PHYSICAL REVIEW C

NUCLEAR PHYSICS

Editor
H. H. BARSCHALL

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

Editorial Board

Term ending 31 December 1980
DAVID B. FOSSAN
EVANS HAYWARD
DANIEL S. KOLTUN
CARL M. SHAKIN

Term ending 31 December 1981
GEORGE BERTSCH
FELIX BOEHM
JOHN W. MIHELICH
ROBERT VANDENBOSCH

Term ending 31 December 1982
PETER D. BARNES
J. C. HARDY
J. HÜFNER
JOHN W. NEGELE

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

Offices of the Society and the Institute
335 East 45th Street
New York, N. Y. 10017

Officers of the Society

President
HERMAN FESHBACH
Massachusetts Institute of Technology

Vice-President
ARTHUR L. SCHAWLOW
Stanford University

Vice-President Elect
MAURICE GOLDHABER
Brookhaven National Laboratory

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

Treasurer
JOSEPH A. BURTON
Bell Laboratories *(retired)*

Editor-in-Chief
DAVID LAZARUS
University of Illinois

The Physical Review

Managing Editor
B. CHALMERS FRAZER
Brookhaven National Laboratory

Deputy Managing Editor
P. D. ADAMS

Editorial Systems Manager
MARGARET JUDD

Manuscripts for publication should be submitted in triplicate to the Editor, *Physical Review*, 1 Research Road, Box 1000, Ridge, N. Y. 11961. Submission is a representation that the manuscript has not been published previously nor is it currently under consideration for publication elsewhere. The manuscript should be accompanied by a statement transferring copyright to APS. This written transfer of copyright, which previously was assumed to be implicit in the act of submitting a manuscript, is needed under present U.S. copyright law. Requests for information or exceptions should be addressed to 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 $65 per page, which, if honored, entitles them to 100 free reprints. Nonpayment of the publication charge leads 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, 1980–June 30, 1981. The prices in parentheses are nonmember subscription prices (January–December 1980). Domestic subscription rates apply to U.S. & Possessions. Back-number price: Single copies, $11.00.

	No. issues	Domestic	Foreign (incl. Can. & Mex.)	Optional air freight Europe	Asia
Physical Review C	12	$20.00 (85)	$32.00 (97)	$54.00(115)	$65.00(130)
Physical Review Index	1	3.50 (10)	9.50 (16)	13.50 (19)	15.50 (22)
Physical Review A, B, C, D, & Index	73	120.00(530)	194.00(604)	318.00(710)	390.00(800)

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.

Subscriptions, renewals, address changes, and single-copy orders should be addressed to: Subscription Fulfillment Division, American Institute of Physics. 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. A change-of-address form is included in every issue of *Physics Today*.

Copyright 1980, The American Physical Society

Permission is granted to quote from this journal 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. **No copying fee** is required when copies of articles are made for educational or research purposes by individuals or libraries (including those at government and industrial institutions). **Republication** or reproduction for sale of articles or abstracts in this journal is permitted only under license from APS; in addition, APS may require that permission also be obtained from one of the authors. Address inquiries to the Executive Secretary, The American Physical Society.

Physical Review C is published once a month on the 1st of each month. Second-class postage rates paid at Woodbury, N. Y., and additional mailing offices.

ISSN: 0556-2813 CODEN: PRVCAN