PHYSICAL REVIEW C
NUCLEAR PHYSICS

Editor
BENJAMIN F. GIBSON

Associate Editors
RICHARD F. CASTEN **BRADLEY W. FILIPPONE** **JOSEPH I. KAPUSTA**
W. GARY LOVE **D. JOHN MILLENER** **CHRISTOPHER WESSELBORG**

Assistant Editor
DEBBIE BRODBAR

EDITORIAL BOARD

Term ending 31 December 2003
T. WILLIAM DONNELLY
CHARLES GALE
BRIAN D. SEROT
BRADLEY M. SHERRILL
REINHARD STOCK

Term ending 31 December 2004
SIMON CAPSTICK
ENZO DE SANCTIS
ALEJANDRO GARCÍA
DAN-OLOF RISKA
ROBERT B. WIRINGA

Term ending 31 December 2005
JONATHAN ENGEL
SYDNEY GALES
CHARLES GLASHAUSSER
INGEMAR RAGNARSSON
HIDEYUKI SAKAI

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

President
MYRIAM P. SARACHIK
President-Elect
HELEN R. QUINN
Vice-President
MARVIN L. COHEN
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) 591-4030
Fax: (631) 591-4141
Email: prc@aps.org
Web: http://publish.aps.org/
Submissions: prctex@aps.org or
http://publish.aps.org/ESUB/

Production and distribution by

American Institute of Physics
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

Phone: (516) 576-2200
Fax: (516) 576-2643
Email: prc@aip.org

Manuscripts should be **submitted** electronically in acceptable format (see `http://publish.aps.org/ESUB/` or inquire at prctex@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 6 June 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 $100 plus $100 per journal page. Acceptable formats are REVTEX (preferred), LATEX, plain TEX; 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 1NO1, 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 2003 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 $20 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 C (ISSN: 0556-2813; CODEN PRVCAN; printed in USA) is published once a month by The American Physical Society through the American Institute of Physics.

POSTMASTER: Send address changes to Physical Review C, APS Subscription Services, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502. The 2003 print + online base price is $1585. Periodicals postage rates are paid at Huntington Station, NY, and additional mailing offices.