

REVIEWS of MODERN PHYSICS

A quarterly journal seeking to enhance communication among physicists by publishing comprehensive scholarly reviews of physics topics, as well as colloquia and tutorial articles in rapidly developing fields of physics.

Editor: ACHIM RICHTER, Technische Universität Darmstadt (Emeritus)

Colloquia

Editor: A. H. CASTRO NETO, National University of Singapore

Associate ASTROPHYSICS

Editors: FRIEDRICH-KARL THIELEMANN, Universität Basel
ATOMIC, MOLECULAR, AND OPTICAL PHYSICS (Experimental)

KLAUS MØLMER, University of Aarhus

BIOLOGICAL PHYSICS

MARGARET S. CHEUNG, University of Houston;
Center for Theoretical Biological Physics, Rice University

CONDENSED MATTER PHYSICS (Experimental)

ARTHUR F. HEBARD, University of Florida

CONDENSED MATTER PHYSICS (Theoretical)

DIETRICH BELITZ, University of Oregon

MATHEMATICAL PHYSICS

IGOR KLEBANOV, Princeton University

NUCLEAR PHYSICS

WITOLD NAZAREWICZ, National Superconducting Cyclotron Laboratory,
Michigan State University; Oak Ridge National Laboratory

PARTICLE PHYSICS (Experimental)

PAUL D. GRANNIS, State University of New York, Stony Brook

PARTICLE PHYSICS (Theoretical)

PIERRE RAMOND, University of Florida

PHYSICS OF PLASMAS AND BEAMS

WIM LEMANS, Lawrence Berkeley National Laboratory, University of California

QUANTUM INFORMATION

DAVID DiVINCENZO, Forschungszentrum Jülich

SOFT CONDENSED MATTER

MARJOLEIN DIJKSTRA, Leonard S. Ornstein Laboratorium, Universiteit Utrecht

Journal Manager:

DEBBIE BRODBAR, APS Editorial Office

American Physical Society

Officers

President	HOMER NEAL
Speaker of Council	NAN PHINNEY
Chief Executive Officer	KATE P. KIRBY
Editor in Chief	PIERRE MEYSTRE
Publisher	MATTHEW SALTER
Chief Information Officer	MARK D. DOYLE

One Physics Ellipse
College Park, MD 20740-3844

APS Editorial Office

Directors

Editorial	DANIEL T. KULP
Journal Operations	CHRISTINE M. GIACCONE

1 Research Road
Ridge, NY 11961-2701
Phone: (631) 591-4000
Email: rmp@aps.org
Web: <http://journals.aps.org/>
Submissions: rmpext@aps.org or
<http://authors.aps.org/Submissions/>

Member Subscriptions:

APS Membership Department

One Physics Ellipse
College Park, MD 20740-3844
Phone: (301) 209-3280 Fax: (301) 209-0867
Email: membership@aps.org

Institutional Subscriptions:

APS Subscription Services

P.O. Box 41
Annapolis Junction, MD 20701
Toll free: (888) 339-9655
Phone: (301) 617-7809 Email: subs@aps.org

Reviews of Modern Physics publishes comprehensive reviews as well as shorter colloquia in all areas of physics. For information, see Article and Colloquium Guidelines at http://journals.aps.org/rmp/info/article_guide.html. Proposals should include an outline with the key citations.

Proposals and manuscripts should be submitted electronically in acceptable format (see <http://authors.aps.org/Submissions/>). Submission is a representation that the manuscript has not been published previously and is not currently under consideration for publication elsewhere. An executed APS **copyright-transfer form** must be provided (effective only on acceptance for publication). **Information for Contributors** can be found at <http://journals.aps.org/rmp/authors>. **Reprints** are offered for sale to authors.

For additional information regarding the online version of this journal, please visit: <http://journals.aps.org/rmp>. Institutional subscribers requesting address changes, filing claims, or requesting additional information, please contact the APS Subscription Services at subs@aps.org. Member subscribers requiring changes, claims or additional information should contact the APS Membership Department at membership@aps.org.

Copyright © 2016 American Physical Society. All rights reserved.

*Reviews of Modern Physics*TM is a trademark of the American Physical Society, registered in the United States, Canada, European Union and Japan.

Rights and Permissions: <http://journals.aps.org/copyrightFAQ.html>.

Copying: No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the written permission of the publisher, except as stated below. Single copies of individual articles may be made for private use or research. Authorization is given to copy articles beyond the use permitted by Sections 107 and 108 of the U.S. Copyright Law, provided the copying fee of \$35.00 per copy per article is paid to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA.

Reproduction of an entire Article in a reprint collection, or for advertising or promotional purposes, or republication in any form requires permission from APS. Permission must be sought via Copyright Clearance Center (CCC) RightsLink system. To request permission to republish, refer to the Reuse and Permissions link that can be found on each APS article page and provide the requested information.

Other Use: Permission is granted to quote from the journal with the customary acknowledgment of the source. Permission must be sought using the Copyright Clearance Center (CCC) RightsLink system. To request permission to reproduce a figure, table, or excerpt of an article refer to the Reuse and Permissions link that can be found on each APS article page and provide the requested information. Authorization for private use or research does not extend to systematic or multiple reproduction, to copying for promotional purposes, to distribution in any format, or to republication in any form. In all such cases, specific permission from APS must be obtained.

Reviews of Modern Physics [ISSN: 0034-6861 (print), 1539-0756 (online); CODEN RMPHAT; printed in USA] is published quarterly by the American Physical Society, 1 Research Road, Ridge, NY 11961-2701.

POSTMASTER: Send address changes to *Reviews of Modern Physics*, APS Subscription Services, P.O. Box 41, Annapolis Junction, MD 20701. The 2016 print + online base price is \$755. Periodicals postage rates are paid at College Park, MD, and additional mailing offices.