. Borrmann, A. Leithe-Jasper, Yu. Grin, and F. Steglich	
First-Principles Calculation of the Bulk Photovoltaic Effect in Bismuth Ferrite	236601
Steve M. Young, Fan Zheng, and Andrew M. Rappe	
Energy-Driven Drag at Charge Neutrality in Graphene	236602
Justin C. Song and Leonid S. Levitov	
Anisotropy of Spin Relaxation in Metals	236603
Bernd Zimmermann, Phivos Mavropoulos, Swantje Heers, Nguyen H. Long, Stefan Blügel, and Yuriy Mokrousov	
Phonon-Mediated Interlayer Conductance in Twisted Graphene Bilayers	236604
V. Perebeinos, J. Tersoff, and Ph. Avouris	
Transition from Fractional to Majorana Fermions in Rashba Nanowires	236801
Jelena Klinovaja, Peter Stano, and Daniel Loss	
Evidence for Reentrant Melting in a Quasi-One-Dimensional Wigner Crystal	236802
Hiroki Ikegami, Hikota Akimoto, David G. Rees, and Kimitoshi Kono	
Dynamical Self-Quenching of Spin Pumping into Double Quantum Dots	236803
Arne Brataas and Emmanuel I. Rashba	
Manipulation of Topological States and the Bulk Band Gap Using Natural Heterostructures of a Topological Insulator	236804
K. Nakayama, K. Eto, Y. Tanaka, T. Sato, S. Souma, T. Takahashi, Kouji Segawa, and Yoichi Ando	
Suppression of Zeeman Gradients by Nuclear Polarization in Double Quantum Dots	236805
S.M. Frolov, J. Danon, S. Nadj-Perge, K. Zuo, J.W. van Tilburg, V.S. Pribiag, J.W. van den Berg, E.P. Bakkers, and L.P. Kouwenhoven	
 Quantized Casimir Force	236806
Wang-Kong Tse and A.H. MacDonald	
Observation of the Meissner-Ochsenfeld Effect and the Absence of the Meissner State in UCoGe	237001
C. Paulsen, D.J. Hykel, K. Hasselbach, and D. Aoki	
Vanishing Meissner effect as a Hallmark of in-Plane Fulde-Ferrell-Larkin-Ovchinnikov Instability in Superconductor-Ferromagnet Layered Systems	237002
S. Mironov, A. Mel'nikov, and A. Buzdin	
Topological Superconducting State of Lead Nanowires in an External Magnetic Field	237003
J.G. Rodrigo, V. Crespo, H. Suderow, S. Vieira, and F. Guinea	

(Continued on Preceding Page)



Selected for a Viewpoint in *Physics*. Please visit <http://physics.aps.org/>.

By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. Lett. 98, 010001 (2007).

Contents (Continued)

Microscopic Model of Quasiparticle Wave Packets in Superfluids, Superconductors, and Paired Hall States	237004
S.A. Parameswaran, S.A. Kivelson, R. Shankar, S.L. Sondhi, and B.Z. Spivak	
Tailoring Population Inversion in Landau-Zener-Stückelberg Interferometry of Flux Qubits	237005
Alejandro Ferrón, Daniel Domínguez, and María José Sánchez	
Interference Phenomena and Long-Range Proximity Effect in Clean Superconductor-Ferromagnet Systems	237006
A.S. Mel'nikov, A.V. Samokhvalov, S.M. Kuznetsova, and A.I. Buzdin	
Model for Magnetic Flux Patterns Induced by the Influence of In-Plane Magnetic Fields on Spatially Inhomogeneous Superconducting Interfaces of $\text{LaAlO}_3\text{-SrTiO}_3$ Bilayers	237007
Kazushi Aoyama and Manfred Sigrist	
Pressure- and Composition-Induced Structural Quantum Phase Transition in the Cubic Superconductor (Sr, Ca) $_3\text{Ir}_4\text{Sn}_{13}$	237008
Lina E. Klintberg, Swee K. Goh, Patricia L. Alireza, Paul J. Saines, David A. Tompsett, Peter W. Logg, Jinhu Yang, Bin Chen, Kazuyoshi Yoshimura, and F. Malte Grosche	
Stabilization of Majorana Modes in Magnetic Vortices in the Superconducting Phase of Topological Insulators using Topologically Trivial Bands	237009
Ching-Kai Chiu, Pouyan Ghaemi, and Taylor L. Hughes	
Many-Body Effects in Iron Pnictides and Chalcogenides: Nonlocal Versus Dynamic Origin of Effective Masses	237010
Jan M. Tomczak, M. van Schilfhaarde, and G. Kotliar	
Evidence for a $\cos(4\varphi)$ Modulation of the Superconducting Energy Gap of Optimally Doped $\text{FeTe}_{0.6}\text{Se}_{0.4}$ Single Crystals Using Laser Angle-Resolved Photoemission Spectroscopy	237011
K. Okazaki, Y. Ito, Y. Ota, Y. Kotani, T. Shimojima, T. Kiss, S. Watanabe, C.-T. Chen, S. Niitaka, T. Hanaguri, H. Takagi, A. Chainani, and S. Shin	
Noncollinear Magnetic Order Stabilized by Entangled Spin-Orbital Fluctuations	237201
Wojciech Brzezicki, Jacek Dziarmaga, and Andrzej M. Oleś	
Ground State in a Half-Doped Manganite Distinguished by Neutron Spectroscopy	237202
G.E. Johnstone, T.G. Perring, O. Sikora, D. Prabhakaran, and A.T. Boothroyd	
Fluctuation-Induced Magnetization Dynamics and Criticality at the Interface of a Topological Insulator with a Magnetically Ordered Layer	237203
Flavio S. Nogueira and Ilya Eremin	
Thermoelectric Detection of Spin Waves	237204
H. Schultheiss, J.E. Pearson, S.D. Bader, and A. Hoffmann	
Emergent Critical Phase and Ricci Flow in a 2D Frustrated Heisenberg Model	237205
Peter P. Orth, Premala Chandra, Piers Coleman, and Jörg Schmalian	
Spin-Transfer and Exchange Torques in Ferromagnetic Superconductors	237206
Jacob Linder, Arne Brataas, Zahra Shomali, and Malek Zareyan	
Dirac Half-Metal in a Triangular Ferrimagnet	237207
Hiroaki Ishizuka and Yukitoshi Motome	
Entanglement Spectrum, Critical Exponents, and Order Parameters in Quantum Spin Chains	237208
G. De Chiara, L. Lepori, M. Lewenstein, and A. Sanpera	
Switching Behaviors and its Dynamics of a Co/Pt Nanodot Under the Assistance of rf Fields	237209
Satoshi Okamoto, Nobuaki Kikuchi, Masaki Furuta, Osamu Kitakami, and Takehito Shimatsu	
Evidence for Three Fluctuation Channels in the Spin Resonance of the Unconventional Superconductor CeCoIn_5 ...	237210
S. Raymond, K. Kaneko, A. Hiess, P. Steffens, and G. Lapertot	
Epsilon-Near-Zero Mode for Active Optoelectronic Devices	237401
S. Vassant, A. Archambault, F. Marquier, F. Pardo, U. Gennser, A. Cavanna, J.L. Pelouard, and J.J. Greffet	
Switching Reciprocity On and Off in a Magneto-Optical X-Ray Scattering Experiment Using Nuclear Resonance of $\alpha\text{-}^{57}\text{Fe}$ Foils	237402
L. Deák, L. Bottyán, T. Fülöp, G. Kertész, D.L. Nagy, R. Rüffer, H. Spiering, F. Tanczikó, and G. Vankó	
Spin-Echo Dynamics of a Heavy Hole in a Quantum Dot	237601
Xiaoya Judy Wang, Stefano Chesi, and W.A. Coish	

(Continued on Preceding Page)



Selected for a Viewpoint in *Physics*. Please visit <http://physics.aps.org/>.

By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. Lett. 98, 010001 (2007).

Soft Matter, Biological, and Interdisciplinary Physics

Interdependence of the Volume and Stress Ensembles and Equipartition in Statistical Mechanics of Granular Systems	238001
Raphael Blumenfeld, Joe F. Jordan, and Sam F. Edwards	
Actively Stressed Marginal Networks	238101
M. Sheinman, C.P. Broedersz, and F.C. MacKintosh	
Selectivity of Ligand-Receptor Interactions between Nanoparticle and Cell Surfaces	238102
Shihu Wang and Elena E. Dormidontova	
Enhancing the Resolution of a Sensor Via Negative Correlation: A Biologically Inspired Approach	238103
Alexander P. Nikitin, Nigel G. Stocks, and Adi R. Bulsara	
Bipedal Nanowalker by Pure Physical Mechanisms	238104
Juan Cheng, Sarangapani Sreelatha, Ruizheng Hou, Artem Efremov, Ruchuan Liu, Johan R.C. van der Maarel, and Zhisong Wang	
Telechelic Star Polymers as Self-Assembling Units from the Molecular to the Macroscopic Scale	238301
Barbara Capone, Ivan Coluzza, Federica LoVerso, Christos N. Likos, and Ronald Blaak	
 Particle Scale Dynamics in Granular Impact	238302
Abram H. Clark, Lou Kondic, and Robert P. Behringer	
Random Walks and Search in Time-Varying Networks	238701
Nicola Perra, Andrea Baronchelli, Delia Mocanu, Bruno Gonçalves, Romualdo Pastor-Satorras, and Alessandro Vespignani	
Comments	
Comment on “First Observation of Ground State Dineutron Decay: ^{16}Be ”	239201
F.M. Marqués, N.A. Orr, N.L. Achouri, F. Delaunay, and J. Gibelin	
Spyrou <i>et al.</i> Replies	239202
A. Spyrou, Z. Kohley, T. Baumann, D. Bazin, B.A. Brown, G. Christian, P.A. DeYoung, J.E. Finck, N. Frank, E. Lunderberg, S. Mosby, W.A. Peters, A. Schiller, J.K. Smith, J. Snyder, M.J. Strongman, M. Thoennessen, and A. Volya	



Selected for a Viewpoint in *Physics*. Please visit <http://physics.aps.org/>.

By suggesting a few manuscripts each week, we hope to promote reading across fields. Please see our Announcement Phys. Rev. Lett. 98, 010001 (2007).

Physics
spotlighting exceptional research

The American Physical Society’s free online publication, *Physics* (<http://physics.aps.org/>), provides thought-provoking analysis and spotlights exceptional research.