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- APS (American Physical Society) 成立於1899年，旨在促進及擴展物理學知識。
- 為全球各研究單位提供在『PHYSICAL REVIEW』上刊載的所有物理學文獻，影響指數IF甚高。
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APS收錄內容

- Physical Review A : 原子, 分子與光學物理
- Physical Review B : 凝聚態與材料物理 台灣高使用量期刊
- Physical Review C : 核物理, 核結構
- Physical Review D : 粒子, 場論, 引力, 宇宙學
- Physical Review E : 統計, 非線性與軟質物理
- Physical Review Letter (台灣高使用量期刊)
- Reviews of Modern Physics (物理領域影響指數排名第一)
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Reviews of Modern Physics

- ISI 2012年指標

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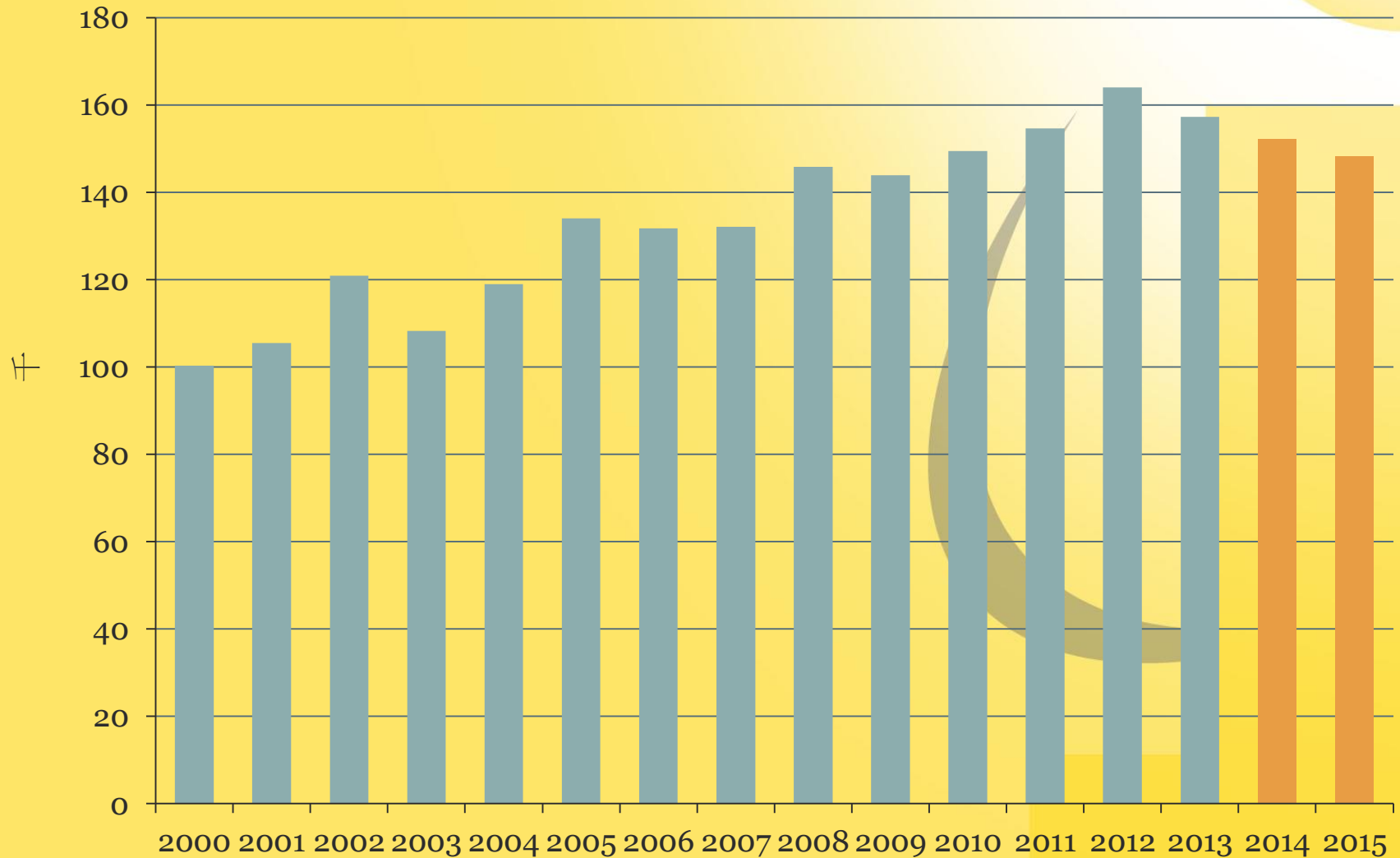
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Physical Review Applied

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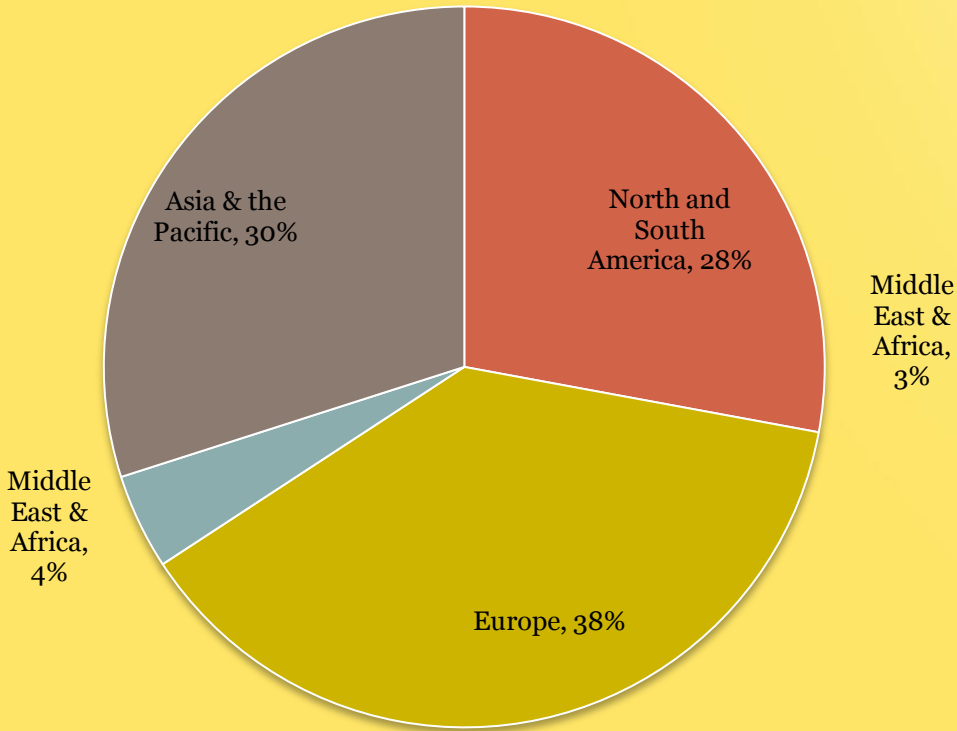
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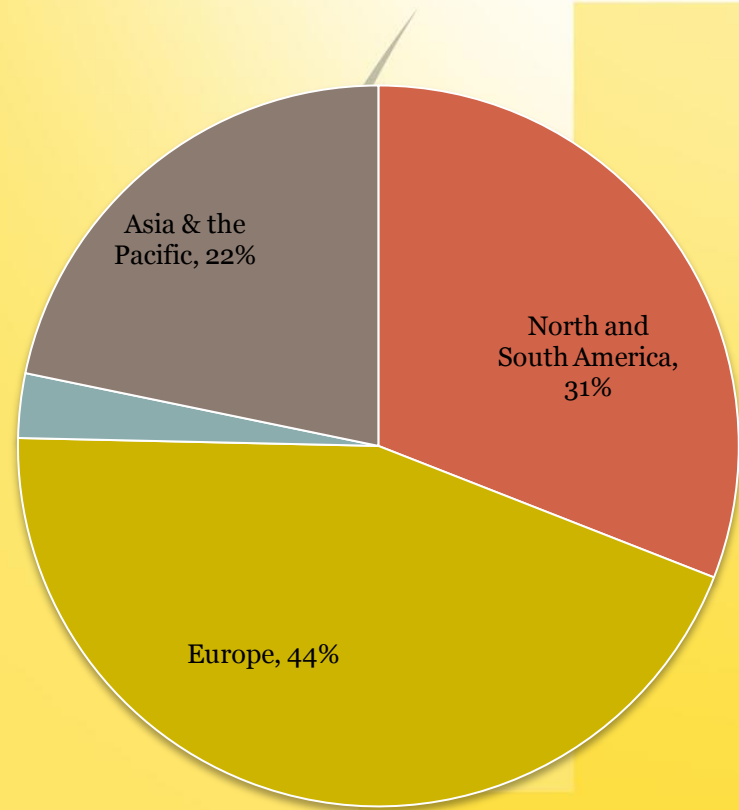


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Upcoming Meetings

- [Advances in Quantum Information summer school](#) Rabat, Morocco, September 15-19
Jihane Mimih, Frank Narducci, Barry Sanders (PRA Editors)
- [FIO/DLS Meeting](#) Tucson, Arizona, October 21 - 22
(PRL, PRA Editors)
- [56th Annual Meeting of the APS Division of Plasma Physics](#) New Orleans, October 27 - 31
Eli Ben-Naim, Dirk Jan Bukman (PRE Editors)
- [67th Annual Meeting of the APS Division of Fluid Dynamics](#) San Francisco, November 23 - 25
Dirk Jan Bukman, Bruno Eckhardt (PRE Editors)

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PHYSICAL REVIEW B

condensed matter and materials physics

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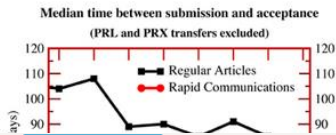
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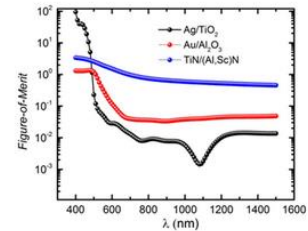
EDITORS' SUGGESTION
TiN/(Al,Sc)N metal/dielectric superlattices and multilayers as hyperbolic metamaterials in the visible spectral range

RAPID COMMUNICATIONS



EDITORS' SUGGESTION

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PHYSICAL REVIEW B

condensed matter and materials physics

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Recent Articles

By Issues

- Vol. 90, Iss. 12
15 September 2014
- Vol. 90, Iss. 11
15 September 2014
- Vol. 90, Iss. 9
1 September 2014
- Vol. 90, Iss. 10
1 September 2014
- Earlier Issues

Highlights

- ALL
- Editors' Suggestion (2)
- Featured in Physics (1)
- PRL Milestone (1)

Category

- ALL
- Rapid Communication (16,494)

Structure of molten titanium dioxide

O. L. G. Alderman, L. B. Skinner, C. J. Benmore, A. Tamalonis, and J. K. R. Weber
Phys. Rev. B **90**, 094204 (2014) – Published 18 September 2014
[Show Abstract +](#)

Prediction of giant elastocaloric effect in BaTiO_3 single crystals

Yang Liu, Jie Wei, Pierre-Eymeric Jahnke, and Dkhil
Phys. Rev. B **90**, 104107 (2014) – Published 18 September 2014
[Show Abstract +](#)

Nonadiabatic-to-adiabatic dynamical quantum phase transition in coupled systems

Thomas Scaffidi, Yury Eremin, and Jize Zhao
Phys. Rev. B **90**, 104305 (2014) – Published 18 September 2014
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Exact solutions of fractional Chern insulators: Interacting particles in the Hofstadter model at finite size

Thomas Scaffidi and Steven H. Simon
Phys. Rev. B **90**, 115132 (2014) – Published 18 September 2014
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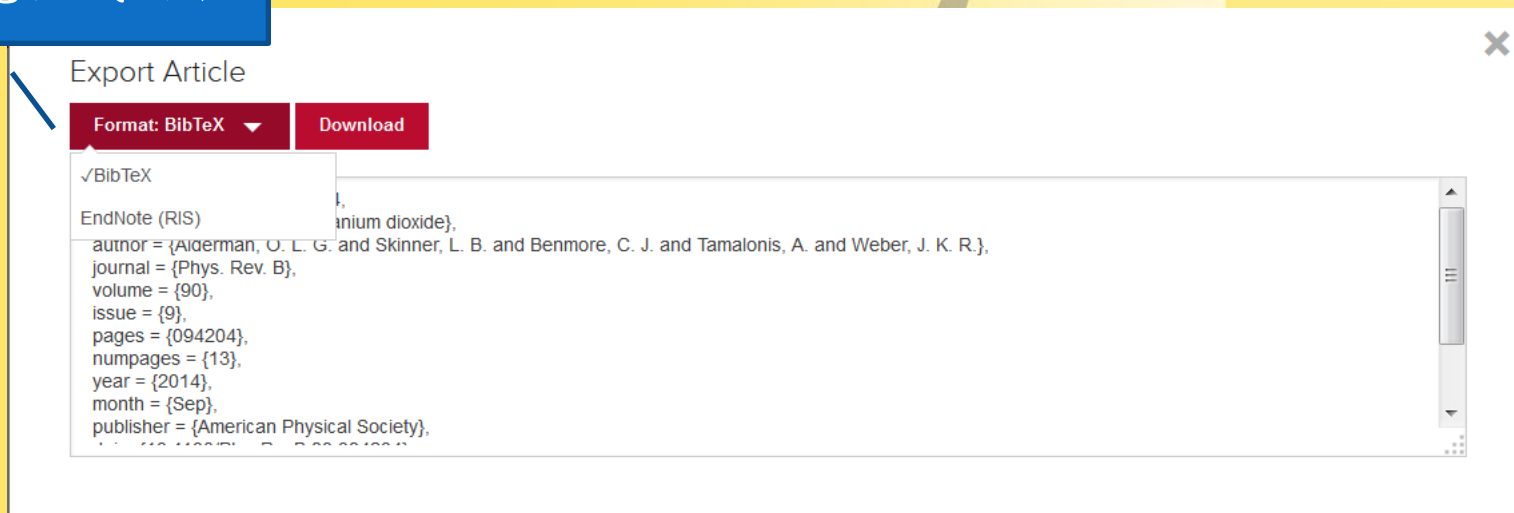
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journal = {Phys. Rev. B},
volume = {90},
issue = {9},
pages = {094204},
numpages = {13},
year = {2014},
month = {Sep},
publisher = {American Physical Society},
url = {https://doi.org/10.1103/PhysRevB.90.094204}
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搜尋文章

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Physical Review

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As the field of
science
Careful
effective
discussed
November

ON THE COVER

Tailoring the Magnetism of Co Atoms on Graphene through Substrate Hybridization

NOBEL PRIZE IN PHYSICS


2014 Nobel Laureates Announced


September 30, 2014

an online-only publication from the American Physical Society, seeks a full time editor to join its editorial team. [More info](#)

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for: quantum mechanics

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PRL Milestone

All Fields



quantum mechanics

AND



All Fields



AND



All Fields



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[Quantum walks, quantum gates, and quantum computers](#)

Andrew P. Hines and P. C. E. Stamp

Phys. Rev. A **75**, 062321 – Published 19 June 2007

SEARCH RESULTS

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for: quantum mechanics

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Most Relevant

Highlights

- ALL (4,269)
- Editors' Suggestion (2,955)
- Featured in Physics (1,278)
- PRL Milestone (36)

Category

- ALL (16,700)
- Rapid Communication (15,367)
- Open Access (1,333)

Journals

- Phys. Rev. A (13,179)
- Phys. Rev. C (13,179)
- Phys. Rev. D (42,165)
- Phys. Rev. E (17,961)
- Phys. Rev. X (248)
- Phys. Rev. Applied (20)
- Phys. Rev. ST Accel. Beams (465)
- Phys. Rev. ST Phys. Educ. Res. (159)
- Rev. Mod. Phys. (2,126)
- Phys. Rev. (17,262)
- Phys. Rev. (Series I) (94)
- Physics (425)
- Phys. Rev. Focus (225)

排序與篩選功能

PRL

Quantum Beats and Quantum Mechanics

I. R. Senitzky
Phys. Rev. Lett. **35**, 1755 – Published 29 December 1975
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14 citations

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PRA

Comment on "Arrival time in quantum mechanics" and "Time of arrival in quantum mechanics"

Jerzy Kijowski
Phys. Rev. A **59**, 897 – Published 1 January 1999
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19 citations

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符合文章列表

PRL

Statistic

Shu-Yuan
Phys. Rev. Lett. **71**, 2847 – Published 1 November 1993
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2 citations

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PR

Many-Body Problem in Quantum Mechanics and Quantum Statistical Mechanics

T. D. Lee and C. N. Yang
Phys. Rev. **105**, 1119 – Published 1 February 1957
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306 citations

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PRD

Quantum mechanics of history: The decoherence functional in quantum mechanics

H. F. Dowker and J. J. Halliwell
Phys. Rev. D **46**, 1580 – Published 15 August 1992
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89 citations

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PRD Rapid Communication

Classical mechanics as an example of generalized quantum mechanics

Kingsley R. W. Jones
Phys. Rev. D **45**, R2590(R) – Published 15 April 1992
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9 citations

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文章詳細頁

PHYSICAL REVIEW E

statistical, nonlinear, and soft matter physics

Highlights Recent Accepted Authors Referees Search About 

Equilibration of quantum chaotic systems

Phys. Rev. E **88**, 062147 – Published 27 December 2013

Quntao Zhuang (庄群韬) and Biao Wu (吴飙)

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ABSTRACT

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ARTICLE TEXT

INTRODUCTION

MODELS

DYNAMICAL EQUILIBRATION

VERIFICATION OF QUANTUM ERGODIC THEOREM

QUANTUM-CLASSICAL CORRESPONDENCE AT...

FLUCTUATION PROPERTY

DISCUSSION AND SUMMARY

ACKNOWLEDGEMENTS

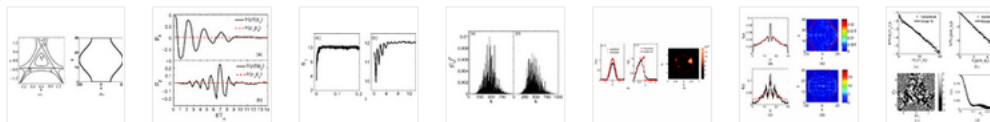
APPENDICES

REFERENCES

ABSTRACT

The quantum ergodic theorem for a large class of quantum systems was proved by von Neumann [Z. Phys. **57**, 30 (1929)] and again by Reimann [Phys. Rev. Lett. **101**, 190403 (2008)] in a more practical and well-defined form. However, it is not clear whether the theorem applies to quantum chaotic systems. With a rigorous proof still elusive, we illustrate and verify this theorem for quantum chaotic systems with examples. Our numerical results show that a quantum chaotic system with an initial low-entropy state will dynamically relax to a high-entropy state and reach equilibrium. The quantum equilibrium state reached after dynamical relaxation bears a remarkable resemblance to the classical microcanonical ensemble. However, the fluctuations around equilibrium are distinct: The quantum fluctuations are exponential while the classical fluctuations are Gaussian.











DOI: <http://dx.doi.org/10.1103/PhysRevE.88.062147>



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Published 27 December 2013 Received 20 August 2013 Revised 13 November 2013

Physical Review Letters







- **Feeds by Table of Contents Heading**
 - Atomic, Molecular, and Optical Physics 
 - Condensed Matter: Electronic Properties, etc. 
 - Condensed Matter: Structure, etc. 
 - Elementary Particles and Fields 
 - General Physics: Statistical and Quantum Mechanics, Quantum Information, etc. 
 - Gravitation and Astrophysics 
 - Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc. 
 - Nuclear Physics 
 - Plasma and Beam Physics 
 - Soft Matter, Biological, and Interdisciplinary Physics 

Reviews of Modern Physics








Physical Review A

- Rapid Communications 
- **Feeds by Table of Contents Heading**
 - Atomic and molecular collisions and interactions 
 - Atomic and molecular processes in external fields 
 - Atomic and molecular structure and dynamics 
 - Fundamental concepts 
 - Matter waves 
 - Quantum information 
 - Quantum optics, physics of lasers, nonlinear optics, classical optics 











Physical Review B

- Rapid Communications 
- **Feeds by Table of Contents Heading**
 - Dynamics, dynamical systems, lattice effects, quantum solids 
 - Electronic structure and strongly correlated systems 
 - Inhomogeneous, disordered, and partially ordered systems 
 - Magnetism 
 - Semiconductors I: bulk 










Physical Review C

- Rapid Communications 
- **Feeds by Table of Contents Heading**
 - Electroweak Interaction, Symmetries 
 - Hadronic Physics and QCD 
 - Nuclear Astrophysics 
 - Nuclear Reactions 
 - Nuclear Structure 
 - Nucleon-Nucleon Interaction, Few-Body Systems 
 - Relativistic Nuclear Collisions 

Physical Review D

- Rapid Communications 
- **Feeds by Table of Contents Heading**
 - Astrophysics and Cosmology 
 - Beyond the standard model 
 - Electroweak Interactions 
 - Experiment 
 - Field theory, formal particle theory 
 - Field theory, general methods 
 - General relativity, gravitation 
 - String theory 
 - Strong interactions and Lattice methods 

Physical Review E

- Rapid Communications 
- **Feeds by Table of Contents Heading**
 - Biological physics 
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 - Classical physics 
 - Colloidal dispersions, suspensions, and aggregates 
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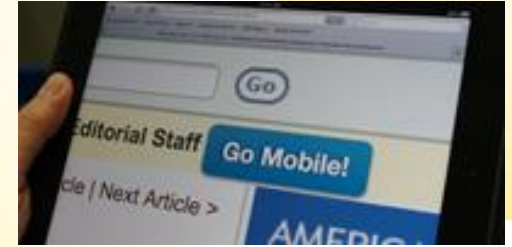
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