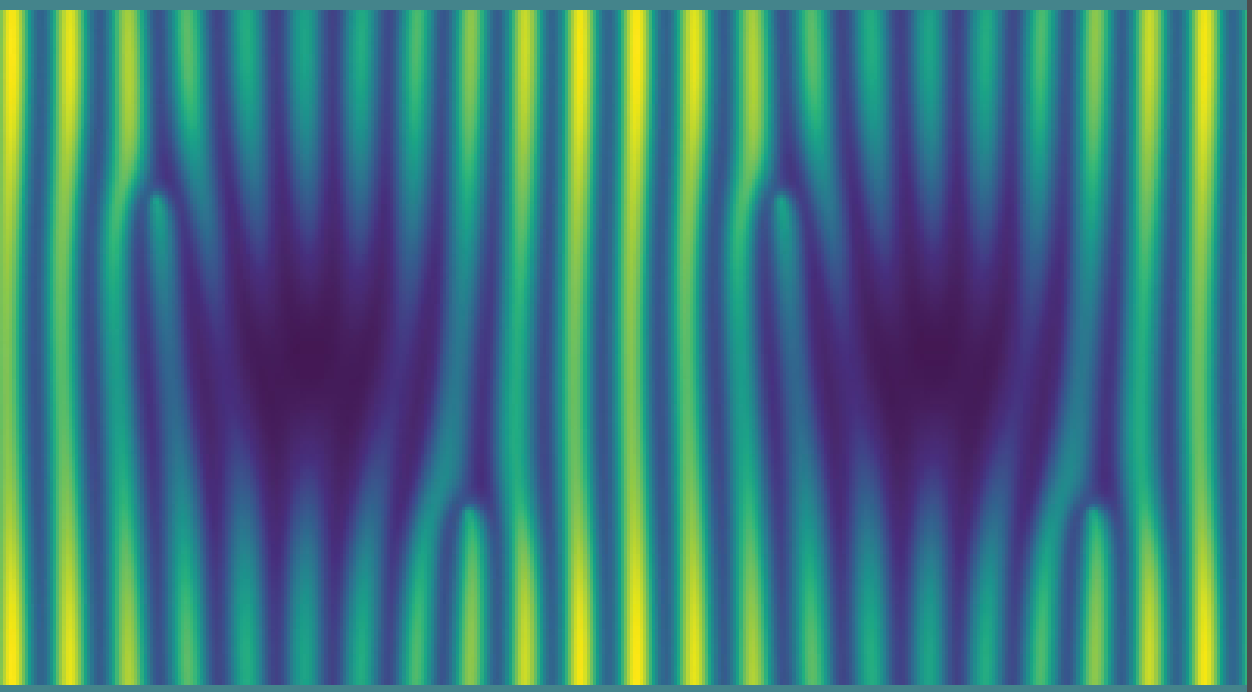
2022 PHYSICAL REVIEW JOURNALS CATALOG



APS physics

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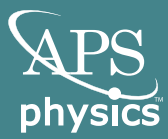

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Founded in 1899, the American Physical Society (APS) strives to advance and diffuse the knowledge of physics. In support of this objective, APS publishes primary research and review journals, six of which are open access.

PHYSICAL REVIEW LETTERS (PRL)

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9.161
Journal Impact Factor
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2.444
Immediacy Index
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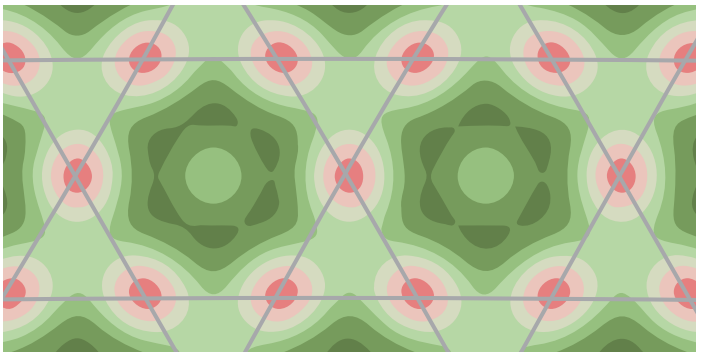
PRL is the world's premier physics letter journal and APS's flagship publication. Since 1958 it has contributed to APS's mission to advance and diffuse the knowledge of physics by publishing seminal research by Nobel Prize winners and other distinguished researchers in all fields of physics.

PRL publishes short, high-quality reports of the most influential developments and transformative ideas in the full arc of fundamental and interdisciplinary physics research. It is distinctive in the depth and breadth of its coverage of the broad subfields of physics. PRL welcomes manuscripts that report on pivotal advances that will influence the research of others.

Sections include:

- General physics, including statistical and quantum mechanics and quantum information
- Gravitation, astrophysics, and cosmology
- Elementary particles and fields
- Nuclear physics
- Atomic, molecular, and optical physics
- Nonlinear dynamics, fluid dynamics, and classical optics
- Plasma and beam physics
- Condensed matter and materials physics
- Polymers, soft matter, biological, climate, and interdisciplinary physics, including networks



Mean-Field Scaling of the Superfluid to Mott Insulator Transition in a 2D Optical Superlattice [Claire K. Thomas *et al.*, Phys. Rev. Lett. **119**, 100402 (2017)].

PHYSICAL REVIEW X (PRX)

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15.762
Journal Impact Factor
2020

3.397
Immediacy Index
2020

0.07486
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PRX is an online-only, fully open access journal that places a high value on innovation, quality, and long-term impact in the science it publishes. It seeks to publish a select set of papers from all areas of pure, applied, and interdisciplinary physics that have the potential to influence current and future research and to have a long-lasting and profound impact in their relevant fields.

Reflecting the diversity and dynamics of today's physics research, PRX showcases research in established core areas of physics that achieves breakthroughs in technology, experiment, and theory, or that represents a paradigm shift in understanding. The journal also publishes creative, impactful research that brings together multiple physics fields, or bridges physics with other disciplines. PRX is renowned for its highly personalized and responsive editorial process that brings together authors, editors, and referees in an interactive, reasoned dialog to guide each article through the rigorous selection process and produce the best possible outcome.

PRX covers the full spectrum of subject areas in physics and pays particular attention to innovative interdisciplinary research including:

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- Chemical physics
- Complex systems
- Computational physics
- Condensed matter physics
- Cosmology
- Electronics
- Energy research
- Fluid dynamics
- Geophysics
- Gravitation
- Industrial physics
- Interdisciplinary physics
- Materials science
- Medical physics
- Metamaterials
- Nanophysics
- Nonlinear dynamics
- Nuclear physics
- Optics
- Optoelectronics
- Particles and fields
- Photonics
- Physical chemistry
- Plasma physics
- Plasmonics
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- Quantum physics
- Soft matter
- Spintronics
- Statistical physics
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New in 2021

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PRX Energy welcomes manuscripts on all topics relevant to the multidisciplinary energy science and technology research communities spanning physics, chemistry, materials, engineering, biology, environmental studies, and policy. Research coverage in the journal comprises: fundamental and applied science; theoretical, experimental, computational, and data-intensive research, including significant advances in methods and instrumentation; and interdisciplinary and emerging areas.

PRX Energy will cover topics including, but not limited to:

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- Energy storage, such as: batteries; fuel cells; supercapacitors; energy materials; hydrogen storage; and carbon capture and storage.
- Energy utilization, such as: energy conversion technologies; energy transmission grids and networks; energy transport; and development and scaling of new technologies.
- Sustainability, including areas of environmental and economic impact, such as: energy-efficient buildings, transportation, and industry; atmospheric and climate science; carbon capture and utilization; solar radiation management.

EDITORS

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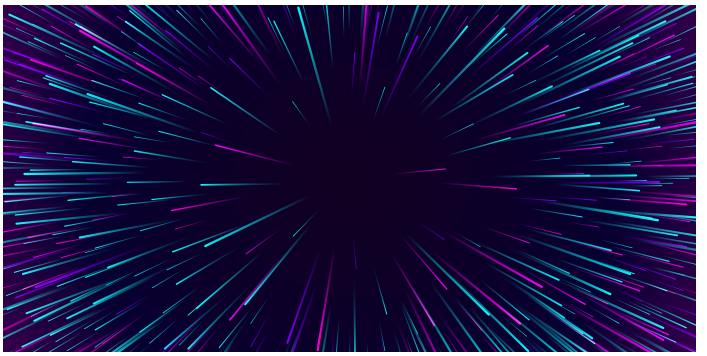
American Physical Society



New in 2020

PRX QUANTUM

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PRX Quantum is a highly selective, online-only, fully open access journal that publishes research with an emphasis on outstanding and lasting impact. PRX Quantum seeks to publish a select set of papers providing a home for and connection between the numerous research communities that make up quantum information science and technology, spanning from pure science to engineering to computer science and beyond.

PRX Quantum showcases research in core areas of quantum information science and technology that are milestone achievements in techniques, experiment, and theory, or that represents an important leap in understanding. Reflecting the diversity of this discipline, the journal publishes creative, impactful research that brings together multiple interdisciplinary fields. We are proud to be an integral part of this community, taking on the challenge of supporting and encouraging its development. Subject areas include, but are not limited to:

- Fundamental concepts in quantum information
- Quantum computation and simulation
- Quantum software: algorithms, protocols, and code
- Quantum hardware: materials, engineering and technologies
- Quantum error correction
- Quantum gates
- Quantum machine learning and intelligence
- Quantum communication and cryptography
- Quantum networks, quantum repeaters, and quantum memories
- Quantum control
- Quantum metrology and sensing
- Quantum architectures and implementations
- Quantum thermodynamics
- Quantum effects in biological systems
- Quantum algorithms for chemical calculations
- Materials for quantum technologies
- Hybrid quantum systems and interconnects
- Relativistic quantum information

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American Physical Society

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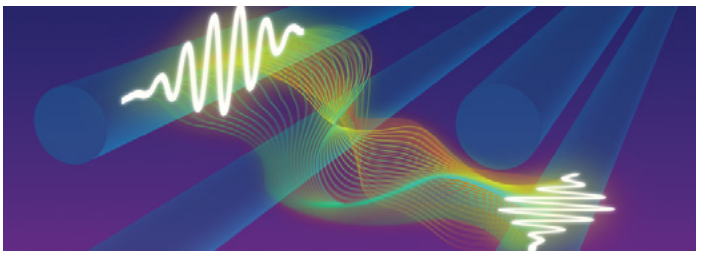

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REVIEWS OF MODERN PHYSICS (RMP)

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54.494
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8.313
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RMP is the world's premier physics review journal and the most highly cited *Physical Review* publication. Written by leading international researchers, RMP's in-depth essays provide outstanding coverage of a topic and give context and background for current research trends.

Since 1929, RMP has provided an unrivaled venue for authoritative review papers in all fields of physics. RMP publishes two types of essay, Reviews and Colloquia. Review articles present the current status of a given topic, with historical background, a critical distillation of research progress, and a summary of possible future developments. Colloquia communicate results at the frontiers of physics, which may impact several subfields. RMP also publishes Nobel Lectures, text of the addresses given in conjunction with the awards.

RMP covers the full range of applied, fundamental, and interdisciplinary physics research topics:

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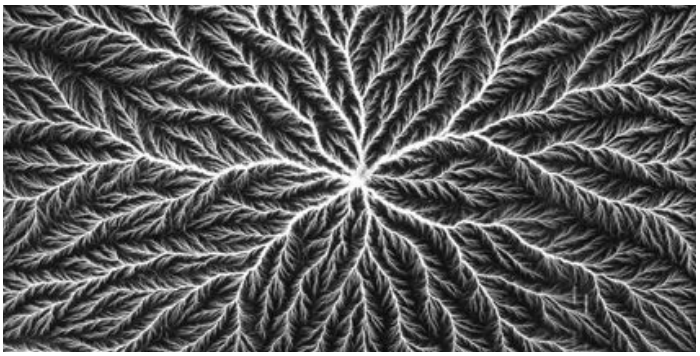
- Nuclear physics
- High-energy physics, particles and fields
- Astrophysics
- General physics
- Mathematical physics
- Applications of physics
- Quantum information
- Computational physics



Experimental soft-matter science [Sidney R. Nagel, Rev. Mod. Phys. **89**, 025002, (2017)].

PHYSICAL REVIEW A (PRA)

covering atomic, molecular, and optical physics and quantum information

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3.140
Journal Impact Factor
2020

0.850
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0.10711
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PRA publishes important developments in the rapidly evolving areas of atomic, molecular, and optical (AMO) physics, quantum information, and related fundamental concepts.

Established in 1970, PRA is the journal of choice to publish research in AMO physics and quantum information. Bridging these traditional and emerging research areas, PRA's authors and readers benefit from the widespread synergies between these fields.

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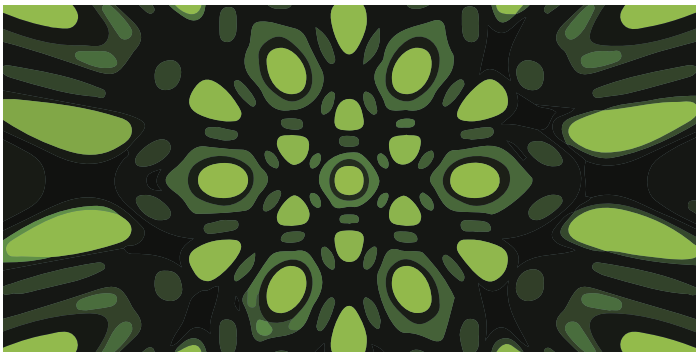
- Light-induced processes in atomic-scale systems
- Ultracold systems and matter waves
- Photonics, nonlinear optics, and optomechanics
- Quantum optics



Optical properties of honeycomb photonic structures [Artem D. Sinelnik *et al.*, Phys. Rev. A **95**, 063837 (2017)].

PHYSICAL REVIEW B (PRB)

covering condensed matter and materials physics

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4.036
Journal Impact Factor
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1.135
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PRB is the world's largest dedicated physics journal and most highly cited journal in condensed matter physics, PRB provides outstanding depth and breadth of coverage, combined with unrivaled context and background for ongoing research by scientists worldwide.

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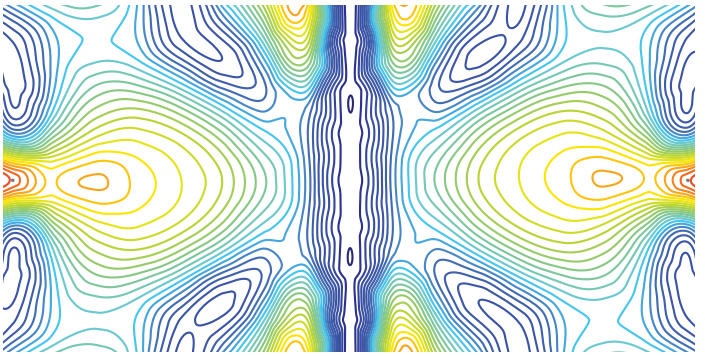
- Structure and phase transitions
- Ferroelectrics and multiferroics
- Disordered systems and alloys
- Magnetism
- Superconductivity
- Electronic structure, photonics, and metamaterials
- Semiconductors and mesoscopic systems
- Surfaces, nanoscience, and 2D materials
- Topological states of matter



Phonovoltaic. III. Electron-phonon coupling and figure of merit of graphene:BN [Corey Melnick and Massoud Kaviany, Phys. Rev. B **94**, 245412 (2016)].

PHYSICAL REVIEW C (PRC)

covering nuclear physics

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3.296
Journal Impact Factor
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0.988
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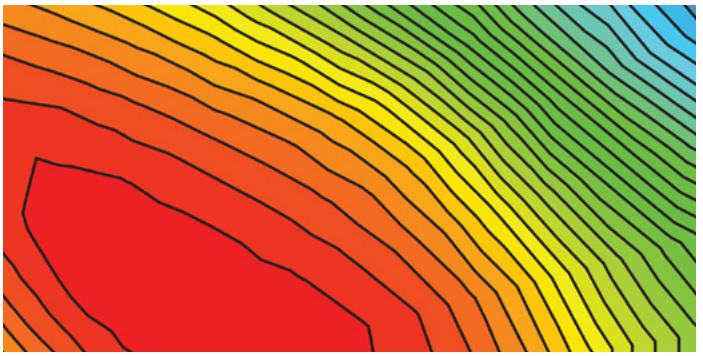
- Nucleon-nucleon interaction, few-body systems
- Nuclear structure
- Nuclear reactions
- Relativistic nuclear collisions
- Hadronic physics and QCD
- Electroweak interaction, symmetries
- Nuclear astrophysics
- Nuclear instrumentation



Shape evolution and shape coexistence in Pt isotopes: Comparing interacting boson model configuration mixing and Gogny mean-field energy surfaces [J. E. García-Ramos *et al.*, Phys. Rev. C **89**, 034313 (2014)].

PHYSICAL REVIEW D (PRD)

covering particles, fields, gravitation, and cosmology

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5.296
Journal Impact Factor
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1.939
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PRD is a leading journal in elementary particle physics, field theory, gravitation, and cosmology and is one of the top-cited journals in high-energy physics.

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- Strong interactions
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- Phenomenological aspects of field theory, general methods
- Gravity, cosmology, cosmic rays
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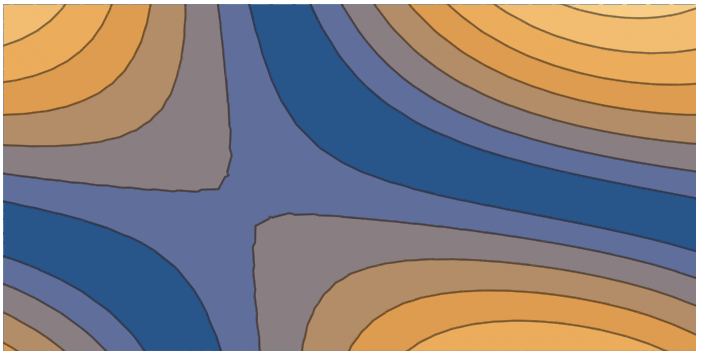
- General relativity
- Formal aspects of field theory, field theory in curved space
- String theory, quantum gravity, gauge/gravity duality



Impact of correlated magnetic noise on the detection of stochastic gravitational waves: Estimation based on a simple analytical model [Yoshiaki Himemoto and Atsushi Taruya, Phys. Rev. D **96**, 022004 (2017)].

PHYSICAL REVIEW E (PRE)

covering statistical, nonlinear, biological, and soft matter physics

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2.529
Journal Impact Factor
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- Networks and complex systems
- Biological physics
- Polymers
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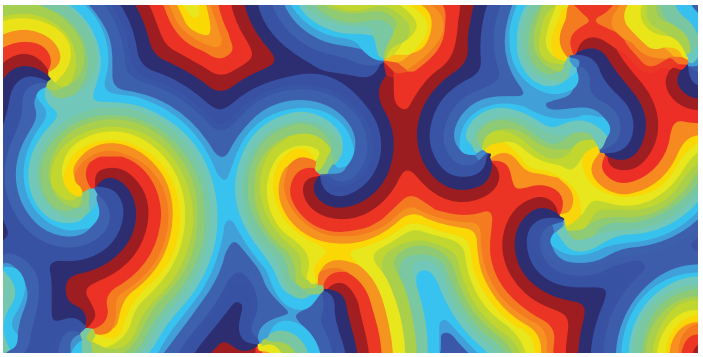
- Liquid crystals
- Films and interfaces
- Granular materials
- Solid mechanics
- Fluid dynamics
- Plasma physics
- Computational physics



Weakly and strongly coupled Belousov-Zhabotinsky patterns [Stephan Weiss and Robert D. Deegan, Phys. Rev. E **95**, 022215 (2017)].

PHYSICAL REVIEW RESEARCH (PRResearch)

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Physical Review Research welcomes papers from the full spectrum of research topics of interest to the physics community. Research coverage in the journal comprises: fundamental and applied; theoretical and experimental, including technical and methodological advances; and interdisciplinary and newly emerging areas. Subject areas include, but are not limited to:

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- Chemical physics
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- Energy research
- Fluid mechanics
- Geophysics
- Gravitation
- Industrial physics
- Information theory
- Interdisciplinary research
- Magnetism
- Materials science
- Mathematical physics
- Medical physics
- Mesoscopics
- Metamaterials
- Nanoscience and nanotechnology
- Nonlinear dynamics
- Nuclear physics
- Optics
- Optoelectronics
- Particles and fields
- Photonics
- Physical chemistry
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- Plasma science and technology
- Plasmonics
- Polymer science
- Polymeric materials
- Quantum fluids
- Quantum materials
- Quantum information and technology
- Quantum physics
- Scientific machine learning
- Semiconductor physics and technology
- Soft and active matter
- Solid mechanics
- Spintronics
- Statistical physics and thermodynamics
- String theory
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- Targets, collimators, and beam dumps
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- Particle-beam sources
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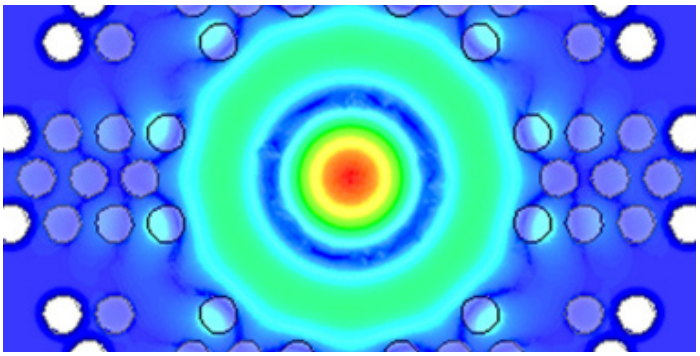
- Low-energy, multiple-particle dynamics
- Relativistic, multiple-particle dynamics
- Material-beam interaction
- Computing and algorithms



High power experimental studies of hybrid photonic band gap accelerator structures [JieXi Zhang *et al.*, Phys. Rev. Accel. Beams **19**, 081304 (2016)].

PHYSICAL REVIEW APPLIED (PRApplied)

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4.985
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- Electronics
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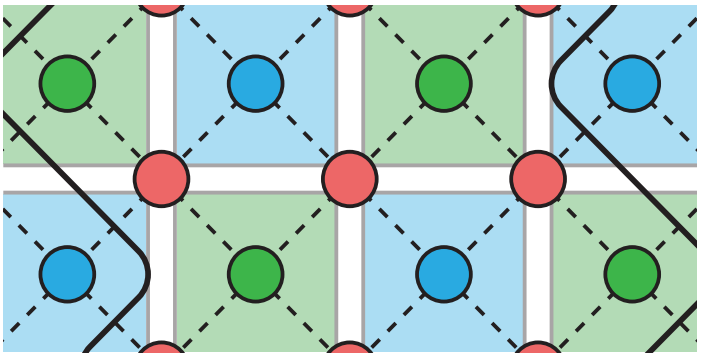
- Industrial physics
- Magnetism and spintronics
- Metamaterials
- Microfluidics
- Nonlinear dynamics and pattern formation in natural or manufactured systems
- Nanoscience and nanotechnology
- Optics, optoelectronics, photonics, and photonic devices
- Quantum information processing, both algorithms and hardware
- Soft matter physics, including granular and complex fluids and active matter



Scalable Quantum Circuit and Control for a Superconducting Surface Code [R. Versluis *et al.*, Phys. Rev. Applied **8**, 034021 (2017)].

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- Turbulent flows
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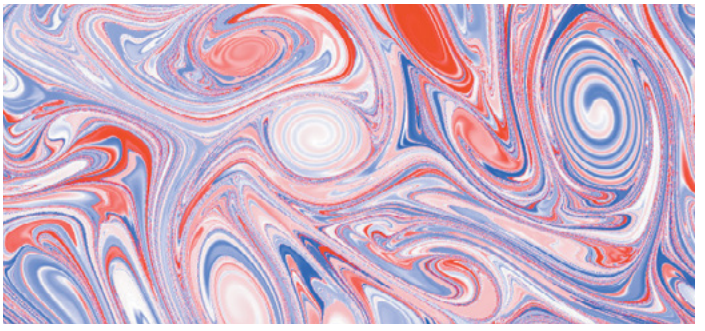

Optimal initial condition of passive tracers for their maximal mixing in finite time [Mohammad Farazmand, Phys. Rev. Fluids **2**, 054601 (2017)].

PHYSICAL REVIEW MATERIALS (PRMaterials)

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PRMaterials provides a publication and reference venue to the expanding community of physicists, materials scientists, chemists, engineers, and scientists in related disciplines, carrying out high-quality, original research in materials.

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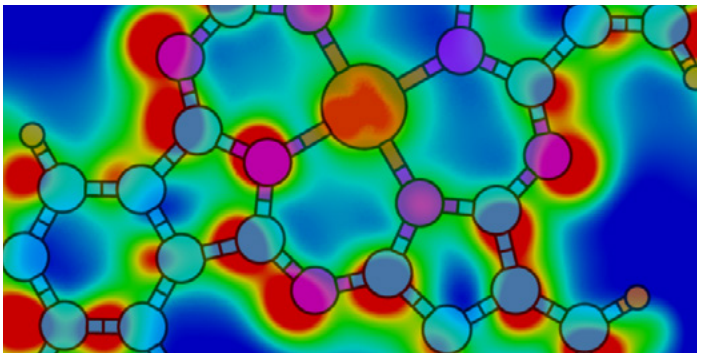
- Electronic materials, semiconductors, metals, and dielectrics, including organics
- Topological materials
- Mechanical properties, materials structure, and phase transformations
- Nanostructures, nanocomposites, and nanomaterials



Electronic charge rearrangement at metal/organic interfaces induced by weak van der Waals interactions [Nicola Ferri *et al.*, Phys. Rev. Materials **1**, 026003 (2017)].

PHYSICAL REVIEW PHYSICS EDUCATION RESEARCH (PRPER)

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PRPER covers the full array of experimental and theoretical research relating to the teaching and learning of physics and astronomy. PRPER is the only fully open access journal for physics education research.

PRPER is sponsored jointly by APS, the American Association of Physics Teachers, and the APS Forum on Education. PRPER publishes detailed research articles, review articles, and replication studies. Descriptions of the development and use of new assessment tools, presentation of research.

PRPER covers all educational levels, from elementary through graduate education. All topics in experimental and theoretical physics education research are accepted, including, but not limited to:

- Educational policy
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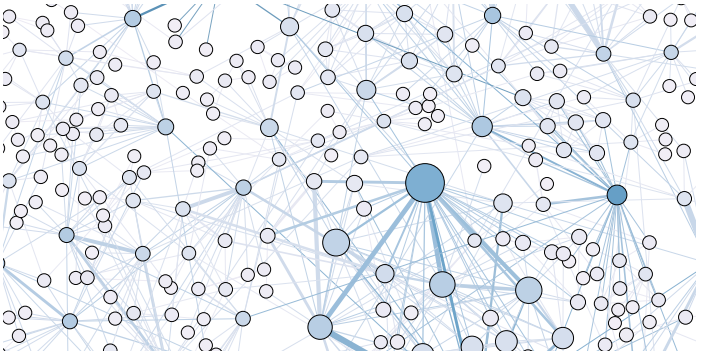
- Epistemology, attitudes, and beliefs
- Learning environment
- Scientific reasoning and problem solving
- Diversity and inclusion
- Learning theory
- Student participation
- Faculty and teacher professional development



Linking behavior in the physics education research coauthorship network [Katharine A. Anderson *et al.*, Phys. Rev. Phys. Educ. Res. **13**, 010121 (2017)].

Physics

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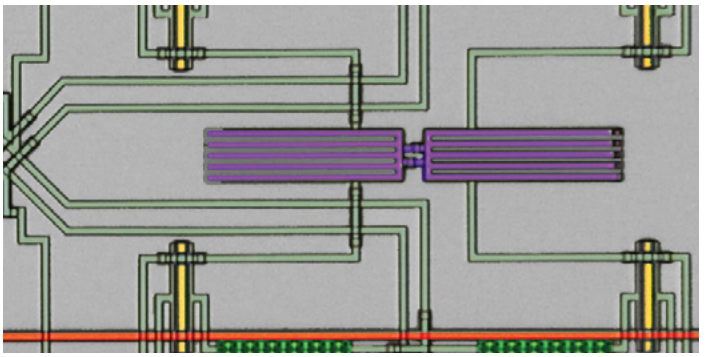

Widely Tunable On-Chip Microwave Circulator for Superconducting Quantum Circuits [Benjamin J. Chapman *et al.*, Phys. Rev. X **7**, 041043 (2017)].

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PRX	Open Access	277	>882,000	22,327	15.762
PRX Energy	Open Access	Launched in 2021			
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RMP	Subscription	32	>643,000	58,097	54.494
PRA	Hybrid	2,364	>1,600,000	131,470	3.140
PRB	Hybrid	4,982	>5,400,000	406,465	4.036
PRC	Hybrid	955	>401,000	53,343	3.296
PRD	Hybrid	3,840	>1,000,000	204,090	5.296
PRE	Hybrid	1,979	>1,225,000	107,073	2.529
PRResearch	Open Access	2,033	>544,000	Full numbers available in 2022	
PRApplied	Hybrid	969	>399,000	14,172	4.985
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PRAB	Open Access	257	>296,000	1,677	1.639
PRPER	Open Access	116	>252,000	1,103	2.412
TOTALS	**n/a**	**21,845**	**>19 million**	**1,502,667**	**n/a**

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Cover Image: Deconfinement of Majorana Vortex Modes Produces a Superconducting Landau Level [M. J. Pacholski, G. Lemut, O. Ovdat, İ. Adagideli, and C. W. J. Beenakker, Phys. Rev. Lett. **126**, 226801 (2021)].