

PHYSICAL REVIEW B

CONDENSED MATTER AND MATERIALS PHYSICS

Editor

PETER D. ADAMS

Associate Editors

ANTHONY M. BEGLEY ALLEN GOLAND KELVIN G. LYNN
MYRON STRONGIN MICHAEL WEINERT

Senior Assistant Editor

DANIEL T. KULP

Assistant Editors

MANOLIS ANTONOYIANNAKIS MATTHEW D. EAGER SUSAN H. FARRANT JULIE KIM-ZAJONZ
ALISON Y. LOUDON BRADLEY RUBIN JAMES W. TAYLOR KIRSTEN TAYLOR

EDITORIAL BOARD

Term ending 31 December 2004

VINCENT H. CRESPI
DANIEL W. HONE
ANNA PAINELLI
Z. VALY VARDENY
D. WEAIRE

Term ending 31 December 2005

JOHN R. CLEM
BARBARA A. JONES
STEVEN A. KIVELSON
DOUGLAS L. MILLS
MICHAEL R. NORMAN

Term ending 31 December 2006

M. A. MOORE
KARIN RABE
PHILIP L. TAYLOR
SUKEKATSU USHIODA
MATTHIAS SCHEFFLER

Published through the
American Institute of Physics
by
The American Physical Society

President

HELEN R. QUINN

President-Elect

MARVIN L. COHEN

Vice-President

JOHN BAHCALL

Editor-in-Chief

MARTIN BLUME

Treasurer and Publisher

THOMAS J. MCILRATH

Executive Officer

JUDY R. FRANZ

Editorial Office:

The American Physical Society

1 Research Road, Box 9000
Ridge, NY 11961-9000

Phone: (631) 591-4020

Fax: (631) 591-4141

Email: prb@aps.org

Web: <http://publish.aps.org/>

Submissions: prbtex@aps.org or
<http://publish.aps.org/ESUB/>

Production and distribution by

American Institute of Physics

Suite 1N01

2 Huntington Quadrangle
Melville, NY 11747-4502

Phone: (516) 576-2200

Fax: (516) 576-2643

Email: prb1@aip.org

Manuscripts should be submitted electronically in acceptable format (see <http://publish.aps.org/ESUB/> or inquire at prbtex@aps.org). If this is not possible, send three copies to the Editorial Office. Submission is a representation that the manuscript has not been published previously and is not currently under consideration for publication elsewhere. Authors should provide indexing codes according to the PACS scheme (available at <http://publish.aps.org/PACS/>). An executed APS **copyright-transfer** form must be provided (effective only on acceptance for publication); the form is available on the APS Web server and appears at the end of the 5 December 2003 issue of *Physical Review Letters*. Information for contributors may be found on our Web server or in the January and July issues.

To help defray editorial and production expenses, authors of articles which are not submitted in acceptable electronic format are expected to pay a **publication charge** of \$110 plus \$110 per journal page. Acceptable formats are REVTeX (preferred), L^AT_EX, plain T_EX; MS Word; PostScript figures. **Reprints** are offered for sale to authors.

For information about **subscription prices** and about the **online version** of the journal, see our Web server, or inquire at assocpub@aps.org. **Member** inquiries regarding **subscriptions**, renewals, address changes, missing or damaged copies, microfilm, and single-copy orders should be addressed to the APS Membership Department, One Physics Ellipse, College Park, MD 20740-3844 [phone: (301) 209-3280; fax: (301) 209-0867; email: membership@aps.org]. **Institutional subscribers** should address subscription inquiries to APS Subscription Services, Suite 1N01, 2 Huntington Quadrangle, Melville, NY 11747-4502 [phone: (516) 576-2270 or (800) 344-6902; fax: (516) 349-9704; email: subs@aps.org]. For address changes please send both old and new addresses, and if possible, send the mailing label from a recent issue.

Copyright 2004 by The American Physical Society

Rights and Permissions

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 \$22.50 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 from the Associate Publisher, The American Physical Society, One Physics Ellipse, College Park, MD 20740-3844.

Other Use: Permission is granted to quote from the journal with the customary acknowledgment of the source. Permission must be sought from the APS Associate Publisher to reproduce a figure, table, or excerpt of an Article. 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.

Physical Review B (ISSN: 0163-1829; CODEN PRBMDO; printed in USA) is published four times a month by The American Physical Society through the American Institute of Physics.

POSTMASTER: Send address changes to Physical Review B, APS Subscription Services, Suite 1N01, 2 Huntington Quadrangle, Melville, NY 11747-4502. The 2004 print + online base price is \$6115. Periodicals postage rates are paid at Huntington Station, NY, and additional mailing offices.