

PHYSICAL REVIEW C

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 0556-2813)

PERIODICALS

Postmaster send address changes to:
American Institute of Physics
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 61, NUMBER 5

CONTENTS

MAY 2000

RAPID COMMUNICATIONS

- Virtual states of light non-Borromean halo nuclei (5 pages) 051301(R)
A. Delfino, T. Frederico, M. S. Hussein, and Lauro Tomio
- Multiple solutions of the self-consistency condition in the Walecka model and the validity of the Brown-Rho scaling law (5 pages) 051302(R)
Zhang Ben-wei, Hou De-fu, and Li Jia-rong
- Three-body analysis of the occurrence of Efimov states in $2n$ halo nuclei such as ^{19}B , ^{22}C , and ^{20}C (4 pages) 051303(R)
I. Mazumdar, V. Arora, and V. S. Bhasin
- Nuclear excitation by electronic transition in ^{189}Os (5 pages) 051304(R)
I. Ahmad, R. W. Dunford, H. Esbensen, D. S. Gemmell, E. P. Kanter, U. Rütt, and S. H. Southworth
- Utility of nucleon-target profile function in cross section calculations (4 pages) 051601(R)
B. Abu-Ibrahim and Y. Suzuki
- Preformation probabilities for light ternary particles in the cold (neutronless) fission of ^{252}Cf (4 pages) 051602(R)
A. Florescu, A. Sandulescu, D. S. Delion, J. H. Hamilton, A. V. Ramayya, and W. Greiner
- Matter-induced ρ - δ mixing: A source of dileptons (5 pages) 051901(R)
O. Teodorescu, A. K. Dutt-Mazumder, and C. Gale
- Intermediate-energy Coulomb excitation of ^{19}Ne (5 pages) 052801(R)
G. Hackman, Sam M. Austin, T. Glasmacher, T. Aumann, B. A. Brown, R. W. Ibbotson, K. Miller, B. Pritychenko, L. A. Riley, B. Roeder, and E. Spears

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

- State dependent effective interaction for the hyperspherical formalism (10 pages) 054001
Nir Barnea, Winfried Leidemann, and Giuseppina Orlandini
- Angular distribution of the longitudinal $\vec{p}\vec{p}$ spin correlation parameter A_{zz} at 197.4 MeV (9 pages) 054002
B. Lorentz, W. Haeberli, F. Rathmann, T. Wise, J. Doskow, M. Dziedzic, H. O. Meyer, R. E. Pollock, B. von Przewoski, T. Rinckel, F. Sperisen, and P. V. Pancella
- Pion-nucleon interaction in a covariant hadron-exchange model (20 pages) 054003
V. Pascalutsa and J. A. Tjon
- Lifetime measurements of medium-heavy Λ hypernuclei (11 pages) 054004
H. Park, H. Bhang, M. Youn, O. Hashimoto, K. Maeda, Y. Sato, T. Takahashi, K. Aoki, Y. D. Kim, H. Noumi, K. Omata, H. Ota, M. Sekimoto, T. Shibata, T. Hasegawa, H. Hotchi, Y. Ohta, S. Ajimura, and T. Kishimoto

