

# APS全文数据库使用指南



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# 提 纲

- APS（美国物理学会）数据库介绍
- 基本功能：浏览与检索
- 管理功能

## APS (American Physical Society)

- APS（美国物理学会）成立于1899年5月，世界上最具声望的物理学专业学会之一
- APS出版的所有物理评论系列期刊分别是各专业领域最受尊重、被引用次数最多的科技期刊之一，在全球物理学界及相关学科领域的研究者中具有极高的声望
- APS是少数能提供全部回溯文献的资料库之一，数据最早回溯到1893年

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- **Physical Review A**
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- **Reviews of Modern Physics** 《现代物理学评论》
- **PROLA:** 过刊文献库

## APS 免费全文内容——2009

### 1、Physical Review Focus 《物理评论中心》

它站在学生和非专业人士都能理解的水平，用通俗易懂的语言做简要地解说。采用生动图片和逼真视频的新形式，是一份所有用户都可以免费浏览全文的网上资源。

### 2、Physics 《物理》

《物理》这本期刊汇集了Physical Review系列期刊中的一些物理学领域的焦点和重大研究。用简单易懂的语言和插图阐述这些研究成果，并对某一个物理学领域新的发展趋势进行探讨研究。

### 3、Physical Review Special Topics- Accelerators and Beams 《物理评论特别专题-加速器和光束》

APS同行评议的电子期刊。覆盖子系统和组件技术、束流动力学以及工业科学中加速器的应用、设计、操作和改良。包括高能和核物理、同步加速器辐射产品、散变中子源、医学疗法和强流束应用中的加速器。已被SCI、INSPEC, PubSCIENCE, SPIN收录

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数据来源: JCR 2009

No.	期刊名称	期刊名称(中文)	影响因子 2009	各领域的排名情况
1	Physical Review A: Atomic, Molecular, and Optical Physics	《物理学评论A辑: 原子、分子和光学物理学》	2.866	原子、分子、化学物理学 引用量排名第二
2	Physical Review B: Condensed Matter and materials Physics	《物理学评论B辑: 凝聚态物质与材料物理学》	3.475	凝聚态物理 引用量排名第一
3	Physical Review C: Nuclear Physics	《物理学评论C辑: 核物理学》	3.477	核物理学 引用量排名第一
4	Physical Review D: Particles, Fields, Gravitation, and	《物理学评论D辑: 粒子、场、重力与宇宙学》	4.922	粒子和场物理 引用量排名第一
5	Physical Review E: Statistical, Nonlinear, and Soft Matter Physics	《物理学评论E辑: 统计、非线性和软体物理学》	2.4	数学物理学 流体、等离子物理学 引用量分别排名第一
6	Physical Review Letters	《物理评论快报》	7.328	跨学科物理 引用量排名第一
7	Review of Modern Physics	《现代物理学评论》	33.145	跨学科物理 影响因子排名第一

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
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### Announcement: PRB Editors' Suggestions

April 1, 2008



As a service to both our readers and authors, starting April 1 we will formally list a small number of papers published in *Physical Review B* that the editors and referees find of particular interest, importance, or clarity. These Editors' Suggestion papers will be listed on [prb.aps.org](http://prb.aps.org) and marked with a special icon in the print and online Tables of Contents and in online searches. The icon contains the printer's mark that appeared on the covers of all sections of the *Physical Review* until about a decade ago.

More News/Announcements

### On PRL's Cover

March 28, 2008

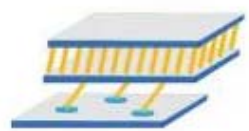


Illustration of an earthquakelike model of friction, showing the interface between a solid block and a fixed substrate as the block is moved to the right.

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**Issue 5** May 2009

**Issue 4** April 2009

**Issue 3** March 2009

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**Volume 71** January - June 2005

**Volume 70** July - December 2004

## News, Announcements, and Editorials

- APS seeks new PRB Assistant Editor (November 3, 2008)
- Editorial: APS now leaves copyright with authors for derivative works (October 1, 2008)
- Editorial: *Physics* - spotlighting exceptional research (September 15, 2008)
- Introducing *Physics* (July 17, 2008)
- New Feature: New Topical RSS Feeds Available (June 11, 2008)

## More News

## Most cited articles from 1978

- 1 Dynamics of the charge-density wave. I. Impurity pinning in a single chain
- 2 Infinite-ranged models of spin-glasses
- 3 Ground state of the fermion one-component plasma: A Monte Carlo study in two and three dimensions
- 4 Proof that  $\partial E / \partial n_i \neq \epsilon$  in density-functional theory
- 5 Field-theory renormalization and critical dynamics above  $T_c$ : Helium, antiferromagnets, and liquid-gas systems
- 6 Critical indices from perturbation analysis of the Callan-Symanzik equation
- 7 Generalized Wigner lattices in one dimension and some applications to tetracyanoquinodimethane (TCNQ) salts

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## Physical Review A

(Atomic, Molecular, and Optical Physics)

June 2008

Volume 77, Number 6, partial issue


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A 77, 060301 (2008).

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☐ [Entanglement detection beyond the computable cross-norm or realignment criterion](#)

[Cheng-Jie Zhang](#), [Yong-Sheng Zhang](#), [Shun Zhang](#), and [Guang-Can Guo](#)

Published 2 June 2008 (4 pages)

APS » Journals » Phys. Rev. A » Volume 81 » Issue 4

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Phys. Rev. A 81, 040301(R) (2010) [4 pages]

# Tunable joint measurements in the dispersive regime of cavity QED

Abstract

References

No Citing Articles

Download **PDF** (479 kB) Buy this article Export: BibTeX or EndNote (RIS)Kevin Lalumière<sup>1,\*</sup>, J. M. Gambetta<sup>2</sup>, and Alexandre Blais<sup>1</sup><sup>1</sup>Département de Physique, Université de Sherbrooke, Sherbrooke, Québec, Canada, J1K 2R1<sup>2</sup>Institute for Quantum Computing and Department of Physics and Astronomy, University of Waterloo, Waterloo, Ontario, Canada, N2L 3G1

Received 27 November 2009; published 1 April 2010

Joint measurements of multiple qubits open new possibilities for quantum information processing. Here we present an approach based on homodyne detection to realize such measurements in the dispersive regime of cavity or circuit QED. By changing details of the measurement, the readout can be tuned from extracting only single-qubit to extracting only multiqubit properties. We obtain a reduced stochastic master equation describing this measurement and its effect on the qubits. As an example, we present results showing parity measurements of two qubits. In this situation, measurement of an initially unentangled state can yield, with near unit probability, a state of significant concurrence.

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URL: <http://link.aps.org/doi/10.1103/PhysRevA.81.040301>DOI: [10.1103/PhysRevA.81.040301](https://doi.org/10.1103/PhysRevA.81.040301)

PACS: 03.67.Lx, 03.65.Yz, 42.50.Lc, 42.50.Pq

PHYSICAL REVIEW A, 66, 031402(R) (2002)

# Double photoionization of doubly excited helium

Liang Feng and Hugo W. van der Hart

*Department of Applied Mathematics and Theoretical Physics, Queen's University Belfast, Belfast BT7 1NN, United Kingdom*

(Received 19 February 2002; published 23 September 2002)

The *R*-matrix-Floquet technique for atoms in strong laser fields is extended to describe double photoionization by combining it with *B*-spline basis sets. One advantage of this extended *R*-matrix-Floquet approach is that the effects of the intense laser field on double photoionization can be taken into account nonperturbatively. The results agree with existing experimental and theoretical results for double photoionization of the ground state of He within 5% above a photon energy of 4.2 a.u. We further apply this approach to study double photoionization of the autoionizing  $2s^2\ ^1S^e$  state of He to demonstrate its capability in dealing with autoionization of the initial state and photoionization simultaneously.

DOI: 10.1103/PhysRevA.66.031402

PACS number(s): 32.80.Wr, 31.15.Ar, 32.80.Gc

Double photoionization provides a sensitive probe of the correlated motion of the electrons inside an atom. Obviously, in the absence of electron-electron interaction, a single photon could not eject two electrons out of an atom simultaneously. In the last decade, extensive experimental and the

independent one by using the Floquet-Fourier ansatz. We divide configuration space into an inner and an outer region. In the inner region, the full Hamiltonian including all interactions between all electrons is employed to determine the inner Floquet  $P$  matrix. In the outer region, the exchange in-

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Phys. Rev. A 80, 010101(R) (2009) [4 pages]


## Equation of motion for the process matrix: Hamiltonian identification and dynamical control of open quantum systems

Abstract

References (33)

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1. M. A. Nielsen and I. L. Chuang, *Quantum Computation and Quantum Information* (Cambridge University Press, Cambridge, England, 2000).
2. H. Rabitz et al., *Science* **288**, 824 (2000).
3. R. L. Kosut et al., e-print [arXiv:quant-ph/0411093](#).
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G. M. D'Ariano and P. Lo Presti, *Phys. Rev. Lett.* **86**, 4195 (2001). [ISI]
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6. M. Mohseni and D. A. Lidar, *Phys. Rev. A* **75**, 062331 (2007). [ISI]
7. J. Emerson et al., *Science* **317**, 1893 (2007).
8. A. Bendersky et al., *Phys. Rev. Lett.* **100**, 190403 (2008).
9. M. Mohseni et al., *Phys. Rev. A* **77**, 032322 (2008).
10. M. Mohseni et al., *Phys. Rev. A* **77**, 042320 (2008).
11. H.-P. Breuer and F. Petruccione, *The Theory of Open Quantum Systems* (Oxford University Press, New York, 2003).

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1. Theory of multiphoton single and double ionization of two-electron atomic systems driven by short-wavelength electric fields: An *ab initio* treatment  
Emmanuel Fomouuo, Gérard Lagmago Kamta, Gaston Edah, and Bernard Piroux  
Physical Review A **74** 063409 (2006)
2. Single- and two-photon ionization of Sr  
Martin Madine, Hugo W van der Hart  
Journal of Physics B Atomic Molecular and Optical Physics **38** 1895 (2005)
3. Two- and three-photon ionization of He between 10 and 10 W cm  
Hugo W van der Hart, Peter Bingham  
Journal of Physics B Atomic Molecular and Optical Physics **38** 207 (2005)
4. Two-electron photoemission from polarized atoms  
J Berakdar, N M Kabachnik  
Journal of Physics B Atomic Molecular and Optical Physics **38** 23 (2005)

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Walter J. Merz

##### Full Text:

... a continuation of the normal piezoelectric effect above the Curie point into the Curie region...  
...explained as a continuation of the piezo- effect (d36), and the other strains are proportional to...  
...quite analogously to those of the piezo-effect . Because the fhl's must be proportional to P. in...

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Phys. Rev. 76, 1221 (1949)

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#### 2. Dimensionality of excitons in laser-diode structures composed of In<sub>x</sub>Ga<sub>1-x</sub>N multiple quantum wells

Yukio Narukawa, Yoichi Kawakami, Shigeo Fujita, and Shuji Nakamura

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...with temperature, the piezoelectric effect may not play an important role in this particular ...  
... the field is opposite to that of the piezo effect . 26 R. C. Miller, D. A. Kleinman, W. A. Nordland, ...

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Phys. Rev. B 59, 10283 (1999)

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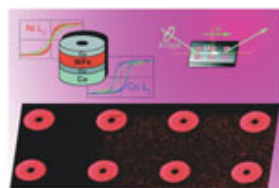
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Applied Physics Letters -- 24 September 2007

Volume 91, Issue 13 , Articles (13xxxx)

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LASERS, OPTICS, AND OPTOELECTRONICS


- A quasidistributed fiber optic sensor for solute concentration measurement based on Fresnel reflection

Yi Ting Wu, Xu Guang Huang, and Hui Su  
Appl. Phys. Lett. **91**, 131101 (2007) (3 pages)


注: 以AIP为例

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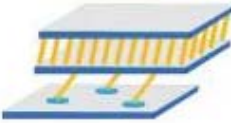
Referees

### Announcement: PRB Editors' Suggestions


April 1, 2008




As a service to both authors and readers, the PRB Editors formally list a small number of papers that they hope will lead to new ideas or clarity. These Editor's Suggestions are marked with a small icon on the covers of all issues of Physical Review B and are available on the PRB website ([prb.aps.org](http://prb.aps.org)) and in online searches. More News/Announcements





### Editor Selected Feeds

**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 \(2007\)](#).

**PRB Editors' Suggestions** 







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


- Graphene 
- Magnetic semiconductors 
- Metal-insulator transitions 
- Metamaterials 

#### 订阅实时书签

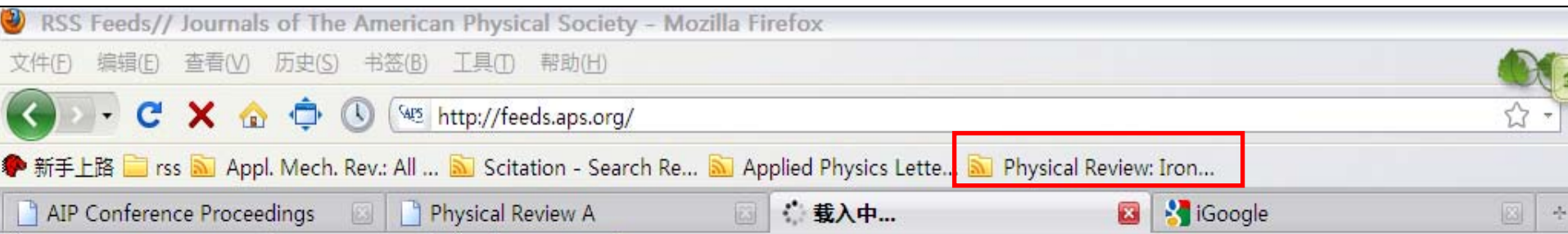
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- Metamaterials
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- Plasmonics
- Spintronics
- Strong correlations in one dimension
- Ultracold Bose and Fermi Gases

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### PRB Editors' Suggestions

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