# PHYSICAL REVIEW C

## NUCLEAR PHYSICS


*Editor*

H. H. BARSCHALL

*Associate Editors*

G. J. DREISS

M. S. WEISS

*Editorial Board*

*Term ending 31 December 1982*

PETER D. BARNES
J.C. HARDY
J. HÜFNER
JOHN W. NEGELE

*Term ending 31 December 1983*

FAY AJZENBERG-SELOVE
JAMES B. CUMMING
V.A. MADSEN
GEORGE E. WALKER

*Term ending 31 December 1984*

AARON GALONSKY
JOHN R. HUIZENGA
J. RAYFORD NIX
CHARLES W. REICH



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



*President*
MAURICE GOLDHABER

*President-Elect*
ROBERT E. MARSHAK

*Vice-President*
MILDRED S. DRESSELHAUS

*Executive Secretary*
W. W. HAVENS, JR.

*Treasurer*
JOSEPH A. BURTON

*Editor-in-Chief*
DAVID LAZARUS

*Deputy Editor-in-Chief*
P. D. ADAMS



*Editorial Office:*

1 Research Road
Box 1000
Ridge, N.Y. 11961
Telephone: (516) 924-5533

*Production and distribution by*

American Institute of Physics
500 Sunnyside Blvd.
Woodbury, N.Y. 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 nor is it 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 11 January 1982 issue of *Physical Review Letters*.

**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 $85 per page, which, if honored, entitles them to 100 free reprints. Nonpayment of the publication charge may lead to delays in publication. An additional $20 per article is requested to support advance publication of the abstract in *Physical Review Abstracts*.

**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.

**Subscription** rates and related information may be found in the first issue of each volume. Address correspondence regarding subscriptions, renewals, address changes, and single-copy orders to the American Institute of Physics.


Copyright 1982, 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, N.Y. 10017.



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

ISSN: 0556-2813

CODEN: PRVCAN