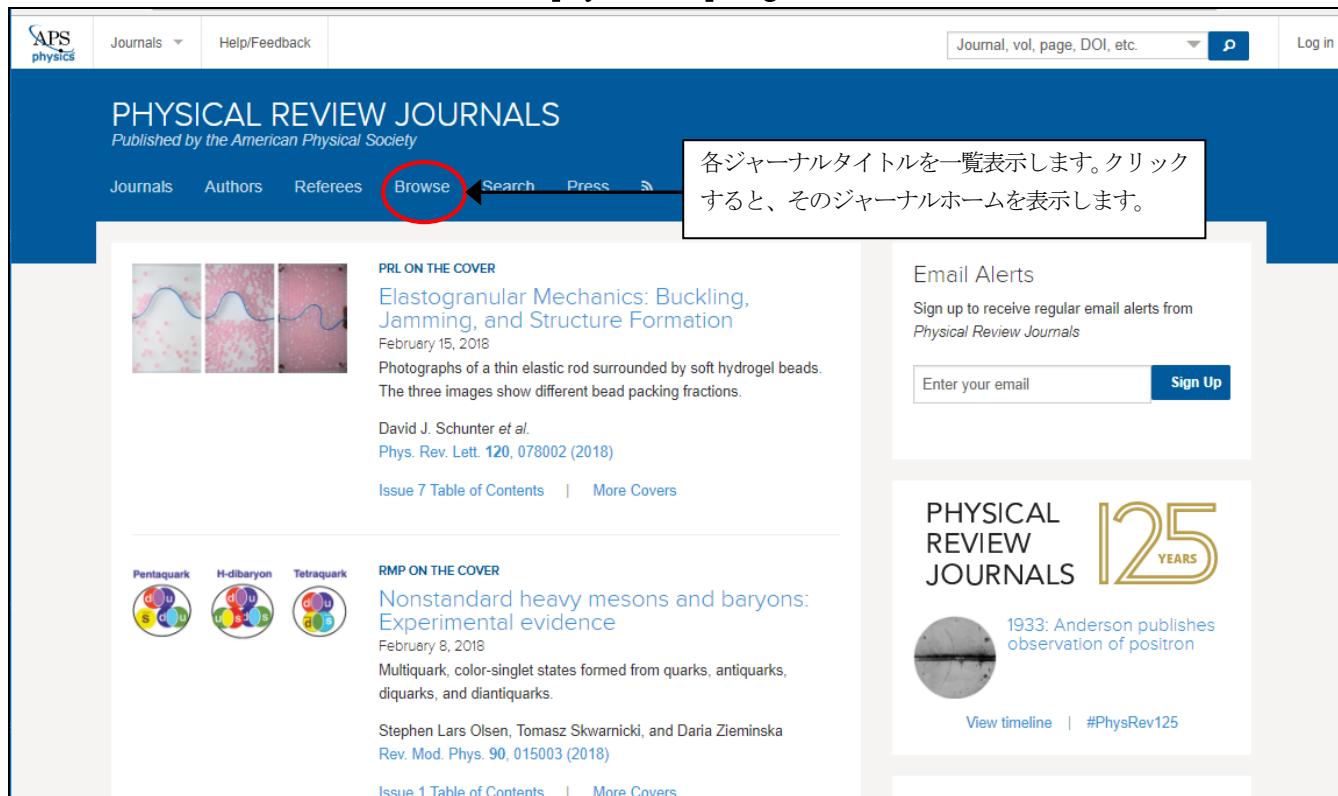


American Physical Society (APS) APS Journals 利用ガイド

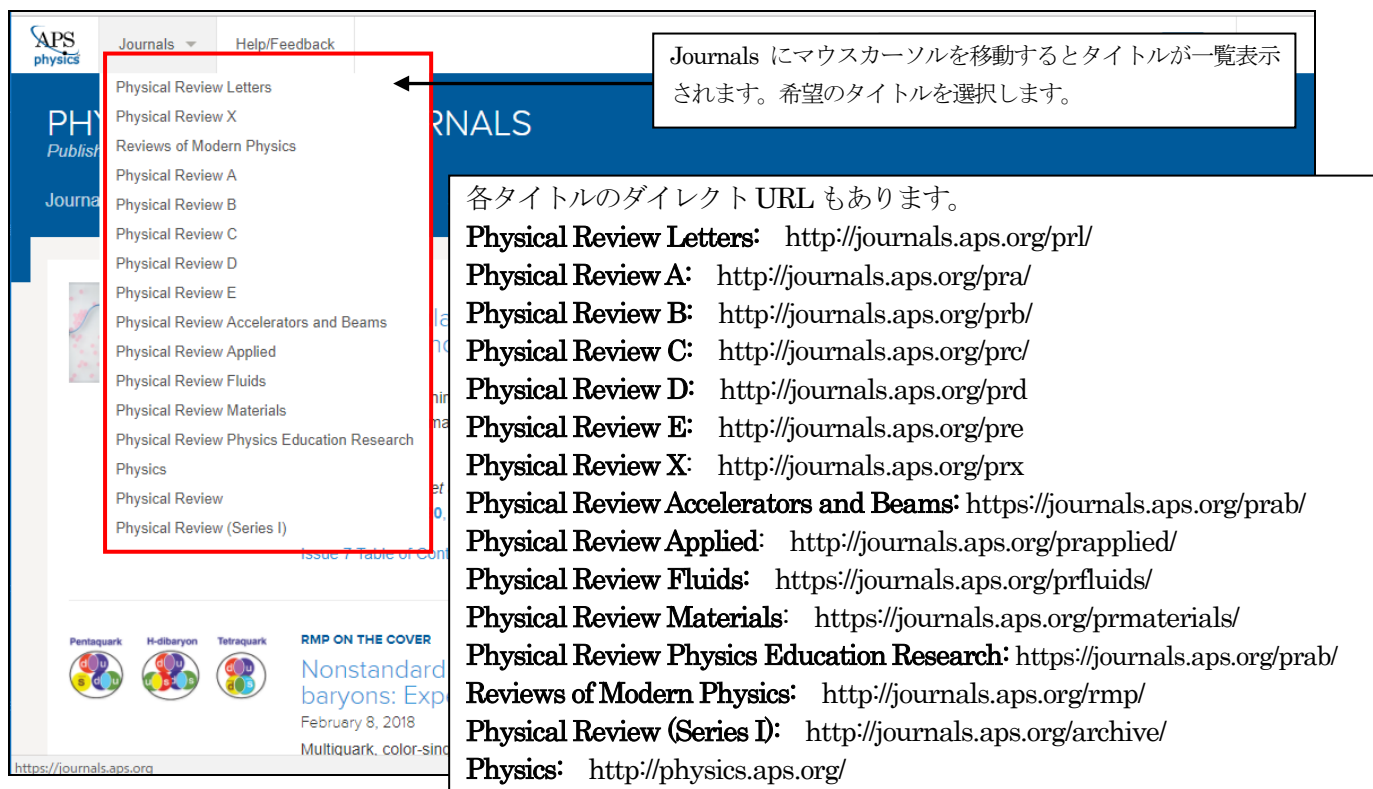
1. アクセスと雑誌タイトルの選択

APS Journals ホームのアクセス URL : <http://journals.aps.org/>



APS Journals ホーム

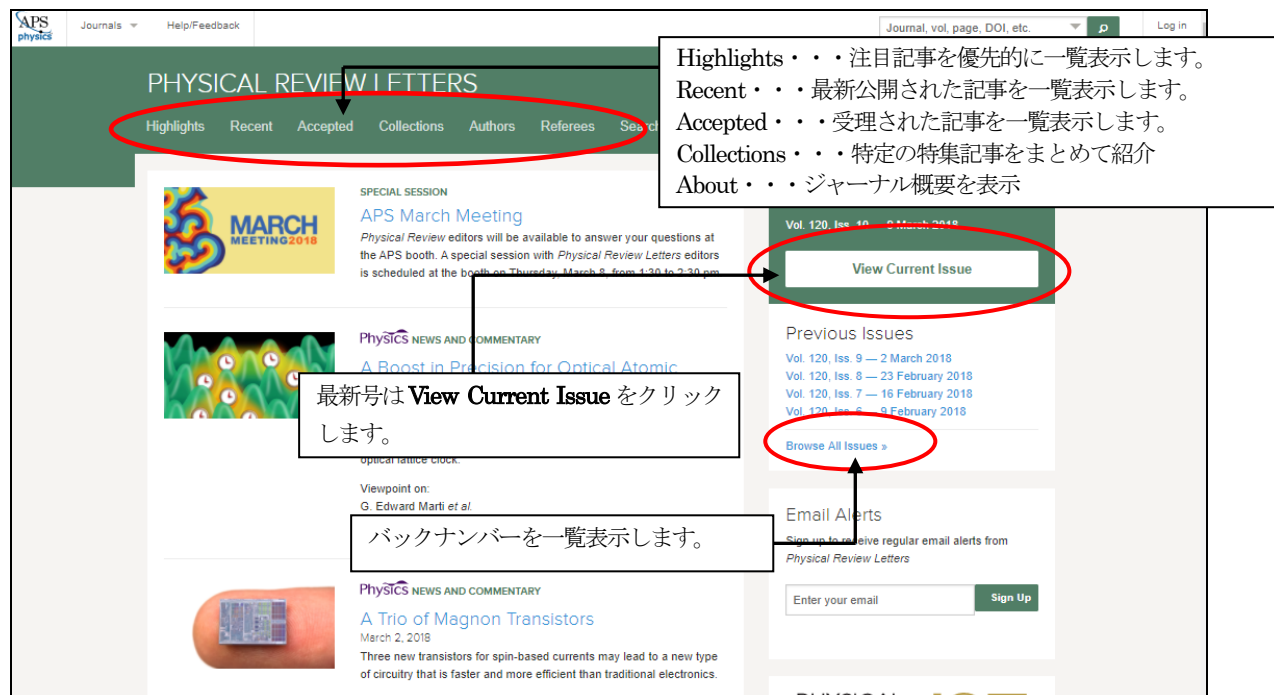
ジャーナルタイトルの選択は、APS Journals ホームの **Browse** から一覧表示、もしくは画面上のメニュー「**Journals**」の付近にマウスカソールを置くと一覧表示されます。



2. 記事の閲覧

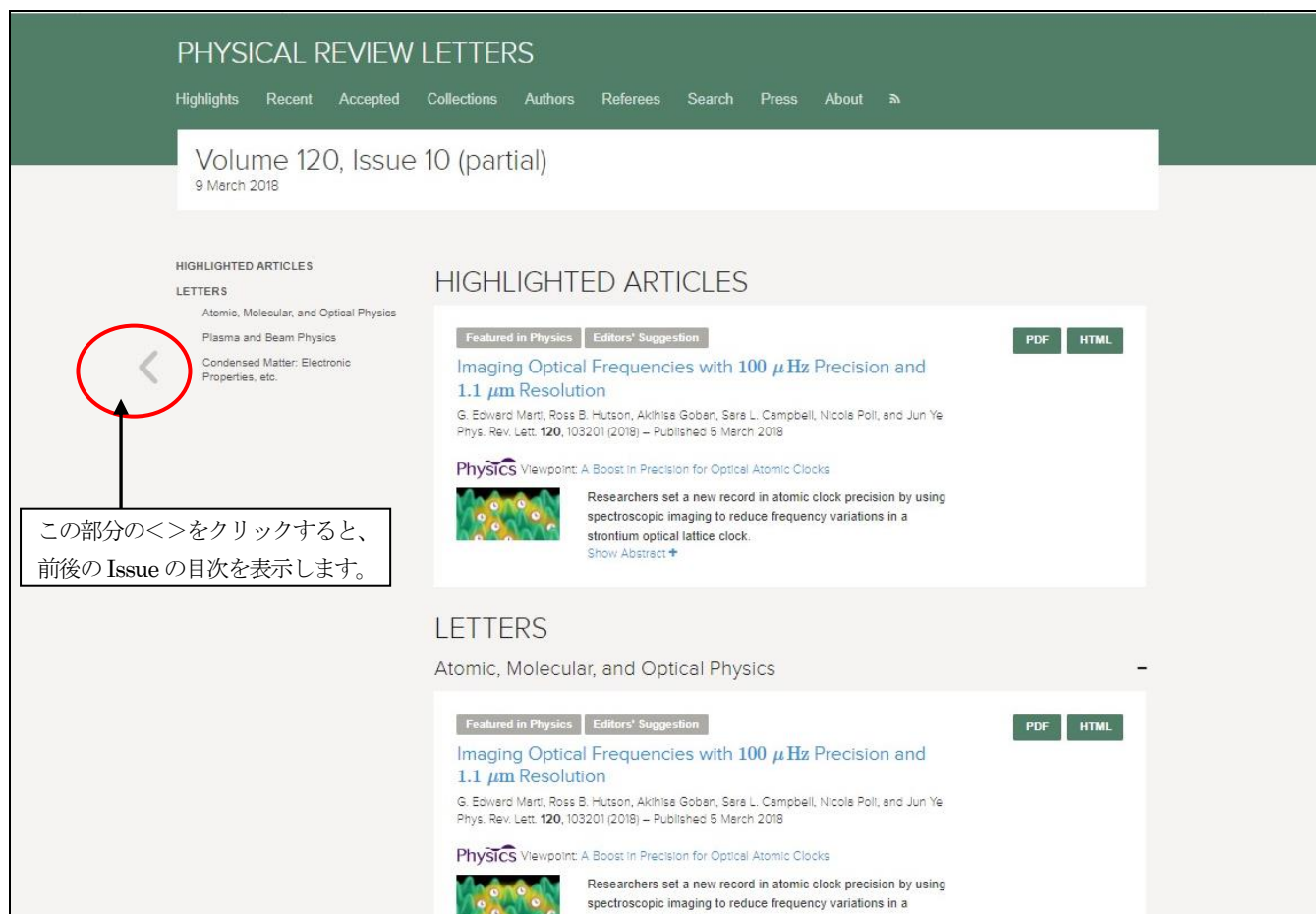
1) 最新号 (Current Issue) へのアクセス

APS Journals ホームから特定のタイトルを選択すると、そのジャーナルのホーム画面を表示します。



ジャーナルタイトルホーム前半部分 (Physical Review Letters)

最新号 (Current Issue) の目次を表示するには、ホーム画面右の **View Current Issue** ボタン、もしくは画面下のメニューバー **Current Issue** をクリックします。



2) バックナンバーへのアクセス

バックナンバーから目的の巻号を選択して記事を表示するには、ホーム画面の「Browse All Issues」のリンクをクリック、もしくは Recent Articles のページ画面左の Recent Issues の Earlier Issues のリンクをクリックします。

PHYSICAL REVIEW B
covering condensed matter and materials physics

Highlights Recent Accepted Authors Referees Search Press About

PHYSICAL REVIEW B
covering condensed matter and materials physics

Highlights Recent Accepted Authors Referees Search Press About

Recent Articles

Recent Issues

- Vol. 97, Iss. 7
15 February 2018
- Vol. 97, Iss. 8
15 February 2018
- Vol. 97, Iss. 5
1 February 2018
- Vol. 97, Iss. 6
1 February 2018
- Vol. 97, Iss. 8
1 February 2018
- [Earlier Issues](#)

Category

Meta-screening and permanence of polar distortion in m
Hong Jian Zhao, Alessio Filippetti, Carlos Escorihuela-Sayalero, Pietro Delugas, Enric C
Fiorentini, and Jorge Iñiguez
Phys. Rev. B **97**, 054107 (2018) – Published 15 February 2018
[Show Abstract](#)

Enhancement and destruction of spin-Peierls physics in a
quantum magnet under pressure
Costel R. Rotundu, Jiejia Wen, Wei He, Yongseong Choi, Daniel Haskel, and Young S.
Phys. Rev. B **97**, 054415 (2018) – Published 15 February 2018
[Show Abstract](#)

Current Issues
Vol. 97, Iss. 5-8 — February 2018

[View Current Issues](#)

Previous Issues

- Vol. 97, Iss. 1-4 — January 2018
- Vol. 96, Iss. 21-24 — December 2017
- Vol. 96, Iss. 17-20 — November 2017
- Vol. 96, Iss. 13-16 — October 2017
- [Browse All Issues »](#)

Email Alerts
Sign up to receive regular email alerts from *Physical Review B*

PHYSICAL REVIEW B
covering condensed matter and materials physics

Highlights Recent Accepted Authors Referees Search Press About

Volumes & Issues

Volume 97 January - Present

- Issue 1 1 January 2018 (010001 — 019908)
- Issue 2 1 January 2018 (020101 — 024520)
- Issue 3 1 January 2018 (030001 — 039905)
- Issue 4 15 January 2018 (041101 — 045433)
- Issue 5 1 February 2018 (*partial*)
- Issue 6 1 February 2018 (*partial*)
- Issue 7 15 February 2018 (*partial*)
- Issue 8 15 February 2018 (*partial*)

Volume 96 July - December 2017

Volume 95 January - June 2017

Volume 94 July - December 2016

Volume 93 January - June 2016

Volume 92 July - December 2015

Volume 91 January - June 2015

Volume 90 July - December 2014

Volume 89 January - June 2014

Volume 88 July - December 2013

Volume 87 January - June 2013

Volume 86 July - December 2012

Volume 85 January - June 2012

Volume 84 July - December 2011

Volume 83 January - June 2011

Volume 82 July - December 2010

Volume 81 January - June 2010

Volume 80 July - December 2009

Volume 79 January - June 2009

Volume 78 July - December 2008

Volume 77 January - June 2008

Volume 76 July - December 2007

創刊号 (Physical Review は 1970 年の new series) まで閲覧できます。
※さらに古い physical Review と Physical Review Series I は、Archive の
リンクから表示できます。
受理された記事は、順次掲載されるため、記事掲載が完結していない号には
partial と表示されます。

巻号一覧表示画面 (例 : Physical Review B)

3) Accepted Papers (受理された論文)

受理された論文について、随時公開しています。ただし、全文ではなく抄録までとなります。

PHYSICAL REVIEW LETTERS

Highlights Recent **Accepted** Collections Authors Referees Search

ジャーナルホームの **Accepted** のリンクをクリックすると、受理された論文が一覧表示されます。

Accepted Papers

Section

- ☒ ALL
- ☐ General Physics: Statistical and Quantum Mechanics, Quantum Information, etc. (24)
- ☐ Gravitation and Astrophysics (7)
- ☐ Elementary Particles and Fields (20)
- ☐ Nuclear Physics (9)
- ☐ Atomic, Molecular, and Optical Physics (30)
- ☐ Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc. (14)
- ☐ Plasma and Beam Physics (11)
- ☐ Condensed Matter: Structure, etc. (23)
- ☐ Condensed Matter: Electronic Properties, etc. (61)
- ☐ Polymer, Soft Matter, Biological, Climate, and Interdisciplinary Physics (13)
- ☐ Comments (1)

Derivation of the Boltzmann equation for financial Brownian motion: Direct observation of the collective motion of high-frequency traders
Kiyoshi Kanazawa, Takumi Sueshige, Hideki Takayasu, and Misako Takayasu
Accepted 15 February 2018

Observation of high transformer ratio of shaped bunch generated by emittance-exchange beam line
Q. Gao, G. He, C. Jing, S. P. Antipov, J. G. Power, M. Conde, W. Gal, H. Chen, J. Shi, E. E. Wisniewski, D. S. Doran, W. Liu, C. E. Whiteford, A. Zholents, P. Plot, and S. S. Batutin
Accepted 15 February 2018

Metastable prepores in tension-free lipid bilayers
Christina L. Ting, Neha Awasthi, Marcus Müller, and Jochen S. Hub
Accepted 15 February 2018

Nonreciprocal thermal material by spatiotemporal modulation
Daniel Torrent, Olivier Poncelet, and Jean-Christophe Batsale
Accepted 15 February 2018

タイトルをクリックすると抄録が表示されます。この時点では、出版された日付、掲載巻号、記事番号は付与されていません。

PHYSICAL REVIEW LETTERS

Highlights Recent Accepted Collections Authors Referees Search Press About

Accepted Paper

Derivation of the Boltzmann equation for financial Brownian motion: Direct observation of the collective motion of high-frequency traders

Phys. Rev. Lett.

Kiyoshi Kanazawa, Takumi Sueshige, Hideki Takayasu, and Misako Takayasu

Accepted 15 February 2018

ABSTRACT

ABSTRACT

A microscopic model is established for financial Brownian motion from the direct observation of the dynamics of high-frequency traders (HFTs) in a foreign exchange market. Furthermore, a theoretical framework parallel to molecular kinetic theory is developed for the systematic description of the financial market from microscopic dynamics of HFTs. We report first on a microscopic empirical laws of traders' trend-following behavior by tracking the trajectories of all individuals, which quantifies the collective motion of HFTs but has not been captured in conventional order-book models. We next introduce the corresponding microscopic model of HFTs and present its theoretical solution paralleling molecular kinetic theory: Boltzmann-like and Langevin-like equations are derived from the microscopic dynamics via the BBGKY hierarchy. Our model is the first microscopic model that has been directly validated through data analysis of the microscopic dynamics, exhibiting quantitative agreements with mesoscopic and macroscopic empirical results.

4) Abstract の表示

目次一覧表示画面および記事タイトルをクリックすると、その記事の Abstract を表示します。

PHYSICAL REVIEW LETTERS

Highlights Recent Accepted Collections Authors Referees Search

Altmetric による記事単位の利用状況を表示します。

Featured in Physics Editors' Suggestion Open Access

Measurement of Atmospheric Neutrino Oscillations at 6–56 GeV with IceCube DeepCore

M. G. Aartsen et al. (IceCube Collaboration)
Phys. Rev. Lett. **120**, 071801 – Published 13 February 2018

Physics See Synopsis: Putting Neutrino Oscillations on Ice

Article PDF HTML Export Citation

Facebook や Twitter サービスに利用された場合のカウントを表示します。

PDF・・・全文を表示します。
Export Citations・・・書誌情報をダウンロード (Tex と RIS 形式)。

★表示バナーについて
記事の中には注意を喚起するためにいくつかのアイコンが付与されています。
Editor's Suggestion・・・編集者から読者へ議論を喚起したい記事について付与されます。
Featured in Physics・・・無料の電子ジャーナル「Physics」に取り上げられた記事に付与されます。Abstract 表示画面から Physics の該当記事にリンクできます。
PRL Milestone・・・Physical Review Letters の 50 周年を記念して掲載された記念碑的の記事に付与されます。
Open Access・・・無料公開記事に付与されます。

Revised 5 December 2017 Received 25 July 2017
DOI: <https://doi.org/10.1103/PhysRevLett.120.071801>

Published by the American Physical Society under the terms of the [Creative Commons Attribution 4.0 International license](#). Further distribution of this work must maintain attribution to the author(s) and the published article's title, journal citation, and DOI. Funded by SCOAP³.

Physics Subject Headings (PhySH)

- Research Areas: Neutrino oscillations
- Physical Systems: Neutrinos
- Techniques: Cherenkov detectors, Neutrino detectors, Particle mixing & oscillations
- Particles & Fields

オープンアクセス記事 (SCOAP³ によるオープンアクセスなど) については、その旨の記載があります。

PhysICS SYNOPSIS

Putting Neutrino Oscillations on Ice

Published 13 February 2018

The IceCube mission in the ice of Antarctica has measured neutrino oscillations at energies higher than any previous observation.

See more in Physics

Abstract 画面

5) Full text (全文) の表示

目次、検索結果一覧表示、Abstract 表示から PDF または HTML のリンクをクリックすると、全文を表示します。

PHYSICAL REVIEW LETTERS

Highlights Recent Accepted Collections Authors Referees Search Press About

Featured in Physics Editors' Suggestion Open Access

Observation of Gravitational Waves from a Binary Black Hole Merger

B. P. Abbott *et al.* (LIGO Scientific Collaboration and Virgo Collaboration)
Phys. Rev. Lett. **116**, 061102 – Published 11 February 2016

PhysICS See Viewpoint: [The First Sounds of Merging Black Holes](#)

Article PDF HTML Export Citation

ABSTRACT

On September 14, 2015 at 09:50:45 UTC the two detectors of the Laser Interferometer Gravitational-Wave Observatory simultaneously observed a transient gravitational-wave signal. The signal sweeps upwards in frequency from 35 to 250 Hz with a peak gravitational-wave strain of 1.0×10^{-21} . It matches the waveform predicted by general relativity for the inspiral and merger of a pair of black holes and the ringdown of the resulting single black hole. The signal was observed with a matched filter signal-to-noise ratio of 24 and a false alarm rate estimated to be less than 1 event per 203 000 years, equivalent to a significance greater than 5.1σ . The source lies at a luminosity distance of 410^{+160}_{-180} Mpc, corresponding to a redshift $z = 0.09^{+0.03}_{-0.04}$. In the source frame, the initial black hole masses are $36^{+5}_{-4} M_{\odot}$ and $29^{+4}_{-4} M_{\odot}$, and the final black hole mass is $62^{+4}_{-4} M_{\odot}$, with $3.8^{+0.5}_{-0.5} M_{\odot} c^2$ radiated in gravitational waves. All uncertainties define 90% credible intervals. These observations demonstrate the existence of binary stellar-mass black hole systems. This is the first direct detection of gravitational waves and the first observation of a binary black hole merger.

DOI: 10.1103/PhysRevLett.116.061102

I. INTRODUCTION

In 1916, the year after the final formulation of the field equations of general relativity, Albert Einstein predicted the existence of gravitational waves. He found that

The discovery of the binary pulsar system PSR B1913+16 by Hulse and Taylor [20] and subsequent observations of its energy loss by Taylor and Weisberg [21] demonstrated the existence of gravitational waves. This discovery, along with emerging astrophysical understanding [22]

PDF 全文表示画面

DOI (記事に付与される固有の番号) をクリックすると、Abstract 表示画面に戻ります。

HTML 全文表示画面

ARTICLE TEXT

I. INTRODUCTION

In 1916, the year after the final formulation of the field equations of general relativity, Albert Einstein predicted the existence of gravitational waves. He found that the linearized weak-field equations had wave solutions: transverse waves of spatial strain that travel at the speed of light, generated by time variations of the quadrupole moment of the source [1]. Einstein understood that gravitational-wave amplitudes would be remarkably small, moreover, until the Chapel Hill conference in 1957 there was significant debate about the physical reality of gravitational waves [2].

Also in 1916, Schwarzschild published a solution for the field equations [4] that was later understood to describe a black hole [5, 6], and in 1963 Kerr generalized the solution to rotating black holes [7]. Starting in the 1970s theoretical work led to the understanding of black hole quasi-normal modes [8–10]. Advances in observational techniques, together with the discovery of the first gravitational waves [11–13], led to the recognition that direct observations of the amplitude and phase of gravitational waves would enable studies of additional relativistic systems and provide new tests of general relativity, especially in the dynamic strong-field regime.

Experiments to detect gravitational waves began with Weber and his resonant mass detectors in the 1960s [23], followed by an international network of cryogenic resonant detectors [24].

図・表をクリックすると拡大表示します。

6) 参考文献 (References) 表示とレファレンスリンク

記事の参考文献 (References) リストからその電子ジャーナルの記事にリンクできます (全文表示には別途そのジャーナルのアクセス権が必要な場合があります)。また記事によっては外部データベース ArXiv (無料公開されている物理・数学・天文学系のプレプリントサーバー) での書誌情報も表示できます。

REFERENCES

1. R. J. Schoelkopf and S. M. Girvin, *Nature* (London) **451**, 664 (2008).
2. M. H. Devoret and R. J. Schoelkopf, *Science* **339**, 1169 (2013).
3. J. Kelly *et al.*, *Nature* (London) **519**, 66 (2015).
4. A. D. Córcoles, E. Magesan, S. J. Srinivasan, A. W. Chow, *Nat. Commun.* **6**, 6979 (2015).
5. H. J. Kimble, *Nature* (London) **453**, 1023 (2000).
6. H.-J. Briegel, W. Dür, J. I. Cirac, and P. Zoller, *Phys. Rev. Lett.* **81**, 1957 (1998).
7. M. D. Lukin, S. J. Srinivasan, and A. D. Córcoles, *arXiv preprint quant-ph/1508.00404* (2015).
8. C. H. van der Wal, L. I. Childress, and A. S. Sørensen, *Phys. Rev. Lett.* **93**, 060503 (2004).
9. P. Rabl, D. DeMille, J. M. Doyle, M. D. Lukin, R. J. Schoelkopf, and P. Zoller, *Nat. Phys.* **2**, 636 (2006).
10. C. Crepeau, D. Gottesman, and A. Smith, *arXiv preprint quant-ph/0608097* (2006).
11. M. Ben-Or, C. Crepeau, D. Gottesman, A. Hassid, and A. S. Sørensen, *47th Annual IEEE Symposium on Foundations of Computer Science*, Washington, D.C., 2006).
12. P. Kómár, E. M. Kessler, M. Bishof, L. Jiang, A. S. Sørensen, and P. Zoller, *Phys. Rev. Lett.* **110**, 050504 (2013).
13. N. Gisin, G. Ribordy, W. Tittel, and H. Zbinden, *Rev. Mod. Phys.* **74**, 145 (2002).
14. A. S. Sørensen, C. H. van der Wal, L. I. Childress, and A. D. Córcoles, *Phys. Rev. Lett.* **93**, 060503 (2004).
15. P. Rabl, D. DeMille, J. M. Doyle, M. D. Lukin, R. J. Schoelkopf, and P. Zoller, *Nat. Phys.* **2**, 636 (2006).
16. A. Andre, D. DeMille, J. M. Doyle, M. D. Lukin, S. J. Srinivasan, and P. Zoller, *Nat. Phys.* **2**, 636 (2006).
17. M. Wallquist, K. Hammerer, P. Rabl, M. Lukin, and P. Zoller, *Nat. Phys.* **2**, 636 (2006).
18. J. M. Taylor, A. S. Sørensen, C. M. Marcus, and E. M. Kessler, *Phys. Rev. Lett.* **108**, 080501 (2012).

The screenshot shows the article page on the Nature Communications website. The article title is 'Demonstration of a quantum error detection code using a square lattice of four superconducting qubits'. The authors listed are A.D. Córcoles, Easwar Magesan, Srikanth J. Srinivasan, Andrew W. Cross, M. Steffen, Jay M. Gambetta, and Jerry M. Chow. The article was received on 16 January 2015, accepted on 18 March 2015, and published online on 29 April 2015. The article number is 6979 (2015). The doi is 10.1038/ncomms7979. The article is categorized under 'Applied physics' and 'Qubits'. The abstract is partially visible, starting with 'The ability to detect and deal with errors when manipulating quantum'.

4件目 Nature Communicationsをクリック。

7) 被引用記事 (Citing Articles) の表示

表示されている記事が他のジャーナルの記事に引用されていれば、記事表示画面の **Citing Articles** を選択して記事情報を一覧表示します。タイトルをクリックすると、その電子ジャーナルの記事を表示できます（全文表示には別途そのジャーナルのアクセス権が必要な場合があります）。

PHYSICAL REVIEW APPLIED

Highlights Recent Subjects Accepted Collections Authors Referees Search Press About Staff

Open Access

Coherent Control of Plasmon Propagation in a Nanocircuit

Christian Rewitz, Gary Razinskas, Peter Geisler, Enno Krauss, Sebastian Goetz, Monika Pawłowska, Bert Hecht, and Tobias Brixner
Phys. Rev. Applied 1, 014007 – Published 27 February 2017

Article References **Citing Articles (17)**

ABSTRACT

The miniaturization of optical devices is compete with cutting-edge nanoelectronic spatial and temporal evolution of surface insulator interfaces, is a key feature. Here, we present a directional coupler with one input and two output ports. The directional coupler is based on eigenmodes that can be selectively excited and pulse pairs and by characterizing the loop ultrafast spatial and spatiotemporal intuitive and optimized design, which exhibits the linear input polarization is enough to couple. Since we exploit the interference, we represent a very intuitive classical analog.

Journal

ALL

- Chinese Phys. Lett. (2)
- ACS Photonics (1)
- Adv. Mater. Technol. (1)
- Appl. Phys. B (1)
- Appl. Phys. Lett. (1)
- IEEE Photon. Technol. Lett. (1)
- J. Opt. Soc. Am. B (1)
- Nano Lett. (1)
- Nanoscale (1)
- Nat Comms (1)
- New J. Phys. (1)
- Opt. Express (1)
- Optica (1)
- Phys. Rev. A (1)
- Phys. Rev. B (1)

Molecular plasmonics: The role of rovibrational molecular states in exciton-plasmon materials under strong-coupling conditions
Maxim Sukharev and Eric Cherron
Phys. Rev. B **95** 115406 (2017)

Dual-SNOM investigations of multimode interference in plasmonic strip waveguides
Agnieszka F. Kowalska, Marcin Kowalski, Enno Krauss, Sebastian Goetz, Peter Geisler, Christian Rewitz, Bert Hecht, Tobias Brixner, and Gary Razinskas
IEEE Photon. Technol. Lett. **29** 663 (2017)

Waveguides
Solmaz Naghizadeh, Aqeel Afridi, Ongun Arisev, Aziz Karahasan, and Sukru Ekin Kocabas
IEEE Photon. Technol. Lett. **29** 663 (2017)

Multimode Metallic Double-Strip Waveguides for Polarization Manipulation
Fengyuan Gan, Chengwei Sun, Yujia Wang, Hongyun Li, Qihuang Gong, and Jianjun Chen
Adv. Mater. Technol. **2** 1600248 (2017)

引用記事を雑誌タイトルごとに件数表示し、任意のタイトルをクリックすると、そのタイトルでの被引用記事を一覧表示できます。

8) Supplemental Material

記事の中には追加情報をファイルとして追加しているものがあります。実験データ、テキスト、写真・画像などのグラフィックス、動画なども搭載しています。

Supplemental Material を選択すると搭載されているファイルが一覧表示されます。

動画ファイルを見るには、別途 Windows Media Player などのビューアソフトのインストールが必要です。

The screenshot shows a journal article titled "Dynamical inference: Where phase synchronization and generalized synchronization meet" by Tomislav Stankovski, Peter V. E. McClintock, and Aneta Stefanoski. The 'Supplemental Material' tab is selected, showing a list of files. A red circle highlights a video file named 'Video1.wmv'. A red arrow points from this file to a Windows Media Player window that is playing the video. The video shows a green trajectory on a dark background, resembling a phase space plot.

9) 書誌情報のダウンロード (文献管理ツールへの取り込み)

記事の書誌情報をファイルにダウンロードして文献管理ツール (EndNote®, Mendeley など) に取り込むことができます。ダウンロードしたファイルは文献管理ツールからインポートできます。

記事表示画面の **Export Citation** ボタンをクリックします。ポップアップで書誌情報の形式とダウンロードの画面が表示されます。

BibTex もしくは EndNote (RIS) をします。ダウンロードボタンをクリックすると、表示している形式でファイルにダウンロードします。

EndNote デスクトップ版ではダイレクトにインポートできます。

The screenshot shows the 'Export Article' dialog box with the 'Format' dropdown set to 'EndNote (RIS)'. The 'Download' button is highlighted. Below the dialog box, the EndNote desktop application is shown with the 'Import' menu open, indicating the next step in the process.

1 0) 共著者名の表示

国際的な大きな研究プロジェクトでの共同研究の場合、共著者が大人数になる場合があります。記事表示での全著者名と所属機関については、表示できるようにしてあります。AUTHORS & AFFILIATIONS の+をクリックします。

Received 18 September 2017

DOI: <https://doi.org/10.1103/PhysRevLett.120.081801>

Published by the American Physical Society under the terms of the [Creative Commons Attribution 4.0 International license](#). Further distribution of this work must be to the author(s) and the published article's title, journal citation, and DOI. Full article on the publisher's site: [View Article](#)

© 2018 CERN, for the CMS Collaboration

Physics Subject Headings (PhySH)

Research Areas: Electroweak interaction, W & Z bosons

Particles & Fields

AUTHORS & AFFILIATIONS
CLICK TO EXPAND

AUTHORS & AFFILIATIONS

A. M. Sirunyan¹, A. Tumasyan¹, W. Adam², F. Ambrogio², E. Asilar², T. Bergauer², J. Brandstetter², E. Brondolin², M. Dragicevic², J. Erö², M. Flechl², M. Friedl², R. Frühwirth^{2b}, V. M. Ghete², J. Grossmann², J. Hrubec², M. Jeitler^{2b}, A. König², N. Krammer², I. Krätschmer², D. Liko², T. Madlener², I. Mikulec², E. Pree², N. Rad², H. Rohringer², J. Schieck^{2b}, R. Schöfbeck², M. Spanring², D. Spitzbarth², W. Waltenberger², J. Wittmann², C.-E. Wulz^{2b}, M. Zarucki², V. Chekhovsky³, V. Mossolov³, J. Suarez Gonzalez³, E. A. De Wolf⁴, D. Di Croce⁵, X. Janssen⁴, J. Lauwers⁴, M. Van De Klundert⁴, H. Van Haevermaet⁴, P. Van Mechelen⁴, N. Van Remortel⁴, S. Abu Zeid⁵, F. Blekman⁵, J. D'Hondt⁵, I. De Bruyn⁵, J. De Clercq⁵, K. Deroover⁵, G. Flouris⁵, D. Longtkovsky⁵, S. Lowette⁵, S. Moortgat⁵, L. Moreels⁵, Q. Python⁵, K. Skovpen⁵, S. Tavernier⁵, W. Van Doninck⁵, P. Van Mulders⁵, I. Van Parijs⁵, D. Beghin⁶, H. Brun⁶, B. Clerbaux⁶, G. De Lentdecker⁶, H. Delannoy⁶, B. Dorney⁶, G. Fasanella⁶, L. Favart⁶, R. Goldouzian⁶, A. Grebenyuk⁶, G. Karapostoli⁶, T. Lenzi⁶, J. Luetic⁶, T. Maerschalk⁶, A. Marinov⁶, A. Randle-conde⁶, T. Seva⁶, E. Starling⁶, C. Vander Velde⁶, P. Vanlaere⁶, D. Vannerom⁶, R. Yonamine⁶, F. Zenoni⁶, F. Zhang^{6,c}, A. Cimmino⁷, T. Cornelis⁷, D. Dobur⁷, A. Fagot⁷, M. Gul⁷, I. Khvastunov^{7,d}, D. Poyraz⁷, C. Roskas⁷, S. Salva⁷, M. Tytgat⁷, W. Verbeke⁷, N. Zaganidis⁷, H. Bakhshiansohi⁸, O. Bondu⁸, S. Brochet⁸, G. Bruno⁸, C. Caputo⁸, A. Caudron⁸, P. David⁸, S. De Visscher⁸, C. Delaere⁸, M. Delcourt⁸, B. Francois⁸, A. Giammarco⁸, M. Komm⁸, G. Krintiras⁸, V. Lemaître⁸, A. Maglitter⁸, A. Mertens⁸, M. Musich⁸, K. Piotrkowski⁸, L. Quertenmont⁸, A. Saggio⁸, M. Vidal Marono⁸, S. Wertz⁸, J. Zobec⁸, N. Beliy⁹, W. L. Aldá Júnior¹⁰, F. L. Alves¹⁰, G. A. Alves¹⁰, L. Brito¹⁰, M. Correa Martins Junior¹⁰, C. Hense¹⁰, A. Moraes¹⁰, M. E. Pol¹⁰, P. Rebello Teles¹⁰, E. Belchior Batista Das Chagas¹¹, W. Carvalho¹¹, J. Chinellato^{11,e}, E. Coelho¹¹, E. M. Da Costa¹¹, G. G. Da Silveira^{11,f}, D. De Jesus Damiao¹¹, S. Fonseca De Souza¹¹, L. M. Huertas Guatima¹¹, H. Malbouisson¹¹, M. Melo De Almeida¹¹, C. Mora Herrera¹¹, L. Mundim¹¹, H. Nogima¹¹, L. J. Sanchez Rosas¹¹, A. Santoro¹¹, A. Sznajder¹¹, M. Thiel¹¹, E. J. Tonelli Manganote^{11,g}, F. Torres Da Silva De Araujo¹¹, A. Vilela Pereira¹¹, S. Ahuja^{12a}, C. A. Bernardes^{12a}, T. R. Fernandez Perez Tomei^{12a}, E. M. Gregores^{12b}, P. G. Mercadante^{12b}, S. F. Novaes^{12a}, Sandra S. Padula^{12a}, D. Romero Abad^{12b}, J. C. Ruiz Vargas^{12a}, A. Aleksandrov¹³, R. Hadjiliska¹³, P. Iaydjiev¹³, M. Misheva¹³, M. Rodozov¹³, M.

1 1) 記事単位での利用統計情報 (Altmetric score)

Altmetric 社の技術を利用して記事単位での利用状況 (ブログへの引用, SNS へのシェアなど) を表示できます。

PHYSICAL REVIEW LETTERS

例: 2016 年 2 月の LIGO による重力波観測の論文

Featured in Physics Editors' Suggestion Open Access

Observation of Gravitational Waves from a Binary Black Hole Merger

B. P. Abbott *et al.* (LIGO Scientific Collaboration and Virgo Collaboration)
Phys. Rev. Lett. **116**, 061102 – Published 11 February 2016

PhysX See Viewpoint: The First Sounds of Merging Black Holes

Article PDF HTML Export Citation

Picked up by 125 news outlets
Blogged by 58
Tweeted by 4344
On 118 Facebook pages
Referenced in 41 Wikipedia pages
Mentioned in 220 Google+ posts
Reddited by 2
Mentioned in 8 Q&A threads
On 1 videos
2846 readers on Mendeley
7 readers on CiteULike
See more details | Close this

Altmetric 5025

Summary News Blogs Twitter Facebook Wikipedia Google+ Reddit Q&A Video

Title: Observation of Gravitational Waves from a Binary Black Hole Merger
Published in: Physical Review Letters, February 2016
DOI: 10.1103/physrevlett.116.061102
Pubmed ID: 26918975
Authors: B. P. Abbott, R. Abbott, T. D. Abbott, M. R. Abernathy, F. Acernese, C. Ackley, C. Adams, T. Adami, et al.
Abstract: On September 14, 2015 at 09:50:45 UTC the two detectors of the Laser Interferometer Gravitational-Wave Observatory (LIGO) observed a signal consistent with the merger of two black holes.

Twitter Demographics

Mendeley Readers

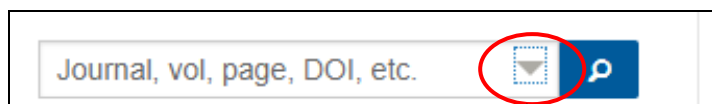
The data shown below were collected from the profiles of 4,344 tweeters who shared this research output. [Click here to find out more about how the information was compiled.](#)

Japan Tweepsters: 307

世界地図の国にカーソルを合わせると、その国のツイート数が表示されます

3. 記事の検索

検索は、ホーム画面上にある検索ボックス、もしくは Search メニュー画面から行います。



検索ボックスは、APS Journals ホームのほか、各ジャーナルのホームページなど、どのページにも必ず表示されます。

検索ボックスの▼をクリックすると、検索項目を指定できる詳細検索画面と Article Lookup 検索を表示します。

詳細検索画面

Search メニューから詳細検索画面 (<https://journals.aps.org/search>) を表示することもできます。

詳細検索では、検索項目、年度の範囲、特定のジャーナルに限定、記事カテゴリーの限定、検索結果の並べ替えなど細かい設定で検索できます。

＋をクリックすると、行を追加できます。

All Field・・・全項目を対象
 Author・・・著者名
 Abstract・・・抄録
 Abstract/Title・・・抄録と標題
 Title・・・標題を対象
 Cited Author・・・被引用著者
 Affiliation・・・著者所属機関
 Collaboration・・・共同研究団体（コラボレーション）

Filters

Date:

Any time Past Week Past Month Past Year Custom Range

Journal:

Phys. Rev. Lett. Phys. Rev. X Rev. Mod. Phys.
 Phys. Rev. B Phys. Rev. C Phys. Rev. D
 Phys. Rev. Accel. Beams Phys. Rev. Applied Phys. Rev. Fluids
 Phys. Rev. Phys. Educ. Res. Physics Phys. Rev. Materials
 Phys. Rev. Focus Phys. Rev. (Series I)

Category:

Featured in Physics Editors' Suggestion Open Access PRL Milestone

Search

1) 検索の基本

- 大文字・小文字の区別はしません。
- 単純な単数形・複数形 (-s, -es, -ies) は自動的に検索します。
例: battery → battery, batteries を検索対象にする。
- 異なる綴りの複数形、米国・英国綴り、名詞形、分詞形は区別して検索します。
例: mouse → mouse のみ検索。複数形の mice は検索しない
- 記号 (ハイフン、+、-、=、<、>、#、!、/ など) は検索されません。
- 数式記号 ($\sqrt{\quad}$ 、 $\int$ など) は検索できません。
- 詳細検索では、ブール演算 (AND、OR、NOT) が利用できます。
AND・・・ともに存在する記事を検索。
OR・・・どちらかの単語が存在する記事を検索。
NOT・・・最初の語を含む検索集合から次の語を含む集合を除外します。
- ワイルドカード (*)・・・*記号で前方一致検索をします。
例: move* → move, movement, moves, mover などを検索。moving, movie は検索しない
- 著者名・・・ファーストネーム、ラストネームの順でフルネームを入力するか、ラストネームで検索します。
例1: hideki yukawa
例2: yukawa (名字が yukawa の著者全てを検索します)
例3: John Archibald Wheeler, John A. Wheeler
ミドルネームがフルで表記とイニシャルで表記の場合は、詳細検索で OR 検索を行います。
1行目: Author: John A Wheeler
2行目: Author: John Archibald Wheeler
- ギリシア文字 (α 、 β 、 γ など) はそのまま検索可能です。
例: γ ray
- 化学式の扱い
例1: V_2O_5 (五酸化バナジウム) → V2O5 で検索。
例2: 金属イオンの価数表記
アラビア数字とローマ数字が混在します。両方検索するには、詳細検索で OR 検索を行います。
例: 三価の鉄 → Fe^{3+} 、Fe(III)、 Fe^{III} などの表記が混在。両端をダブルクォーテーションで囲む。
1行目: "Fe3"
2行目: "FeIII" (I はアルファベットの I)

<検索例: Abstract/Title に「quantum computer」があり、所属機関が「Japan」の記事を被引用数の多い順に検索>

SEARCH

Abstract/Title

"quantum computer"

+

AND

Affiliation

japan

×

Most Cited

▼

Filters

Date:

☒ Any time
☐ Past Week
☐ Past Month
☐ Past Year
☐ Custom Range

Journal:

☐ Phys. Rev. Lett.
☐ Phys. Rev. X
☐ Rev. Mod. Phys.
☐ Phys. Rev. A
☐ Phys. Rev. B
☐ Phys. Rev. C
☐ Phys. Rev. D
☐ Phys. Rev. E
☐ Phys. Rev. Accel. Beams
☐ Phys. Rev. Applied
☐ Phys. Rev. Fluids
☐ Phys. Rev. Materials
☐ Phys. Rev. Phys. Educ. Res.
☐ Physics
☐ Phys. Rev.
☐ Phys. Rev. (Series I)
☐ Phys. Rev. Focus

行を 2 行にして 1 行目 Abstract/Title に変更して、“quantum computer”、2 行目に Affiliation にして、Japan、1 行目と 2 行目は AND に、順番を Most Cited に変更する。

2) Article Lookup

画面右上の検索窓の▼をクリックすると、検索画面がポップアップで表示されます。書誌情報（ジャーナル名、巻号、記事番号）もしくは DOI（記事に付与される固有の番号）から記事を検索して表示できます。参考文献からあらかじめ記事の書誌情報がわかっている場合に使うと便利です。

例： Phys. Rev. Lett. 111, 095504 DOI: 10.1103/PhysRevLett.111.095504

The screenshot shows the 'Article Lookup' search interface. It includes a 'Search' bar at the top with a dropdown menu set to 'All Fields' and a 'Search' button. Below this is the 'Article Lookup' section with a 'Paste a citation or DOI' field containing the example 'e.g. Phys. Rev. Lett. 111, 012345' and a 'Lookup' button. Further down is the 'Enter a citation' section with three input fields: 'Journal:' (containing 'Phys. Rev. Lett.'), 'Volume:', and 'Article:', each followed by a 'Lookup' button. Annotations with arrows point to these fields: one points to the 'Paste a citation or DOI' field with the text '雑誌名略名、DOI をコピー&ペーストして検索できます。'; another points to the 'Journal:' field with the text 'ジャーナル名、巻、記事番号から検索'; and a third points to the 'Volume:' and 'Article:' fields.

3) 検索結果の一覧表示と絞り込み・並べ替え

検索を実行すると、検索結果を一覧表示します。ここから検索結果の絞り込みや並べ替えができます。

The screenshot displays the 'SEARCH RESULTS' page for the query 'quantum computer'. The page shows a list of results with various filters on the left and sorting options at the top. Annotations provide instructions on how to use these features:

- NEW SEARCH / EDIT SEARCH:** A red circle highlights these links at the top of the results page. An annotation states: '新しい検索 (NEW SEARCH)、検索条件の見直し (EDIT SEARCH) は、こちらのリンクをクリック'.
- Sort:** A red circle highlights the 'Sort' dropdown menu, which is currently set to 'Most Cited'. An annotation states: '並べ替えができます。関連性の高い順、新しい順、古い順、被引用数の多い順が選択できます。'.
- Show Abstract / Hide Abstract:** A red circle highlights the 'Show Abstract' link for the first result. An annotation states: 'Show Abstract+をクリックすると、抄録を表示できます。Hide Abstract-で隠せます。'.
- Left Facets:** A bracket groups the left-hand filters (Category, Article Type, Journal). An annotation states: '左側のファセットを選択して、特定の記事カテゴリー、記事のタイプ、ジャーナル、年度範囲で絞り込むことができます。'.

4) 研究分野 (Subject) からブラウズ検索

Physical Review X と Physical Review Applied には、記事に研究分野の Subject が付与されています。

The image shows two screenshots of the Physical Review journals' websites. The top screenshot is for Physical Review X, displaying an article titled "Experimental Evidence of Radiation Reaction in the Collision of a High-Intensity Laser Pulse with a Laser-Wakefield Accelerated Electron Beam". The bottom screenshot is for Physical Review Applied, displaying an article titled "Wet-Chemical Synthesis of Enhanced-Thermopow Nanowire Composites for Solid-State Active Cooling".

Annotations on the Physical Review Applied page include:

- A box pointing to the "Subject Area" section on the right side of the article page, stating: "記事表示画面の右に Subject Area があり、この記事に関連する研究分野が付与されています。Subject をクリックすると、その分野の記事を一覧表示します。" (On the right side of the article display screen, there is a Subject Area, and research fields related to this article are assigned. Clicking Subject will display a list of articles in that field.)
- A red circle around the "Subject Areas" list on the right, which includes: Optics, Particles and Fields, Plasma Physics, Energy Research, Nanophysics, and Semiconductor Physics.
- A red circle around the "Subjects" tab in the top navigation bar of the Physical Review X page.

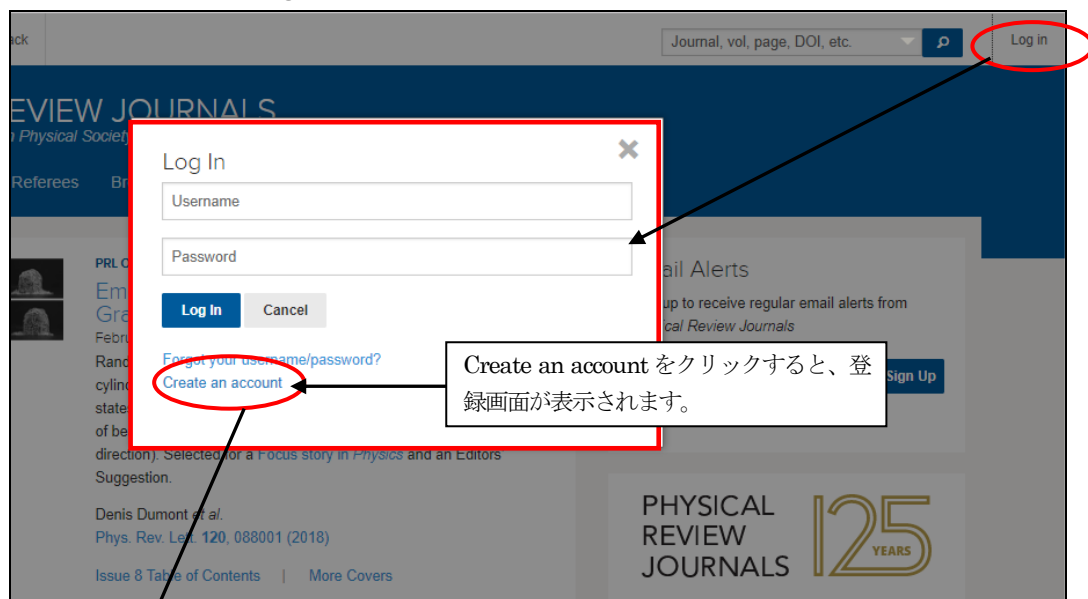
The image shows the "Browse by Subject" page on the Physical Review X website. The "Subjects" tab in the top navigation bar is circled in red. A list of subjects is displayed on the left, with checkboxes next to each. A red circle highlights the "Subjects" tab, and a red circle highlights the "ALL" checkbox. A box points to the list of subjects, stating: "メニューの Subjects をクリックすると、研究分野の記事が多い順に一覧表示します。チェックボックスにチェックすると、その分野の記事を一覧表示します。複数の分野を選択すれば同時にカバーする記事を表示します。" (Clicking Subjects in the menu displays a list of articles in order of the number of articles in that field. Checking the checkboxes will display a list of articles in that field. Selecting multiple fields will display articles that cover multiple fields simultaneously.)

The main content area shows three article previews:

- "Perfect Anomalous Reflection with a Bipartite Huygens' Metasurface" by Alex M. H. Wong and George V. Eleftheriades.
- "Probing the Topology of Density Matrices" by Charles-Edouard Bardyn, Lukas Wöber, Alexander Altland, Michael Fleischhauer, and S.
- "Branches of Triangulated Origami Near the Unfolded State" by Bryan Gin-gu Chen and Christian D. Santangelo.

4. ユーザー登録

ユーザー登録をして Username と Password でログインすると、目次のアラートの管理や検索の保存・呼び出し機能が利用できます。登録は、ホーム画面の Log in をクリックします。



Create a New APS Journals Account

Choose a login username:

Choose a password:

Enter your password again:

Enter your full name:

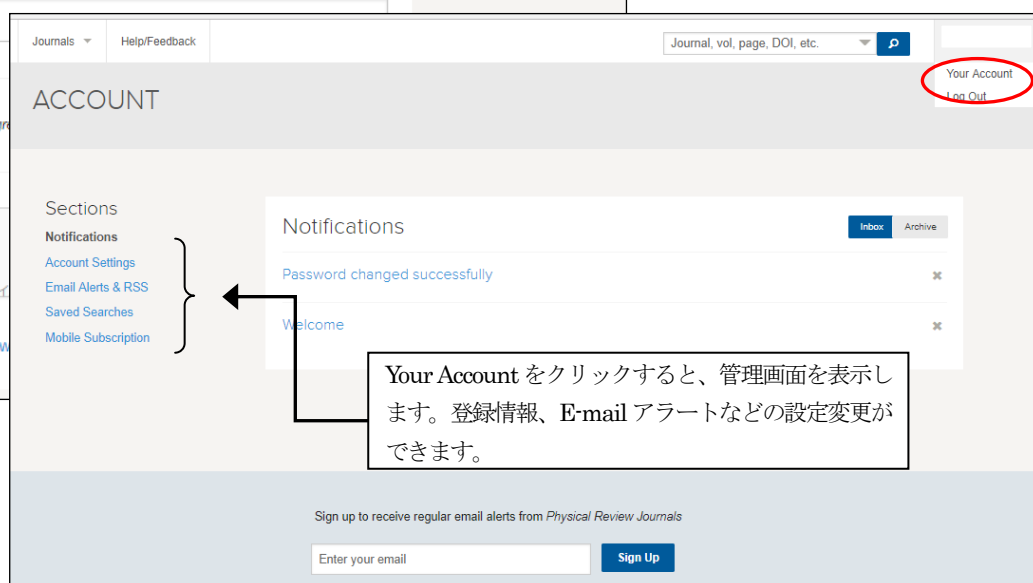
Enter your email address:

☒ By creating an account, you're agreeing to our Terms of Use.

☐ 私はロボットではありません

Create Account or Log in with existing account

username、password、フルネームと E-mail アドレスを記入、「私はロボットではありません」にチェックして Create Account をクリックします。



★ジャーナル目次アラートの設定

各ジャーナルの目次は、E-mail でアラート受信ができます。ユーザー登録は不要で、メールアドレスを登録するだけで設定できます。ホームの「E-mail Alerts」からメールアドレスを入力して登録します。

PHYSICAL REVIEW JOURNALS
Published by the American Physical Society

Journals Authors Referees Browse Search Press

ANNOUNCEMENT
The Irwin Oppenheim Award
March 1, 2018
The editors of *Physical Review E* are pleased to announce the Irwin Oppenheim Award for best paper in *Physical Review E* by young investigators.

Email Alerts
Sign up to receive regular email alerts from *Physical Review Journals*

Enter your email **Sign Up**

Stay informed with APS email alerts
Email alerts for each journal are available and are sent at the end of the month when most journals' issue close (PRL has weekly alerts). We also offer a weekly alert for the new content appearing in *Physics*, our free weekly publication that spotlights exceptional research. Choose the journals below and enter your email address to receive regular email alerts. You can unsubscribe from alerts at any time.

Select All | Deselect All

- ☐ Physical Review A
- ☐ Physical Review B
- ☐ Physical Review C
- ☐ Physical Review D
- ☐ Physical Review E
- ☐ Physical Review Letters
- ☐ Physical Review X
- ☐ Physical Review Accelerators and Beams
- ☐ Physical Review Physics Education Research
- ☐ Reviews of Modern Physics
- ☐ Physical Review Applied
- ☐ Physical Review Fluids
- ☐ Physical Review Materials
- ☐ Other APS Journal Related News

Sign Up

PHYSICAL REVIEW JOURNALS 125 YEARS
1935: Einstein-Podolsky-Rosen paradox challenges quantum theory
View timeline | #PhysRev125

メールアドレスを記入して、希望のタイトルにチェックして、Sign Up をクリックします。
すぐ確認メールが送信されますので、本文のリンクをクリックしてタイトル一覧画面から希望のジャーナルにチェックして設定を完了します。
アラートを解除する場合も同じ方法で画面を表示、チェックを外して Update Preferences をクリックします。

5. RSS Feeds

RSS Feeds は、専用のリーダーソフトもしくはブラウザ (IE7 以上、Firefox、Google Chrome、Safari など) に登録すると、目次や特定の項目・分野の記事を自動的に更新して収集することができます。詳細はそれぞれのリーダーソフト、ブラウザの設定方法を参照下さい。

PHYSICAL REVIEW JOURNALS
Published by the American Physical Society

Journals Authors Referees Browse Search **RSS**

RSS Feeds
APS provides content using RSS feeds as a convenience to our readers. RSS (Really Simple Syndication) is a format that makes it easy to browse content and receive automatic updates when new items are published. To follow an RSS feed, you need to "subscribe" to the feed either within your browser or a dedicated RSS reader. URLs are associated with each feed's icon.

Editor Selected Feeds
Physics
Physics provides daily online-only news and commentary about a selection of papers from the APS journal collection. The website is aimed at the reader who wants to keep up with highlights of physics research with explanations that don't rely on jargon and technical detail.

All Editors' Suggestions
Combined feed of Editors' Suggestions across all APS journals that offer them.

PRL Editors' Suggestions
To promote reading across fields, the editors of *Physical Review Letters* offer "Suggestions" each week of papers that they hope will lead readers to explore other areas of physics. Please see our Announcement PRL 98, 010001 (2007).

PR Applied Editors' Suggestions
PR Materials Editors' Suggestions
PRA Editors' Suggestions
The editors and referees of PRA find these papers to be of particular interest, importance, or clarity. Please see our Announcement PRA 88, 020001 (2013).

PRB Editors' Suggestions
The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement PRB 77, 130001 (2008).

PRC Editors' Suggestions
The editors and referees of PRC find these papers to be of particular interest, importance, or clarity. Please see our Announcement PRC 86, 010001 (2012).

Topics
These feeds cover our journals. No help@aps.org

- Atomic and
- Graphene
- Iron-based
- Magnetic
- Metal-ins
- Metamater
- Photonic
- Plasmonic
- Spintronic
- Strong co
- Topological
- Ultracold

PRL: Condensed Matter: Structure, etc. のフィード
フィードの登録に使用するリーダー: Bloglines | 今すぐ登録
フィードの登録時に常にこのリーダーを使用します。

フィードプレビュー

Temperature Measurement by a Nanoscale Electron Probe Using Energy Gain and Loss Spectroscopy
Author(s): Juan Carlos Idrobo, Andrew R. Lupini, Tianli Feng, Raymond R. Unocic, Franklin S. Walden, Daniel S. Gardner, Tracy C. Lovejoy, Niklas Dellby, Sokrates T. Pantelides, and Ondrej L. Krivanek
Heat dissipation in integrated nanoscale devices is a major issue that requires the development of nanoscale temperature probes. Here, we report the implementation of a method that combines electron energy gain and loss spectroscopy to provide a direct measurement of the local temperature in the nan...

[Phys. Rev. Lett. 120, 095901] Published Fri Mar 02, 2018

Synthesis of Xenon and Iron-Nickel Intermetallic Compounds at Earth's Core Thermodynamic Conditions
Author(s): Elissaios Stavrou, Yansun Yao, Alexander F. Goncharov, Sergey S. Lobanov, Joseph M. Zaug, Hanyu Liu, Eran Greenberg, and Vitali B. Prakapenka
Using in situ synchrotron x-ray diffraction and Raman spectroscopy in concert with first principles calculations we demonstrate the synthesis of stable $\text{Xe}(\text{Fe})$, $\text{Ni}(\text{Fe})$, and $\text{Ni}(\text{Ni})$ compounds at thermodynamic conditions representative of Earth's c...

[Phys. Rev. Lett. 120, 095001] Published Wed Feb 28, 2018

Light-Activated Gigahertz Ferroelectric Domain Dynamics
Author(s): Hirofumi Akamatsu, Yansun Yao, Vladimir A. Stojanovic, Greg Stone, Tiannan Yang, Zijian Hong, Shiming Lei, Yi Zhu, Ryan C. Haismaier, John W. Freeland, Long-Qing Chen, Haidan Wen, and Venkatesan Gopalan
Using time- and spatially resolved hard x-ray diffraction microscopy, the striking structural and electrical dynamics upon optical excitation of a single crystal of BaTiO_3 are simultaneously captured on subnanoseconds and nanoscale within individual ferroelectric domains and across w...

[Phys. Rev. Lett. 120, 096101] Published Mon Feb 26, 2018

Realizing the Haldane Phase with Bosons in Optical Lattices
Author(s): Junjun Xu, Qiang Gu, and Erich J. Mueller
We analyze an experimentally realizable model of bosons in a zigzag optical lattice, showing that, by rapidly modulating the magnetic field, one can tune interaction parameters and realize an analog of the Haldane phase. We explain how quantum gas microscopy can be used to detect this phase's nonloc...

Google Chrome での登録例:
Physical Review Letters の Condensed Matter: Electronic Properties, etc の論文を設定。