

APS (AMERICAN PHYSICAL SOCIETY) 이용 매뉴얼

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1. 출판사 소개 및 수록내용
2. APS 홈페이지 저널 이용방법
3. APS 홈페이지 저널 검색방법

□ 출판사 소개

- "To advance and diffuse the knowledge of physics"를 모토로 1899년 설립된 APS(American Physical Society)는 전 세계에서 두 번째로 규모가 큰 물리학회로 가장 많이 인용되고 있는 Physical Review를 비롯하여 13종 이상의 저널을 출판하고 있으며, 매년 물리학 관련 20회 이상의 학술행사를 개최하고 있습니다.
- APS는 자체 플랫폼을 통해 저널을 제공하고 있으며, 이용자의 편의성을 고려하여 최상의 서비스를 제공하고자 노력하고 있습니다. APS에는 전세계 대학, 연구소 및 기업으로부터 51,000명 이상의 물리학자가 멤버가 활동하고 있습니다.


□ 수록내용

- 주제분야 : 일반 물리/응용물리 등 물리학
- 제공연도 : 1930 ~ 현재
- 제공종수 : 저널 13종
- URL: <http://www.aps.org/publications>

홈페이지 URL: [HTTPS://JOURNALS.APS.ORG/](https://journals.aps.org/)

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Published by the American Physical Society

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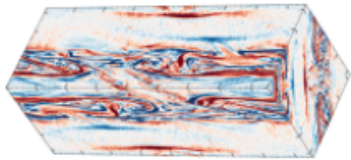
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PRL ON THE COVER

Heating of Magnetically Dominated Plasma by Alfvén-Wave Turbulence

February 14, 2022

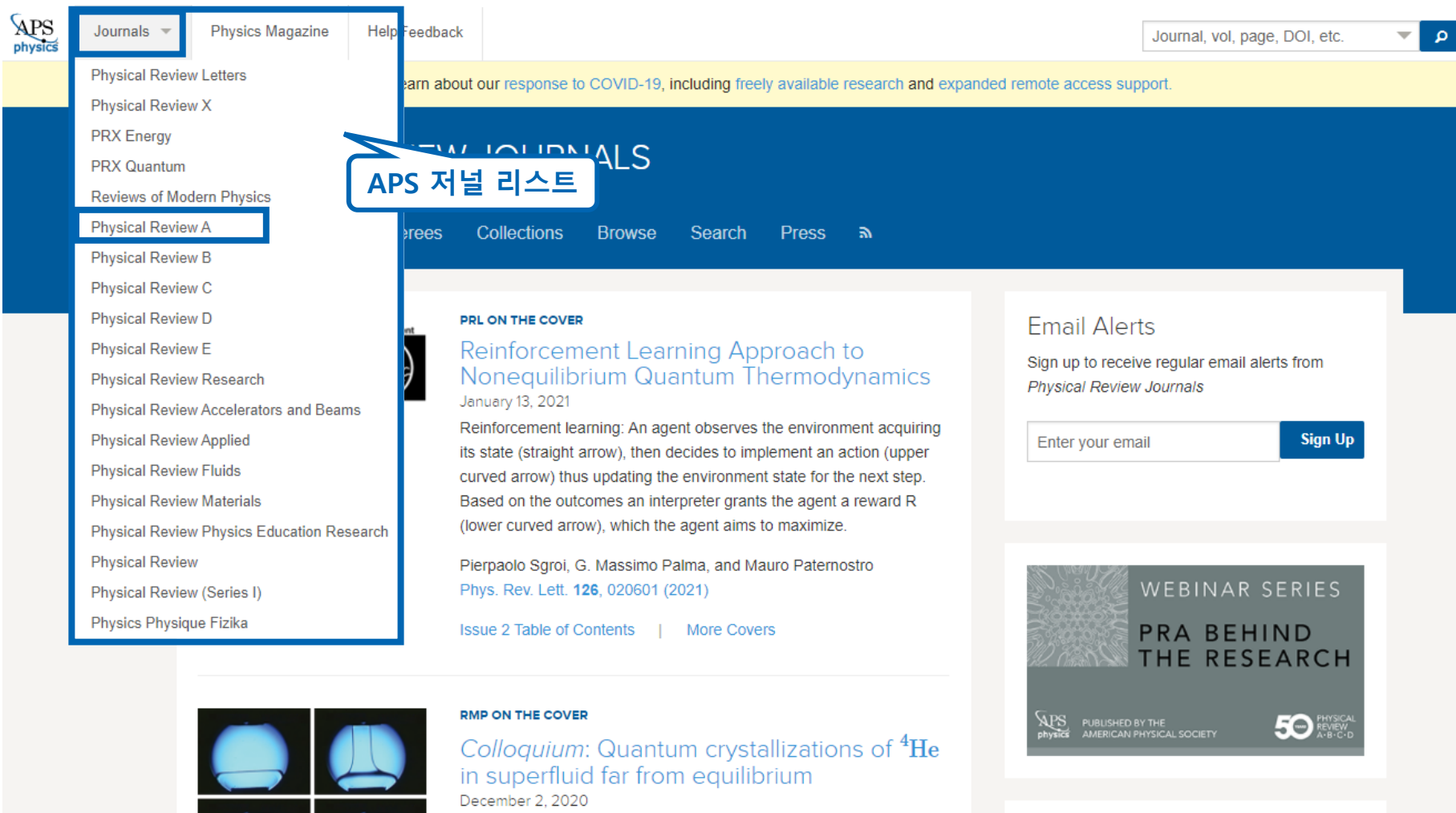
Three-dimensional kinetic simulation of the onset of relativistic wave turbulence in the collision of two magnetic shear waves. Selected for a *Viewpoint* in *Physics*.

Joonas Nättilä and Andrei M. Beloborodov
Phys. Rev. Lett. **128**, 075101 (2022)

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PHYSICAL REVIEW A 선택



The screenshot shows the APS website interface. On the left, a navigation menu is open under the 'Journals' dropdown, listing various journals. 'Physical Review A' is highlighted with a blue box. A callout bubble with a speech bubble icon points to this menu item, containing the text 'APS 저널 리스트'. The main content area features a featured article titled 'Reinforcement Learning Approach to Nonequilibrium Quantum Thermodynamics' with a 'PRL ON THE COVER' badge. Below it, there is a section for 'RMP ON THE COVER' with a featured article titled 'Colloquium: Quantum crystallizations of ^4He in superfluid far from equilibrium'. On the right side, there is an 'Email Alerts' section with a sign-up form and a 'Sign Up' button. Below that is a 'WEBINAR SERIES' banner for 'PRA BEHIND THE RESEARCH'.

APS 저널 리스트

Physical Review Letters
Physical Review X
PRX Energy
PRX Quantum
Reviews of Modern Physics
Physical Review A
Physical Review B
Physical Review C
Physical Review D
Physical Review E
Physical Review Research
Physical Review Accelerators and Beams
Physical Review Applied
Physical Review Fluids
Physical Review Materials
Physical Review Physics Education Research
Physical Review
Physical Review (Series I)
Physics Physique Fizika

Journal, vol, page, DOI, etc.

PHYSICAL REVIEW JOURNALS

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PRL ON THE COVER
Reinforcement Learning Approach to Nonequilibrium Quantum Thermodynamics
January 13, 2021
Reinforcement learning: An agent observes the environment acquiring its state (straight arrow), then decides to implement an action (upper curved arrow) thus updating the environment state for the next step. Based on the outcomes an interpreter grants the agent a reward R (lower curved arrow), which the agent aims to maximize.
Pierpaolo Sgroi, G. Massimo Palma, and Mauro Paternostro
Phys. Rev. Lett. **126**, 020601 (2021)
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RMP ON THE COVER
Colloquium: Quantum crystallizations of ^4He in superfluid far from equilibrium
December 2, 2020

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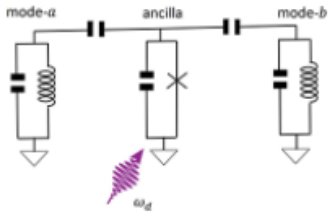
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PHYSICAL REVIEW A 선택

PHYSICAL REVIEW A

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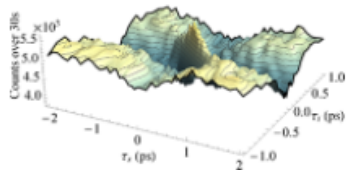
EDITORS' SUGGESTION

Drive-induced coupled to

When microwave cavity modes interact with an ancilla mode, we investigate how a resonant driving field can even be used to cancel the dominant nonlinearity, extending the time before a quantum state stored in the cavity suffers phase collapse.

Yaxing Zhang *et al.*
Phys. Rev. A **105**, 022423 (2022)

Highlights – Editor 추천 Title
Recent – 최신 아티클
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EDITORS' SUGGESTION

Spectrally resolved four-photon interference of time-frequency-entangled photons

In this paper and an accompanying submission to *Physical Review Letters*, the authors provide a demonstration of entanglement swapping extended into the multimode regime of ultrafast frequency-mode entanglement. The most salient feature of the method, which requires no source engineering, is the heralding of several mutually

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Vol. 105, Iss. 2 — February 2022

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Vol. 104, Iss. 5 — November 2021
Vol. 104, Iss. 4 — October 2021

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원문 열람

PHYSICAL REVIEW A

covering atomic, molecular, and optical physics and quantum information

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Editors' Suggestion

Estimating the gradient and higher-order derivatives on quantum hardware

Andrea Mari, Thomas Monz, ...
Phys. Rev. A **103**, 012345 (2021)

레퍼런스 정보

인용 정보

3



Article

References

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타 플랫폼 공유 횟수/
공유하기

Abstract/저자 정보

원문 PDF, HTML 보기

For a large class of variational quantum circuits, we show how arbitrary-order derivatives can be analytically evaluated in terms of simple parameter-shift rules, i.e., by running the same circuit with different shifts of the parameters. As particular cases, we obtain parameter-shift rules for the Hessian of an expectation value and for the metric tensor of a variational state, both of which can be efficiently used to analytically implement second-order optimization algorithms on a quantum computer. We also consider the impact of statistical noise by studying the mean-square error of different derivative estimators. Some of the theoretical techniques for evaluating quantum derivatives are applied to their typical use case: the implementation of quantum optimizers. We find that the performance of different estimators and optimizers is intertwined with the values of different hyperparameters, such as the step size or the number of shots. Our findings are supported by several numerical and hardware experiments, including an experimental estimation of the Hessian of a simple variational circuit and an

Issue

Vol. 103, Iss. 1 — January 2021

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3. APS 홈페이지 저널 검색방법

TITLE 검색

The screenshot shows the APS Physics website search page. At the top left is the APS physics logo. Navigation links include Journals, Help/Feedback, Journals, Authors, Referees, Browse, Search, and Press. A search bar at the top right contains the text "Journal, vol, page, DOI, etc." and a magnifying glass icon. The main header area features the text "PHYSICAL REVIEW JOURNALS" and "Published by the American Physical Society". A callout bubble points to the "Search" button with the text "Search 클릭 시 상세검색 가능". Another callout bubble points to the search bar with the text "일반 검색". Below the header, a search form is displayed with the following sections:

- All Fields** 검색 필드 선택 - Search keywords 검색어 입력
- Most Recent** 검색 결과 정렬 방법 선택
- Filters**
 - Date:** 검색 기간 선택
 - Any time
 - Past Week
 - Past Month
 - Past Year
 - Custom Range
 - Journal:** 저널 선택
 - Phys. Rev. Lett.
 - Phys. Rev. A
 - Phys. Rev. E
 - Phys. Rev. Fluids
 - Phys. Rev.
 - Phys. Rev. X
 - Phys. Rev. B
 - Phys. Rev. Research
 - Phys. Rev. Materials
 - Phys. Rev. (Series I)
 - PRX Quantum
 - Phys. Rev. C
 - Phys. Rev. Accel. Beams
 - Phys. Rev. Phys. Educ. Res.
 - Phys. Rev. Focus
 - Rev. Mod. Phys.
 - Phys. Rev. D
 - Phys. Rev. Applied
 - Physics
 - Physics Physique Fizika
 - Category:** 카테고리 선택
 - Featured in Physics
 - Editors' Suggestion
 - Open Access
 - Milestone

A "Search" button is located at the bottom of the search form.

3. APS 홈페이지 저널 검색방법

검색 결과: 예-PLASMA 검색

Results **1-20 of 49,562**

총 검색 결과

You searched for **plasma**

검색 키워드

검색 결과 정렬 방법 선택:
최신순, 관련순, 과거순, 인용순 정렬

Sort

- Most Recent
- Most Relevant
- Oldest First
- Most Cited

Results Per Page

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PhySH Concept

- ALL (46,948)
- Optics & lasers (1,301)
- Relativistic heavy-ion collisions (1,089)
- Quantum field theory (864)
- 3-dimensional systems (841)
- Optical & microwave phenomena (790)
- Atomic & molecular processes in external fields (723)
- Strong interaction (713)

Observation of shock-induced protein crystal damage during megahertz serial femtosecond crystallography

Marie L. Grünbein *et al.*

Phys. Rev. Research **3**, 013046 (2021) - Published 15 January 2021

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Abstract 보기

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PRL

Threshold Heat-Flux Reduction by Near-Resonant Energy Transfer

P. W. Terry, P.-Y. Li, M. J. Pueschel, and G. G. Whelan

PhySH : Physical Subject Headings
PhySH컨셉, 분야, 카테고리, 아티클 타입, 저널 별 분류 가능

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Gravitational wave signatures of lepton universality violation

Bartosz Fornal

Phys. Rev. D **103**, 015018 (2021) - Published 15 January 2021

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