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 59, NUMBER 6 ***CONTENTS*** **JUNE 1999**

RAPID COMMUNICATIONS

Proton emission from the closed neutron shell nucleus ^{155}Ta R2975
J. Uusitalo, C. N. Davids, P. J. Woods, D. Seweryniak, A. A. Sonzogni, J. C. Batchelder, C. R. Bingham, T. Davinson, J. deBoer, D. J. Henderson, H. J. Maier, J. J. Ressler, R. Slinger, and W. B. Walters

Proton and α radioactivity below the $Z=82$ shell closure R2979
G. L. Poli, C. N. Davids, P. J. Woods, D. Seweryniak, J. C. Batchelder, L. T. Brown, C. R. Bingham, M. P. Carpenter, L. F. Conticchio, T. Davinson, J. DeBoer, S. Hamada, D. J. Henderson, R. J. Irvine, R. V. F. Janssens, H. J. Maier, L. Müller, F. Soramel, K. S. Toth, W. B. Walters, and J. Wauters

Identification of a proton-emitting isomer in ^{151}Lu R2984
C. R. Bingham, J. C. Batchelder, K. Rykaczewski, K. S. Toth, C.-H. Yu, T. N. Ginter, C. J. Gross, R. Grzywacz, M. Karny, S. H. Kim, B. D. MacDonald, J. Mas, J. W. McConnell, P. B. Semmes, J. Szerypo, W. Weintraub, and E. F. Zganjar

High-spin states in ^{205}Rn: A new shears band structure? R2989
J. R. Novak, C. W. Beausang, N. Amzal, R. F. Casten, G. Cata Danil, J. F. C. Cocks, J. R. Cooper, P. T. Greenlees, F. Hannachi, K. Helariutta, P. Jones, R. Julin, S. Juutinen, H. Kankaanpää, H. Kettunen, R. Krücken, P. Kuusiniemi, M. Leino, Benyuan Liu, M. Muikku, A. Savelius, T. Socci, J. T. Thomas, N. V. Zamfir, Jing-ye Zhang, and S. Frauendorf

Isotopic effect in ϕ photoproduction at a few GeV R2993
A. I. Titov, T.-S. H. Lee, and H. Toki

Rotational invariance in nuclear light-front mean field theory R2998
P. G. Blunden, M. Burkardt, and G. A. Miller

Evidence for the fourth P_{11} resonance predicted by the constituent quark model R3002
Simon Capstick, T.-S. H. Lee, W. Roberts, and A. Švarc

Application of the density matrix renormalization group to the two level pairing model R3005
J. Dukelsky and G. G. Dussel

ARTICLES

Nucleon-Nucleon Interaction, Few-Body Systems

Soft-core baryon-baryon potentials for the complete baryon octet 3009
V. G. J. Stoks and Th. A. Rijken

Generalized orthogonality-condition model for the *NN* interaction 3021
Vladimir I. Kukulin, V. N. Pomerantsev, and Amand Faessler

Modern *NN* force predictions for the total *nd* cross section up to 300 MeV 3035
H. Witała, H. Kamada, A. Nogga, W. Glöckle, Ch. Elster, and D. Hüber

Testing low energy theorems in nucleon-nucleon scattering 3047
Thomas D. Cohen and James M. Hansen

Copyright 1999 by The American Physical Society

(Continued)

0556-2813(199906)59:6;1-S