



Illustration of two tunneling processes through a Majorana qubit. [Zhi Wang *et al.*, Phys. Rev. Lett. **129**, 257001 (2022)]

NEWSPAPER

PHYSICAL REVIEW LETTERS

Contents

Articles published 10 December–16 December 2022

VOLUME 129, NUMBER 25

16 December 2022

EDITORIALS, ESSAYS, and ANNOUNCEMENTS

Editorial: Addition by Division	250001
Hugues Chaté, Robert Garisto, and Rocio Cortes	

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

Driven-Dissipative Time Crystalline Phases in a Two-Mode Bosonic System with Kerr Nonlinearity	250401
L. R. Bakker, M. S. Bahovadinov, D. V. Kurlov, V. Gritsev, A. K. Fedorov, and Dmitry O. Krimer	
One-Axis Twisting as a Method of Generating Many-Body Bell Correlations	250402
Marcin Płodzień, Maciej Lewenstein, Emilia Witkowska, and Jan Chwedeńczuk	
Observation of Spin-Tensor Induced Topological Phase Transitions of Triply Degenerate Points with a Trapped Ion	250501
Mengxiang Zhang, Xinxing Yuan, Yue Li, Xi-Wang Luo, Chang Liu, Mingdong Zhu, Xi Qin, Chuanwei Zhang, Yiheng Lin, and Jiangfeng Du	
Feedback-Based Quantum Optimization	250502
Alicia B. Magann, Kenneth M. Rudinger, Matthew D. Grace, and Mohan Sarovar	
Error-Mitigated Quantum Metrology via Virtual Purification	250503
Kaoru Yamamoto, Suguru Endo, Hideaki Hakoshima, Yuichiro Matsuzaki, and Yuuki Tokunaga	
Almost Qudits in the Prepare-and-Measure Scenario	250504
Jef Pauwels, Stefano Pironio, Erik Woodhead, and Armin Tavakoli	
 Noise-Induced Quantum Synchronization	250601
Finn Schmolke and Eric Lutz	

Gravitation and Astrophysics

Optimal Transport Reconstruction of Baryon Acoustic Oscillations	251101
Farnik Nikakhtar, Ravi K. Sheth, Bruno Lévy, and Roya Mohayaee	
 Extraterrestrial Axion Search with the Breakthrough Listen Galactic Center Survey	251102
Joshua W. Foster, Samuel J. Witte, Matthew Lawson, Tim Linden, Vishal Gajjar, Christoph Weniger, and Benjamin R. Safdi	
Cosmic-Ray Boron Flux Measured from 8.4 GeV/ <i>n</i> to 3.8 TeV/ <i>n</i> with the Calorimetric Electron Telescope on the International Space Station	251103
O. Adriani <i>et al.</i> (CALET Collaboration)	
 de Sitter Bubbles from Anti-de Sitter Fluctuations	251104
Anxo Biasi, Oleg Evnin, and Spyros Sypsas	

Elementary Particles and Fields

Double Copy of Form Factors and Higgs Amplitudes: A Mechanism for Turning Spurious Poles in Yang-Mills Theory into Physical Poles in Gravity	251601
Guanda Lin and Gang Yang	
Axial-Vector D_1 Hadrons in $D^*\pi$ Scattering from QCD	252001
Nicolas Lang, and David J. Wilson (for the Hadron Spectrum Collaboration)	
Small- <i>x</i> Evolution of the Gluon Generalized Parton Distribution E_g of the Nucleon	252002
Yoshitaka Hatta and Jian Zhou	

(Continued Inside)

 This paper was highlighted in the APS publication *Physics* (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 2022 American Physical Society



0031-9007(20221216)129:25;1-3

Nuclear Physics

Collision-System and Beam-Energy Dependence of Anisotropic Flow Fluctuations	252301
M. S. Abdallah <i>et al.</i> (STAR Collaboration)	
Collectivity in Ultraperipheral Pb + Pb Collisions at the Large Hadron Collider	252302
Wenbin Zhao, Chun Shen, and Björn Schenke	
Improved Measurement of Solar Neutrinos from the Carbon-Nitrogen-Oxygen Cycle by Borexino and Its Implications for the Standard Solar Model	252701
S. Appel <i>et al.</i> (Borexino Collaboration)	
Trace Anomaly as Signature of Conformality in Neutron Stars	252702
Yuki Fujimoto, Kenji Fukushima, Larry D. McLerran, and Michał Praszalowicz	

Atomic, Molecular, and Optical Physics

Topological Flat Bands in Self-Complementary Plasmonic Metasurfaces	253001
Zhixia Xu, Xianghong Kong, Jie Chang, Daniel F. Sievenpiper, and Tie Jun Cui	
Observation of Nondipole-Induced Asymmetry in the Angular Emission Distribution of Photoelectrons from Fixed-in-Space CO Molecules	253201
D. V. Rezvan, K. Klyssek, S. Grundmann, A. Pier, N. M. Novikovskiy, N. Strenger, D. Tsitsonis, M. Kircher, I. Vela-Peréz, K. Fehre, F. Trinter, M. S. Schöffler, T. Jahnke, R. Dörner, and Ph. V. Demekhin	
Control of Localized Single- and Many-Body Dark States in Waveguide QED	253601
R. Holzinger, R. Gutiérrez-Jáuregui, T. Hönigl-Decrinis, G. Kirchmair, A. Asenjo-Garcia, and H. Ritsch	
Optoelectronic Control of Atomic Bistability with Graphene	253602
Mikkel Have Eriksen, Jakob E. Olsen, Christian Wolff, and Joel D. Cox	

Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc.

Excitation of an Electric Octupole Transition by Twisted Light	253901
R. Lange, N. Huntemann, A. A. Peshkov, A. Surzhykov, and E. Peik	
Observation of $\pi/2$ Modes in an Acoustic Floquet System	254301
Zheyu Cheng, Raditya Weda Bomantara, Haoran Xue, Weiwei Zhu, Jiangbin Gong, and Baile Zhang	
Dispersion of Molecular Patterns Written in Turbulent Air	254501
Willem van de Water, Nico Dam, and Enrico Calzavarini	
Gauging Nanoswimmer Dynamics via the Motion of Large Bodies	254502
Ashwani Kr. Tripathi and Tsvi Tlusty	

Plasma and Beam Physics

Enhanced Material Assimilation in a Toroidal Plasma Using Mixed $H_2 + Ne$ Pellet Injection and Implications to ITER	255001
A. Matsuyama, R. Sakamoto, R. Yasuhara, H. Funaba, H. Uehara, I. Yamada, T. Kawate, and M. Goto	

Condensed Matter: Structure, etc.

Ultrafast Loss of Lattice Coherence in the Light-Induced Structural Phase Transition of V_2O_3	255701
A. S. Johnson, D. Moreno-Mencía, E. B. Amuah, M. Menghini, J.-P. Locquet, C. Giannetti, E. Pastor, and S. E. Wall	
Liquid-Liquid Transition in Water from First Principles	255702
Thomas E. Gartner, Pablo M. Piaggi, Roberto Car, Athanassios Z. Panagiotopoulos, and Pablo G. Debenedetti	
Phason-Dominated Thermal Transport in Fresnoite	255901
M. E. Manley, A. F. May, B. L. Winn, D. L. Abernathy, R. Sahul, and R. P. Hermann	
Nonmonotonic Friction due to Water Capillary Adhesion and Hydrogen Bonding at Multiasperity Interfaces	256101
Liang Peng, Feng-Chun Hsia, Sander Woutersen, Mischa Bonn, Bart Weber, and Daniel Bonn	

Condensed Matter: Electronic Properties, etc.

Topologically Localized Insulators	256401
Bastien Lapierre, Titus Neupert, and Luka Trifunovic	

(Continued on Preceding Page)

This paper was highlighted in the APS publication *Physics* (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)

Tunable Rectification of Diffusion-Wave Fields by Spatiotemporal Metamaterials	256601
Jiaxin Li, Zhanxiang Zhang, Guoqiang Xu, Haoran Sun, Lizhou Dai, Tianlong Li, and Cheng-Wei Qiu	
Transport Theory for Topological Josephson Junctions with a Majorana Qubit	257001
Zhi Wang, Jia-Jin Feng, Zhao Huang, and Qian Niu	
Magnonic Einstein–de Haas Effect: Ultrafast Rotation of Magnonic Microspheres	257201
A. Kani, F. Quijandría, and J. Twamley	
Polymer, Soft Matter, Biological, Climate, and Interdisciplinary Physics	
Data-Driven Discovery of Active Nematic Hydrodynamics	258001
Chaitanya Joshi, Sattvic Ray, Linnea M. Lemma, Minu Varghese, Graham Sharp, Zvonimir Dogic, Aparna Baskaran, and Michael F. Hagan	
Errata	
Erratum: Stabilizing Mechanism for Bose-Einstein Condensation of Interacting Magnons in Ferrimagnets and Ferromagnets [Phys. Rev. Lett. 121 , 187202 (2018)]	259901
Naoya Arakawa	



This paper was highlighted in the APS publication *Physics* (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* (physics.aps.org), provides thought-provoking analysis and spotlights exceptional research.