PHYSICAL REVIEW C

NUCLEAR PHYSICS

Editors

H. H. BARSCHALL M. S. WEISS *(Nuclear Theory)*

Associate Editor

G. J. DREISS

Editorial Board

Term ending 31 December 1987

DAVID E. ALBURGER
THOMAS B. CLEGG
DIETER FICK
JAMES S. O'CONNELL

Term ending 31 December 1988

GERALD A. MILLER
FRANZ PLASIL
PHILIP J. SIEMENS
W. T. H. VAN OERS

Term ending 31 December 1989

DONALD F. GEESAMAN
BENJAMIN F. GIBSON
JUNE L. MATTHEWS
ERNEST ROST

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

President
VAL L. FITCH

Vice-President
JAMES A. KRUMHANSL

Executive Secretary
W. W. HAVENS, JR.

Treasurer
HARRY LUSTIG

Editor-in-Chief
DAVID LAZARUS

Deputy Editor-in-Chief
P. D. ADAMS

Editorial Office:

1 Research Road
Box 1000
Ridge, NY 11961
Telephone: (516) 924-5533
Telex: 971599
Cable Address: PHYSREV RIDGENY

Production and distribution by

American Institute of Physics
500 Sunnyside Blvd.
Woodbury, NY 11797
Telephone: (516) 349-7800

Manuscripts for publication should be submitted to the Editorial Office in triplicate. Information for contributors may be found in the first issue of each volume. Submission is a representation that the manuscript has not been published previously and is not currently under consideration for publication elsewhere. The manuscript should be accompanied by a statement transferring copyright to APS. A transfer form may be found in the 16 February 1987 issue of *Physical Review Letters*.

To support wide dissemination of research results through publication of journal pages, the authors' institutions are requested to pay a publication charge of currently $25 per page. An additional $30 per article is requested to support advance publication of the abstract in *Physical Review Abstracts*. Because of the major reductions in publication charges in recent years, free reprints are no longer provided to authors who honor page charges; reprints are offered for sale to all authors at the current price.

Address all correspondence regarding manuscripts to the Editorial Office until the manuscript is accepted for publication. Address correspondence regarding accepted manuscripts, proofs, and reprints to the American Institute of Physics.

Subscriptions at the annual domestic nonmember rate cost $365. Complete member and nonmember subscription rates and related information may be found in the first issue of each volume. **All subscriptions** include an Annual Index to *Physical Review* and *Physical Review Letters* indexed by subject and author. **Single copies** and back issues of the Annual Index may be purchased for $40.00. **Single copy prices** of the 1981–1985 Physical Review–Physical Review Letters Cumulative Author Index are: Members $40.00; Nonmembers $120.00. This Index was mailed free to nonmember subscribers. **Member subscriptions are for personal use only**. Address correspondence regarding subscriptions, renewals, address changes, and single-copy orders to the American Institute of Physics.

Copyright 1987 by 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, 335 East 45th Street, New York, NY 10017.

Physical Review C is published once a month. Second-class postage paid at Woodbury, NY, and additional mailing offices.

ISSN: 0556-2813 CODEN: PRVCAN