

PHYSICAL REVIEW C

NUCLEAR PHYSICS

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

Editor
H. H. BARSCHALL

Associate Editors
G. J. DREISS M. S. WEISS

Officers

President
GEORGE E. PAKE
Xerox Research Center

Vice-President
NORMAN F. RAMSEY
Harvard University

Vice-President Elect
LEWIS M. BRANSCOMB
IBM Corporation

Executive Secretary
W. W. HAVENS, JR.
Columbia University

Treasurer
JOSEPH A. BURTON
Bell Laboratories
(retired)

*Managing Editor of
The Physical Review*
B. CHALMERS FRAZER
Brookhaven National Laboratory

Regional Secretaries:

Central States
J. ERSKINE
Argonne National Laboratory

Western States
WARD WHALING
California Institute of Technology

Southwest and Mountain States
JOHN L. WARREN
Los Alamos Scientific Laboratory

Southeastern States
L. W. SEAGONDOLLAR
North Carolina State University

Secretary Emeritus
K. K. DARROW
Bell Laboratories
(retired)

Treasurer Emeritus
S. L. QUIMBY
Columbia University

Office of the Society

The American Physical Society
335 East 45th Street
New York, N.Y. 10017

Manuscripts for publication should be submitted in duplicate to the Editor, *Physical Review*, Brookhaven National Laboratory, Upton, N. Y. 11973. Submission is a representation that the manuscript has not been published previously nor currently submitted for publication elsewhere. The manuscript should be accompanied by a statement transferring copyright from the authors (or their employers—whoever holds the copyright) to APS; the form for copyright transfer is printed on page vi of this journal and is also available from the Editor's office or APS. This written transfer of copyright, which previously was assumed to be implicit in the act of submitting a manuscript, is necessary under the new (1978) U.S. copyright law in order for APS to continue disseminating physics research results as widely as possible. Further information may be obtained from the Executive Secretary, The American Physical Society.

To support the cost of wide dissemination of research results through publication of journal pages, the authors' institutions are requested to pay a publication charge of \$70 per page, which, if honored, entitles them to 100 free reprints. Nonpayment of the publication charge may lead to delays in publication. An additional \$15 per article is requested for advance publication of the abstract in *Physical Review Abstracts*.

Subscription prices (table below) for American Physical Society members only are for the fiscal year July 1, 1977–June 30, 1978. The prices in parentheses are nonmember subscription prices (January–December 1977). Domestic subscription rates apply to U.S. & Possessions, Canada, & Mexico.

	No. Issues	Domestic	Foreign Surface Mail	Optional Air Freight Europe	Optional Air Freight Asia
Physical Review A	12	\$15.00 (60)	\$22.00 (67)	\$34.00 (77)	\$54.00 (95)
Physical Review B	24	30.00 (120)	44.00 (134)	74.00 (160)	107.00 (190)
1st or 15th issue only	12	15.00	22.00	37.00	59.00
Physical Review C	12	15.00 (60)	22.00 (67)	40.00 (83)	59.00 (100)
Physical Review D	24	30.00 (120)	44.00 (134)	70.00 (156)	96.00 (180)
1st or 15th issue only	12	15.00	22.00	35.00	48.00
Physical Review Index	2	3.50 (12)	6.50 (15)	8.50 (16)	9.50 (17)
Physical Review A, B, C, D, & Index	74	90.00 (360)	132.00 (402)	218.00 (476)	316.00 (565)

Back Number Price: Single copies, \$7.00.

Microfilm subscriptions to *Physical Review A-D* (including indexes) are available on 16- and 35-mm film. Send orders and inquiries to: Dept. N/M, American Institute of Physics, 335 East 45th Street, New York, N. Y. 10017.

Subscriptions, renewals, address changes, and single-copy orders should be addressed to: Subscription Fulfillment Division, American Institute of Physics, 335 East 45th Street, New York, N. Y. 10017. Allow at least six weeks advance notice. For address changes please send both old and new addresses, and, if possible, include an address-stencil imprint from the mailing wrapper of a recent issue. For your convenience a change of address form is included in every issue of *Physics Today*.

Copyright © 1977, The American Physical Society

Individual readers of this journal, and nonprofit libraries acting for them, are freely permitted to make fair use of the material in it, such as to copy an article for use in teaching or research.

Permission is granted to quote from this journal in scientific works with the customary acknowledgment of the source. To reprint a figure, table, or other excerpt requires, in addition, the consent of one of the original authors and notification of APS.

Republication or systematic or multiple reproduction of any material in this journal (including abstracts) is permitted only under license from APS; in addition, APS may require that permission also be obtained from one of the authors. Address inquiries and notices to the Executive Secretary, The American Physical Society, 335 East 45th Street, New York, New York 10017.

Physical Review C is published once a month (on the 1st of each month).

Second-class postage rates paid at New York, N. Y., and additional mailing offices.

ISSN: 0556-2813