



Superimposed photograph of a stretched looped elastic ribbon during its pop-out shape transition. Selected for an Editors' Suggestion and a Synopsis in *Physics*. [Y. Morigaki, H. Wada, and Y. Tanaka, *Phys. Rev. Lett.* **117**, 198003 (2016)]

NEWSPAPER

PHYSICAL REVIEW LETTERS

Contents

Articles published 29 October–4 November 2016

VOLUME 117, NUMBER 19

4 November 2016

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

General Method for Constructing Local Hidden Variable Models for Entangled Quantum States	190401
D. Cavalcanti, L. Guerini, R. Rabelo, and P. Skrzypczyk	
Algorithmic Construction of Local Hidden Variable Models for Entangled Quantum States	190402
Flavien Hirsch, Marco Túlio Quintino, Tamás Vértesi, Matthew F. Pusey, and Nicolas Brunner	
Measurement-Device-Independent Quantum Key Distribution Over a 404 km Optical Fiber	190501
Hua-Lei Yin, Teng-Yun Chen, Zong-Wen Yu, Hui Liu, Li-Xing You, Yi-Heng Zhou, Si-Jing Chen, Yingqiu Mao, Ming-Qi Huang, Wei-Jun Zhang, Hao Chen, Ming Jun Li, Daniel Nolan, Fei Zhou, Xiao Jiang, Zhen Wang, Qiang Zhang, Xiang-Bin Wang, and Jian-Wei Pan	
Quantifying Entanglement of Maximal Dimension in Bipartite Mixed States	190502
Gael Sentís, Christopher Eltschka, Otfried Gühne, Marcus Huber, and Jens Siewert	
Measurement-Induced State Transitions in a Superconducting Qubit: Beyond the Rotating Wave Approximation	190503
Daniel Sank, Zijun Chen, Mostafa Khezri, J. Kelly, R. Barends, B. Campbell, Y. Chen, B. Chiaro, A. Dunsworth, A. Fowler, E. Jeffrey, E. Lucero, A. Megrant, J. Mutus, M. Neeley, C. Neill, P. J. J. O'Malley, C. Quintana, P. Roushan, A. Vainsencher, T. White, J. Wenner, Alexander N. Korotkov, and John M. Martinis	
Universal Trade-Off Relation between Power and Efficiency for Heat Engines	190601
Naoto Shiraishi, Keiji Saito, and Hal Tasaki	
Equilibration via Gaussification in Fermionic Lattice Systems	190602
M. Gluza, C. Krumnow, M. Friesdorf, C. Gogolin, and J. Eisert	
Far-Field Superresolution of Thermal Electromagnetic Sources at the Quantum Limit	190801
Ranjith Nair and Mankei Tsang	
Ultimate Precision Bound of Quantum and Subwavelength Imaging	190802
Cosmo Lupo and Stefano Pirandola	

Gravitation and Astrophysics

Redshift Factor and the First Law of Binary Black Hole Mechanics in Numerical Simulations	191101
Aaron Zimmerman, Adam G. M. Lewis, and Harald P. Pfeiffer	

Elementary Particles and Fields

Branes in Extended Spacetime: Brane Worldvolume Theory Based on Duality Symmetry	191601
Yuho Sakatani and Shozo Uehara	
Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory	192001
A. Aab <i>et al.</i> (Pierre Auger Collaboration)	

Nuclear Physics

Vortical Fluid and Λ Spin Correlations in High-Energy Heavy-Ion Collisions	192301
Long-gang Pang, Hannah Petersen, Qun Wang, and Xin-Nian Wang	

(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).

Copyright 2016 American Physical Society



0031-9007(20161104)117:19;1-8

Pairing Phase Transitions of Matter under Rotation	192302
Yin Jiang and Jinfeng Liao	
Measurement of Coherent π^+ Production in Low Energy Neutrino-Carbon Scattering	192501
K. Abe <i>et al.</i> (The T2K Collaboration)	
Atomic, Molecular, and Optical Physics	
Exact Factorization-Based Density Functional Theory of Electrons and Nuclei	193001
Ryan Requist and E. K. U. Gross	
Quantum Domain Walls Induce Incommensurate Supersolid Phase on the Anisotropic Triangular Lattice	193201
Xue-Feng Zhang (张学锋), Shijie Hu (胡时杰), Axel Pelster, and Sebastian Eggert	
Suppression of Emittance Growth Using a Shaped Cold Atom Electron and Ion Source	193202
D. J. Thompson, D. Murphy, R. W. Speirs, R. M. W. van Bijnen, A. J. McCulloch, R. E. Scholten, and B. M. Sparkes	
Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc.	
Metawaveguide for Asymmetric Interferometric Light-Light Switching	193901
Han Zhao, William S. Fegadolli, Jiakai Yu, Zhifeng Zhang, Li Ge, Axel Scherer, and Liang Feng	
Laser Particle Stimulated Emission Microscopy	193902
Sangyeon Cho, Matjaž Humar, Nicola Martino, and Seok Hyun Yun	
Condensed Matter: Structure, etc.	
Anomalous Damping of a Microelectromechanical Oscillator in Superfluid $^3\text{He-B}$	195301
P. Zheng, W. G. Jiang, C. S. Barquist, Y. Lee, and H. B. Chan	
Dynamics of Interacting Fermions in Spin-Dependent Potentials	195302
Andrew P. Koller, Michael L. Wall, Josh Munding, and Ana Maria Rey	
Thermal Mode Spectroscopy for Thermal Diffusivity of Millimeter-Size Solids	195901
Hirosugu Ogi, Tatsuya Ishihara, Hideshi Ishida, Akira Nagakubo, Nobutomo Nakamura, and Masahiko Hirao	
Energy Dissipation during Diffusion at Metal Surfaces: Disentangling the Role of Phonons versus Electron-Hole Pairs	196001
Simon P. Rittmeyer, David J. Ward, Patrick Gütlein, John Ellis, William Allison, and Karsten Reuter	
Condensed Matter: Electronic Properties, etc.	
Sinai Diffusion at Quasi-1D Topological Phase Transitions	196801
Dmitry Bagrets, Alexander Altland, and Alex Kamenev	
Artificially Constructed Plasmarons and Plasmon-Exciton Molecules in 2D Metals	196802
A. S. Zhuravlev, V. A. Kuznetsov, L. V. Kulik, V. E. Bisti, V. E. Kirpichev, I. V. Kukushkin, and S. Schmelt	
Edge Plasmons in Two-Component Electron Liquids in the Presence of Pseudomagnetic Fields	196803
Alessandro Principi, Mikhail I. Katsnelson, and Giovanni Vignale	
Hidden Fermi-liquid Charge Transport in the Antiferromagnetic Phase of the Electron-Doped Cuprate Superconductors	197001
Yangmu Li, W. Tabis, G. Yu, N. Barišić, and M. Greven	
Terahertz-Driven Nonlinear Spin Response of Antiferromagnetic Nickel Oxide	197201
S. Baierl, J. H. Mentink, M. Hohenleutner, L. Braun, T.-M. Do, C. Lange, A. Sell, M. Fiebig, G. Woltersdorf, T. Kampf, and R. Huber	
Ground-State Cooling of a Mechanical Oscillator by Interference in Andreev Reflection	197202
P. Stadler, W. Belzig, and G. Rastelli	
Sign-Problem-Free Monte Carlo Simulation of Certain Frustrated Quantum Magnets	197203
Fabien Alet, Kedar Damle, and Sumiran Pujari	
Spin Wave Power Flow and Caustics in Ultrathin Ferromagnets with the Dzyaloshinskii-Moriya Interaction	197204
Joo-Von Kim, Robert L. Stamps, and Robert E. Camley	
Surfing the High Energy Output Branch of Nonlinear Energy Harvesters	197701
D. Mallick, A. Amann, and S. Roy	

(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)

Polymer, Soft Matter, Biological, Climate, and Interdisciplinary Physics

Tuning Synthetic Semiflexible Networks by Bending Stiffness	197801
Carsten Schuldt, Jörg Schnauß, Tina Händler, Martin Glaser, Jessica Lorenz, Tom Golde, Josef A. Käs, and David M. Smith	
Bimetallic Microswimmers Speed Up in Confining Channels	198001
Chang Liu, Chao Zhou, Wei Wang, and H. P. Zhang	
Criticality in Vibrated Frictional Flows at a Finite Strain Rate	198002
Geert Wortel, Olivier Dauchot, and Martin van Hecke	
 Stretching an Elastic Loop: Crease, Helicoid, and Pop Out	198003
Yasuaki Morigaki, Hirofumi Wada, and Yoshimi Tanaka	

Errata

Erratum: Measurement of the Inclusive Leptonic Asymmetry in Top-Quark Pairs that Decay to Two Charged Leptons at CDF [Phys. Rev. Lett. 113 , 042001 (2014)]	199901
T. Aaltonen <i>et al.</i> (CDF Collaboration)	